# Brookfield Avenue Landfill

## Staten Island, New York
## NYSDEC Site No. 2-43-006

## Post-Closure Operation, Maintenance And Monitoring Program

## Seventh Post-Closure Year Annual Summary Report

## April 2023

**New York City Department of Parks and Recreation**
**Olmsted Center**
**Flushing Meadows Corona Park**
**Flushing, New York 11368**

NYC Parks

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# 1. Introduction

The Brookfield Avenue Landfill (BAL) site completed its seventh annual post-closure reporting period on March 31, 2022. This Report has been prepared by the New York City Department of Parks and Recreation (DPR) to fulfill the reporting requirements contained in the BAL Operation and Maintenance (O&M) Manual, the BAL Monitoring Plan (as modified), and 6NYCRR Part 360 and 363.

The remainder of this Report is organized into the following Sections:

- Section 2: Site Background – This Section provides a description of the BAL site and summarizes its pertinent history and significant remedial events from the initial Remedial Investigation Report in 1998 through 2017 when the DPR opened the site to the public as Brookfield Park in accordance with its end use plan.

- Section 3: Seventh Post-Closure Year Annual Summary Report – This Section summarizes the operation, maintenance and monitoring (OM&M) activities conducted at the site during the seventh annual post-closure reporting period from April 2021 through March 2022.

- Section 4: Conclusions and Recommendations – This Section provides the conclusions and recommendations related to the site's remedial systems and post-closure OM&M activities based on the first five years of post-closure work.

# 2. Site Background

BAL site is located at 575 Arthur Kill Road, north of Arthur Kill Road and east of Richmond Avenue in Staten Island, New York 10308, as shown in Figure 1. Prior to remediation, the site was listed as a Class 2 site on the NYSDEC's Registry of Inactive Hazardous Waste Disposal Sites (Site #2-43-006). From 1966 through 1980, the City of New York placed 5.1 million cubic yards of municipal solid waste on 132 acres of the 272-acre site. Illegal industrial and hazardous waste dumping, including waste oil, sludges, metal-plating wastes, lacquers and solvents, is also reported to have occurred at the BAL during this period.

Beginning in 1982, a number of site investigations were undertaken in response to the reports of illegal dumping. In 1983, the NYSDEC listed the BAL site as a Class 2a Inactive Hazardous Waste Disposal Site. A 1992 Order of Consent issued by the NYSDEC required the City of New York to develop and implement a remedial program for the site. Between 1993 and 2000, a Remedial Investigation/Feasibility Study (RI/FS) was conducted to investigate the nature and extent of contamination and assess hazards to human health and the environment. The RI/FS was designed to augment previous studies and assist selection of the appropriate remedial action alternative.

Operable Unit 1 (OU1) at the site was the remediation of the landfill. A Record of Decision (ROD) for OU1 was published in March 2002. It presented several remedial alternatives, and the selected

alternative entailed: capping, active landfill gas collection, leachate collection and a barrier wall. The specific components of the selected OU1 remedy are summarized below:

- Construction of a 6NYCRR Part 360 landfill cap featuring a gas-venting layer, synthetic membrane barrier layer, barrier soil protection layer, and vegetated topsoil layer.
- Construction and operation of an active gas-collection system.
- Installation of a barrier wall around the landfill perimeter to prevent the subsurface discharge of leachate and landfill gas.
- Construction of a surface water runoff collection system.
- Construction of a leachate collection system bordering Richmond Creek.
- Minimization of encroachment into freshwater and tidal wetlands.
- Institutional controls to ensure groundwater beneath the site is not extracted for potable use.
- Initiation of a long-term monitoring program to ensure the contained hazardous waste does not leave the site. This long-term monitoring program is a component of the Operations and Maintenance Plan for the site, developed in accordance with 6NYCRR Part 360 regulations.

The selected OU1 remedy also entailed the construction of landscaping, roads, vehicle parking areas, walking trails and appurtenant facilities. Following completion of the OU1 remediation, the Final Engineering Report (FER) was submitted to the NYSDEC and was approved on April 6, 2015, marking the official start of the BAL post-closure period. In August 2017, the NYSDEC reclassified the BAL to a Class 4 site on its Registry of Inactive Hazardous Waste Disposal Sites as it was properly remediated but required continued site management. On December 12, 2017, the DPR opened the site to the public as Brookfield Park as per its approved end use plan. The post-closure OM&M work was performed under the oversight of the New York City Department of Environmental Protection (DEP) Bureau of Wastewater Treatment (BWT) until June 30, 2018, when this site responsibility was also transferred to the DPR. DEP BWT is still responsible for the operation of the Eltingville Pumping Station located between the East and West Cells, which is not part of the landfill property.

The objective of the BAL OM&M program is to ensure the integrity of the remedial systems and prevent adverse impacts on public health, safety, and the environment. The OM&M work is being performed in accordance with the BAL Post-Closure Monitoring and Maintenance Operations Manual (O&M Manual), which was prepared in accordance with the 6NYCRR Part 360 regulations and approved by the NYSDEC as the Site Management Plan (SMP) required under 6NYCRR Part 375. The replacement 6NYCRR Part 363 landfill regulations went into effect on November 4, 2017, and the relevant portions have been implemented at the site as discussed in this Report.

The BAL Second Operable Unit (OU2) ROD requires monitoring the chemical characteristics of surface water and sediment in Richmond Creek and sediment quality in the tidal marsh and tributaries adjacent to the BAL during the 5$^{th}$, 10$^{th}$ and 20$^{th}$ years following completion of the OU1 remedy. The baseline round of monitoring for OU2 was performed during the fourth quarter of 2013 once the OU1 remediation had been substantially completed. The 5$^{th}$-year monitoring round was performed during this five-year review period in the third quarter of 2018, and the results were submitted to the NYSDEC in a separate report. The 10$^{th}$-year monitoring round is scheduled to be

performed during the fourth quarter of 2024, and the results of that monitoring will also be submitted to the NYSDEC in a separate report.

The BAL is also subject to the USEPA greenhouse gas reporting rule under the 40 CFR Part 98 Subpart HH regulations. Accordingly, a greenhouse gas monitoring plan for the site was prepared, the required data are collected, and annual greenhouse gas reports are submitted to the USEPA.

# 3. Seventh Post-Closure Year Annual Summary Report

This BAL Annual Post-Closure OM&M Summary Report section has been prepared by DPR to fulfill the reporting requirements contained in the O&M Manual, the OU1 Post-Closure Monitoring, Sampling and Analysis Plan (OU1 Monitoring Plan), and 6NYCRR Parts 360 and 363. This section of the report documents the OM&M activities performed between April 1, 2021, and March 31, 2022. The field and laboratory data related to these OM&M activities, as well as summary tables and figures for the post-closure environmental monitoring sample results, are provided in subsequent subsections.

## 3.1 Leachate Management System

### 3.1.1 System Description

The leachate management system (LMS) is one of the components of the selected remedy in the BAL ROD**.** The leachate collection, pre-treatment and disposal system was designed to control leachate produced via the percolation of rainwater through the waste materials and infiltration of groundwater through waste material and to produce a treated effluent acceptable for discharge to the Eltingville Pumping Station. From there, it is pumped to the Oakwood Beach Water Pollution Control Plant for subsequent treatment.

The primary elements and components of the LMS are the leachate collection trenches located around the periphery of the landfill cells inside their barrier walls, with a total of nine pumps that direct flow to the on-site oil/water separator system before discharge to the on-site Eltingville Pumping Station (see Figure 2). The east and west cells of the landfill have separate leachate collection and pumping systems, which run along their northern boundaries. The leachate trench systems consist of 6-inch-diameter perforated, corrugated polyethylene piping within stone-filled trenches underlying each cell's final cover system. There are approximately 4,000 linear feet of leachate collection trench in the East Cell and 1,800 linear feet in the West Cell.

There are six collection sumps in the East Cell trench and three in the West Cell trench, and leachate flows to them by gravity. Each sump contains two approximately 20-gpm pumps (one operating and one standby). The pumps direct leachate to two 150-gpm oil/water separator units that are designed to reduce the free-oil content of the collected leachate to below the required sanitary sewer discharge limits. The trace amount of condensate in the landfill gas collection system also flows to the oil/water separator. Following oil/water separation, the treated leachate flows by gravity through a Parshall flume metering manhole to the influent manhole of the Eltingville Pumping Station, where it is pumped to the Oakwood Beach Water Pollution Control

Plant for subsequent treatment. Under the current DEP Industrial Wastewater Discharge (IWD) Permit No. 18-P3149-1, the maximum allowed leachate discharge rate is 288,000 gallons per day (gpd). Long-term flows are expected to drop to half this amount. Monthly discharge water quality sampling and quarterly reporting are performed as required under the IWD Permit.

### 3.1.2 System Operation, Maintenance and Monitoring Summary

During this annual reporting period, the leachate management system was operated, monitored, inspected and maintained in accordance with the O&M Manual requirements. The preventative maintenance required on the leachate management system consisted of inspections of the piping, sumps and manholes to ensure the system was operating properly. Periodic inspections of the areas around the sump manholes were conducted to ensure no overflows had occurred and verify that no obstructions were affecting the under-drain pipes where they exited the drainage system. The inspection and maintenance tasks performed during this annual reporting period are summarized on forms submitted to DPR. When necessary, a DP-1 form, "Description of Deficiencies and Problems," is used to highlight specific problems requiring timely attention. The leachate management system inspection and monitoring documentation for this annual reporting period is included in Appendix A. The deficiencies and problems as of March 2022 are included in the following table:

| **BROOKFIELD AVENUE LANDFILL SITE** | |
|---|---|
| **Description of Stormwater System Deficiencies and Problesm – Seventh Post-Closure Year** | |
| **Description** | **Location** |
| **Excess vegetation at outfall** | 2EN, 3EN, 6EN, 7EN, 11EN, 12EN, 1EE, 1ES, 2ES, 8ES, 1EW, 2EW, 4EW, 5EW, 1WN, 2WN, 3WN, 1WE, 2WE, 3WE, 6WE, 2WS, 5WS, 6WS, 1WW, 2WW, 3WW |
| **Damage to outfall structure** | 6EN, 7EN, 6ES, 10ES, 1EW, 2EW, 2WN |
| **Erosion control fabric visible – erosion/washout** | Channel 2-1 and 3-1 |
| **Sediment build-up at outfall structure** | 1EN, 3EN, 4EN, 5EN, 6EN, 7EN, 10EN, 12EN, 13EN, 1EE, 2EE, 3EE, 1ES, 2ES, 7ES, 8ES, 9ES, 1EW, 2EW, 3EW, 1WN, 2WN, 3WN, 2WS, 3WS, 5WS, 1WW, 2WW, 3WW, 4WW, 8WW |
| **Standing water in pipe at outfall structure** | 2WN, 3WN, 1WE, 2WS, 3WS, 8WW |
| **Erosion around outfall pipe** | 4WW |
| **Sediment build-up in pipe** | 1EW, 5EW |

On August 7, 2018, the DEP IWD Permit for the leachate management system discharge was updated to reflect DPR as the Permit's Industrial User. Permit No. 18-P3149-1 is effective August 10, 2018, through August 9, 2023. Monthly leachate sampling and analysis were performed during this annual reporting period as required by the permit. The results indicate that no exceedances of the permitted discharge limits occurred during this annual reporting period. The Quarterly Self-Monitoring Reports were submitted to the DEP Industrial Pre-Treatment & Permit Section by the

due dates. A copy of the Quarterly Self-Monitoring Reports for this annual reporting period, which include the laboratory results, is provided in Appendix B. A copy of the IWD Permit is also included in Appendix B.

During this annual reporting period, all 18 leachate pumps, two per sump, were tested for live electrical load and operation. Measurements of water-level elevation and running pump hours were also taken. As shown in Table 1, the total pump run time for the period was 18,273 hours, with an average run time per pump of 1,015 hours. As shown in Table 2, the total volume of leachate collected and treated during this annual reporting period was 21,125,970 gallons, at an average flow of 57,879 gpd.

The frequency of sump pump maintenance has been adjusted based on the recommendations contained in the WILO Pump O&M Manual (Appendix B of BAL O&M Manual Appendix E, Equipment Manual). Specifically, the WILO Pump O&M Manual recommends maintenance be performed once every 8,000 operating hours or after two years, whichever is sooner. Based on the first three years of post-closure operation, this maintenance is required once every two years (not annually) unless an individual pump run time increases to 8,000 hours before the two-year scheduled maintenance. The biannual maintenance service on all 18 sump pumps was performed during this reporting period on February 7$^{th}$ through 9$^{th}$, 2022. During the biannual maintenance service, seven (7) of the 18 pumps at six (6) of the nine (9) pump stations were found to have issues and were shut off and recommended to be replaced. Pump replacement occurred in October 2022. Results from each pump inspection are described below.

Pump Station LSE1:
The inspection was completed on February 9 and 24, 2022. The station has two Wilo pumps installed; both pumps were tested and drew 3.0 of 4.1 full load amps. On February 9, the lifting cable for pulling the #1 pump was stuck under the pump and PSI was not able to remove the pump. PSI returned on February 24, and a vacuum truck operated by Innovative Recycling Technology (IRT) was used to remove approximately 5,800 gallons of leachate from the sump pit to allow PSI to access LSE1 pump No. 1. Following removal, IRT discharged the water into the oil water separator. PSI removed pump No. 1 and inspected the pump, no wiring or physical issues were identified and PSI reinstalled the pump and pull cables correctly. Pump No. 2 was removed, inspected, and found to be in good condition and reinstalled.

Pump Station LSE2:
The inspection was completed on February 9, 2022. The station has two Wilo pumps installed; both pumps were tested and drew 3.0 and 3.1 of 4.1 full load amps. They were removed and inspected, found to be in good condition and reinstalled.

Pump Station LSE3:
The inspection was completed on February 9, 2022. The station has two Wilo pumps installed. Upon PSI's arrival, the breaker for pump No. 2 was tripped. Pump No. 2 was inspected, and the motor insulation showed a short to the ground, which is why the motor tripped the breaker. On February 24, 2022, PSI returned to the Site and removed No. 2 for further assessment at their facility. The #1 pump had no issues; it was drawing 2.9 of 4.1 full load amps, and it was reinstalled.

Pump Station LSE4:
The inspection was completed on February 7, 2022. The station has two Wilo pumps installed; both pumps were tested and drew 3.2 of 4.1 full load amps. They were removed and inspected with no issues found. Both pumps were reinstalled.

Pump Station LSE5:
The inspection was completed on February 7, 2022. The station has two Wilo pumps installed. The No. 1 pump trips the breaker at startup. The No. 1 pump was inspected, and the motor insulation appears to short to ground, which is why the motor trips the breaker. The No. 1 pump also showed a seal failure. On February 24, 2022, PSI returned to the Site and removed pump No. 1 for further assessment at their facility. The No. 2 pump was removed and inspected, with no issues found. The pump is drawing 3.1 of 4.1 full load amps.

Pump Station LSE6:
The inspection was completed on February 7, 2022. The station has two Wilo pumps installed; both pumps were tested, and drew 3.0 of 4.1 full load amps. They were removed from the well and inspected with no issues found. Both pumps were reinstalled. PSI noted that the level in the station is just below the high-level float.

Pump Station LSW1:
The inspection was completed on February 8, 2022. The station has two Wilo pumps installed. The No. 2 pump was inspected, and the motor insulation shows a short to ground. On February 24, 2022, PSI returned to the Site and removed pump No. 2 for further assessment at their facility. The No. 1 pump was removed and inspected with no issues; it drew 3.1 of 4.1 full load amps. Pump No. 1 was reinstalled.

Pump Station LSW2:
The inspection was completed on February 8, 2022. The station has two Wilo pumps installed, and both of the pumps are showing a seal fail condition at the control panel. Both pumps were removed for inspection, and PSI personnel tried to spin each impeller, and both impellers were rough to turn, which indicated a possible bearing issue. Coupled with the seal failure indication, PSI recommended removing these pumps for a repair estimate. These were tested and drew 3.3 & 3.2 of 4.1 full load amps. On February 24, 2022, PSI returned to the Site to remove pump No. 2; however, upon inspection, PSI determined the electrical cables were sealed in the conduits with spray foam (instead of the correct conduit packing material) and therefore, the electrical lines and pump could not be removed. TRC and PSI are evaluating potential solutions, which may include removing the existing conduit and installing new wiring and conduit.

Pump Station LSW3:
The inspection was completed on February 8, 2022. The station has two Wilo pumps installed. Pump No. 1 showed a seal failure at the control panel and while inspecting the pump, the impeller was rough to spin, indicating a possible bearing issue. On February 24, 2022, PSI returned to the Site and removed pump No. 1 for further assessment at their facility. The No. 2 pump was removed

and inspected with no issue found; the pump was reinstalled. The pumps were drawing 3.2 of 4.1 full load amps. Both pumps were left in the off position.

The oil/water separator and the Parshall flume were visually inspected for flow and clarity. There was no observance or detection of free oil during this annual reporting period. In October 2019, DEP BWT Industrial Inspection and Permitting Section also performed an annual inspection of the oil/water separator and found it satisfactory.

During the reporting period, the current OM&M contractor observed standing stormwater in the vault of the East and West Cell Oil/Water Separator. The stormwater was pumped out, and the oil/water separator will continue to be inspected weekly for accumulated stormwater which will be pumped out if necessary.

DPR added telemetry to the flow meter in May of 2021. The upgrade includes the recording of the hourly flow data, including an instantaneous flow, total daily flow, and cumulative flow total in an excel spreadsheet which may be accessed and downloaded remotely.

DPR is presently evaluating the feasibility of automating system operational data collection for the LMS. Specifically, it is considering adding telemetry to the three West Cell sumps and East Cell sump LSE-6. The addition of telemetry at these sump locations is based on the operational data obtained to date, which indicates that these are the sumps that operate on a more frequent basis to control the LMS water level. Sumps with lower operating frequency (i.e., sumps LSE-1, 2, 4 and 5) would then be monitored on a less frequent basis. Recommendations for modifying the monitoring frequency of sump LSE-3 will be addressed once more data is obtained and evaluated.

## 3.2 Landfill Gas Management System

### 3.2.1 System Description

The site's active landfill gas management system was designed to limit off-site landfill gas migration. Under the 6NYCRR Part 360 regulations in effect at that time, the limits were 1) the lower explosive limit (LEL) at the property line (i.e., 5% gas in air), and 2) 25% of the LEL in structures (i.e., 1.25% gas in air). Under the 6NYCRR Part 363, which went into effect on November 4, 2017, the limit for methane at the property line was lowered to 1.25% gas in air, and the limit for methane in structures remained the same. The landfill gas management system operates in accordance with NYSDEC Air Facility Registration Certificate #2-6403-00207/00005.

The area of the site serviced by the gas collection system, as shown in Figure 3, and includes the entire landfill footprint. During the OU1 remediation, 84 vertical and 16 horizontal gas-collection wells were installed. There are separate gas collection headers for each cell. Both are connected to the Landfill Gas Management Compound (Gas Compound), which is a fenced area (e.g., concrete barrier/fence) located north of the Eltingville Pumping Station within the central corridor between the cells. The Gas Compound is equipped with two variable-frequency drive (VFD) blowers, two knockout pots, valves and controls, and a fully-enclosed landfill gas flare. Each blower can operate over a range of 50 to 500 standard cubic feet per minute (scfm). Under normal operations,

operating one blower provides sufficient capacity for both cells' collection systems. The second blower serves as a backup to maintain system operation during blower maintenance or repair. The blowers are configured in parallel and discharge via a common header to the landfill gas flare. This parallel configuration allows for flexibility in the operation of the landfill gas management system and over time, has proven to be the most effective mode of operation. The flare is five feet in diameter and 25 feet in height and provides complete thermal destruction of methane and other landfill gas trace compounds while operating at a capacity of 50-500 scfm. The flare contains a flame detector and thermocouple(s) mounted in close proximity to the combustion zone to provide confirmation of combustion. In the event the flare flame is out due to high wind, low combustible concentrations, or other events, the flare will automatically attempt to relight. If a relight is not accomplished, the system will automatically shut down.

### 3.2.2 System Operation, Maintenance and Monitoring Summary

During this annual reporting period, the components of the landfill gas management system, including the gas collection system, condensate system, enclosed flare system, electrical systems, fire alarm systems, below and above ground piping, and valves were operated, monitored, inspected and maintained in accordance with the O&M Manual requirements. The system has been in service since its startup on May 9, 2013.

Initially, the landfill gas flare was only operated when the OM&M contractor was onsite (i.e., 8 hours/day on non-holiday weekdays) due to restrictions set by the Fire Department of New York (FDNY). However, on November 2, 2016, FDNY issued a permit authorization to operate the flare continuously (24 hours/day, 7 days/week). The system has been operating on a continuous schedule since that time. To date, a total of 33,258 blower operating hours have been recorded.

During this annual reporting period, the flare occasionally shut down automatically due to low flame temperature and insufficient available methane conditions. On each occasion, the percentage of methane available was below the 25% minimum required for proper flare operation.

No Emergency Shutdown (ESD) testing was performed during this reporting period per the flare's permit requirements. FDNY conducted testing on October 6, 2021, on mechanical, electrical and system control features (combustible gas sensors, fire alarm, pull box, and ESD button) were found to be operable and satisfactory. The next annual ESD test will be performed in September 2022.

During the reporting period, telemetry was added to the flare system allowing remote access to the flare panel and remote re-start of the flare.

During this annual reporting period, the landfill gas flaring system processed 49,325,677 SCF of landfill gas, with an average methane concentration of 29.4%. The flare operated for 4,865 hours. The monthly operating data for this annual reporting period are summarized in the table below:

| BROOKFIELD AVENUE LANDFILL SITE | | | |
|---|---|---|---|
| **Monthly Flare Operation – Seventh Post-Closure Year** | | | |
| **Month** | **$CH_4$ (% by Volume)** | **Time in Service (Hours)** | **Flow (SCF)** |
| **21-Apr** | 31.9 | 375 | 4,567,705 |
| **21-May** | 24.7 | 379 | 4,309,072 |
| **21-Jun** | 36.6 | 393 | 5,116,860 |
| **22-Jul** | 32.7 | 436 | 5,383,728 |
| **21-Aug** | 32.6 | 468 | 6,067,851 |
| **21-Sep** | 34.8 | 445 | 5,424,903 |
| **21-Oct** | 32.5 | 463 | 5,825,210 |
| **21-Nov** | 23.2 | 412 | 3,717,221 |
| **21-Dec** | 28.7 | 301 | 2,042,651 |
| **22-Jan** | 29.3 | 236 | 2,086,420 |
| **22-Feb** | 25.2 | 138 | 739,823 |
| **22-Mar** | 20.9 | 445 | 4,044,233 |
| **Monthly Average** | **29.4** | **374** | **4,110,473** |
| **Totals** | **NA** | **4,865** | **49,325,677** |

Landfill gas extraction wells were also monitored for gas content (percent $CH_4$, $CO_2$ and $O_2$) as well as temperature and vacuum pressure on a monthly basis during the annual reporting period. Accumulated stormwater was also removed from the well vaults, and accumulated condensate was removed from drains as needed. Gas wells were also monitored for damage and parts fatigue, and repairs (e.g., installing new Fernco fittings, etc.) were performed as required.

During winter months, de-icing of filters and valves were often necessary to remove condensation that had frozen during offline periods. The landfill gas management system inspection and monitoring documentation for this annual reporting period are provided in Appendix C.

## 3.3 Final Cover System

### 3.3.1 System Description

The final cover system prevents the infiltration of stormwater into the landfill and the migration of landfill gas into the atmosphere. The OU1 ROD stipulated the construction of a 6NYCRR Part 360 landfill cap. The final cover system is comprised of a vegetated topsoil layer with a minimum thickness of 6 inches; a minimum 12-inch-thick barrier protection layer; a geocomposite drainage layer; a 40-mil-thick textured LLDPE (linear low-density polyethylene) geomembrane liner; and a geocomposite gas-collection layer over 12 inches of intermediate cover material. The surface of the final cover system also incorporates tree planting islands, several small constructed wetlands, walking trails, and observation areas. The final cover system components are detailed in Figure 4.

The O&M Manual requires the final cover system to be inspected on a quarterly basis, and after storm events equal to or greater than a 5-year storm. As shown in Figure 4, this system is divided into seven zones for inspection. It is inspected for surface cracks, vegetative growth, vector penetration, settlement, erosion, slope stability, seepage and vandalism. The inspection is performed by walking up and down the side-slopes and across each zone several times. Records of each final cover system inspection are summarized on an Inspection Checklist Form FCS-1 in accordance with the requirements of the O&M Manual. A Deficiency and Problems Form DP-1 is completed to summarize the items marked not satisfactory (NS) on the Inspection Checklist Forms.

#### 3.3.2 System Inspection and Maintenance Summary

During this annual reporting period, the vegetative portions of the cover system overall did not demonstrate any significant concerns. The final cover system inspection documentation for this annual reporting period is included in Appendix D.

## 3.4 Stormwater Management System

#### 3.4.1 System Description

The stormwater management system is an integral part of the capping and closure system required under the 6NYCRR Part 360 regulations to protect the landfill final cover system. The system was designed to collect, transport and discharge stormwater from the landfill to the wetland planting areas and Richmond Creek. The system reduces overall stormwater runoff rates and improves the quality of stormwater discharging to Richmond Creek. Stormwater must be conveyed freely from the landfill's vegetated cover and paved surfaces to drainage swales, detention basins, etc.

The stormwater management system consists of various components, shown in Figure 5, which require monitoring, inspection, and periodic maintenance. The system is divided into three subsystems (SWM-1, SWM-2 and SWM-3) for inspection and reporting:

- SWM-1: Geocomposite drainage flaps and stormwater drainage channels,
- SWM-2: Outlets, culverts, rip-rap inlet and outlet protection and revetment area, rock buttress areas, and
- SWM-3: Corrugated Plastic Pipe (CPP) downdrain pipes, pipe trenches, and energy dissipation structures.

These components are kept free of obstructions to ensure conveyance through the stormwater system as designed. The stormwater management system's maintenance includes removing accumulated sediment or obstructions, as needed. The O&M Manual requires that the stormwater management system be inspected on a monthly basis, and following major rainfall events (5-year storm or greater). A record of each inspection is summarized on Monthly Inspection Checklist Forms SWM-1, SWM-2, and SWM-3 in accordance with the O&M Manual. A Deficiency and Problems Form DP-1 is completed to summarize the items marked not satisfactory (NS) on the Monthly Inspection Checklist Forms.

### 3.4.2 System Inspection and Maintenance Summary

During this reporting period, the stormwater management system was inspected in accordance with the O&M Manual requirements. Asphalt in Zones 1 and 4A was observed to be distressed (i.e., cracking). The deficiencies identified during this annual reporting period did not affect the overall performance of this system. Areas of vegetation at outfall structures, debris at outfall structures, damaged outfall structures, and exposed erosion control fabric were identified during this reporting period.

Deficiencies identified during this reporting period do not necessarily affect the efficient performance of this system. When debris, sediment, or obstructions were encountered during inspections, they were immediately removed to ensure efficient stormwater flow. All structures and piping, including swales and culverts, were checked for efficient flow and competence. During this period, cleanout activities were performed at all stormwater outfall structures to remove accumulated debris and vegetation. Riprap was renewed as necessary. Generally, after every storm period, inspections are performed and issues are resolved.

The stormwater management system inspection documentation for this annual reporting period is provided in Appendix E.

## 3.5 Ancillary Systems

### 3.5.1 System Description

The ancillary systems are those support systems at the BAL that are used for site access and security. The ancillary systems consist of access roads, fences, signage, gates and locks. The main components of these systems are shown on Figure 4. The roadways are integral in providing access to perform required inspection, monitoring and maintenance activities. The security fences and gates prevent site access to unauthorized individuals.

The O&M Manual requires inspection of the roadways on a monthly basis and after 5-year storm events. The remaining ancillary systems (i.e., fences, gates, locks and signs) are to be inspected weekly. A record of each inspection is summarized on the Monthly Inspection Checklist Form ANS-1 in accordance with the requirements of the O&M Manual. A Deficiency and Problems Form DP-1 is completed to summarize items marked not satisfactory (NS) on an Inspection Checklist Form.

### 3.5.2 System Inspection and Maintenance Summary

Locks, gates, site identification signs and lamp bulbs are currently functional. Winter storm conditions required snow and ice removal. Other activities included the removal of outdated project signs, vehicle maintenance, weed removal around the gas wellheads, and repairs to the site trailers (flashing and siding). Any deficiencies identified during this annual reporting period and the change in personnel performing the inspections during the last quarter did not affect the overall performance of this system. Also, during this reporting period, the inspection and annual

certification of the site fire extinguishers located inside the office trailers and in the Flare Compound Area were performed. The ancillary system inspection documentation for this annual reporting period is provided in Appendix F.

## 3.6 Post-Closure Environmental Monitoring

The OU1 Monitoring Plan went into effect in April 2015 when the NYSDEC approved the OU1 FER. The OU1 Monitoring Plan addresses the performance evaluation of the effectiveness of the OU1 remedy, and includes requirements for monitoring groundwater, leachate and landfill gas at the site. The monitoring results for the leachate and landfill gas management systems were discussed in Sections 3.1 and 3.2 of this Report, respectively. This section discusses the perimeter gas monitoring, landfill surface emissions monitoring and ground-water monitoring performed during this annual reporting period. It should be noted that while landfill surface emissions monitoring is not required at the BAL site by any regulation, the O&M Manual encouraged that it be performed due to the site's recreational end use.

### 3.6.1 Perimeter Gas Monitoring Program

In addition to the active landfill gas collection and flaring discussed in Section 3.2, a total of 32 gas-monitoring wells were installed as part of the OU1 construction. Some of these wells were installed in the site's interior, between the two cells along the perimeter of each cell. The remaining wells were installed along the site property boundaries along Arthur Kill Road, Richmond Avenue, and the site's eastern boundary, as shown in Figure 3. The objective of the gas monitoring program is to determine the presence and extent of subsurface landfill gas (i.e., methane) migration. This monitoring is performed quarterly.

As initially discussed in Section 3.2.1, the previous 6NYCRR 360-2.17 (f) regulation was in effect until November 3, 2017, and required that subsurface combustible gas levels not exceed the lower explosive limit (LEL, i.e., 5% gas in air) at or beyond the site property boundary, or 25 percent of the LEL (i.e., 1.25% gas in air) inside structures, excluding landfill gas control/recovery system components. However, on November 4, 2017, the new 6NYCRR Part 363-7.1(e)(2) regulations went into effect, which requires that subsurface combustible gas levels not exceed 25% of the LEL (i.e., 1.25% gas in air) at or beyond the site property boundary. Building limits were unchanged.

Monitoring was performed for methane ($CH_4$), $CO_2$ and $O_2$ using a GEM 5000 Multi-Gas Monitor. The results are summarized in Table 3 and indicate that $CH_4$ concentrations in 27 of the 32 gas monitoring wells were below the 6NYCRR Part 363 action level during all four quarterly monitoring rounds. Exceedances of methane were noted in LFG-E-18, LFG-E-19, LFG-W-1, LFG-W-11, LFG-W-12, LFG-E-18, LFG-W-11 and LFG-W-12 had methane exceedances during all four quarterly monitoring rounds; LFG-E-19 had methane exceedances in the third quarter of 2021, fourth quarter of 2021, and first quarter of 2022; and LFG-W-1 had a methane exceedance in the third quarter of 2021. Although bar hole punches were not able to be performed at well LFG-W-11 because of the well location, a bar hole punch was performed in three locations in the vicinity of wells LFG-E-18, LFG-E-19, LFG-W-1, and LFG-W-12 which indicated $CH_4$ readings of 0%. The valves on the landfill gas management system extraction wells closest to this area are fully

open, and both landfill cells are surrounded by a 25 to 40-foot deep slurry wall. The existence of methane at these locations may be attributed to the naturally-occurring meadow mat soils present at depth in this area, as reported in the Final Remedial Investigation Report. Methane levels encountered at the wells in this vicinity will be tracked during the post-closure period, and appropriate measures will be taken if necessary.

The only permanent building on site is the Eltingville Pumping Station. DEP is responsible for the operation of this pumping station. Combustible gas levels within this building have been monitored by DEP operational personnel, and to date, no concentrations in excess of 25% of the LEL have been reported. In order to document these findings in the Post-Closure OM&M Reports, gas monitoring within the building has been incorporated into the Quarterly Perimeter Gas Monitoring Program. Gas monitoring is performed utilizing an Industrial Scientific Ventis MX-4 portable gas meter. As shown in Table 4, combustible gas was not detected in any of the building areas monitored throughout this annual reporting period. The results of this monitoring are included in Appendix C.

### 3.6.2 Surface Emissions Monitoring Program

While the BAL does not meet the criteria for landfill surface emissions monitoring stipulated under 6NYCRR Part 208, this monitoring was included in the O&M Manual due to the site's recreational end use. Surface emissions monitoring is performed semi-annually to ensure that the gas collection and final cover systems are limiting fugitive methane emissions to less than 500 parts per million (ppm) above the background at the landfill's surface (6NYCRR 208.4).

The semi-annual landfill surface emissions monitoring for this annual reporting period was performed in October 2021. On the landfill surface, 477 points were monitored for emissions of volatile organic compounds (VOCs), such as methane, using a flame ionization detector. The results did not indicate the presence of methane emissions more than 500 ppm above background. These results, as well as a plan showing the locations monitored, are included in Appendix G.

### 3.6.3 Ground Water-Monitoring Program

The first round of post-closure groundwater monitoring at the BAL was conducted during the second quarter of 2015. Although the OU1 Monitoring Plan originally called for quarterly monitoring, a reduction to annual monitoring in rotating calendar quarters (i.e., once every fifth quarter) was approved by the NYSDEC in September 2015.

Based on the revised schedule, post-closure ground water-monitoring rounds have been performed during the second quarter of 2015, the third quarter of 2016, the fourth quarter of 2017, the first quarter of 2019, and the second quarter of 2020; and in this reporting period during the third quarter of 2021. The next post-closure groundwater monitoring event will occur in the fourth quarter of 2022.

The third quarter 2021 monitoring round was performed from September 10$^{th}$ through 16$^{th}$, 2021. A total of 23 groundwater samples, two (2) duplicate samples, two (2) MS/MSD samples, four (4)

trip blank samples, and two (2) field blank samples were collected from existing monitoring wells as part of the sampling event. One monitoring well (LTMW-20) was inaccessible during the sampling event, due to overgrown vegetation. The 23 existing monitoring wells were gauged with an oil/water interface probe to determine the depth-to-water prior to purging/sampling activities. Subsequent to recording the depth to water at the monitoring wells, the monitoring wells were purged using dedicated disposable Teflon-lined polyethylene tubing and either a bladder pump for deeper wells or a peristaltic pump for shallower wells. The monitoring wells were purged via low flow/low stress method following the USEPA standard operating procedures. The depth of the pump intake was placed within the screen intervals and at least 2 feet above the bottom of the screen. Water quality parameters were measured and recorded using a Horiba U-52 Water Quality Meter every five minutes.

The third quarter 2021 groundwater samples were analyzed for the following compounds:

- Target Compound List (TCL) Semi-volatile Organic Compounds (SVOCs) via USEPA Method 8270;
- TCL Volatile Organic Compounds (VOCs) via USEPA Method 8260;
- Target Analyte List (TAL) Metals via USEPA Methods 6010/6020;
- TCL Pesticides via USEPA Method 8081;
- TCL Polychlorinated Biphenyls (PCBs) via USEPA Method 8082;
- Cyanide via USEPA Method 9012;
- Nitrate, Sulfate, Chloride, and Bromide via USEPA Method 300;
- Ammonia via Standard Method 4500;
- Total Organic Carbon via Standard Method 5310;
- Total Dissolved Solids via Standard Method 2540;
- Alkalinity via Standard Method 2320; and,
- Total Hardness via Standard Method 2340.

No target VOCs were detected at concentrations above the Class GA Standard in any of the monitoring wells. Similarly, no target semivolatile organic compounds (SVOCs) were detected at concentrations above the Class GA Standards. Six (6) metals (aluminum, barium, iron, magnesium, manganese and sodium) were detected at concentrations above the Class GA Standard in twenty-one (21) monitoring wells. Polychlorinated biphenyls (PCBs) were not detected. Pesticides were also not detected. Ammonia (2 monitoring wells), bromide (7 monitoring wells), chloride (9 monitoring wells), and sulfate (2 monitoring wells) were detected at concentrations above the Class GA Standard. Cyanide and nitrate were not detected at concentrations above the Class GA Standard.

Sulfate (LTMW-2 and LTMW-3), ammonia (LTMW-1 and LTMW-19), and barium (LTMW-1 and LTMW-4) were detected mainly in downgradient monitoring wells and their presence may be related to the landfill operation.

Bromide, chloride and metals, with the exception for barium, detected in groundwater samples at concentrations greater than the Class GA Standards, are naturally occurring compounds and their elevated presence may be a result of saltwater intrusion from the nearby wetland areas. A contributing source of manganese and iron in groundwater could also be associated with anaerobic

conditions generated by the decomposition of organic materials commonly found along low-lying marshland.

Groundwater within the West Cell flows towards the wetland to the Site's northern portion. In contrast, groundwater within the East Cell, in addition to flowing towards the wetland to the northern portion of the Site, flows radially to the western portion of the Site.

The laboratory analysis results are presented in Appendix H in Tables 1 through 6 and the depth-to-water measurements recorded on September 10, 2021, are provided in Table 7. Groundwater flow maps for the upper glacial and cretaceous aquifers, based on the third quarter 2021 data, are also provided in Figures 7 and 8. The low-flow sampling field data sheets, laboratory analytical results, and data usability summary reports are also provided in Appendix H

# 4. Conclusions and Recommendations

Based on the results of the post-closure activities performed during the Site's first five-year review period, the BAL engineering and institutional controls are in place, performing as intended and remain effective. The BAL remedy continues to be protective of public health and the environment and is compliant with the BAL OU1 and OU2 RODs. The activities associated with the O&M Manual and the OU1 Monitoring Plan are being implemented. Routine system maintenance and repair of each of the remediation systems should continue in compliance with the requirements of the O&M Manual.

Specific conclusions and recommendations for each of the remediation systems are identified in the following paragraphs.

## 4.1 Leachate Management System

The leachate management system continued to be operational and prevented off-site leachate migration during this review period. The Monthly M-1 sample results continue to meet the required IWD permit discharge limits.

In general, it is recommended that the pump stations and related equipment continue to be operated, inspected and maintained in accordance with the O&M Manual and that the discharge continue to be monitored monthly per IWD permit requirements. If deficiencies are noted, they should be repaired and/or replaced in a timely manner to minimize system downtime. In addition, the recommended corrective actions listed in Form DP-1, Leachate Management System, Description of Deficiencies and Problems, in Appendix A, of the Quarterly and Annual Reports, should be implemented. TRC is coordinating with PSI Process, Inc. to perform the repairs. Leachate pump repairs are anticipated to be performed during the third quarter of 2022.

As discussed in Section 3.1.2, DPR is considering adding telemetry to the flow meter at the discharge manhole as well as all three West Cell sumps and East Cell sump LSE-6. Once this telemetry is installed and more frequent operational data is analyzed, a recommendation may be made regarding a potential reduction in the frequency of on-site data collection from weekly to

monthly at many of the sumps in the East Cell, whose pumps operate infrequently since the water level at those locations appear to be at a steady state condition. Installation of telemetry at the four sumps proposed to automatically notify DPR of operating parameters and conditions would also be advantageous in system operation, evaluation and troubleshooting.

## 4.2 Landfill Gas Management System

After FDNY approval was obtained on October 31, 2016, and the annual permit issued on November 2, 2016, the landfill gas management system became operational 24 hours per day, seven days per week. During this review period, the system experienced downtime due to shut-downs for routine inspection, calibration, maintenance, repair and/or replacement of equipment, controlled shut-downs to protect equipment from anticipated severe weather conditions, flame failures caused by poor LFG quality, low flow faults attributed to condensate blockage, system evaluations by the manufacturer's representative, FDNY inspections, and occasional power failures associated with poor weather. Monitoring performed during this review period confirmed that the system is preventing off-site gas migration.

As the landfill ages, the methane quality and quantity generated by the landfill will continue to decline. The landfill gas management system performance should continue to be monitored in accordance with the O&M Manual requirements to determine if adjustments and/or modifications to the system are necessary to maximize landfill gas quality and quantity. In addition, the recommended corrective actions listed in Form DP-1, Landfill Gas Management System, Description of Deficiencies and Problems, in Appendix C, of the Quarterly and Annual Reports, should be implemented as deemed appropriate.

Elevated methane concentrations when detected at a gas monitoring well will be delineated horizontally using bar hole punches, where possible.

## 4.3 Final Cover System

Overall, the landfill final cover system continues to be protective of the landfill cap beneath it during the Site's review period. Conditions found were typical of those encountered during the landfill post-closure period, with only a few deficiencies occasionally noted.

In general, it is recommended that routine maintenance continue to be performed to prevent problem areas from expanding and worsening. This would include filling ruts caused by erosion, reseeding areas where necessary and maintaining landfill surface slope to promote stormwater runoff. In addition, the recommended corrective actions listed in Form DP-1, FCS-1, Description of Deficiencies and Problems, in Appendix D, of the Quarterly and Annual Reports, should be implemented.

## 4.4 Stormwater Management System

The stormwater management system continued to convey stormwater runoff to its outfall locations during the Site's review period. Conditions found were typical of those encountered during the landfill post-closure period, with a few deficiencies occasionally noted.

In general, it is recommended that silt and vegetation in drainage swales continue to be periodically removed and sediment be removed from other portions of the drainage system. Specifically, the recommended corrective actions listed in Form DP-1, SWM-1, SWM-2 SWM-3, Description of Deficiencies and Problems, in Appendix E, of the Quarterly and Annual Reports should be implemented as deemed appropriate.

## 4.5 Ancillary Systems

The roads and walking trails of the ancillary systems continued to provide access throughout the Site, while the fencing and gates continued to allow for controlled Site access during the Site's first review period. Conditions found were typical of those encountered during the landfill post-closure period, with a few deficiencies occasionally noted.

Once the site was opened to the public as Brookfield Park and DRP took over responsibility for BAL in 2018, DPR has had full-time staff located in an office on-site and certain responsibilities for the Ancillary Systems were taken over by DPR M&O and Parks Enforcement Patrol (PEP) personnel. These include maintenance of roads, walking trails, fencing, gates, guide rails, park signs, etc.

In general, it is recommended that routine maintenance continue to be performed to prevent problem areas from expanding and worsening. This would include repairing cracks in paved roadways, filling ruts and depressions in stone walking trails, and repairing site fencing guide rails and gates when necessary. While the cracks previously repaired in the paved roadway in the East Cell have not recurred at this time, it is recommended that this area should continue to be monitored in the future. In addition, the recommended corrective actions listed in Form DP-1, ANS-1, Description of Deficiencies and Problems, in Appendix F, of the Quarterly and Annual Reports, should be implemented.

## 4.6 Post-Closure Environmental Monitoring

The overall conclusion/recommendation for this five-year review period is that environmental monitoring in accordance with the OU1 Monitoring Plan, as modified and described in Section 5.6.3 below and approved by the NYSDEC, should continue to be performed. The specific conclusions and recommendations for each element of the Post-Closure Environmental Monitoring Program are provided below.

### 4.6.1 Perimeter Gas Monitoring Program

Gas monitoring was performed quarterly during this review period at the 32 perimeter gas wells in accordance with the O&M Manual, the OU1 Monitoring Plan and 6NYCRR Part 360 and Part 363 requirements. Exceedances of the 6NYCRR Part 360/363 action levels were encountered at

only three of the 32 perimeter wells during this period. However, the action level is for conditions at the property boundary, which is not pertinent to these wells. In addition, the methane in these wells may be attributed to the naturally occurring meadow mat soils present at depth in this area of the site identified during the Remedial Investigation. It is recommended that Methane levels at these wells are tracked during the post-closure period and appropriate measures will be taken if necessary. All of the perimeter gas monitoring wells located along the property boundary have had methane levels less than the regulatory action levels since 2016.

To date, there have been no detections of methane in the Eltingville Pumping Station above 25% of the LEL. In order to document these findings in the Post-Closure OM&M Reports, gas monitoring within the building has been incorporated into the Quarterly Perimeter Gas Monitoring Program.

Taken as a whole, the perimeter gas monitoring performed during this review period indicates that there is no evidence of off-site gas migration. It is recommended that prior to performing gas monitoring at each perimeter well, the well be allowed to properly vent/purge after the cap is removed to ensure that the readings are representative of soil conditions in the well screen zone and not due to the accumulation of trace amounts of gas in the well casing. It is further recommended that a bar-hole survey be performed between any perimeter well exhibiting an exceedance of the 6NYCRR Part 363 action level and the adjacent property boundary to identify conditions closer to the property line.

Gas monitoring performed during this review period indicates that the BAL landfill gas management system is meeting the requirements of 6NYCRR Part 363-7.1(e)(2) to limit combustible gas levels to less than 25% of the LEL at or beyond the property boundary or in any structure on or off the site, excluding the gas control/recovery system components.

### 4.6.2 Surface Emissions Monitoring Program

The semi-annual landfill surface emissions monitoring rounds performed during this review period indicated that methane concentrations were lower than 500 parts per million (ppm) above background. Therefore, although the BAL site does not meet the applicability criteria for landfill surface emissions monitoring stipulated under 6NYCRR Part 208, the landfill surface emissions monitoring performed during this review period continues to document that the landfill cover and gas management systems are meeting the surface emissions requirements of 6NYCRR 208.4.

### 4.6.3 Ground Water Monitoring Program

The third quarter 2021 groundwater monitoring round was performed from September 10 through 16, 2021. Samples were collected from a total of 23 existing groundwater monitoring wells as part of the sampling event. The laboratory analysis results are presented in Appendix H in Tables 1 through 6. The depth-to-water measurements recorded on September 10, 2021, are provided in Table 7. Target VOCs were not detected in groundwater at levels exceeding Class GA standards. Similarly, target SVOCs were not detected in groundwater at levels exceeding Class GA standards. Certain metals and leachate indicator parameters were detected in groundwater at concentrations

above Class GA standards, but the number of exceedances is limited and most are due to the naturally-saline groundwater at the Site.

FIGURES

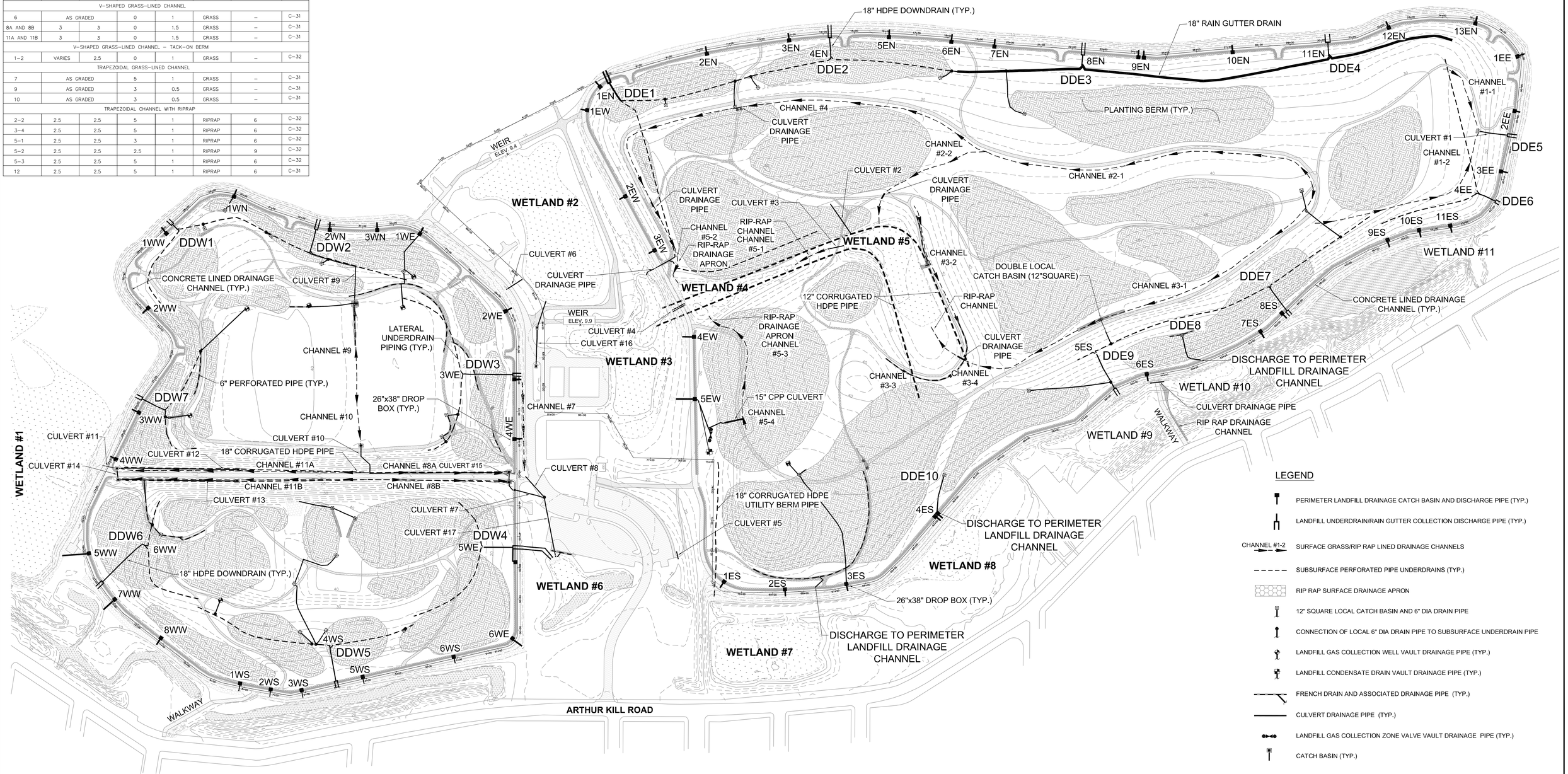
| CHANNEL ID | CHANNEL DIMENSIONS (FEET) | | | | CHANNEL LINING | | SHEET LOCATION |
|---|---|---|---|---|---|---|---|
| | SIDE SLOPES | | BOTTOM WIDTH | DEPTH | MATERIAL | RIPRAP THICKNESS $d_{50}$ (INCHES) | |
| | LB | RB | BW | D | | T | |
| V-SHAPED GRASS-LINED CHANNEL - RAISED ROAD/PATH | | | | | | | |
| 1-1 | 2.5 | VARIES | 0 | 1 | GRASS | – | C-32 |
| 2-1 | 2.5 | VARIES | 0 | 1.5 | GRASS | – | C-32 |
| 3-1 | 2.5 | VARIES | 0 | 2 | GRASS | – | C-32 |
| 3-2 | VARIES | 2.5 | 0 | 1 | GRASS | – | C-32 |
| 3-3 | 2.5 | VARIES | 0 | 1 | GRASS | – | C-32 |
| 4 | VARIES | 2.5 | 0 | 1.5 | GRASS | – | C-32 |
| 5-4 | 2.5 | VARIES | 0 | 1 | GRASS | – | C-32 |
| V-SHAPED GRASS-LINED CHANNEL | | | | | | | |
| 6 | AS GRADED | | 0 | 1 | GRASS | – | C-31 |
| 8A AND 8B | 3 | 3 | 0 | 1.5 | GRASS | – | C-31 |
| 11A AND 11B | 3 | 3 | 0 | 1.5 | GRASS | – | C-31 |
| V-SHAPED GRASS-LINED CHANNEL - TACK-ON BERM | | | | | | | |
| 1-2 | VARIES | 2.5 | 0 | 1 | GRASS | – | C-32 |
| TRAPEZOIDAL GRASS-LINED CHANNEL | | | | | | | |
| 7 | AS GRADED | | 5 | 1 | GRASS | – | C-31 |
| 9 | AS GRADED | | 3 | 0.5 | GRASS | – | C-31 |
| 10 | AS GRADED | | 3 | 0.5 | GRASS | – | C-31 |
| TRAPEZOIDAL CHANNEL WITH RIPRAP | | | | | | | |
| 2-2 | 2.5 | 2.5 | 5 | 1 | RIPRAP | 6 | C-32 |
| 3-4 | 2.5 | 2.5 | 5 | 1 | RIPRAP | 6 | C-32 |
| 5-1 | 2.5 | 2.5 | 3 | 1 | RIPRAP | 6 | C-32 |
| 5-2 | 2.5 | 2.5 | 2.5 | 1 | RIPRAP | 9 | C-32 |
| 5-3 | 2.5 | 2.5 | 5 | 1 | RIPRAP | 6 | C-32 |
| 12 | 2.5 | 2.5 | 5 | 1 | RIPRAP | 6 | C-31 |

## NOTES:

1. Horizontal and Vertical Datum is a project specific datum, referenced from "Topographical Survey of the Brookfield Avenue Landfill, situated on Staten Island in the Borough of Richmond, County of Richmond, City of New York, State of New York" dated June 4, 2003 prepared by Chas. H. Sells, Inc. To convert to NAD 83 and NGVD 1929 see RFI #7 and #31.
2. Coordinates and elevations are shown in U.S. Survey Feet.

## REFERENCES:

"Contract No. LF-BAL-1G, Stormwater Drainage Plan" dated April 2007, last revised 11/14/11 and prepared by Camp Dresser & McKee.




## LEGEND

- PERIMETER LANDFILL DRAINAGE CATCH BASIN AND DISCHARGE PIPE (TYP.)
- LANDFILL UNDERDRAIN/RAIN GUTTER COLLECTION DISCHARGE PIPE (TYP.)
- CHANNEL #1-2 — SURFACE GRASS/RIP RAP LINED DRAINAGE CHANNELS
- SUBSURFACE PERFORATED PIPE UNDERDRAINS (TYP.)
- RIP RAP SURFACE DRAINAGE APRON
- 12" SQUARE LOCAL CATCH BASIN AND 6" DIA DRAIN PIPE
- CONNECTION OF LOCAL 6" DIA DRAIN PIPE TO SUBSURFACE UNDERDRAIN PIPE
- LANDFILL GAS COLLECTION WELL VAULT DRAINAGE PIPE (TYP.)
- LANDFILL CONDENSATE DRAIN VAULT DRAINAGE PIPE (TYP.)
- FRENCH DRAIN AND ASSOCIATED DRAINAGE PIPE (TYP.)
- CULVERT DRAINAGE PIPE (TYP.)
- LANDFILL GAS COLLECTION ZONE VALVE VAULT DRAINAGE PIPE (TYP.)
- CATCH BASIN (TYP.)

| | | | |
|---|---|---|---|
| DDW | WEST CELL DOWNDRAIN | WN | WEST CELL NORTH OUTLETS |
| DDE | EAST CELL DOWNDRAIN | WE | WEST CELL EAST OUTLETS |
| | | WS | WEST CELL SOUTH OUTLETS |
| | | WW | WEST CELL WEST OUTLETS |
| | | EN | EAST CELL NORTH OUTLETS |
| | | EW | EAST CELL WEST OUTLETS |
| | | ES | EAST CELL SOUTH OUTLETS |
| | | EE | EAST CELL EAST OUTLETS |

0 75 150 300 450
( IN FEET )
1 inch = 150 ft.

CONTRACT NO. 1359-BRK

STORMWATER MANAGEMENT SYSTEM PLAN

BROOKFIELD AVENUE LANDFILL

Prepared For:
CITY OF NEW YORK CITY
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BROOKFIELD CONSTRUCTION ASSOCIATES, LLC
136 CENTRAL AVENUE
CLARK, NJ 07066


Layeux Inc.
PROFESSIONAL LAND SURVEYORS
CONSTRUCTION SURVEYING SPECIALISTS
GPS CONSULTANTS
1 Entin Road, Unit 8
Clifton, N.J. 07014
Ph: 973-249-0900 Fax: 973-249-0988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| Scale: | N.T.S |
| Date: | 08-18-14 |
| Proj. No.: | 2857 |
| | Figure 5 |


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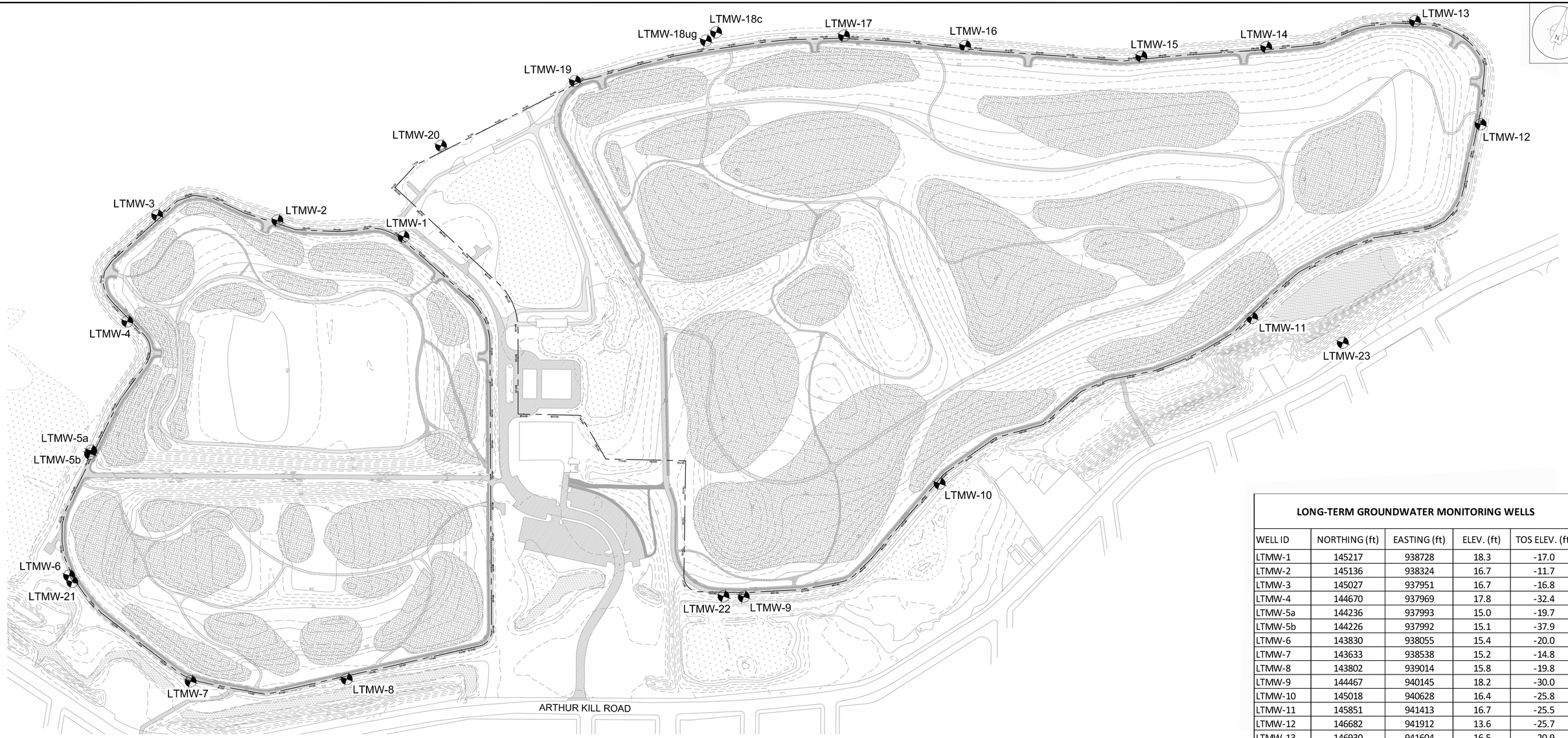
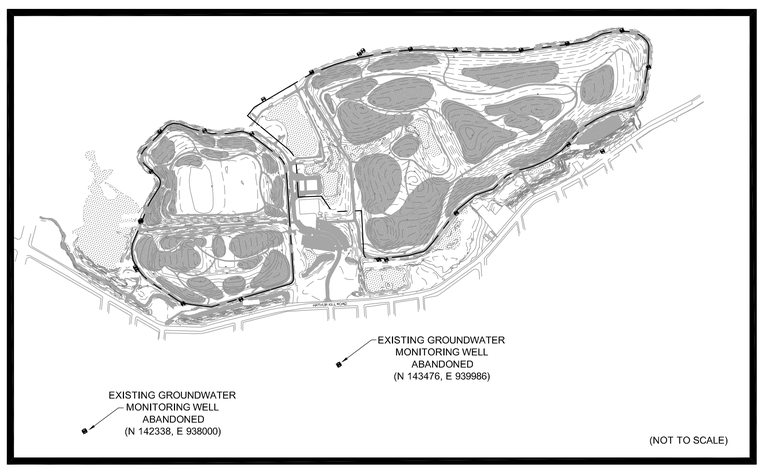



## REFERENCES:

"Contract No. LF–BAL–1G, Long–Term Groundwater Monitoring Plan, Monitoring Well Locations" dated April 2007, last revised 10/12/12 and prepared by Camp Dresser & McKee.

## NOTES:

1. Horizontal and Vertical Datum is a project specific datum, referenced from "Topographical Survey of the Brookfield Avenue Landfill, situated on Staten Island in the Borough of Richmond, County of Richmond, City of New York, State of New York" dated June 4, 2003 prepared by Chas. H. Sells, Inc. To convert to NAD 83 and NGVD 1929 see RFI #7 and #31.
2. Coordinates and elevations are shown in U.S. Survey Feet.

## LEGEND

LTMW-8 — LONG-TERM GROUNDWATER MONITORING WELL

—40.00— CENTERLINE OF BARRIER WALL

20 AS-BUILT FINAL GRADE

0 75 150 300 450
( IN FEET )
1 inch = 150 ft.

**LONG-TERM GROUNDWATER MONITORING WELLS**

| WELL ID | NORTHING (ft) | EASTING (ft) | ELEV. (ft) | TOS ELEV. (ft) |
|---|---|---|---|---|
| LTMW-1 | 145217 | 938728 | 18.3 | -17.0 |
| LTMW-2 | 145136 | 938324 | 16.7 | -11.7 |
| LTMW-3 | 145027 | 937951 | 16.7 | -16.8 |
| LTMW-4 | 144670 | 937969 | 17.8 | -32.4 |
| LTMW-5a | 144236 | 937993 | 15.0 | -19.7 |
| LTMW-5b | 144226 | 937992 | 15.1 | -37.9 |
| LTMW-6 | 143830 | 938055 | 15.4 | -20.0 |
| LTMW-7 | 143633 | 938538 | 15.2 | -14.8 |
| LTMW-8 | 143802 | 939014 | 15.8 | -19.8 |
| LTMW-9 | 144467 | 940145 | 18.2 | -30.0 |
| LTMW-10 | 145018 | 940628 | 16.4 | -25.8 |
| LTMW-11 | 145851 | 941413 | 16.7 | -25.5 |
| LTMW-12 | 146682 | 941912 | 13.6 | -25.7 |
| LTMW-13 | 146930 | 941604 | 16.5 | -20.9 |
| LTMW-14 | 146696 | 941175 | 18.2 | -25.3 |
| LTMW-15 | 146537 | 940802 | 17.3 | -20.2 |
| LTMW-16 | 146386 | 940251 | 16.5 | -22.1 |
| LTMW-17 | 146292 | 939869 | 14.2 | -18.2 |
| LTMW-18ug | 146133 | 939450 | 11.6 | -22.5 |
| LTMW-18c | 146169 | 939473 | 13.0 | -113.0 |
| LTMW-19 | 145873 | 939091 | 12.8 | -9.3 |
| LTMW-20 | 145535 | 938748 | 9.2 | -15.0 |
| LTMW-21 | 143814 | 938072 | 15.7 | -76.0 |
| LTMW-22 | 144447 | 940083 | 19.9 | -100.0 |
| LTMW-23 | 145869 | 941717 | 24.1 | -107.0 |

CONTRACT NO. 1359-BRK

Layeux Inc.
PROFESSIONAL LAND SURVEYORS
CONSTRUCTION SURVEYING SPECIALISTS
GPS CONSULTANTS
1 Entin Road, Unit 8
Clifton, N.J. 07014
Ph: 973-249-0900 Fax: 973-249-0988

LONG-TERM GROUNDWATER MONITORING WELL LOCATION PLAN

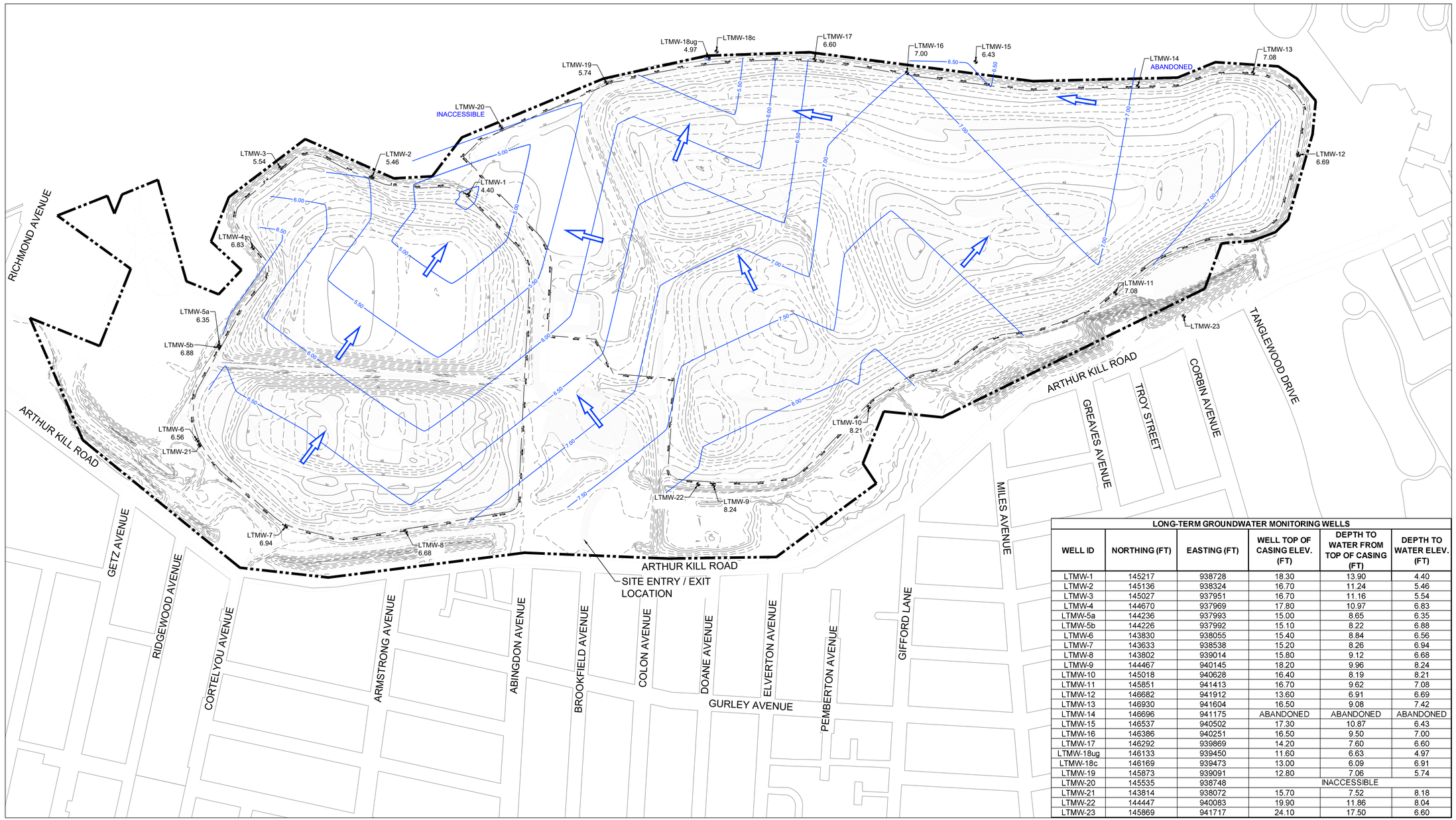
BROOKFIELD AVENUE LANDFILL

Prepared For:
CITY OF NEW YORK CITY
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BROOKFIELD CONSTRUCTION ASSOCIATES, LLC
136 CENTRAL AVENUE
CLARK, NJ 07066

| | |
|---|---|
| Drawn By: | MP |
| Checked: | JB |
| Scale: | 1"=150' |
| Date: | 07-23-15 |
| Proj. No.: | 2857 |
| | Figure 6 |

User Name: : Layoutinc Date\Time : Mon, 21 Sep 2015 - 10:18pm Path\Name : C:\Layout\Brookfield\2857-Brookfield-Landfill\Civil 3D\Drawings\081215\2857-LTGW MONITORING PLAN-6.dwg - Layout Tab : 081215-LTGW MONITORING




| LONG-TERM GROUNDWATER MONITORING WELLS | | | | | |
|---|---|---|---|---|---|
| WELL ID | NORTHING (FT) | EASTING (FT) | WELL TOP OF CASING ELEV. (FT) | DEPTH TO WATER FROM TOP OF CASING (FT) | DEPTH TO WATER ELEV. (FT) |
| LTMW-1 | 145217 | 938728 | 18.30 | 13.90 | 4.40 |
| LTMW-2 | 145136 | 938324 | 16.70 | 11.24 | 5.46 |
| LTMW-3 | 145027 | 937951 | 16.70 | 11.16 | 5.54 |
| LTMW-4 | 144670 | 937969 | 17.80 | 10.97 | 6.83 |
| LTMW-5a | 144236 | 937993 | 15.00 | 8.65 | 6.35 |
| LTMW-5b | 144226 | 937992 | 15.10 | 8.22 | 6.88 |
| LTMW-6 | 143830 | 938055 | 15.40 | 8.84 | 6.56 |
| LTMW-7 | 143633 | 938538 | 15.20 | 8.26 | 6.94 |
| LTMW-8 | 143802 | 939014 | 15.80 | 9.12 | 6.68 |
| LTMW-9 | 144467 | 940145 | 18.20 | 9.96 | 8.24 |
| LTMW-10 | 145018 | 940628 | 16.40 | 8.19 | 8.21 |
| LTMW-11 | 145851 | 941413 | 16.70 | 9.62 | 7.08 |
| LTMW-12 | 146682 | 941912 | 13.60 | 6.91 | 6.69 |
| LTMW-13 | 146930 | 941604 | 16.50 | 9.08 | 7.42 |
| LTMW-14 | 146696 | 941175 | ABANDONED | ABANDONED | ABANDONED |
| LTMW-15 | 146537 | 940502 | 17.30 | 10.87 | 6.43 |
| LTMW-16 | 146386 | 940251 | 16.50 | 9.50 | 7.00 |
| LTMW-17 | 146292 | 939869 | 14.20 | 7.60 | 6.60 |
| LTMW-18ug | 146133 | 939450 | 11.60 | 6.63 | 4.97 |
| LTMW-18c | 146169 | 939473 | 13.00 | 6.09 | 6.91 |
| LTMW-19 | 145873 | 939091 | 12.80 | 7.06 | 5.74 |
| LTMW-20 | 145535 | 938748 | INACCESSIBLE | | |
| LTMW-21 | 143814 | 938072 | 15.70 | 7.52 | 8.18 |
| LTMW-22 | 144447 | 940083 | 19.90 | 11.86 | 8.04 |
| LTMW-23 | 145869 | 941717 | 24.10 | 17.50 | 6.60 |

## LEGEND (SYMBOL NOT TO SCALE):

- SITE BOUNDARY
- LTMW-## — LONG-TERM GROUNDWATER MONITORING WELL
- 4.40 — GROUNDWATER ELEVATION (IN FEET)
- 7.00 — GROUNDWATER SURFACE ELEVATION CONTOUR (IN FEET)
- GROUNDWATER FLOW DIRECTION
- CENTERLINE OF BARRIER WALL
- AS-BUILT FINAL GRADE

## NOTES:

1. HORIZONTAL AND VERTICAL DATUM IS A PROJECT SPECIFIC DATUM, REFERENCED FROM "TOPOGRAPHICAL SURVEY OF THE BROOKFIELD AVENUE LANDFILL, SITUATED ON STATEN ISLAND IN THE BOROUGH OF RICHMOND, COUNTY OF RICHMOND, CITY OF NEW YORK, STATE OF NEW YORK" DATED JUNE 4, 2003 PREPARED BY CHAS. H. SELLS, INC. TO CONVERT TO NAD 83 AND NGVD 1929 SEE RFI #7 AND #31.
2. COORDINATES AND ELEVATIONS ARE SHOWN IN U.S. SURVEY FEET.
3. MP ELEV = MEASURING POINT ELEVATION - THE TOP EDGE OF EACH WELL'S OUTER STEEL CASING.
4. TOS ELEV = TOP OF SCREEN ELEVATION.
5. TOP OF WELL CASING ELEVATIONS REFERENCE THE ELEVATIONS PROVIDED ON THE LONG-TERM GROUNDWATER MONITORING WELL LOCATION PLAN FIGURE 6 PREPARED BY LAYOUT INC. DATED 07-23-15.
6. DEPTH TO WATER FROM TOP OF CASING ELEVATIONS RECORDED BY TRC ON 09-21-2021.
7. DEPTH TO WATER ELEVATION AT LTMW-20 WAS NOT USED IN PREPARATION OF GROUNDWATER CONTOURS DUE TO BEING INACCESSIBLE.
8. DEPTH TO WATER ELEVATION AT LTMW-18c, LTMW-21, LTMW-22, AND LTMW-23 WERE NOT USED IN PREPARATION OF GROUNDWATER CONTOURS SINCE IT IS PART OF THE CRETACEOUS GROUNDWATER LEVEL MAP.

## REFERENCES:

"CONTRACT NO. LF-BAL-1G, LONG-TERM GROUNDWATER MONITORING PLAN, MONITORING WELL LOCATIONS" DATED APRIL 2007, LAST REVISED 10/12/12 AND PREPARED BY CAMP DRESSER & MCKEE.

0 200' 400'

SCALE: 1"= 200'
SHEET SIZE: 24" X 36"

PROJECT
NEW YORK CITY DEPARTMENT OF PARKS AND RECREATION
BROOKFIELD AVENUE LANDFILL - 375 ARTHUR KILL ROAD
STATEN ISLAND, NEW YORK 10308

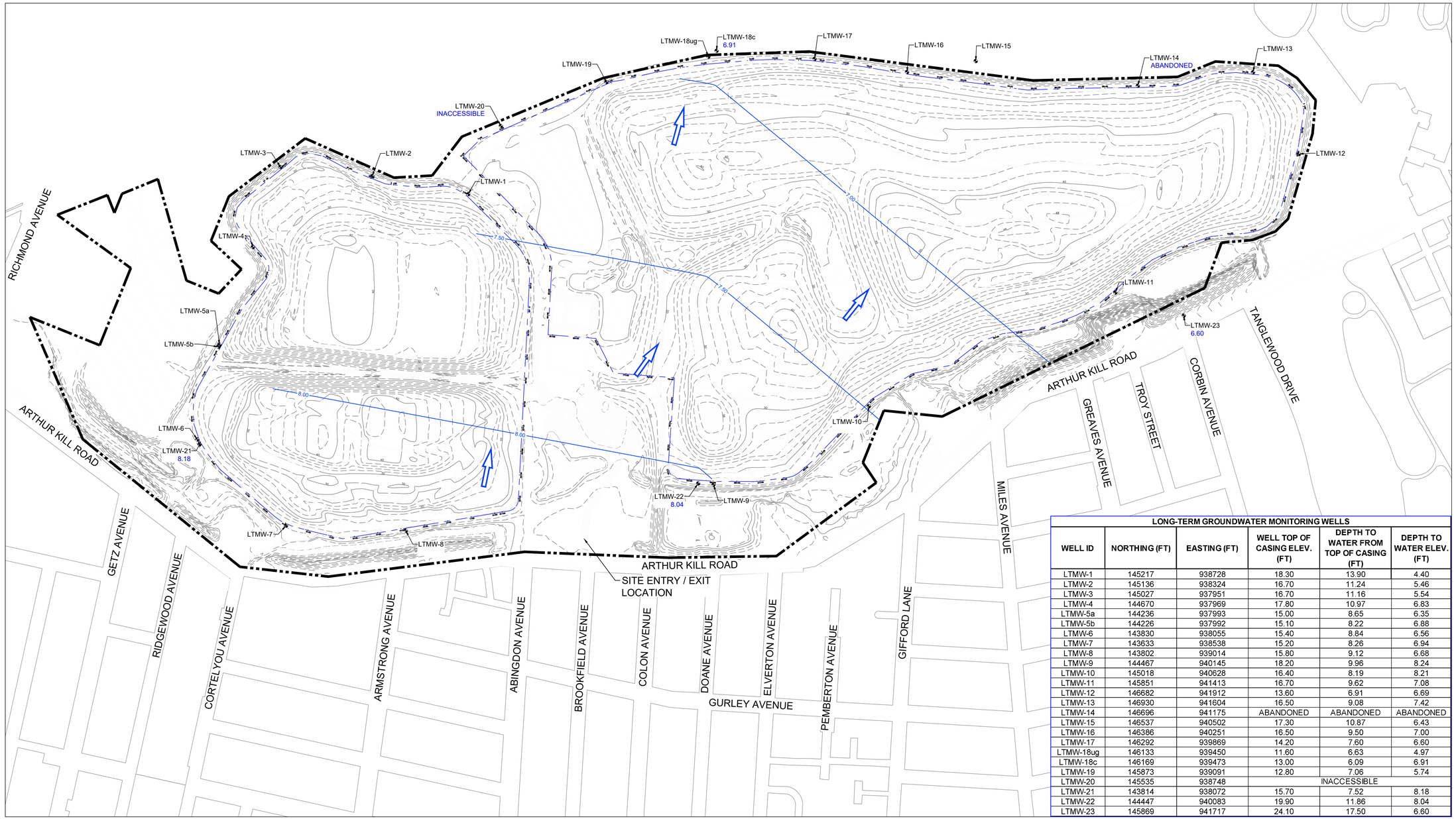
TITLE
# LONG-TERM GROUNDWATER MONITORING WELL UPPER GLACIAL GROUNDWATER SURFACE ELEVATION CONTOUR MAP - 2021

| | | | |
|---|---|---|---|
| DRAWN BY: | H. DELGADO | PROJ. NO.: | 384968.0000.0000 |
| CHECKED BY: | A. BARTLETT | | |
| APPROVED BY: | W. LINDEMUTH | | FIGURE 7 |
| DATE: | NOVEMBER 2021 | | |

TRC
1430 Broadway, 10th Floor
New York, NY 10018
Phone: 212.221.7822
www.TRCcompanies.com

FILE NO.: Figure 7 - Upper Glacial GW SEC Map (Brookfield LF).dwg

DRAWING NAME: I:\Projects\NYC Parks Contract 2016\2016\381384968.0000 - Brookfield Avenue Landfill\Cadd\Drawings\Gallery Reports\0222TRC-BAL-1G22\Figures\TRC Working Drawings\Figure 7 - Upper Glacial GW SEC Map (Brookfield LF).dwg — PLOT DATE: June 21, 2022 - 1:15PM — LAYOUT: 24X36L
XREF: x_xrefs\xrefs\ - xpencil\xrefs\xpencil.dwg, titleblock - 2016.dwt, titleblock - 2016.dwt, xpencil - 1st version.dwg




**LONG-TERM GROUNDWATER MONITORING WELLS**

| WELL ID | NORTHING (FT) | EASTING (FT) | WELL TOP OF CASING ELEV. (FT) | DEPTH TO WATER FROM TOP OF CASING (FT) | DEPTH TO WATER ELEV. (FT) |
|---|---|---|---|---|---|
| LTMW-1 | 145217 | 938728 | 18.30 | 13.90 | 4.40 |
| LTMW-2 | 145136 | 938324 | 16.70 | 11.24 | 5.46 |
| LTMW-3 | 145027 | 937951 | 16.70 | 11.16 | 5.54 |
| LTMW-4 | 144670 | 937969 | 17.80 | 10.97 | 6.83 |
| LTMW-5a | 144236 | 937993 | 15.00 | 8.65 | 6.35 |
| LTMW-5b | 144226 | 937992 | 15.10 | 8.22 | 6.88 |
| LTMW-6 | 143830 | 938055 | 15.40 | 8.84 | 6.56 |
| LTMW-7 | 143633 | 938538 | 15.20 | 8.26 | 6.94 |
| LTMW-8 | 143802 | 939014 | 15.80 | 9.12 | 6.68 |
| LTMW-9 | 144467 | 940145 | 18.20 | 9.96 | 8.24 |
| LTMW-10 | 145018 | 940628 | 16.40 | 8.19 | 8.21 |
| LTMW-11 | 145851 | 941413 | 16.70 | 9.62 | 7.08 |
| LTMW-12 | 146682 | 941912 | 13.60 | 6.91 | 6.69 |
| LTMW-13 | 146930 | 941604 | 16.50 | 9.08 | 7.42 |
| LTMW-14 | 146696 | 941175 | ABANDONED | ABANDONED | ABANDONED |
| LTMW-15 | 146537 | 940502 | 17.30 | 10.87 | 6.43 |
| LTMW-16 | 146386 | 940251 | 16.50 | 9.50 | 7.00 |
| LTMW-17 | 146292 | 939869 | 14.20 | 7.60 | 6.60 |
| LTMW-18ug | 146133 | 939450 | 11.60 | 6.63 | 4.97 |
| LTMW-18c | 146169 | 939473 | 13.00 | 6.09 | 6.91 |
| LTMW-19 | 145873 | 939091 | 12.80 | 7.06 | 5.74 |
| LTMW-20 | 145535 | 938748 | INACCESSIBLE | | |
| LTMW-21 | 143814 | 938072 | 15.70 | 7.52 | 8.18 |
| LTMW-22 | 144447 | 940083 | 19.90 | 11.86 | 8.04 |
| LTMW-23 | 145869 | 941717 | 24.10 | 17.50 | 6.60 |

## LEGEND (SYMBOL NOT TO SCALE):

- SITE BOUNDARY
- LTMW-## — LONG-TERM GROUNDWATER MONITORING WELL
- 8.18 — GROUNDWATER ELEVATION (IN FEET)
- 8.00 — GROUNDWATER SURFACE ELEVATION CONTOUR (IN FEET)
- GROUNDWATER FLOW DIRECTION
- 41.00 — CENTERLINE OF BARRIER WALL
- 20 — AS-BUILT FINAL GRADE

## NOTES:

1. HORIZONTAL AND VERTICAL DATUM IS A PROJECT SPECIFIC DATUM, REFERENCED FROM "TOPOGRAPHICAL SURVEY OF THE BROOKFIELD AVENUE LANDFILL, SITUATED ON STATEN ISLAND IN THE BOROUGH OF RICHMOND, COUNTY OF RICHMOND, CITY OF NEW YORK, STATE OF NEW YORK" DATED JUNE 4, 2003 PREPARED BY CHAS. H. SELLS, INC. TO CONVERT TO NAD 83 AND NGVD 1929 SEE RFI #7 AND #31.
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6. DEPTH TO WATER FROM TOP OF CASING ELEVATIONS RECORDED BY TRC ON 09-21-2021.
7. DEPTH TO WATER ELEVATION AT LTMW-1, LTMW-2, LTMW-3, LTMW-4, LTMW-5, LTMW-6, LTMW-7, LTMW-8, LTMW-9, LTMW-10, LTMW-11, LTMW-12, LTMW-13, LTMW-14, LTMW-15, LTMW-16, LTMW-17, LTMW-18ug, LTMW-19, AND LTMW-20 WERE NOT USED IN PREPARATION OF GROUNDWATER CONTOURS SINCE IT IS PART OF THE UPPER GLACIAL GROUNDWATER LEVEL MAP.

## REFERENCES:

"CONTRACT NO. LF-BAL-1G, LONG-TERM GROUNDWATER MONITORING PLAN, MONITORING WELL LOCATIONS" DATED APRIL 2007, LAST REVISED 10/12/12 AND PREPARED BY CAMP DRESSER & MCKEE.

0 200' 400'

SCALE: 1"= 200'
SHEET SIZE: 24" X 36"

PROJECT:
**NEW YORK CITY DEPARTMENT OF PARKS AND RECREATION**
**BROOKFIELD AVENUE LANDFILL - 375 ARTHUR KILL ROAD**
**STATEN ISLAND, NEW YORK 10308**

TITLE:
# LONG-TERM GROUNDWATER MONITORING WELL CRETACEOUS GROUNDWATER SURFACE ELEVATION CONTOUR MAP - 2021

| | | | |
|---|---|---|---|
| DRAWN BY: | H. DELGADO | PROJ. NO.: | 384968.0000.0000 |
| CHECKED BY: | A. BARTLETT | | |
| APPROVED BY: | W. LINDEMUTH | | **FIGURE 8** |
| DATE: | NOVEMBER 2021 | | |

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New York, NY 10018
Phone: 212.221.7822
www.TRCcompanies.com

FILE NO.: Figure 8 - Cretaceous GW SEC Map (Brookfield LF).dwg

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DRAWING NAME: I:\Projects\NYC Parks Contract 2016\2016\181384\66 0000 Brookfield Avenue Landfill\Groundwater\Quarterly Reports\2022\TRC BAL 1Q22\Figures\TRC Working Drawings\Figure 8 - Cretaceous GW SEC Map (Brookfield LF).dwg -- PLOT DATE: June 21, 2022 - 1:17PM -- LAYOUT: 24X36L

TABLES

**TABLE 1**

**BROOKFIELD AVENUE LANDFILL**
**LEACHATE MANAGEMENT SYSTEM**
**SUMP PUMP RUN TIMES**

**APRIL 2021 THROUGH MARCH 2022**

| Date | Monthly Total Pump Hours To Date Per Sump | | | | | | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | LSW- 1 | LSW-2 | LSW-3 | LSE-1 | LSE-2 | LSE-3 | LSE-4 | LSE-5 | LSE-6 | |
| **4/26/2021** | 20,680.6 | 11,679.6 | 19,630.0 | 1,063.6 | 5,716.4 | 22,138.3 | 403.0 | 3,865.6 | 20,964.1 | 106,141.2 |
| **5/25/2021** | 20,680.6 | 11,679.6 | 19,630.0 | 1,063.6 | 5,820.8 | 22,662.3 | 403.0 | 3,940.0 | 21,660.0 | 107,539.9 |
| **6/29/2021** | 20,680.6 | 11,679.6 | 19,630.0 | 1,063.6 | 5,949.3 | 23,382.0 | 403.0 | 4,075.7 | 22,499.7 | 109,363.5 |
| **7/26/2021** | 20,805.7 | 11,847.5 | 19,798.0 | 1,063.6 | 6,028.7 | 23,926.8 | 403.0 | 4,135.5 | 23,147.2 | 111,156.0 |
| **8/24/2021** | 20,805.7 | 11,847.5 | 19,848.5 | 1,063.6 | 6,108.7 | 24,447.2 | 403.0 | 4,187.9 | 24,045.7 | 112,757.8 |
| **9/28/2021** | 21,012.5 | 12,085.7 | 20,178.4 | 1,063.6 | 6,254.3 | 25,123.8 | 403.0 | 4,293.8 | 24,680.8 | 115,095.9 |
| **10/29/2021** | 21,012.5 | 12,085.7 | 20,178.4 | 1,063.6 | 6,377.9 | 25,813.0 | 403.0 | 4,412.6 | 25,424.9 | 116,771.6 |
| **11/22/2021** | 21,012.5 | 12,182.7 | 20,275.5 | 1,063.6 | 6,452.8 | 26,343.7 | 403.0 | 4,466.3 | 26,000.6 | 118,200.7 |
| **12/29/2021** | 21,012.5 | 12,426.0 | 20,518.6 | 1,063.6 | 6,601.8 | 27,232.2 | 403.0 | 4,554.0 | 26,888.8 | 120,700.5 |
| **1/27/2022** | 21,042.3 | 12,617.6 | 20,710.2 | 1,089.0 | 6,717.5 | 27,823.7 | 403.0 | 5,067.2 | 27,583.0 | 123,053.5 |
| **2/21/2022** | 21,042.8 | 12,617.8 | 20,710.3 | 1,089.0 | 6,808.7 | 28,155.0 | 406.1 | 5,310.8 | 27,906.5 | 124,047.0 |
| **3/28/2022** | 21,042.8 | 12,617.8 | 20,710.3 | 1,113.4 | 6,951.0 | 28,173.1 | 406.1 | 5,310.8 | 28,089.1 | 124,414.4 |
| **Total Pump Hours this Annual Period** | 362.2 | 938.2 | 1,080.3 | 49.8 | 1,234.6 | 6,034.8 | 3.1 | 1,445.2 | 7,125.0 | 18,273.2 |
| **Average Pump Hours this Annual Period per Sump:** | | | | | | | | | | 2,030.4 |
| **Average Pump Hours this Annual Period per Pump:** | | | | | | | | | | 1,015.2 |

**TABLE 2**

**BROOKFIELD AVENUE LANDFILL**
**LEACHATE MANAGEMENT SYSTEM**
**MONTHLY FLOW REPORT**

**APRIL 2021 THROUGH MARCH 2022**

| Period | Total Flow (Gallons) | Average Flow (GPM) | Average Daily Flow (GPD) | Maximum Daily Flow (GPD) | Number of Day's in Service | Percent of Time in Service |
|---|---|---|---|---|---|---|
| **Apr-21** | 2,942,600 | 68.1 | 98,087 | 180,710 | 30 | 100% |
| **May-21** | 2,301,934 | 51.6 | 74,256 | 171,700 | 31 | 100% |
| **Jun-21** | 2,300,440 | 53.3 | 76,681 | 171,030 | 30 | 100% |
| **Jul-21** | 1,694,500 | 38.0 | 54,661 | 131,780 | 31 | 100% |
| **Aug-21** | 1,915,570 | 42.9 | 61,793 | 153,178 | 31 | 100% |
| **Sep-21** | 1,250,550 | 28.9 | 41,685 | 126,680 | 30 | 100% |
| **Oct-21** | 1,120,910 | 25.1 | 36,158 | 118,110 | 31 | 100% |
| **Nov-21** | 975,850 | 22.6 | 32,528 | 127,490 | 30 | 100% |
| **Dec-21** | 813,320 | 18.2 | 26,236 | 120,960 | 31 | 100% |
| **Jan-22** | 1,267,090 | 28.4 | 40,874 | 81,372 | 31 | 100% |
| **Feb-22** | 1,635,750 | 40.6 | 58,420 | 153,490 | 28 | 100% |
| **Mar-22** | 2,907,456 | 65.1 | 93,789 | -- | 31 | 100% |
| **Average** | 1,760,498 | 40.2 | 57,879 | 139,682 | NA | 100% |
| **Maximum** | 2,942,600 | 68.1 | 98,087 | 180,710 | NA | NA |
| **Total** | 21,125,970 | NA | NA | NA | 365 | NA |

**Comments**

1. March 2022 data collected during weekly inspections.
2. -- : No data available

**TABLE 3**

**BROOKFIELD AVENUE LANDFILL**
**QUARTERLY PERIMETER GAS MONITORING WELL RESULTS**

**APRIL 2021 - MARCH 2022**

| Sample Location | 2Q21 6/3/2021 | | | | 3Q21 9/24/2021 | | | | 4Q21 12/3/2021 | | | | 1Q22 3/10/2022 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Concentration (% Volume) | | | Comments | Concentration (% Volume) | | | Comments | Concentration (% Volume) | | | Comments | Concentration (% Volume) | | | Comments |
| | Methane | CO2 | Oxygen | | Methane | CO2 | Oxygen | | Methane | CO2 | Oxygen | | Methane | CO2 | Oxygen | |
| **EAST CELL** | | | | | | | | | | | | | | | | |
| LFG-E-1 | 0.00 | 0.3 | 21.6 | | 0.00 | 2.5 | 18.7 | | 0.00 | 1.3 | 20.9 | | 0.00 | 0.7 | 21.1 | |
| LFG-E-2 | 0.00 | 4.2 | 16.8 | | 0.00 | 6.2 | 14.9 | | 0.00 | 5.9 | 14.4 | | 0.00 | 3.0 | 17.3 | |
| LFG-E-3 | 0.00 | 5.5 | 13.0 | | 0.00 | 8.1 | 13.0 | | 0.00 | 4.7 | 15.3 | | 0.00 | 4.4 | 15.0 | |
| LFG-E-4 | 0.00 | 0.8 | 20.6 | | 0.00 | 1.3 | 19.0 | | 0.00 | 2.4 | 19.9 | | 0.00 | 1.4 | 20.5 | |
| LFG-E-5 | 0.00 | 1.4 | 20.1 | | 0.00 | 3.9 | 17.1 | | 0.00 | 4.4 | 16.4 | | 0.00 | 0.9 | 20.3 | |
| LFG-E-6 | 0.00 | 1.4 | 19.0 | | 0.00 | 5.8 | 11.9 | | 0.10 | 2.4 | 17.7 | | 0.00 | 0.5 | 20.6 | |
| LFG-E-7 | 0.00 | 6.8 | 10.2 | | 0.00 | 8.9 | 10.4 | | 0.00 | 10.4 | 0.4 | | 0.00 | 3.7 | 14.0 | |
| LFG-E-8 | 0.00 | 4.6 | 15.7 | | 0.00 | 10.3 | 7.2 | | 0.00 | 3.7 | 16.9 | | 0.00 | 3.6 | 16.0 | |
| LFG-E-9 | 0.00 | 1.3 | 19.7 | | 0.00 | 0.5 | 20.4 | | 0.00 | 0.6 | 20.9 | | 0.00 | 0.2 | 21.2 | |
| LFG-E-10 | 0.00 | 8.9 | 11.6 | | 0.00 | 10.2 | 9.7 | | 0.00 | 11.4 | 7.7 | | 0.00 | 9.8 | 8.3 | |
| LFG-E-11 | 0.00 | 2.4 | 18.2 | | 0.00 | 11.3 | 6.9 | | 0.00 | 6.4 | 12.5 | | 0.10 | 3.6 | 14.8 | |
| LFG-E-12 | 0.00 | 0.2 | 21.8 | | 0.00 | 10.3 | 5.7 | | 0.00 | 0.1 | 21.5 | | 0.00 | 0.1 | 20.4 | |
| LFG-E-13 | 0.00 | 1.5 | 18.8 | | 0.00 | 4.6 | 14.5 | | 0.00 | 1.9 | 18.7 | | 0.00 | 0.6 | 19.6 | |
| LFG-E-14 | 0.00 | 0.3 | 21.3 | | 0.00 | 0.2 | 18.6 | | 0.00 | 0.7 | 20.5 | | 0.00 | 0.2 | 20.4 | |
| LFG-E-15 | 0.00 | 0.3 | 21.4 | | 0.00 | 0.4 | 20.3 | | 0.00 | 0.2 | 21.6 | | 0.00 | 0.1 | 20.6 | |
| LFG-E-16 | 0.00 | 0.7 | 21.2 | | 0.00 | 1.2 | 19.7 | | 0.20 | 2.4 | 19.8 | | 0.00 | 0.1 | 20.9 | |
| LFG-E-17 | 0.00 | 6.9 | 4.2 | | 0.00 | 0.3 | 15.9 | | 0.10 | 3.9 | 15.9 | | 0.10 | 6.8 | 6.2 | |
| LFG-E-18 | 42.90 | 8.8 | 10.1 | | 15.20 | 4.2 | 18.3 | | 16.10 | 5.8 | 14.9 | | 6.00 | 1.6 | 19.4 | |
| LFG-E-19 | 0.00 | 0.2 | 21.9 | | 29.40 | 1.6 | 13.3 | | 33.30 | 7.5 | 8.2 | | 28.50 | 1.3 | 7.8 | |
| **WEST CELL** | | | | | | | | | | | | | | | | |
| LFG-W-1 | 0.00 | 1.1 | 19.6 | | 10.40 | 11.8 | 0.4 | | 0.00 | 0.2 | 21.9 | | 0.00 | 0.8 | 19.4 | |
| LFG-W-2 | 0.00 | 0.3 | 19.7 | | 0.00 | 0.3 | 20.0 | | 0.00 | 0.1 | 22.2 | | 0.00 | 4.0 | 9.0 | |
| LFG-W-3 | 0.00 | 13.1 | 5.2 | | 0.00 | 16.2 | 5.7 | | 0.00 | 0.1 | 22.2 | | 0.00 | 10.8 | 8.9 | |
| LFG-W-4 | 0.00 | 8.1 | 11.3 | | 0.00 | 10.6 | 11.9 | | 0.00 | 0.1 | 22.1 | | 0.00 | 4.7 | 18.1 | |
| LFG-W-5 | 0.00 | 8.3 | 12.3 | | 0.00 | 10.9 | 11.9 | | 0.00 | 5.4 | 18.6 | | 0.00 | 4.1 | 17.9 | |
| LFG-W-6 | 0.00 | 2.1 | 20.0 | | 0.00 | 5.8 | 16.2 | | 0.00 | 1.0 | 21.4 | | 0.00 | 0.6 | 20.5 | |
| LFG-W-7 | 0.00 | 7.0 | 14.2 | | 0.00 | 9.8 | 11.1 | | 0.00 | 16.4 | 2.6 | | 0.00 | 0.1 | 20.9 | |
| LFG-W-8 | 0.00 | 0.2 | 22.0 | | 0.00 | 1.0 | 19.7 | | 0.00 | 0.3 | 21.6 | | 0.00 | 0.1 | 21.1 | |
| LFG-W-9 | 0.00 | 1.0 | 20.4 | | 0.00 | 0.1 | 20.4 | | 0.00 | 0.1 | 22.0 | | 0.00 | 0.1 | 20.8 | |
| LFG-W-10 | 0.00 | 0.3 | 21.6 | | 0.00 | 0.4 | 20.0 | | 0.00 | 0.3 | 21.5 | | 0.00 | 0.2 | 20.7 | |
| LFG-W-11 | **77.00** | 19.2 | 1.5 | No bar punches due to probe location | **70.50** | 27.6 | 1.3 | No bar punches due to probe location | **22.10** | 7.5 | 14.8 | No bar punches due to probe location | **69.20** | 16.1 | 1.3 | No bar punches due to probe location |
| LFG-W-12 | 77.70 | 20.3 | 1.1 | | 69.40 | 28.8 | 0.2 | | **3.90** | 1.5 | 20.6 | No bar punches due to probe location | 61.90 | 14.1 | 3.4 | |
| LFG-W-13 | 0.00 | 0.2 | 22 | | 0.00 | 0.2 | 20.6 | | -- | -- | -- | | 0.00 | 0.1 | 21.1 | |

**Comments**

1. All wells were vented prior to monitoring.
2. Exceedance of the LEL for Methane is shown in bold. No additional bar punches were done due to location.
3. -- : No data available

**TABLE 4**

**BROOKFIELD AVENUE LANDFILL**
**QUARTERLY ELTINGVILLE PUMPING STATION GAS MONITORING RESULTS**

**APRIL 2021 - MARCH 2022**

| Location | Floor ID | 2Q21 6/8/2021 | | | | 3Q21 9/24/2021 | | | | 4Q21 12/3/2021 | | | | 1Q22 2/4/2022 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Concentration by % | | Time | Comments | Concentration by % | | Time | Comments | Concentration by % | | Time | Comments | Concentration by % | | Time | Comments |
| | | Methane | LEL % | | | Methane | LEL % | | | Methane | LEL % | | | Methane | LEL % | | |
| Dry Well | Main Floor | 0.00 | 0.00 | 8:50 | | 0.00 | 0.00 | 9:02 | | 0.00 | 0.00 | 11:33 | | 0.00 | 0.00 | 10:15 | |
| | Sub Floor 1 | 0.00 | 0.00 | 8:40 | | 0.00 | 0.00 | 9:20 | | 0.00 | 0.00 | 11:39 | | 0.00 | 0.00 | 10:25 | |
| | Sub Floor 2 | 0.00 | 0.00 | 8:56 | | 0.00 | 0.00 | 9:35 | | 0.00 | 0.00 | 11:49 | | 0.00 | 0.00 | 10:35 | |
| Wet Well | Main Floor | 0.00 | 0.00 | 8:10 | | 0.00 | 0.00 | 8:57 | | 0.00 | 0.00 | 11:17 | | 0.00 | 0.00 | 9:40 | |
| | Sub Floor 1 | 0.00 | 0.00 | 8:25 | | 0.00 | 0.00 | 9:15 | | 0.00 | 0.00 | 11:24 | | 0.00 | 0.00 | 9:50 | |
| | Sub Floor 2 | 0.00 | 0.00 | 8:36 | | 0.00 | 0.00 | 9:30 | | 0.00 | 0.00 | 11:30 | | 0.00 | 0.00 | 10:00 | |
| Generator Room | Main Floor | 0.00 | 0.00 | 8:01 | | 0.00 | 0.00 | 8:52 | | 0.00 | 0.00 | 11:10 | | 0.00 | 0.00 | 9:30 | |

Notes:

1. Methane monitoring was performed by walking along the interior perimeter of the building as well as other locations throughout each floor.
2. If methane readings were encountered, a description of the location would be included in the table above and a sketch of the building showing the location would be attached to this table.

# APPENDIX A

# LEACHATE MANAGEMENT SYSTEM

**FORM LMS-1**
**INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**APRIL 2021**

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 4/5/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/5/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/5/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/5/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/5/2021 | LSE 2 | 2,772.2 | 2,863.5 | 18.2 | 0.00 | √ | √ | √ | √ |
| 4/5/2021 | LSE 3 | 6,971.8 | 14,717.5 | 168.3 | 0.00 | √ | √ | √ | √ |
| 4/5/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/5/2021 | LSE 5 | 1,926.8 | 2,370.9 | 560.0 | 0.00 | √ | √ | √ | √ |
| 4/5/2021 | LSE 6 | 7,168.1 | 13,293.8 | 188.4 | 0.00 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 4/5/2021 | √ | √ | √ | 934.9 | 158,643,280 | 14.1 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 4/16/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/16/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/16/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/16/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/16/2021 | LSE 2 | 2,793.0 | 2,897.5 | 54.8 | 0.00 | √ | √ | √ | √ |
| 4/16/2021 | LSE 3 | 6,971.8 | 14,979.8 | 262.3 | 0.00 | √ | √ | √ | √ |
| 4/16/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/16/2021 | LSE 5 | 1,467.6 | 2,370.9 | -459.2 | 0.00 | √ | √ | √ | √ |
| 4/16/2021 | LSE 6 | 7,168.1 | 13,556.0 | 262.2 | 0.00 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 4/16/2021 | √ | √ | √ | 120.1 | 159,852,859 | 167.9 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 4/19/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/19/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/19/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/19/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/19/2021 | LSE 2 | 2,793.0 | 2,897.5 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/19/2021 | LSE 3 | 6,991.1 | 14,979.8 | 19.3 | 0.00 | √ | √ | √ | √ |
| 4/19/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 0.00 | √ | √ | √ | √ |
| 4/19/2021 | LSE 5 | 1,494.7 | 2,370.9 | 27.1 | 0.00 | √ | √ | √ | √ |
| 4/19/2021 | LSE 6 | 7,187.5 | 13,608.7 | 72.1 | 0.00 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 4/19/2021 | √ | √ | √ | 118.5 | 160,182,744 | 46.4 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 4/26/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | 5.29 | √ | √ | √ | √ |
| 4/26/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | 5.41 | √ | √ | √ | √ |
| 4/26/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | 5.26 | √ | √ | √ | √ |
| 4/26/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 2.92 | √ | √ | √ | √ |
| 4/26/2021 | LSE 2 | 2,804.8 | 2,911.6 | 25.9 | 2.82 | √ | √ | √ | √ |
| 4/26/2021 | LSE 3 | 6,991.1 | 15,147.2 | 167.4 | 2.69 | √ | √ | √ | √ |
| 4/26/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 2.81 | √ | √ | √ | √ |
| 4/26/2021 | LSE 5 | 1,494.7 | 2,370.9 | 0.0 | 2.92 | √ | √ | √ | √ |
| 4/26/2021 | LSE 6 | 7,187.5 | 13,776.6 | 167.9 | 3.32 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 4/26/2021 | √ | √ | √ | 361.2 | 160,733,108 | 25.4 | √ | √ | √ |

**Monthly Totals**

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| April 2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | -- | √ | √ | √ | √ |
| April 2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | -- | √ | √ | √ | √ |
| April 2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | -- | √ | √ | √ | √ |
| April 2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| April 2021 | LSE 2 | 2,804.8 | 2,911.6 | 98.9 | -- | √ | √ | √ | √ |
| April 2021 | LSE 3 | 6,991.1 | 15,147.2 | 617.3 | -- | √ | √ | √ | √ |
| April 2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| April 2021 | LSE 5 | 1,494.7 | 2,370.9 | 127.9 | -- | √ | √ | √ | √ |
| April 2021 | LSE 6 | 7,187.5 | 13,776.6 | 690.6 | -- | √ | √ | √ | √ |

| Inspection Month | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Monthly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| April 2021 | √ | √ | √ | 1534.7 | 160,733,108 | 31.3 | √ | √ | √ |

# FORM LMS-2
## SEMI - ANNUAL INSPECTION CHECKLIST
## LEACHATE MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## APRIL 2021

**Date: Decemebr 12, 2019** | **Inspected By: J. Battista / T McCoy**

| INSPECTION TASK | SUMP NUMBER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|
| | LSE1 | LSE2 | LSE3 | LSE4 | LSE5 | LSE6 | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| | LSW1 | LSW2 | LSW3 | | | | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | | | | 9/5/2019 (Advantech) |

**Comments:** All sumps were pumped down to the lowest achievable elevation to examine the interior conditions.

Semi annual inspection items on hold pending leachate pump investigation.

**FORM LMS-3**
**ANNUAL INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**APRIL 2021**

| **Date: December 31, 2019** | | | | | **Inspected By: J. Battista / T McCoy** | | |
|---|---|---|---|---|---|---|---|
| **INSPECTION TASK** | **SUMP NUMBER** | | | | | | **REMARKS** |
| | **LSE1** | **LSE2** | **LSE3** | **LSE4** | **LSE5** | **LSE6** | **NYC BWT** |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| **Comments: December 23, 2019 - Flushed system (Previously Novemebr 26th and 27th 2019) NYCBWT provided sewer jet to unclog iron oxide buildup** | | | | | | | |
| ***every 8000 hours or two years** | | | | | | | |
| Annual inspection items on hold pending leachate pump investigation. | | | | | | | |
| | | | | | | | |

**FORM DP-1**
**LEACHATE MANAGEMENT SYSTEM**
**APRIL 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 4/1/21 - 4/30/21 | LSW-1, LSW-2, LSW-3 | Pumps were not shutting off automatically | Turned pumps off. Running manually |
| 4/12/21 | Eastern Oil/Water Separator | Standing stormwater observed in vault | TRC completed stormwater removal on 4/12/21. |
| 4/19/21 | Western Oil/Water Separator | Standing stormwater observed in vault | TRC completed stormwater removal on 4/19/21. |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Date: 4/26/21**

**Inspected By: R. Bowden**

**Signature:** RC Bowden

**FORM LMS-1**
**INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**MAY 2021**

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 5/4/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/4/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/4/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/4/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/4/2021 | LSE 2 | 2,819.4 | 2,925.6 | 28.6 | 0.00 | √ | √ | √ | √ |
| 5/4/2021 | LSE 3 | 7,006.1 | 15,285.4 | 153.2 | 0.00 | √ | √ | √ | √ |
| 5/4/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/4/2021 | LSE 5 | 1,494.7 | 2,426.1 | 55.2 | 0.00 | √ | √ | √ | √ |
| 5/4/2021 | LSE 6 | 7,187.5 | 13,970.4 | 193.8 | 0.00 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 5/4/2021 | √ | √ | √ | 430.8 | 161,455,092 | 27.9 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 5/11/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/11/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/11/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/11/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/11/2021 | LSE 2 | 2,819.4 | 2,925.6 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/11/2021 | LSE 3 | 7,019.0 | 15,385.8 | 113.3 | 0.00 | √ | √ | √ | √ |
| 5/11/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/11/2021 | LSE 5 | 1,494.7 | 2,445.3 | 19.2 | 0.00 | √ | √ | √ | √ |
| 5/11/2021 | LSE 6 | 7,187.5 | 14,136.9 | 166.5 | 0.00 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 5/11/2021 | √ | √ | √ | 299.0 | 162,005,065 | 30.7 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 5/18/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/18/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/18/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/18/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/18/2021 | LSE 2 | 2,819.4 | 2,925.6 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/18/2021 | LSE 3 | 7,019.0 | 15,554.3 | 168.5 | 0.00 | √ | √ | √ | √ |
| 5/18/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/18/2021 | LSE 5 | 1,494.7 | 2,445.3 | 0.0 | 0.00 | √ | √ | √ | √ |
| 5/18/2021 | LSE 6 | 7,187.5 | 14,305.2 | 168.3 | 0.00 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 5/18/2021 | √ | √ | √ | 336.8 | 162,519,884 | 25.5 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 5/25/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | 5.29 | √ | √ | √ | √ |
| 5/25/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | 5.41 | √ | √ | √ | √ |
| 5/25/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | 5.26 | √ | √ | √ | √ |
| 5/25/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 2.92 | √ | √ | √ | √ |
| 5/25/2021 | LSE 2 | 2,856.6 | 2,964.2 | 75.8 | 2.82 | √ | √ | √ | √ |
| 5/25/2021 | LSE 3 | 7,039.8 | 15,622.5 | 89.0 | 2.69 | √ | √ | √ | √ |
| 5/25/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 2.81 | √ | √ | √ | √ |
| 5/25/2021 | LSE 5 | 1,494.7 | 2,445.3 | 0.0 | 2.92 | √ | √ | √ | √ |
| 5/25/2021 | LSE 6 | 7,227.6 | 14,432.4 | 167.3 | 3.32 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 5/25/2021 | √ | √ | √ | 332.1 | 162,904,536 | 19.3 | √ | √ | √ |

**Monthly Totals**

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| May 2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | -- | √ | √ | √ | √ |
| May 2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | -- | √ | √ | √ | √ |
| May 2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | -- | √ | √ | √ | √ |
| May 2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| May 2021 | LSE 2 | 2,856.6 | 2,964.2 | 104.4 | -- | √ | √ | √ | √ |
| May 2021 | LSE 3 | 7,039.8 | 15,622.5 | 524.0 | -- | √ | √ | √ | √ |
| May 2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| May 2021 | LSE 5 | 1,494.7 | 2,445.3 | 74.4 | -- | √ | √ | √ | √ |
| May 2021 | LSE 6 | 7,227.6 | 14,432.4 | 695.9 | -- | √ | √ | √ | √ |

| Inspection Month | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Monthly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| May 2021 | √ | √ | √ | 1398.7 | 162,904,536 | 25.9 | √ | √ | √ |

# FORM LMS-2
## SEMI - ANNUAL INSPECTION CHECKLIST
## LEACHATE MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## MAY 2021

**Date: Decemebr 12, 2019** | **Inspected By: J. Battista / T McCoy**

| INSPECTION TASK | SUMP NUMBER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|
| | LSE1 | LSE2 | LSE3 | LSE4 | LSE5 | LSE6 | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| | LSW1 | LSW2 | LSW3 | | | | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | | | | 9/5/2019 (Advantech) |

**Comments:** All sumps were pumped down to the lowest achievable elevation to examine the interior conditions.

Semi annual inspection items on hold pending leachate pump investigation.

**FORM LMS-3**
**ANNUAL INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**MAY 2021**

| **Date: December 31, 2019** | | | **Inspected By: J. Battista / T McCoy** | | | | |
|---|---|---|---|---|---|---|---|
| **INSPECTION TASK** | **SUMP NUMBER** | | | | | | **REMARKS** |
| | **LSE1** | **LSE2** | **LSE3** | **LSE4** | **LSE5** | **LSE6** | **NYC BWT** |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| **Comments: December 23, 2019 - Flushed system (Previously Novemebr 26th and 27th 2019) NYCBWT provided sewer jet to unclog iron oxide buildup** | | | | | | | |
| ***every 8000 hours or two years** | | | | | | | |
| Annual inspection items on hold pending leachate pump investigation. | | | | | | | |

**FORM DP-1**
**LEACHATE MANAGEMENT SYSTEM**
**MAY 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 5/1/21 - 5/31/21 | LSW-1, LSW-2, LSW-3 | Pumps were not shutting off automatically | Turned pumps off. Running manually |
| | | | |
| | | | |
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| | | | |

**Date: 5/25/21**

**Inspected By: R. Bowden**

**Signature:** RC Bowden

**FORM LMS-1**
**INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**JUNE 2021**

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 6/10/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/10/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/10/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/10/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/10/2021 | LSE 2 | 2,872.9 | 2,964.2 | 16.3 | 0.00 | √ | √ | √ | √ |
| 6/10/2021 | LSE 3 | 7,052.2 | 15,932.3 | 322.2 | 0.00 | √ | √ | √ | √ |
| 6/10/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/10/2021 | LSE 5 | 1,565.0 | 2,445.3 | 70.3 | 0.00 | √ | √ | √ | √ |
| 6/10/2021 | LSE 6 | 7,227.6 | 14,817.6 | 385.2 | 0.00 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 6/10/2021 | √ | √ | √ | 794.0 | 164,124,188 | 25.6 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 6/15/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/15/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/15/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/15/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/15/2021 | LSE 2 | 2,872.9 | 2,964.2 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/15/2021 | LSE 3 | 7,052.2 | 16,052.3 | 120.0 | 0.00 | √ | √ | √ | √ |
| 6/15/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/15/2021 | LSE 5 | 1,565.0 | 2,510.7 | 65.4 | 0.00 | √ | √ | √ | √ |
| 6/15/2021 | LSE 6 | 7,227.6 | 14,937.5 | 119.9 | 0.00 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 6/15/2021 | √ | √ | √ | 305.3 | 164,770,070 | 35.3 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 6/22/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/22/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/22/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/22/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/22/2021 | LSE 2 | 2,872.9 | 2,964.2 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/22/2021 | LSE 3 | 7,071.8 | 16,142.7 | 110.0 | 0.00 | √ | √ | √ | √ |
| 6/22/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/22/2021 | LSE 5 | 1,565.0 | 2,510.7 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/22/2021 | LSE 6 | 7,236.2 | 15,095.5 | 166.6 | 0.00 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 6/22/2021 | √ | √ | √ | 276.6 | 165,316,584 | 32.9 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 6/29/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/29/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/29/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/29/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/29/2021 | LSE 2 | 2,919.2 | 3,030.1 | 112.2 | 0.00 | √ | √ | √ | √ |
| 6/29/2021 | LSE 3 | 7,071.8 | 16,310.2 | 167.5 | 0.00 | √ | √ | √ | √ |
| 6/29/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/29/2021 | LSE 5 | 1,565.0 | 2,510.7 | 0.0 | 0.00 | √ | √ | √ | √ |
| 6/29/2021 | LSE 6 | 7,246.7 | 15,253.0 | 168.0 | 0.00 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 6/29/2021 | √ | √ | √ | 447.7 | 165,798,152 | 17.9 | √ | √ | √ |

**Monthly Totals**

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| June 2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | -- | √ | √ | √ | √ |
| June 2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | -- | √ | √ | √ | √ |
| June 2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | -- | √ | √ | √ | √ |
| June 2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| June 2021 | LSE 2 | 2,919.2 | 3,030.1 | 128.5 | -- | √ | √ | √ | √ |
| June 2021 | LSE 3 | 7,071.8 | 16,310.2 | 719.7 | -- | √ | √ | √ | √ |
| June 2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| June 2021 | LSE 5 | 1,565.0 | 2,510.7 | 135.7 | -- | √ | √ | √ | √ |
| June 2021 | LSE 6 | 7,246.7 | 15,253.0 | 839.7 | -- | √ | √ | √ | √ |

| Inspection Month | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Monthly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| June 2021 | √ | √ | √ | 1823.6 | 165,798,152 | 26.4 | √ | √ | √ |

# FORM LMS-2
## SEMI - ANNUAL INSPECTION CHECKLIST
## LEACHATE MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## JUNE 2021

**Date: Decemeber 12, 2019** | **Inspected By: J. Battista / T McCoy**

| INSPECTION TASK | SUMP NUMBER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|
| | LSE1 | LSE2 | LSE3 | LSE4 | LSE5 | LSE6 | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| | LSW1 | LSW2 | LSW3 | | | | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | | | | 9/5/2019 (Advantech) |

**Comments:** All sumps were pumped down to the lowest achievable elevation to examine the interior conditions.

Semi annual inspection items on hold pending leachate pump investigation.

**FORM LMS-3**
**ANNUAL INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**JUNE 2021**

| **Date: December 31, 2019** | | | **Inspected By: J. Battista / T McCoy** | | | | |
|---|---|---|---|---|---|---|---|
| **INSPECTION TASK** | **SUMP NUMBER** | | | | | | **REMARKS** |
| | **LSE1** | **LSE2** | **LSE3** | **LSE4** | **LSE5** | **LSE6** | **NYC BWT** |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| **Comments: December 23, 2019 - Flushed system (Previously Novemebr 26th and 27th 2019) NYCBWT provided sewer jet to unclog iron oxide buildup** | | | | | | | |
| ***every 8000 hours or two years** | | | | | | | |
| Annual inspection items on hold pending leachate pump investigation. | | | | | | | |
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**FORM DP-1**
**LEACHATE MANAGEMENT SYSTEM**
**JUNE 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 5/1/21 - 5/31/21 | LSW-1, LSW-2, LSW-3 | Pumps were not shutting off automatically | Turned pumps off. Running manually |
| 4/12/21 | Eastern Oil/Water Separator | Standing stormwater observed in vault | TRC completed stormwater removal on 4/12/21. |
| 4/19/21 | Western Oil/Water Separator | Standing stormwater observed in vault | TRC completed stormwater removal on 4/19/21. |
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**Date: 6/29/21**

**Inspected By: R. Bowden**

**Signature:** RC Bowden

**FORM LMS-1**
**INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**JULY 2021**

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| June 2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | -- | √ | √ | √ | √ |
| June 2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | -- | √ | √ | √ | √ |
| June 2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | -- | √ | √ | √ | √ |
| June 2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| June 2021 | LSE 2 | 2,919.2 | 3,030.1 | 128.5 | -- | √ | √ | √ | √ |
| June 2021 | LSE 3 | 7,071.8 | 16,310.2 | 719.7 | -- | √ | √ | √ | √ |
| June 2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| June 2021 | LSE 5 | 1,565.0 | 2,510.7 | 135.7 | -- | √ | √ | √ | √ |
| June 2021 | LSE 6 | 7,246.7 | 15,253.0 | 839.7 | -- | √ | √ | √ | √ |
| **Inspection Month** | **Oil Water Separator 1** | **Oil Water Separator 2** | **Parshall Flume** | **Monthly Sump Runtime (hrs)** | **Totalizer (Gallons)** | **Totalizer (GPM)** | **Cabinet Lights** | **Drain Piping** | **HOA Switches** |
| June 2021 | √ | √ | √ | 1823.6 | 162,904,536 | 19.8 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 7/9/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | -- | √ | √ | √ | √ |
| 7/9/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | -- | √ | √ | √ | √ |
| 7/9/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | -- | √ | √ | √ | √ |
| 7/9/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 7/9/2021 | LSE 2 | 2,933.0 | 3,056.9 | 40.6 | -- | √ | √ | √ | √ |
| 7/9/2021 | LSE 3 | 7,071.8 | 16,552.6 | 242.4 | -- | √ | √ | √ | √ |
| 7/9/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 7/9/2021 | LSE 5 | 1,624.8 | 2,510.1 | 59.2 | -- | √ | √ | √ | √ |
| 7/9/2021 | LSE 6 | 7,296.9 | 15,495.3 | 292.5 | -- | √ | √ | √ | √ |
| **Inspection Date** | **Oil Water Separator 1** | **Oil Water Separator 2** | **Parshall Flume** | **Weekly Sump Runtime (hrs)** | **Totalizer (Gallons)** | **Totalizer (GPM)** | **Cabinet Lights** | **Drain Piping** | **HOA Switches** |
| 7/9/2021 | √ | √ | √ | 634.7 | 166,394,220 | 91.6 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 7/12/2021 | LSW 1 | 10,419.1 | 10,261.5 | 0.0 | -- | √ | √ | √ | √ |
| 7/12/2021 | LSW 2 | 5,756.2 | 5,923.4 | 0.0 | -- | √ | √ | √ | √ |
| 7/12/2021 | LSW 3 | 9,466.6 | 10,163.4 | 0.0 | -- | √ | √ | √ | √ |
| 7/12/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 7/12/2021 | LSE 2 | 2,947.2 | 3,056.9 | 14.2 | -- | √ | √ | √ | √ |
| 7/12/2021 | LSE 3 | 7,071.8 | 16,622.6 | 70.0 | -- | √ | √ | √ | √ |
| 7/12/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 7/12/2021 | LSE 5 | 1,624.8 | 2,510.7 | 0.6 | -- | √ | √ | √ | √ |
| 7/12/2021 | LSE 6 | 7,251.2 | 15,560.3 | 19.3 | -- | √ | √ | √ | √ |
| **Inspection Date** | **Oil Water Separator 1** | **Oil Water Separator 2** | **Parshall Flume** | **Weekly Sump Runtime (hrs)** | **Totalizer (Gallons)** | **Totalizer (GPM)** | **Cabinet Lights** | **Drain Piping** | **HOA Switches** |
| 7/12/2021 | √ | √ | √ | 104.1 | 166,487,564 | 14.9 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 7/19/2021 | LSW 1 | 10,419.1 | 10,386.6 | 125.1 | -- | √ | √ | √ | √ |
| 7/19/2021 | LSW 2 | 5,756.2 | 6,091.3 | 167.9 | -- | √ | √ | √ | √ |
| 7/19/2021 | LSW 3 | 9,466.6 | 10,331.4 | 168.0 | -- | √ | √ | √ | √ |
| 7/19/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 7/19/2021 | LSE 2 | 2,959.3 | 3,069.4 | 24.6 | -- | √ | √ | √ | √ |
| 7/19/2021 | LSE 3 | 7,071.8 | 16,791.0 | 168.4 | -- | √ | √ | √ | √ |
| 7/19/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 7/19/2021 | LSE 5 | 1,624.8 | 2,510.7 | 0.0 | -- | √ | √ | √ | √ |
| 7/19/2021 | LSE 6 | 7,251.2 | 15,728.9 | 168.6 | -- | √ | √ | √ | √ |
| **Inspection Date** | **Oil Water Separator 1** | **Oil Water Separator 2** | **Parshall Flume** | **Weekly Sump Runtime (hrs)** | **Totalizer (Gallons)** | **Totalizer (GPM)** | **Cabinet Lights** | **Drain Piping** | **HOA Switches** |
| 7/19/2021 | √ | √ | √ | 822.6 | 166,730,380 | 4.9 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 7/26/2021 | LSW 1 | 10,419.1 | 10,386.6 | 0.0 | 5.50 | √ | √ | √ | √ |
| 7/26/2021 | LSW 2 | 5,756.2 | 6,091.3 | 0.0 | 5.71 | √ | √ | √ | √ |
| 7/26/2021 | LSW 3 | 9,466.6 | 10,331.4 | 0.0 | 5.49 | √ | √ | √ | √ |
| 7/26/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 3.10 | √ | √ | √ | √ |
| 7/26/2021 | LSE 2 | 2,959.3 | 3,069.4 | 0.0 | 2.58 | √ | √ | √ | √ |
| 7/26/2021 | LSE 3 | 7,109.1 | 16,817.7 | 64.0 | 5.19 | √ | √ | √ | √ |
| 7/26/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 2.29 | √ | √ | √ | √ |
| 7/26/2021 | LSE 5 | 1,624.8 | 2,510.7 | 0.0 | 2.78 | √ | √ | √ | √ |
| 7/26/2021 | LSE 6 | 7,298.8 | 15,848.4 | 167.1 | 3.18 | √ | √ | √ | √ |
| **Inspection Date** | **Oil Water Separator 1** | **Oil Water Separator 2** | **Parshall Flume** | **Weekly Sump Runtime (hrs)** | **Totalizer (Gallons)** | **Totalizer (GPM)** | **Cabinet Lights** | **Drain Piping** | **HOA Switches** |
| 7/26/2021 | √ | √ | √ | 231.1 | 167,203,286 | 34.1 | √ | √ | √ |

**Monthly Totals**

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| July 2021 | LSW 1 | 10,419.1 | 10,386.6 | 125.1 | -- | √ | √ | √ | √ |
| July 2021 | LSW 2 | 5,756.2 | 6,091.3 | 167.9 | -- | √ | √ | √ | √ |
| July 2021 | LSW 3 | 9,466.6 | 10,331.4 | 168.0 | -- | √ | √ | √ | √ |
| July 2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| July 2021 | LSE 2 | 2,959.3 | 3,069.4 | 79.4 | -- | √ | √ | √ | √ |
| July 2021 | LSE 3 | 7,109.1 | 16,817.7 | 544.8 | -- | √ | √ | √ | √ |
| July 2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| July 2021 | LSE 5 | 1,624.8 | 2,510.7 | 59.8 | -- | √ | √ | √ | √ |
| July 2021 | LSE 6 | 7,298.8 | 15,848.4 | 647.5 | -- | √ | √ | √ | √ |
| **Inspection Month** | **Oil Water Separator 1** | **Oil Water Separator 2** | **Parshall Flume** | **Monthly Sump Runtime (hrs)** | **Totalizer (Gallons)** | **Totalizer (GPM)** | **Cabinet Lights** | **Drain Piping** | **HOA Switches** |
| July 2021 | √ | √ | √ | 1792.5 | 167,203,286 | 40.0 | √ | √ | √ |

# FORM LMS-2
## SEMI - ANNUAL INSPECTION CHECKLIST
## LEACHATE MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## JULY 2021

**Date: Decemebr 12, 2019** | **Inspected By: J. Battista / T McCoy**

| INSPECTION TASK | SUMP NUMBER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|
| | LSE1 | LSE2 | LSE3 | LSE4 | LSE5 | LSE6 | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| | LSW1 | LSW2 | LSW3 | | | | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | | | | 9/5/2019 (Advantech) |

**Comments:** All sumps were pumped down to the lowest achievable elevation to examine the interior conditions.

Semi annual inspection items on hold pending leachate pump investigation.

**FORM LMS-3**
**ANNUAL INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**JULY 2021**

| **Date: December 31, 2019** | | | **Inspected By: J. Battista / T McCoy** | | | | |
|---|---|---|---|---|---|---|---|
| **INSPECTION TASK** | **SUMP NUMBER** | | | | | | **REMARKS** |
| | **LSE1** | **LSE2** | **LSE3** | **LSE4** | **LSE5** | **LSE6** | **NYC BWT** |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| **Comments: December 23, 2019 - Flushed system (Previously Novemebr 26th and 27th 2019) NYCBWT provided sewer jet to unclog iron oxide buildup** | | | | | | | |
| ***every 8000 hours or two years** | | | | | | | |
| Annual inspection items on hold pending leachate pump investigation. | | | | | | | |
| | | | | | | | |

# FORM DP-1
## LEACHATE MANAGEMENT SYSTEM
## JULY 2021
## DESCRIPTION OF DEFICIENCIES AND PROBLEMS
## BROOKFIELD AVENUE LANDFILL

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 5/1/21 - 5/31/21 | LSW-1, LSW-2, LSW-3 | Pumps were not shutting off automatically | Turned pumps off. Running manually |
| 4/12/21 | Eastern Oil/Water Separator | Standing stormwater observed in vault | TRC completed stormwater removal on 4/12/21. |
| 4/19/21 | Western Oil/Water Separator | Standing stormwater observed in vault | TRC completed stormwater removal on 4/19/21. |
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**Date:** 7/28/21

**Inspected By:** R. Bowden

**Signature:** RC Bowden

**FORM LMS-1**
**INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**AUGUST 2021**

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 8/3/2021 | LSW 1 | 10,419.1 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 8/3/2021 | LSW 2 | 5,756.2 | 6,091.3 | 0.0 | -- | √ | √ | √ | √ |
| 8/3/2021 | LSW 3 | 9,466.6 | 10,331.4 | 0.0 | -- | √ | √ | √ | √ |
| 8/3/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 8/3/2021 | LSE 2 | 2,959.3 | 3,081.3 | 11.9 | -- | √ | √ | √ | √ |
| 8/3/2021 | LSE 3 | 7,124.3 | 16,936.0 | 133.5 | -- | √ | √ | √ | √ |
| 8/3/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 8/3/2021 | LSE 5 | 1,624.8 | 2,510.7 | 0.0 | -- | √ | √ | √ | √ |
| 8/3/2021 | LSE 6 | 7,314.3 | 16,024.4 | 191.5 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 8/3/2021 | √ | √ | √ | 336.9 | 166,394,220 | 172.6 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 8/12/2021 | LSW 1 | 10,419.1 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 8/12/2021 | LSW 2 | 5,756.2 | 6,091.3 | 0.0 | -- | √ | √ | √ | √ |
| 8/12/2021 | LSW 3 | 9,466.6 | 10,331.4 | 0.0 | -- | √ | √ | √ | √ |
| 8/12/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 8/12/2021 | LSE 2 | 2,959.3 | 3,081.3 | 0.0 | -- | √ | √ | √ | √ |
| 8/12/2021 | LSE 3 | 7,124.3 | 17,153.1 | 217.1 | -- | √ | √ | √ | √ |
| 8/12/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 8/12/2021 | LSE 5 | 1,624.8 | 2,510.7 | 0.0 | -- | √ | √ | √ | √ |
| 8/12/2021 | LSE 6 | 7,314.3 | 16,242.4 | 218.0 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 8/12/2021 | √ | √ | √ | 435.1 | 166,487,564 | 3.6 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 8/19/2021 | LSW 1 | 10,419.1 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 8/19/2021 | LSW 2 | 5,756.2 | 6,091.3 | 0.0 | -- | √ | √ | √ | √ |
| 8/19/2021 | LSW 3 | 9,466.6 | 10,331.4 | 0.0 | -- | √ | √ | √ | √ |
| 8/19/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 8/19/2021 | LSE 2 | 2,959.3 | 3,081.3 | 0.0 | -- | √ | √ | √ | √ |
| 8/19/2021 | LSE 3 | 7,149.5 | 17,175.4 | 47.5 | -- | √ | √ | √ | √ |
| 8/19/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 8/19/2021 | LSE 5 | 1,624.8 | 2,563.1 | 52.4 | -- | √ | √ | √ | √ |
| 8/19/2021 | LSE 6 | 7,529.0 | 16,394.2 | 366.5 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 7/19/2021 | √ | √ | √ | 466.4 | 166,730,380 | 8.7 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 8/24/2021 | LSW 1 | 10,419.1 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 8/24/2021 | LSW 2 | 5,756.2 | 6,091.3 | 0.0 | -- | √ | √ | √ | √ |
| 8/24/2021 | LSW 3 | 9,466.6 | 10,381.9 | 50.5 | -- | √ | √ | √ | √ |
| 8/24/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 8/24/2021 | LSE 2 | 2,998.7 | 3,110.0 | 68.1 | -- | √ | √ | √ | √ |
| 8/24/2021 | LSE 3 | 7,149.5 | 17,297.7 | 122.3 | -- | √ | √ | √ | √ |
| 8/24/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 8/24/2021 | LSE 5 | 1,624.8 | 2,563.1 | 0.0 | -- | √ | √ | √ | √ |
| 8/24/2021 | LSE 6 | 7,529.0 | 16,516.7 | 122.5 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 8/26/2021 | √ | √ | √ | 363.4 | 167,203,286 | 21.7 | √ | √ | √ |

**Monthly Totals**

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| August 2021 | LSW 1 | 10,419.1 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| August 2021 | LSW 2 | 5,756.2 | 6,091.3 | 0.0 | -- | √ | √ | √ | √ |
| August 2021 | LSW 3 | 9,466.6 | 10,381.9 | 50.5 | -- | √ | √ | √ | √ |
| August 2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| August 2021 | LSE 2 | 2,998.7 | 3,110.0 | 80.0 | -- | √ | √ | √ | √ |
| August 2021 | LSE 3 | 7,149.5 | 17,297.7 | 520.4 | -- | √ | √ | √ | √ |
| August 2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| August 2021 | LSE 5 | 1,624.8 | 2,563.1 | 52.4 | -- | √ | √ | √ | √ |
| August 2021 | LSE 6 | 7,529.0 | 16,516.7 | 898.5 | -- | √ | √ | √ | √ |

| Inspection Month | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Monthly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| August 2021 | √ | √ | √ | 1601.8 | 167,203,286 | 44.7 | √ | √ | √ |

# FORM LMS-2
## SEMI - ANNUAL INSPECTION CHECKLIST
## LEACHATE MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## AUGUST 2021

| **Date: Decemebr 12, 2019** | | | | **Inspected By: J. Battista / T McCoy** | | | |
|---|---|---|---|---|---|---|---|
| **INSPECTION TASK** | **SUMP NUMBER** | | | | | | **REMARKS** |
| | **LSE1** | **LSE2** | **LSE3** | **LSE4** | **LSE5** | **LSE6** | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | | | | 9/5/2019 (Advantech) |

**Comments:** All sumps were pumped down to the lowest achievable elevation to examine the interior conditions.

Semi annual inspection items on hold pending leachate pump investigation.

**FORM LMS-3**
**ANNUAL INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**AUGUST 2021**

| **Date: December 31, 2019** | | | | | **Inspected By: J. Battista / T McCoy** | | |
|---|---|---|---|---|---|---|---|
| **INSPECTION TASK** | **SUMP NUMBER** | | | | | | **REMARKS** |
| | **LSE1** | **LSE2** | **LSE3** | **LSE4** | **LSE5** | **LSE6** | **NYC BWT** |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| **Comments: December 23, 2019 - Flushed system (Previously Novemebr 26th and 27th 2019) NYCBWT provided sewer jet to unclog iron oxide buildup** | | | | | | | |
| ***every 8000 hours or two years** | | | | | | | |
| Annual inspection items on hold pending leachate pump investigation. | | | | | | | |
| | | | | | | | |

**FORM DP-1**
**LEACHATE MANAGEMENT SYSTEM**
**AUGUST 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 5/1/21 - 5/31/21 | LSW-1, LSW-2, LSW-3 | Pumps were not shutting off automatically | Turned pumps off. Running manually |
| 4/12/21 | Eastern Oil/Water Separator | Standing stormwater observed in vault | TRC completed stormwater removal on 4/12/21. |
| 4/19/21 | Western Oil/Water Separator | Standing stormwater observed in vault | TRC completed stormwater removal on 4/19/21. |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Date: 8/30/2021**

**Inspected By: R. Bowden**

**Signature:** RC Bowden

**FORM LMS-1**
**INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**SEPTEMBER 2021**

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 9/6/2021 | LSW 1 | 10,419.1 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 9/6/2021 | LSW 2 | 5,756.2 | 6,091.3 | 0.0 | -- | √ | √ | √ | √ |
| 9/6/2021 | LSW 3 | 9,466.6 | 10,473.5 | 91.6 | -- | √ | √ | √ | √ |
| 9/6/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 9/6/2021 | LSE 2 | 3,035.6 | 3,135.9 | 62.8 | -- | √ | √ | √ | √ |
| 9/6/2021 | LSE 3 | 7,149.6 | 17,609.6 | 312.0 | -- | √ | √ | √ | √ |
| 9/6/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 9/6/2021 | LSE 5 | 1,624.8 | 2,611.5 | 48.4 | -- | √ | √ | √ | √ |
| 9/6/2021 | LSE 6 | 7,360.1 | 16,791.7 | 106.1 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 9/6/2021 | √ | √ | √ | 620.9 | 169,742,264 | 183.5 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 9/16/2021 | LSW 1 | 10,625.9 | 10,386.6 | 206.8 | -- | √ | √ | √ | √ |
| 9/16/2021 | LSW 2 | 5,994.4 | 6,091.3 | 238.2 | -- | √ | √ | √ | √ |
| 9/16/2021 | LSW 3 | 9,704.9 | 10,473.5 | 238.3 | -- | √ | √ | √ | √ |
| 9/16/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 9/16/2021 | LSE 2 | 3,053.5 | 3,152.6 | 34.6 | -- | √ | √ | √ | √ |
| 9/16/2021 | LSE 3 | 7,162.7 | 17,783.0 | 186.5 | -- | √ | √ | √ | √ |
| 9/16/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 9/16/2021 | LSE 5 | 1,681.3 | 2,611.5 | 56.5 | -- | √ | √ | √ | √ |
| 9/16/2021 | LSE 6 | 7,374.6 | 17,015.3 | 238.1 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 9/16/2021 | √ | √ | √ | 1199.0 | 170,172,744 | 6.0 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 9/23/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 9/23/2021 | LSW 2 | 5,994.4 | 6,091.3 | 0.0 | -- | √ | √ | √ | √ |
| 9/23/2021 | LSW 3 | 9,704.9 | 10,473.5 | 0.0 | -- | √ | √ | √ | √ |
| 9/23/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 9/23/2021 | LSE 2 | 3,085.8 | 3,152.6 | 32.3 | -- | √ | √ | √ | √ |
| 9/23/2021 | LSE 3 | 7,181.0 | 17,879.5 | 114.8 | -- | √ | √ | √ | √ |
| 9/23/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 9/23/2021 | LSE 5 | 1,682.3 | 2,611.5 | 1.0 | -- | √ | √ | √ | √ |
| 9/23/2021 | LSE 6 | 7,382.5 | 17,177.2 | 169.8 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 9/23/2021 | √ | √ | √ | 317.9 | 170,423,652 | 13.2 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 9/28/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 9/28/2021 | LSW 2 | 5,994.4 | 6,091.3 | 0.0 | -- | √ | √ | √ | √ |
| 9/28/2021 | LSW 3 | 9,704.9 | 10,473.5 | 0.0 | -- | √ | √ | √ | √ |
| 9/28/2021 | LSE 1 | NA | NA | NA | -- | √ | √ | √ | √ |
| 9/28/2021 | LSE 2 | 3,085.8 | 3,168.5 | 15.9 | -- | √ | √ | √ | √ |
| 9/28/2021 | LSE 3 | 7,195.6 | 17,928.2 | 63.3 | -- | √ | √ | √ | √ |
| 9/28/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 9/28/2021 | LSE 5 | 1,682.3 | 2,611.5 | 0.0 | -- | √ | √ | √ | √ |
| 9/28/2021 | LSE 6 | 7,382.5 | 17,298.3 | 121.1 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 9/28/2021 | √ | √ | √ | 200.3 | 170,534,104 | 9.2 | √ | √ | √ |

**Monthly Totals**

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| September 2021 | LSW 1 | 10,625.9 | 10,386.6 | 206.8 | 5.18 | √ | √ | √ | √ |
| September 2021 | LSW 2 | 5,994.4 | 6,091.3 | 238.2 | 5.54 | √ | √ | √ | √ |
| September 2021 | LSW 3 | 9,704.9 | 10,473.5 | 329.9 | 5.07 | √ | √ | √ | √ |
| September 2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 2.83 | √ | √ | √ | √ |
| September 2021 | LSE 2 | 3,085.8 | 3,168.5 | 145.6 | 2.34 | √ | √ | √ | √ |
| September 2021 | LSE 3 | 7,195.6 | 17,928.2 | 676.6 | 2.70 | √ | √ | √ | √ |
| September 2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 2.43 | √ | √ | √ | √ |
| September 2021 | LSE 5 | 1,682.3 | 2,611.5 | 105.9 | 2.61 | √ | √ | √ | √ |
| September 2021 | LSE 6 | 7,382.5 | 17,298.3 | 635.1 | 3.29 | √ | √ | √ | √ |

| Inspection Month | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Monthly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| September 2021 | √ | √ | √ | 2338.1 | 170,534,104 | 54.4 | √ | √ | √ |

**FORM LMS-3**
**ANNUAL INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**SEPTEMBER 2021**

| **Date: December 31, 2019** | | | **Inspected By: J. Battista / T McCoy** | | | | |
|---|---|---|---|---|---|---|---|
| **INSPECTION TASK** | **SUMP NUMBER** | | | | | | **REMARKS** |
| | **LSE1** | **LSE2** | **LSE3** | **LSE4** | **LSE5** | **LSE6** | **NYC BWT** |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| **Comments: December 23, 2019 - Flushed system (Previously Novemebr 26th and 27th 2019) NYCBWT provided sewer jet to unclog iron oxide buildup** | | | | | | | |
| ***every 8000 hours or two years** | | | | | | | |
| Annual inspection items on hold pending leachate pump investigation. | | | | | | | |
| | | | | | | | |

# FORM LMS-2
## SEMI - ANNUAL INSPECTION CHECKLIST
## LEACHATE MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## SEPTEMBER 2021

**Date: Decemebr 12, 2019** | **Inspected By: J. Battista / T McCoy**

| INSPECTION TASK | SUMP NUMBER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|
| | LSE1 | LSE2 | LSE3 | LSE4 | LSE5 | LSE6 | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| | LSW1 | LSW2 | LSW3 | | | | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | | | | 9/5/2019 (Advantech) |

**Comments:** All sumps were pumped down to the lowest achievable elevation to examine the interior conditions.

Semi annual inspection items on hold pending leachate pump investigation.

# FORM DP-1
## LEACHATE MANAGEMENT SYSTEM
## SEPTEMBER 2021
## DESCRIPTION OF DEFICIENCIES AND PROBLEMS
## BROOKFIELD AVENUE LANDFILL

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 9/1/21 - 9/30/21 | LSW-1, LSW-2, LSW-3 | Pumps were not shutting off automatically | Turned pumps off. Running manually |
| 9/6/21 | Eastern Oil/Water Separator | Standing stormwater observed in vault | TRC completed stormwater removal on 9/6/21. |
| 9/16/21 | Western Oil/Water Separator | Standing stormwater observed in vault | TRC completed stormwater removal on 9/16/21. |
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**Date: 9/27/2021**

**Inspected By: R. Bowden**

**Signature:** RC Bowden

**FORM LMS-1**
**INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**OCTOBER 2021**

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 10/8/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 10/8/2021 | LSW 2 | 5,994.4 | 6,091.3 | 0.0 | -- | √ | √ | √ | √ |
| 10/8/2021 | LSW 3 | 9,704.9 | 10,473.5 | 0.0 | -- | √ | √ | √ | √ |
| 10/8/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 10/8/2021 | LSE 2 | 3,085.8 | 3,168.5 | 0.0 | -- | √ | √ | √ | √ |
| 10/8/2021 | LSE 3 | 7,195.6 | 18,168.2 | 240.0 | -- | √ | √ | √ | √ |
| 10/8/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 10/8/2021 | LSE 5 | 1,682.3 | 2,611.5 | 0.0 | -- | √ | √ | √ | √ |
| 10/8/2021 | LSE 6 | 7,382.5 | 17,538.1 | 239.8 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 10/8/2021 | √ | √ | √ | 479.8 | 170,974,672 | 15.3 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 10/12/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 10/12/2021 | LSW 2 | 5,994.4 | 6,091.3 | 0.0 | -- | √ | √ | √ | √ |
| 10/12/2021 | LSW 3 | 9,704.9 | 10,473.5 | 0.0 | -- | √ | √ | √ | √ |
| 10/12/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 10/12/2021 | LSE 2 | 3,115.0 | 3,195.6 | 56.3 | -- | √ | √ | √ | √ |
| 10/12/2021 | LSE 3 | 7,195.6 | 18,261.7 | 93.5 | -- | √ | √ | √ | √ |
| 10/12/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 10/12/2021 | LSE 5 | 1,740.4 | 2,611.5 | 58.1 | -- | √ | √ | √ | √ |
| 10/12/2021 | LSE 6 | 7,382.5 | 17,631.8 | 93.7 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 10/12/2021 | √ | √ | √ | 301.6 | 171,117,640 | 32.2 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 10/18/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 10/18/2021 | LSW 2 | 5,994.4 | 6,091.3 | 0.0 | -- | √ | √ | √ | √ |
| 10/18/2021 | LSW 3 | 9,704.9 | 10,473.5 | 0.0 | -- | √ | √ | √ | √ |
| 10/18/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 10/18/2021 | LSE 2 | 3,129.0 | 3,207.8 | 26.2 | -- | √ | √ | √ | √ |
| 10/18/2021 | LSE 3 | 7,195.6 | 18,408.0 | 146.3 | -- | √ | √ | √ | √ |
| 10/18/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 10/18/2021 | LSE 5 | 1,740.4 | 2,611.5 | 0.0 | -- | √ | √ | √ | √ |
| 10/18/2021 | LSE 6 | 7,393.6 | 17,766.8 | 146.1 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| | √ | √ | √ | 318.6 | 171,320,200 | 10.6 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 10/29/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 10/29/2021 | LSW 2 | 5,994.4 | 6,091.3 | 0.0 | -- | √ | √ | √ | √ |
| 10/29/2021 | LSW 3 | 9,704.9 | 10,473.5 | 0.0 | -- | √ | √ | √ | √ |
| 10/29/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 10/29/2021 | LSE 2 | 3,153.8 | 3,224.1 | 41.1 | -- | √ | √ | √ | √ |
| 10/29/2021 | LSE 3 | 7,206.5 | 18,606.5 | 209.4 | -- | √ | √ | √ | √ |
| 10/29/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 10/29/2021 | LSE 5 | 1,740.4 | 2,672.2 | 60.7 | -- | √ | √ | √ | √ |
| 10/29/2021 | LSE 6 | 7,393.6 | 18,031.3 | 264.5 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 10/8/2021 | √ | √ | √ | 575.7 | 171,750,720 | 12.5 | √ | √ | √ |

**Monthly Totals**

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| October 2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | 5.32 | √ | √ | √ | √ |
| October 2021 | LSW 2 | 5,994.4 | 6,091.3 | 0.0 | 5.55 | √ | √ | √ | √ |
| October 2021 | LSW 3 | 9,704.9 | 10,473.5 | 0.0 | 5.27 | √ | √ | √ | √ |
| October 2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 2.95 | √ | √ | √ | √ |
| October 2021 | LSE 2 | 3,153.8 | 3,224.1 | 123.6 | 2.58 | √ | √ | √ | √ |
| October 2021 | LSE 3 | 7,206.5 | 18,606.5 | 689.2 | 3.53 | √ | √ | √ | √ |
| October 2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 2.51 | √ | √ | √ | √ |
| October 2021 | LSE 5 | 1,740.4 | 2,672.2 | 118.8 | 2.77 | √ | √ | √ | √ |
| October 2021 | LSE 6 | 7,393.6 | 18,031.3 | 744.1 | 3.26 | √ | √ | √ | √ |

| Inspection Month | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Monthly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| October 2021 | √ | √ | √ | 1675.7 | 171,750,720 | 12.1 | √ | √ | √ |

# FORM LMS-2
## SEMI - ANNUAL INSPECTION CHECKLIST
## LEACHATE MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## OCTOBER 2021

**Date: Decemebr 12, 2019** | **Inspected By: J. Battista / T McCoy**

| INSPECTION TASK | SUMP NUMBER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|
| | LSE1 | LSE2 | LSE3 | LSE4 | LSE5 | LSE6 | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| | LSW1 | LSW2 | LSW3 | | | | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | | | | 9/5/2019 (Advantech) |

**Comments:** All sumps were pumped down to the lowest achievable elevation to examine the interior conditions.

Semi annual inspection items on hold pending leachate pump investigation.

**FORM LMS-3**
**ANNUAL INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**OCTOBER 2021**

| **Date: December 31, 2019** | | | **Inspected By: J. Battista / T McCoy** | | | | |
|---|---|---|---|---|---|---|---|
| **INSPECTION TASK** | **SUMP NUMBER** | | | | | | **REMARKS** |
| | **LSE1** | **LSE2** | **LSE3** | **LSE4** | **LSE5** | **LSE6** | **NYC BWT** |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| **Comments: December 23, 2019 - Flushed system (Previously Novemebr 26th and 27th 2019) NYCBWT provided sewer jet to unclog iron oxide buildup** | | | | | | | |
| ***every 8000 hours or two years** | | | | | | | |
| Annual inspection items on hold pending leachate pump investigation. | | | | | | | |
| | | | | | | | |

**FORM DP-1**
**LEACHATE MANAGEMENT SYSTEM**
**OCTOBER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 10/1/21 - 10/31/21 | LSW-1, LSW-2, LSW-3 | Pumps were not shutting off automatically | Turned pumps off. Running manually |
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**Date: 10/29/21**

**Inspected By: R. Bowden**

**Signature:** RC Bowden

**FORM LMS-1**
**INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**NOVEMBER 2021**

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 11/5/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.00 | -- | √ | √ | √ | √ |
| 11/5/2021 | LSW 2 | 5,994.4 | 6,091.3 | 0.00 | -- | √ | √ | √ | √ |
| 11/5/2021 | LSW 3 | 9,704.9 | 10,473.5 | 0.00 | -- | √ | √ | √ | √ |
| 11/5/2021 | LSE 1 | 543.3 | 520.3 | 0.00 | -- | √ | √ | √ | √ |
| 11/5/2021 | LSE 2 | 3,167.8 | 3,236.8 | 26.70 | -- | √ | √ | √ | √ |
| 11/5/2021 | LSE 3 | 7,206.5 | 18,774.5 | 168.00 | -- | √ | √ | √ | √ |
| 11/5/2021 | LSE 4 | 180.1 | 222.9 | 0.00 | -- | √ | √ | √ | √ |
| 11/5/2021 | LSE 5 | 1,740.4 | 2,672.2 | 0.00 | -- | √ | √ | √ | √ |
| 11/5/2021 | LSE 6 | 7,393.6 | 18199.30 | 168.00 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 11/9/2021 | √ | √ | √ | 362.7 | 171,885,024 | 6.2 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 11/9/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 11/9/2021 | LSW 2 | 5,994.4 | 6,188.3 | 97.0 | -- | √ | √ | √ | √ |
| 11/9/2021 | LSW 3 | 9,704.9 | 10,570.6 | 97.1 | -- | √ | √ | √ | √ |
| 11/9/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 11/9/2021 | LSE 2 | 3,167.8 | 3,248.9 | 12.1 | -- | √ | √ | √ | √ |
| 11/9/2021 | LSE 3 | 7,206.5 | 18,871.4 | 96.9 | -- | √ | √ | √ | √ |
| 11/9/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 11/9/2021 | LSE 5 | 1,759.5 | 2,672.2 | 19.1 | -- | √ | √ | √ | √ |
| 11/9/2021 | LSE 6 | 7,393.6 | 18,296.3 | 97.0 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 11/9/2021 | √ | √ | √ | 419.2 | 172,028,816 | 5.7 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 11/17/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 11/17/2021 | LSW 2 | 5,994.4 | 6,188.3 | 0.0 | -- | √ | √ | √ | √ |
| 11/17/2021 | LSW 3 | 9,704.9 | 10,570.6 | 0.0 | -- | √ | √ | √ | √ |
| 11/17/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 11/17/2021 | LSE 2 | 3,180.3 | 3,258.3 | 21.9 | -- | √ | √ | √ | √ |
| 11/17/2021 | LSE 3 | 7,225.2 | 18,998.8 | 146.1 | -- | √ | √ | √ | √ |
| 11/17/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 11/17/2021 | LSE 5 | 1,794.1 | 2,672.2 | 34.6 | -- | √ | √ | √ | √ |
| 11/17/2021 | LSE 6 | 7,412.8 | 18,468.1 | 191.0 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 11/17/2021 | √ | √ | √ | 393.6 | 172,324,424 | 12.5 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 11/22/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 11/22/2021 | LSW 2 | 5,994.4 | 6,188.3 | 0.0 | -- | √ | √ | √ | √ |
| 11/22/2021 | LSW 3 | 9,704.9 | 10,570.6 | 0.0 | -- | √ | √ | √ | √ |
| 11/22/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 11/22/2021 | LSE 2 | 3,191.3 | 3,261.5 | 14.2 | -- | √ | √ | √ | √ |
| 11/22/2021 | LSE 3 | 7,225.2 | 19,118.5 | 119.7 | -- | √ | √ | √ | √ |
| 11/22/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 11/22/2021 | LSE 5 | 1,794.1 | 2,672.2 | 0.0 | -- | √ | √ | √ | √ |
| 11/22/2021 | LSE 6 | 7,412.8 | 18,587.8 | 119.7 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 11/22/2021 | √ | √ | √ | 253.6 | 172,390,424 | 4.3 | √ | √ | √ |

**Monthly Totals**

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| November 2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | 5.32 | √ | √ | √ | √ |
| November 2021 | LSW 2 | 5,994.4 | 6,188.3 | 97.0 | 5.55 | √ | √ | √ | √ |
| November 2021 | LSW 3 | 9,704.9 | 10,570.6 | 97.1 | 5.27 | √ | √ | √ | √ |
| November 2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 2.95 | √ | √ | √ | √ |
| November 2021 | LSE 2 | 3,191.3 | 3,261.5 | 74.9 | 2.58 | √ | √ | √ | √ |
| November 2021 | LSE 3 | 7,225.2 | 19,118.5 | 530.7 | 3.53 | √ | √ | √ | √ |
| November 2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 2.51 | √ | √ | √ | √ |
| November 2021 | LSE 5 | 1,794.1 | 2,672.2 | 53.7 | 2.77 | √ | √ | √ | √ |
| November 2021 | LSE 6 | 7,412.8 | 18,587.8 | 575.7 | 3.26 | √ | √ | √ | √ |

| Inspection Month | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Monthly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| November 2021 | √ | √ | √ | 1429.1 | 172,390,424 | 7.5 | √ | √ | √ |

# FORM LMS-2
## SEMI - ANNUAL INSPECTION CHECKLIST
## LEACHATE MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## NOVEMBER 2021

**Date: December 12, 2019** | **Inspected By: J. Battista / T McCoy**

| INSPECTION TASK | SUMP NUMBER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|
| | LSE1 | LSE2 | LSE3 | LSE4 | LSE5 | LSE6 | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| | LSW1 | LSW2 | LSW3 | | | | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | | | | 9/5/2019 (Advantech) |

**Comments:** All sumps were pumped down to the lowest achievable elevation to examine the interior conditions.

Semi annual inspection items on hold pending leachate pump investigation.

**FORM LMS-3**
**ANNUAL INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**NOVEMBER 2021**

| **Date: December 31, 2019** | | | **Inspected By: J. Battista / T McCoy** | | | | |
|---|---|---|---|---|---|---|---|
| **INSPECTION TASK** | **SUMP NUMBER** | | | | | | **REMARKS** |
| | **LSE1** | **LSE2** | **LSE3** | **LSE4** | **LSE5** | **LSE6** | **NYC BWT** |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| **Comments: December 23, 2019 - Flushed system (Previously Novemebr 26th and 27th 2019) NYCBWT provided sewer jet to unclog iron oxide buildup** | | | | | | | |
| ***every 8000 hours or two years** | | | | | | | |
| Annual inspection items on hold pending leachate pump investigation. | | | | | | | |
| | | | | | | | |

**FORM DP-1**
**LEACHATE MANAGEMENT SYSTEM**
**NOVEMBER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 11/1/21 - 11/30/21 | LSW-1, LSW-2, LSW-3 | Pumps were not shutting off automatically | Turned pumps off. Running manually |
| | | | |
| | | | |
| | | | |
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| | | | |

**Date: 11/29/21**

**Inspected By: R. Bowden**

**Signature:** RC Bowden

**FORM LMS-1**
**INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**DECEMBER 2021**

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 12/2/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 12/2/2021 | LSW 2 | 6,237.5 | 6,188.3 | 243.1 | -- | √ | √ | √ | √ |
| 12/2/2021 | LSW 3 | 9,947.8 | 10,570.6 | 242.9 | -- | √ | √ | √ | √ |
| 12/2/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 12/2/2021 | LSE 2 | 3,206.5 | 3,288.6 | 42.3 | -- | √ | √ | √ | √ |
| 12/2/2021 | LSE 3 | 7,225.2 | 19,361.9 | 243.4 | -- | √ | √ | √ | √ |
| 12/2/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 12/2/2021 | LSE 5 | 1,794.1 | 2,672.2 | 0.0 | -- | √ | √ | √ | √ |
| 12/2/2021 | LSE 6 | 7,439.4 | 18,804.1 | 242.9 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 12/2/2021 | √ | √ | √ | 1014.6 | 172,741,648 | 5.8 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 12/6/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 12/6/2021 | LSW 2 | 6,237.7 | 6,188.3 | 0.2 | -- | √ | √ | √ | √ |
| 12/6/2021 | LSW 3 | 9,948.0 | 10,570.6 | 0.2 | -- | √ | √ | √ | √ |
| 12/6/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 12/6/2021 | LSE 2 | 3,214.8 | 3,300.2 | 19.9 | -- | √ | √ | √ | √ |
| 12/6/2021 | LSE 3 | 7,225.2 | 19,459.7 | 97.8 | -- | √ | √ | √ | √ |
| 12/6/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 12/6/2021 | LSE 5 | 1,794.1 | 2,679.3 | 7.1 | -- | √ | √ | √ | √ |
| 12/6/2021 | LSE 6 | 7,439.9 | 18,897.1 | 93.5 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 12/6/2021 | √ | √ | √ | 218.7 | 172,828,256 | 6.6 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 12/13/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 12/13/2021 | LSW 2 | 6,237.7 | 6,188.3 | 0.0 | -- | √ | √ | √ | √ |
| 12/13/2021 | LSW 3 | 9,948.0 | 10,570.6 | 0.0 | -- | √ | √ | √ | √ |
| 12/13/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 12/13/2021 | LSE 2 | 3,227.5 | 3,307.8 | 20.3 | -- | √ | √ | √ | √ |
| 12/13/2021 | LSE 3 | 7,225.2 | 19,622.6 | 162.9 | -- | √ | √ | √ | √ |
| 12/13/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 12/13/2021 | LSE 5 | 1,794.1 | 2,721.5 | 42.2 | -- | √ | √ | √ | √ |
| 12/13/2021 | LSE 6 | 7,439.4 | 19,065.1 | 167.5 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 12/13/2021 | √ | √ | √ | 392.9 | 173,109,272 | 11.9 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 12/20/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 12/20/2021 | LSW 2 | 6,237.7 | 6,188.3 | 0.0 | -- | √ | √ | √ | √ |
| 12/20/2021 | LSW 3 | 9,948.0 | 10,570.6 | 0.0 | -- | √ | √ | √ | √ |
| 12/20/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 12/20/2021 | LSE 2 | 3,237.7 | 3,329.2 | 31.6 | -- | √ | √ | √ | √ |
| 12/20/2021 | LSE 3 | 7,225.2 | 19,790.8 | 168.2 | -- | √ | √ | √ | √ |
| 12/20/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 12/20/2021 | LSE 5 | 1,794.1 | 2,721.5 | 0.0 | -- | √ | √ | √ | √ |
| 12/20/2021 | LSE 6 | 7,439.4 | 19,232.5 | 167.4 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 12/20/2021 | √ | √ | √ | 367.2 | 173,280,576 | 7.8 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 12/29/2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 12/29/2021 | LSW 2 | 6,237.7 | 6,188.3 | 0.0 | -- | √ | √ | √ | √ |
| 12/29/2021 | LSW 3 | 9,948.0 | 10,570.6 | 0.0 | -- | √ | √ | √ | √ |
| 12/29/2021 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 12/29/2021 | LSE 2 | 3,262.2 | 3,339.6 | 34.9 | -- | √ | √ | √ | √ |
| 12/29/2021 | LSE 3 | 7,225.2 | 20,007.0 | 216.2 | -- | √ | √ | √ | √ |
| 12/29/2021 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 12/29/2021 | LSE 5 | 1,832.5 | 2,721.5 | 38.4 | -- | √ | √ | √ | √ |
| 12/29/2021 | LSE 6 | 7,439.4 | 19,449.4 | 216.9 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| | √ | √ | √ | 506.4 | 173,446,504 | 5.5 | √ | √ | √ |

**Monthly Totals**

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| December 2021 | LSW 1 | 10,625.9 | 10,386.6 | 0.0 | 5.32 | √ | √ | √ | √ |
| December 2021 | LSW 2 | 6,237.7 | 6,188.3 | 243.3 | 5.55 | √ | √ | √ | √ |
| December 2021 | LSW 3 | 9,948.0 | 10,570.6 | 243.1 | 5.27 | √ | √ | √ | √ |
| December 2021 | LSE 1 | 543.3 | 520.3 | 0.0 | 2.95 | √ | √ | √ | √ |
| December 2021 | LSE 2 | 3,262.2 | 3,339.6 | 149.0 | 2.58 | √ | √ | √ | √ |
| December 2021 | LSE 3 | 7,225.2 | 20,007.0 | 888.5 | 3.53 | √ | √ | √ | √ |
| December 2021 | LSE 4 | 180.1 | 222.9 | 0.0 | 2.51 | √ | √ | √ | √ |
| December 2021 | LSE 5 | 1,832.5 | 2,721.5 | 87.7 | 2.77 | √ | √ | √ | √ |
| December 2021 | LSE 6 | 7,439.4 | 19,449.4 | 888.2 | 3.26 | √ | √ | √ | √ |

| Inspection Month | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Monthly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| December 2021 | √ | √ | √ | 2499.8 | 173,446,504 | 7.0 | √ | √ | √ |

# FORM LMS-2
## SEMI - ANNUAL INSPECTION CHECKLIST
## LEACHATE MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## DECEMBER 2021

**Date: December 12, 2019** | **Inspected By: J. Battista / T McCoy**

| INSPECTION TASK | SUMP NUMBER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|
| | LSE1 | LSE2 | LSE3 | LSE4 | LSE5 | LSE6 | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| | LSW1 | LSW2 | LSW3 | | | | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | | | | 9/5/2019 (Advantech) |

**Comments:** All sumps were pumped down to the lowest achievable elevation to examine the interior conditions.

Semi annual inspection items on hold pending leachate pump investigation.

**FORM LMS-3**
**ANNUAL INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**DECEMBER 2021**

| **Date: December 31, 2019** | | | **Inspected By: J. Battista / T McCoy** | | | | |
|---|---|---|---|---|---|---|---|
| **INSPECTION TASK** | **SUMP NUMBER** | | | | | | **REMARKS** |
| | **LSE1** | **LSE2** | **LSE3** | **LSE4** | **LSE5** | **LSE6** | **NYC BWT** |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| **Comments: December 23, 2019 - Flushed system (Previously Novemebr 26th and 27th 2019) NYCBWT provided sewer jet to unclog iron oxide buildup** | | | | | | | |
| ***every 8000 hours or two years** | | | | | | | |
| Annual inspection items on hold pending leachate pump investigation. | | | | | | | |
| | | | | | | | |

**FORM DP-1**
**LEACHATE MANAGEMENT SYSTEM**
**DECEMBER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 12/1/21 - 12/31/21 | LSW-1, LSW-2, LSW-3 | Pumps were not shutting off automatically | Turned pumps off. Running manually |
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**Date: 12/29/21**

**Inspected By: R. Bowden**

**Signature:** RC Bowden

**FORM LMS-1**
**INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**JANUARY 2022**

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 1/6/2022 | LSW 1 | 10,655.7 | 10,386.6 | 29.8 | -- | √ | √ | √ | √ |
| 1/6/2022 | LSW 2 | 6,237.7 | 6,379.9 | 191.6 | -- | √ | √ | √ | √ |
| 1/6/2022 | LSW 3 | 9,948.0 | 10,762.2 | 191.6 | -- | √ | √ | √ | √ |
| 1/6/2022 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 1/6/2022 | LSE 2 | 3,274.0 | 3,364.3 | 36.5 | -- | √ | √ | √ | √ |
| 1/6/2022 | LSE 3 | 7,225.2 | 20,198.2 | 191.2 | -- | √ | √ | √ | √ |
| 1/6/2022 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 1/6/2022 | LSE 5 | 2,023.6 | 2,721.5 | 191.1 | -- | √ | √ | √ | √ |
| 1/6/2022 | LSE 6 | 7,439.4 | 19,640.5 | 191.1 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 1/6/2022 | √ | √ | √ | 1022.9 | 173,691,976 | 4.0 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 1/11/2022 | LSW 1 | 10,655.7 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 1/11/2022 | LSW 2 | 6,237.7 | 6,379.9 | 0.0 | -- | √ | √ | √ | √ |
| 1/11/2022 | LSW 3 | 9,948.0 | 10,762.2 | 0.0 | -- | √ | √ | √ | √ |
| 1/11/2022 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 1/11/2022 | LSE 2 | 3,286.0 | 3,378.1 | 25.8 | -- | √ | √ | √ | √ |
| 1/11/2022 | LSE 3 | 7,225.2 | 20,318.0 | 119.8 | -- | √ | √ | √ | √ |
| 1/11/2022 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 1/11/2022 | LSE 5 | 2,143.5 | 2,721.5 | 119.9 | -- | √ | √ | √ | √ |
| 1/11/2022 | LSE 6 | 7,439.9 | 19,760.4 | 120.4 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 1/11/2022 | √ | √ | √ | 385.9 | 173,815,768 | 5.3 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 1/17/2022 | LSW 1 | 10,655.7 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 1/17/2022 | LSW 2 | 6,237.7 | 6,379.9 | 0.0 | -- | √ | √ | √ | √ |
| 1/17/2022 | LSW 3 | 9,948.0 | 10,762.2 | 0.0 | -- | √ | √ | √ | √ |
| 1/17/2022 | LSE 1 | 543.3 | 520.3 | 0.0 | -- | √ | √ | √ | √ |
| 1/17/2022 | LSE 2 | 3,311.7 | 3,393.0 | 40.6 | -- | √ | √ | √ | √ |
| 1/17/2022 | LSE 3 | 7,229.7 | 20,457.9 | 144.4 | -- | √ | √ | √ | √ |
| 1/17/2022 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 1/17/2022 | LSE 5 | 2,283.4 | 2,726.0 | 144.4 | -- | √ | √ | √ | √ |
| 1/17/2022 | LSE 6 | 7,443.8 | 19,900.5 | 144.0 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 1/17/2022 | √ | √ | √ | 473.4 | 174,111,560 | 10.4 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 1/27/2022 | LSW 1 | 10,655.7 | 10,386.6 | 0.0 | 13.30 | √ | √ | √ | √ |
| 1/27/2022 | LSW 2 | 6,237.7 | 6,379.9 | 0.0 | 12.68 | √ | √ | √ | √ |
| 1/27/2022 | LSW 3 | 9,948.0 | 10,762.2 | 0.0 | 17.19 | √ | √ | √ | √ |
| 1/27/2022 | LSE 1 | 543.3 | 545.7 | 25.4 | 10.29 | √ | √ | √ | √ |
| 1/27/2022 | LSE 2 | 3,311.7 | 3,405.8 | 12.8 | 15.86 | √ | √ | √ | √ |
| 1/27/2022 | LSE 3 | 7,245.6 | 20,578.1 | 136.1 | 14.83 | √ | √ | √ | √ |
| 1/27/2022 | LSE 4 | 180.1 | 222.9 | 0.0 | 14.32 | √ | √ | √ | √ |
| 1/27/2022 | LSE 5 | 2,283.4 | 2,783.8 | 57.8 | 4.62 | √ | √ | √ | √ |
| 1/27/2022 | LSE 6 | 7,485.8 | 20,097.2 | 238.7 | 5.01 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 1/27/2022 | √ | √ | √ | 470.8 | 174,583,488 | 16.7 | √ | √ | √ |

**Weekly Inspection**
**Monthly Totals**

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| January 2022 | LSW 1 | 10,655.7 | 10,386.6 | 29.8 | 5.32 | √ | √ | √ | √ |
| January 2022 | LSW 2 | 6,237.7 | 6,379.9 | 191.6 | 5.55 | √ | √ | √ | √ |
| January 2022 | LSW 3 | 9,948.0 | 10,762.2 | 191.6 | 5.27 | √ | √ | √ | √ |
| January 2022 | LSE 1 | 543.3 | 545.7 | 25.4 | 2.95 | √ | √ | √ | √ |
| January 2022 | LSE 2 | 3,311.7 | 3,405.8 | 115.7 | 2.58 | √ | √ | √ | √ |
| January 2022 | LSE 3 | 7,245.6 | 20,578.1 | 591.5 | 3.53 | √ | √ | √ | √ |
| January 2022 | LSE 4 | 180.1 | 222.9 | 0.0 | 2.51 | √ | √ | √ | √ |
| January 2022 | LSE 5 | 2,283.4 | 2,783.8 | 513.2 | 2.77 | √ | √ | √ | √ |
| January 2022 | LSE 6 | 7,485.8 | 20,097.2 | 694.2 | 3.26 | √ | √ | √ | √ |

| Inspection Month | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Monthly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| January 2022 | √ | √ | √ | 2353.0 | 174,583,488 | 8.1 | √ | √ | √ |

# FORM LMS-2
## SEMI - ANNUAL INSPECTION CHECKLIST
## LEACHATE MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## JANUARY 2022

**Date: December 12, 2019** | **Inspected By: J. Battista / T McCoy**

| INSPECTION TASK | SUMP NUMBER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|
| | LSE1 | LSE2 | LSE3 | LSE4 | LSE5 | LSE6 | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | √ | √ | √ | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| | LSW1 | LSW2 | LSW3 | | | | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Float Switches - Verify Operation | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Float and Cable | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Sump and Vault Lids | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Flow Switch and Sump Level Meter | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Markings | √ | √ | √ | | | | 11/12/19 WILO/(W20) |
| Control Cabinets | √ | √ | √ | | | | 9/5/2019 (Advantech) |

**Comments:** All sumps were pumped down to the lowest achievable elevation to examine the interior conditions.

Semi annual inspection items on hold pending leachate pump investigation.

**FORM LMS-3**
**ANNUAL INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**JANUARY 2022**

| **Date: December 31, 2019** | | | **Inspected By: J. Battista / T McCoy** | | | | |
|---|---|---|---|---|---|---|---|
| **INSPECTION TASK** | **SUMP NUMBER** | | | | | | **REMARKS** |
| | **LSE1** | **LSE2** | **LSE3** | **LSE4** | **LSE5** | **LSE6** | **NYC BWT** |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | √ | √ | √ | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | √ | √ | √ | 11.12.2019 (WILO-W2O) |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Resistance On Pump Motors | √ | √ | √ | | | | 9/5/2019 (Advantech) |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Safety Control Devices | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Empty Leakage Chamber | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Pump Isolation Valve | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Open and Close Valve Fully | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Inspect Valve Stem for Leakage | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| Tighten if Necessary | √ | √ | √ | | | | 11.12.2019 (WILO-W2O) |
| **Comments: December 23, 2019 - Flushed system (Previously Novemebr 26th and 27th 2019) NYCBWT provided sewer jet to unclog iron oxide buildup** | | | | | | | |
| ***every 8000 hours or two years** | | | | | | | |
| Annual inspection items on hold pending leachate pump investigation. | | | | | | | |
| | | | | | | | |

# FORM DP-1
## LEACHATE MANAGEMENT SYSTEM
## JANUARY 2022
## DESCRIPTION OF DEFICIENCIES AND PROBLEMS
## BROOKFIELD AVENUE LANDFILL

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 1/1/22 - 1/31/22 | LSW-1, LSW-2, LSW-3 | Pumps were not shutting off automatically | Turned pumps off. Running manually |
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**Date: 1/28/22**

**Inspected By: R. Bowden**

**Signature:** RC Bowden

**FORM LMS-1**
**INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**FEBRUARY 2022**

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 2/7/2022 | LSW 1 | 10,655.7 | 10,386.6 | 0.0 | -- | √ | √ | √ | √ |
| 2/7/2022 | LSW 2 | 6,237.7 | 6,379.9 | 0.0 | -- | √ | √ | √ | √ |
| 2/7/2022 | LSW 3 | 9,948.0 | 10,762.2 | 0.0 | -- | √ | √ | √ | √ |
| 2/7/2022 | LSE 1 | 543.3 | 545.7 | 0.0 | -- | √ | √ | √ | √ |
| 2/7/2022 | LSE 2 | 3,337.5 | 3,432.2 | 52.2 | -- | √ | √ | √ | √ |
| 2/7/2022 | LSE 3 | 7,245.6 | 20,841.0 | 262.9 | -- | √ | √ | √ | √ |
| 2/7/2022 | LSE 4 | 180.1 | 222.9 | 0.0 | -- | √ | √ | √ | √ |
| 2/7/2022 | LSE 5 | 2,454.2 | 2,835.9 | 222.9 | -- | √ | √ | √ | √ |
| 2/7/2022 | LSE 6 | 7,485.8 | 20,359.2 | 262.0 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 2/7/2022 | √ | √ | √ | 800.0 | 175,040,536 | 9.5 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 2/14/2022 | LSW 1 | 10,655.9 | 10,386.9 | 0.5 | -- | √ | √ | √ | √ |
| 2/14/2022 | LSW 2 | 6,237.7 | 6,380.1 | 0.2 | -- | √ | √ | √ | √ |
| 2/14/2022 | LSW 3 | 9,948.0 | 10,762.3 | 0.1 | -- | √ | √ | √ | √ |
| 2/14/2022 | LSE 1 | 543.3 | 545.7 | 0.0 | -- | √ | √ | √ | √ |
| 2/14/2022 | LSE 2 | 3,337.5 | 3,443.8 | 11.6 | -- | √ | √ | √ | √ |
| 2/14/2022 | LSE 3 | 7,267.9 | 20,887.1 | 68.4 | -- | √ | √ | √ | √ |
| 2/14/2022 | LSE 4 | 180.4 | 225.7 | 3.1 | -- | √ | √ | √ | √ |
| 2/14/2022 | LSE 5 | 2,454.2 | 2,856.6 | 20.7 | -- | √ | √ | √ | √ |
| 2/14/2022 | LSE 6 | 7,508.2 | 20,373.2 | 36.4 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 2/14/2022 | √ | √ | √ | 141.0 | 175,142,832 | 12.1 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 2/21/2022 | LSW 1 | 10,655.9 | 10,386.9 | 0.0 | -- | √ | √ | √ | √ |
| 2/21/2022 | LSW 2 | 6,237.7 | 6,380.1 | 0.0 | -- | √ | √ | √ | √ |
| 2/21/2022 | LSW 3 | 9,948.0 | 10,762.3 | 0.0 | -- | √ | √ | √ | √ |
| 2/21/2022 | LSE 1 | 543.3 | 545.7 | 0.0 | -- | √ | √ | √ | √ |
| 2/21/2022 | LSE 2 | 3,351.4 | 3,457.3 | 27.4 | -- | √ | √ | √ | √ |
| 2/21/2022 | LSE 3 | 7,267.9 | 20,887.1 | 0.0 | -- | √ | √ | √ | √ |
| 2/21/2022 | LSE 4 | 180.4 | 225.7 | 0.0 | -- | √ | √ | √ | √ |
| 2/21/2022 | LSE 5 | 2,454.2 | 2,856.6 | 0.0 | -- | √ | √ | √ | √ |
| 2/21/2022 | LSE 6 | 7,520.8 | 20,385.7 | 25.1 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 2/21/2022 | √ | √ | √ | 52.5 | 175,165,736 | 7.3 | √ | √ | √ |

**Monthly Totals**

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| February 2022 | LSW 1 | 10,655.9 | 10,386.9 | 0.5 | 13.09 | √ | √ | √ | √ |
| February 2022 | LSW 2 | 6,237.7 | 6,380.1 | 0.2 | 12.41 | √ | √ | √ | √ |
| February 2022 | LSW 3 | 9,948.0 | 10,762.3 | 0.1 | 17.10 | √ | √ | √ | √ |
| February 2022 | LSE 1 | 543.3 | 545.7 | 0.0 | 10.79 | √ | √ | √ | √ |
| February 2022 | LSE 2 | 3,351.4 | 3,457.3 | 91.2 | 15.56 | √ | √ | √ | √ |
| February 2022 | LSE 3 | 7,267.9 | 20,887.1 | 331.3 | 15.32 | √ | √ | √ | √ |
| February 2022 | LSE 4 | 180.4 | 225.7 | 3.1 | 14.66 | √ | √ | √ | √ |
| February 2022 | LSE 5 | 2,454.2 | 2,856.6 | 243.6 | 10.43 | √ | √ | √ | √ |
| February 2022 | LSE 6 | 7,520.8 | 20,385.7 | 323.5 | 8.19 | √ | √ | √ | √ |

| Inspection Month | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Monthly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| February 2022 | √ | √ | √ | 993.5 | 175,165,736 | 9.8 | √ | √ | √ |

# FORM LMS-2
## SEMI - ANNUAL INSPECTION CHECKLIST
## LEACHATE MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## FEBRUARY 2022

**Date: February 2022** | **Inspected By: D. Stewart / A. Carlton**

| INSPECTION TASK | SUMP NUMBER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|
| | LSE1 | LSE2 | LSE3 | LSE4 | LSE5 | LSE6 | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Float Switches - Verify Operation | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Float and Cable | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Sump and Vault Lids | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Flow Switch and Sump Level Meter | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Markings | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Control Cabinets | √ | √ | **NS** | √ | **NS** | √ | 2/7/2022 PSI - LSE3 had tripped breaker; LSE5 had an electrical short |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | | | | 2/7/2022 PSI |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | | | | 2/7/2022 PSI |
| Check Valves - Functional, Signs of Leakage | √ | **NS** | **NS** | | | | 2/7/2022 PSI - LSW2 and LSW3 were found in 'Seal Failure Alarm' |
| Float Switches - Verify Operation | √ | √ | √ | | | | 2/7/2022 PSI |
| Float and Cable | √ | √ | √ | | | | 2/7/2022 PSI |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | | | | 2/7/2022 PSI |
| Sump and Vault Lids | √ | √ | √ | | | | 2/7/2022 PSI |
| Flow Switch and Sump Level Meter | √ | √ | √ | | | | 2/7/2022 PSI |
| Markings | √ | √ | √ | | | | 2/7/2022 PSI |
| Control Cabinets | √ | √ | √ | | | | 2/7/2022 PSI |

**Comments:** All sumps were pumped down to the lowest achievable elevation to examine the interior conditions.

TRC is working with PSI to obtain cost estimates for pump repairs. A detailed report regarding the findings of the pump inspection will be submitted by PSI in March 2022.

**FORM LMS-3**
**ANNUAL INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**FEBRUARY 2022**

| **Date: February 2022** | | | **Inspected By: D. Stewart / A. Carlton** | | | | |
|---|---|---|---|---|---|---|---|
| **INSPECTION TASK** | **SUMP NUMBER** | | | | | | **REMARKS** |
| | **LSE1** | **LSE2** | **LSE3** | **LSE4** | **LSE5** | **LSE6** | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Resistance On Pump Motors | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Safety Control Devices | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Empty Leakage Chamber | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Inspect Pump Isolation Valve | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Open and Close Valve Fully | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Inspect Valve Stem for Leakage | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Tighten if Necessary | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | | | | 2/7/2022 PSI |
| Resistance On Pump Motors | √ | √ | √ | | | | 2/7/2022 PSI |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | | | | 2/7/2022 PSI |
| Safety Control Devices | √ | √ | √ | | | | 2/7/2022 PSI |
| Empty Leakage Chamber | √ | √ | √ | | | | 2/7/2022 PSI |
| Inspect Pump Isolation Valve | √ | √ | √ | | | | 2/7/2022 PSI |
| Open and Close Valve Fully | √ | √ | √ | | | | 2/7/2022 PSI |
| Inspect Valve Stem for Leakage | √ | √ | √ | | | | 2/7/2022 PSI |
| Tighten if Necessary | √ | √ | √ | | | | 2/7/2022 PSI |
| **Comments:** | | | | | | | |
| ***every 8000 hours or two years** | | | | | | | |
| Annual inspection items on hold pending leachate pump investigation. | | | | | | | |
| | | | | | | | |

**FORM DP-1**
**LEACHATE MANAGEMENT SYSTEM**
**FEBRUARY 2022**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 2/1/22 - 2/28/22 | LSW-1, LSW-2, LSW-3 | Pumps were not shutting off automatically | Turned pumps off. Running manually |
| | | | |
| | | | |
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**Date: 2/25/22**

**Inspected By: R. Bowden**

**Signature:** RC Bowden

**FORM LMS-1**
**INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**MARCH 2022**

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 3/4/2022 | LSW 1 | 10,655.9 | 10,386.9 | 0.0 | -- | √ | √ | √ | √ |
| 3/4/2022 | LSW 2 | 6,237.7 | 6,380.1 | 0.0 | -- | √ | √ | √ | √ |
| 3/4/2022 | LSW 3 | 9,948.0 | 10,762.3 | 0.0 | -- | √ | √ | √ | √ |
| 3/4/2022 | LSE 1 | 543.3 | 570.1 | 24.4 | -- | √ | √ | √ | √ |
| 3/4/2022 | LSE 2 | 3,379.9 | 3,470.6 | 41.8 | -- | √ | √ | √ | √ |
| 3/4/2022 | LSE 3 | 7,286.0 | 20,887.1 | 18.1 | -- | √ | √ | √ | √ |
| 3/4/2022 | LSE 4 | 180.4 | 225.7 | 0.0 | -- | √ | √ | √ | √ |
| 3/4/2022 | LSE 5 | 2,454.2 | 2,856.6 | 0.0 | -- | √ | √ | √ | √ |
| 3/4/2022 | LSE 6 | 7,547.4 | 20,417.7 | 58.6 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 3/4/2022 | √ | √ | √ | 142.9 | 176,556,120 | 92.2 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 3/7/2022 | LSW 1 | 10,655.9 | 10,386.9 | 0.0 | -- | √ | √ | √ | √ |
| 3/7/2022 | LSW 2 | 6,237.7 | 6,380.1 | 0.0 | -- | √ | √ | √ | √ |
| 3/7/2022 | LSW 3 | 9,948.0 | 10,762.3 | 0.0 | -- | √ | √ | √ | √ |
| 3/7/2022 | LSE 1 | 543.3 | 570.1 | 0.0 | -- | √ | √ | √ | √ |
| 3/7/2022 | LSE 2 | 3,394.0 | 3,470.6 | 14.1 | -- | √ | √ | √ | √ |
| 3/7/2022 | LSE 3 | 7,286.0 | 20,887.1 | 0.0 | -- | √ | √ | √ | √ |
| 3/7/2022 | LSE 4 | 180.4 | 225.7 | 0.0 | -- | √ | √ | √ | √ |
| 3/7/2022 | LSE 5 | 2,454.2 | 2,856.6 | 0.0 | -- | √ | √ | √ | √ |
| 3/7/2022 | LSE 6 | 7,553.2 | 20,423.5 | 11.6 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 3/7/2022 | √ | √ | √ | 25.7 | 176,786,512 | 149.4 | √ | √ | √ |

**Weekly Inspection**

| Inspection Date | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Weekly Sump Runtime (hrs) | Leachate Elevation (ft) Weekly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 3/14/2022 | LSW 1 | 10,655.9 | 10,386.9 | 0.0 | -- | √ | √ | √ | √ |
| 3/14/2022 | LSW 2 | 6,237.7 | 6,380.1 | 0.0 | -- | √ | √ | √ | √ |
| 3/14/2022 | LSW 3 | 9,948.0 | 10,762.3 | 0.0 | -- | √ | √ | √ | √ |
| 3/14/2022 | LSE 1 | 543.3 | 570.1 | 0.0 | -- | √ | √ | √ | √ |
| 3/14/2022 | LSE 2 | 3,407.9 | 3,482.9 | 26.2 | -- | √ | √ | √ | √ |
| 3/14/2022 | LSE 3 | 7,286.0 | 20,887.1 | 0.0 | -- | √ | √ | √ | √ |
| 3/14/2022 | LSE 4 | 180.4 | 225.7 | 0.0 | -- | √ | √ | √ | √ |
| 3/14/2022 | LSE 5 | 2,454.2 | 2,856.6 | 0.0 | -- | √ | √ | √ | √ |
| 3/14/2022 | LSE 6 | 7,573.1 | 20,441.7 | 38.1 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Weekly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 3/14/2022 | √ | √ | √ | 64.3 | 177,336,544 | 142.6 | √ | √ | √ |

**Monthly Totals**

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 3/22/2022 | LSW 1 | 10,655.9 | 10,386.9 | 0.0 | -- | √ | √ | √ | √ |
| 3/22/2022 | LSW 2 | 6,237.7 | 6,380.1 | 0.0 | -- | √ | √ | √ | √ |
| 3/22/2022 | LSW 3 | 9,948.0 | 10,762.3 | 0.0 | -- | √ | √ | √ | √ |
| 3/22/2022 | LSE 1 | 543.3 | 570.1 | 0.0 | -- | √ | √ | √ | √ |
| 3/22/2022 | LSE 2 | 3,420.9 | 3,504.2 | 34.3 | -- | √ | √ | √ | √ |
| 3/22/2022 | LSE 3 | 7,286.0 | 20,887.1 | 0.0 | -- | √ | √ | √ | √ |
| 3/22/2022 | LSE 4 | 180.4 | 225.7 | 0.0 | -- | √ | √ | √ | √ |
| 3/22/2022 | LSE 5 | 2,454.2 | 2,856.6 | 0.0 | -- | √ | √ | √ | √ |
| 3/22/2022 | LSE 6 | 7,594.0 | 20,459.6 | 38.8 | -- | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Monthly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 3/22/2022 | √ | √ | √ | 73.1 | 177,744,704 | 93.1 | √ | √ | √ |

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| 3/28/2022 | LSW 1 | 10,655.9 | 10,386.9 | 0.0 | 13.18 | √ | √ | √ | √ |
| 3/28/2022 | LSW 2 | 6,237.7 | 6,380.1 | 0.0 | 17.58 | √ | √ | √ | √ |
| 3/28/2022 | LSW 3 | 9,948.0 | 10,762.3 | 0.0 | 17.41 | √ | √ | √ | √ |
| 3/28/2022 | LSE 1 | 543.3 | 570.1 | 0.0 | 10.29 | √ | √ | √ | √ |
| 3/28/2022 | LSE 2 | 3,433.9 | 3,517.1 | 25.9 | 14.54 | √ | √ | √ | √ |
| 3/28/2022 | LSE 3 | 7,286.0 | 20,887.1 | 0.0 | 14.82 | √ | √ | √ | √ |
| 3/28/2022 | LSE 4 | 180.4 | 225.7 | 0.0 | 14.32 | √ | √ | √ | √ |
| 3/28/2022 | LSE 5 | 2,454.2 | 2,856.6 | 0.0 | 10.50 | √ | √ | √ | √ |
| 3/28/2022 | LSE 6 | 7,612.7 | 20,476.4 | 35.5 | 9.31 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Monthly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| 3/22/2022 | √ | √ | √ | 61.4 | 178,073,192 | 89.2 | √ | √ | √ |

| Inspection Month | Location | Pump #1 Runtime (hrs) | Pump #2 Runtime (hrs) | Monthly Sump Runtime (hrs) | Leachate Elevation (ft) Monthly | Operable Pump #1 | Operable Pump #2 | Pipe Blockage / Leachate Flow | Sump Structures |
|---|---|---|---|---|---|---|---|---|---|
| March 2022 | LSW 1 | 10,655.9 | 10,386.9 | 0.0 | 13.18 | √ | √ | √ | √ |
| March 2022 | LSW 2 | 6,237.7 | 6,380.1 | 0.0 | 17.58 | √ | √ | √ | √ |
| March 2022 | LSW 3 | 9,948.0 | 10,762.3 | 0.0 | 17.41 | √ | √ | √ | √ |
| March 2022 | LSE 1 | 543.3 | 570.1 | 24.4 | 10.29 | √ | √ | √ | √ |
| March 2022 | LSE 2 | 3,433.9 | 3,517.1 | 142.3 | 14.54 | √ | √ | √ | √ |
| March 2022 | LSE 3 | 7,286.0 | 20,887.1 | 18.1 | 14.82 | √ | √ | √ | √ |
| March 2022 | LSE 4 | 180.4 | 225.7 | 0.0 | 14.32 | √ | √ | √ | √ |
| March 2022 | LSE 5 | 2,454.2 | 2,856.6 | 0.0 | 10.50 | √ | √ | √ | √ |
| March 2022 | LSE 6 | 7,612.7 | 20,476.4 | 182.6 | 9.31 | √ | √ | √ | √ |

| Inspection Date | Oil Water Separator 1 | Oil Water Separator 2 | Parshall Flume | Monthly Sump Runtime (hrs) | Totalizer (Gallons) | Totalizer (GPM) | Cabinet Lights | Drain Piping | HOA Switches |
|---|---|---|---|---|---|---|---|---|---|
| March 2022 | √ | √ | √ | 367.4 | 178,073,192 | 104.7 | √ | √ | √ |

# FORM LMS-2
## SEMI - ANNUAL INSPECTION CHECKLIST
## LEACHATE MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## MARCH 2022

**Date: February 2022** | **Inspected By: D. Stewart / A. Carlton**

| INSPECTION TASK | SUMP NUMBER | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|
| | LSE1 | LSE2 | LSE3 | LSE4 | LSE5 | LSE6 | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Check Valves - Functional, Signs of Leakage | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Float Switches - Verify Operation | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Float and Cable | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Sump and Vault Lids | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Flow Switch and Sump Level Meter | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Markings | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Control Cabinets | √ | √ | **NS** | √ | **NS** | √ | 2/7/2022 PSI - LSE3 had tripped breaker; LSE5 had an electrical short |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Power Cable Supply (cable holder and bracing) | √ | √ | √ | | | | 2/7/2022 PSI |
| Pumping Accessories - Hoist and Suspension Cable | √ | √ | √ | | | | 2/7/2022 PSI |
| Check Valves - Functional, Signs of Leakage | √ | **NS** | **NS** | | | | 2/7/2022 PSI - LSW2 and LSW3 were found in 'Seal Failure Alarm' |
| Float Switches - Verify Operation | √ | √ | √ | | | | 2/7/2022 PSI |
| Float and Cable | √ | √ | √ | | | | 2/7/2022 PSI |
| Pump Controls - Disconnect and Reset Switches | √ | √ | √ | | | | 2/7/2022 PSI |
| Sump and Vault Lids | √ | √ | √ | | | | 2/7/2022 PSI |
| Flow Switch and Sump Level Meter | √ | √ | √ | | | | 2/7/2022 PSI |
| Markings | √ | √ | √ | | | | 2/7/2022 PSI |
| Control Cabinets | √ | √ | √ | | | | 2/7/2022 PSI |

**Comments:** All sumps were pumped down to the lowest achievable elevation to examine the interior conditions.

TRC is working with PSI to obtain cost estimates for pump repairs. A detailed report regarding the findings of the pump inspection will be submitted by PSI in March 2022.

**FORM LMS-3**
**ANNUAL INSPECTION CHECKLIST**
**LEACHATE MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**
**MARCH 2022**

| **Date: February 2022** | | | **Inspected By: D. Stewart / A. Carlton** | | | | |
|---|---|---|---|---|---|---|---|
| **INSPECTION TASK** | **SUMP NUMBER** | | | | | | **REMARKS** |
| | **LSE1** | **LSE2** | **LSE3** | **LSE4** | **LSE5** | **LSE6** | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Resistance On Pump Motors | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Safety Control Devices | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Empty Leakage Chamber | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Inspect Pump Isolation Valve | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Open and Close Valve Fully | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Inspect Valve Stem for Leakage | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| Tighten if Necessary | √ | √ | √ | √ | √ | √ | 2/7/2022 PSI |
| | **LSW1** | **LSW2** | **LSW3** | | | | |
| Inspect each leachate collection piping header for sediment buildup via cleanout manholes by camera or jetting | √ | √ | √ | | | | 2/7/2022 PSI |
| Resistance On Pump Motors | √ | √ | √ | | | | 2/7/2022 PSI |
| Change Pump Lubricant In Seal Chamber | √ | √ | √ | | | | 2/7/2022 PSI |
| Safety Control Devices | √ | √ | √ | | | | 2/7/2022 PSI |
| Empty Leakage Chamber | √ | √ | √ | | | | 2/7/2022 PSI |
| Inspect Pump Isolation Valve | √ | √ | √ | | | | 2/7/2022 PSI |
| Open and Close Valve Fully | √ | √ | √ | | | | 2/7/2022 PSI |
| Inspect Valve Stem for Leakage | √ | √ | √ | | | | 2/7/2022 PSI |
| Tighten if Necessary | √ | √ | √ | | | | 2/7/2022 PSI |
| **Comments:** | | | | | | | |
| ***every 8000 hours or two years** | | | | | | | |
| Annual inspection items on hold pending leachate pump investigation. | | | | | | | |
| | | | | | | | |

**FORM DP-1**
**LEACHATE MANAGEMENT SYSTEM**
**MARCH 2022**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 3/1/22 - 3/31/22 | LSW-1, LSW-2, LSW-3 | Pumps were not shutting off automatically | Turned pumps off. Running manually. TRC is coordinating with PSI for repair of pumps. |
| | | | |
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**Date: 3/29/22**

**Inspected By: R. Bowden**

**Signature:** RC Bowden

# APPENDIX B

# M-1 SELF-MONITORING REPORTS AND ANALYSES AND COPY OF CURRENT IWD PERMIT

NYC Environmental Protection

**Vincent Sapienza, P.E.**
*Commissioner*

**Pamela Elardo, P.E.**
*Deputy Commissioner*

**Bureau of Wastewater Treatment**
96-05 Horace Harding Expressway – 2nd Floor
Corona, NY 11368

Tel. (718) 595-6924
Fax (718) 595-4084

August 7, 2018

New York City Parks and Recreation
Environmental Remediation Unit
Brookfield Avenue Landfill Remediation
Olmsted Center, Flushing Meadows Corona Park
117-02 Roosevelt Avenue
Flushing, NY 11368

Re: Issuance of Industrial Wastewater Discharge Permit No. 18-P3149-1

Attention: Ms Kay Zias

Enclosed is your Industrial Wastewater Discharge Permit No. 18-P3149-1, authorizing the discharge of industrial wastewater from your facility located at 575 ARTHUR KILL ROAD, STATEN ISLAND, NY 10308 into the New York City sewerage system. This control mechanism is effective as of August 10, 2018, and expires at midnight on August 9, 2023 and is contingent upon the Industrial User's compliance with any other Federal, State or Local laws applicable to the permitted activity. In order to continue discharging after the expiration date of this Permit, an application must be filed for a new Permit at least 120 days prior to the expiration date. **Please note that you are required to submit a self-monitoring report four times a year. Your first self-monitoring report pursuant to this Permit is due on September 30, 2018.**

Your Permit contains applicable Federal Categorical Standards and New York City Sewer Use Limits, as well as self-monitoring, reporting and record keeping requirements. Failure to comply with all terms and conditions contained in the Permit and the New York City Sewer Use Regulations (available upon request) may result in issuance of Notices of Violation currently carrying civil penalties of up to $10,000 per violation per day and/or other enforcement proceedings.

**Substantial changes have been made to the New York City Industrial Wastewater Discharge Permit. It is therefore vital that you read through your Permit carefully and become aware of the new requirements. Please make special note of the extensive changes in discharge limitations and monitoring requirements.**

In order to facilitate your periodic self-monitoring and reporting, a standardized four-page Industrial Self-Monitoring Report Form and an Analytical Report Form are enclosed. Additional forms are always available upon request. When completing the forms, your Permit should be referred to for specific monitoring and reporting requirements.

**The SMR must be submitted to:**

**Frances Leung, P.E., Chief**
**Industrial Inspections and Permitting Section**
**Bureau of Wastewater Treatment**
**New York City Department of Environmental Protection**
**96-05 Horace Harding Expressway**
**Corona, New York 11368**

Please contact Ms. Kene Umeasor at (718) 595-4712, if you have any questions regarding this Permit.

Sincerely,

Frances Leung, P.E., Chief
Industrial Inspections and Permitting Section

enc: Industrial Wastewater Discharge Permit
Industrial User Self-Monitoring Report Form
Analytical Report Form

# NEW YORK CITY
# DEPARTMENT OF ENVIRONMENTAL PROTECTION
# INDUSTRIAL WASTEWATER DISCHARGE PERMIT

| | |
|---|---|
| Permit No.: | **18-P3149-1** |
| Effective Date: | **August 10, 2018** |
| Expiration Date: | **August 9, 2023** |

In accordance with the provision of Title 24, Chapter 5, Section 24-523 (c) (1) of the New York City Administrative Code (NYCAC)

| | |
|---|---|
| **Industrial User Name:** | **NEW YORK CITY PARKS AND RECREATION** |
| | **ENVIRONMENTAL REMEDIATION UNIT** |
| | **BROOKFIELD AVENUE LANDFILL REMEDIATION** |
| **Facility Address:** | **575 ARTHUR KILL ROAD** |
| | **STATEN ISLAND, NEW YORK 10308** |
| **Mailing Address:** | **OLMSTED CENTER, FLUSHING MEADOWS CORONA PARK** |
| | **117-02 ROOSEVELT AVENUE** |
| | **FLUSHING, NEW YORK 11368** |

is hereby authorized to discharge industrial wastewater from the above identified facility into the New York City sewerage system in accordance with the discharge limitations, monitoring requirements, and other conditions set forth in this Permit.

All discharges authorized herein shall be consistent with the terms and conditions of this Permit. The discharge of any pollutant not identified in this Permit, or any pollutant identified in this Permit more frequently than or at levels in excess of that authorized, shall constitute a violation of the Permit. This Permit is contingent upon the Industrial User's compliance with any other Federal, State or Local laws applicable to the permitted activity.

The Industrial User shall not discharge any process or regulated wastewater after the date of expiration. If the Industrial User wishes to continue to discharge after this expiration date, an application for reissuance of this Permit must be filed a minimum of 120 days prior to its expiration date.

By: _____

Leslie Lipton, Chief
Division of Pollution Control and Monitoring
Bureau of Wastewater Treatment

Issued this 7th day of August, 2018

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## PART I - SPECIFIC CONDITIONS

### SECTION A. DISCHARGE LIMITATIONS

1. Discharge Points

The Industrial User is authorized to discharge leachate from the Brookfield Avenue Landfill, subject to the conditions in this Permit, through the discharge point(s) listed below to the New York City sewerage system.

| DISCHARGE POINT | DESCRIPTION |
|---|---|
| **M1** | A 6" diameter pipe discharging leachate into the sewer, located 54" below the ground in a 24" diameter manhole. The manhole is situated 192" from the facility driveway/walkway and 312" from a fence facing Entrance Road 1. |

2. Sewer Use Limits

The discharge from point **M1** shall not exceed the New York City Sewer Use Limits, including but not limited to:

**SEWER USE LIMITS**
**(15 R.C.N.Y. ch.19)**

| POLLUTANT | PERMISSIBLE MAXIMUM CONCENTRATION FOR ANY GIVEN TIME (MG/L) | DAILY AVERAGE MAXIMUM CONCENTRATION (MG/L) |
|---|---|---|
| pH | 5.0-12.0 Standard Units | --- |
| Cadmium | 2.0 | 0.69 |
| Chromium (Hexavalent) | 5.0 | --- |
| Copper | 5.0 | --- |
| Lead | 2.0 | --- |
| Mercury | 0.05 | --- |
| Nickel | 3.0 | --- |
| Zinc | 5.0 | --- |
| Cyanide (Amenable to Chlorination) | 0.2 | --- |
| Non-Polar Material | 50.0 | --- |

**The discharge of leachate with temperature above 150 degrees Fahrenheit and/or closed-cup flash point below 140 degrees Fahrenheit (using the test methods specified in 40 C. F. R. 261.21) at any time is prohibited.**

The following limits shall also apply:

| Pollutant | Permissible Maximum Concentration for any Given Time |
|---|---|
| Total Suspended Solids (TSS) | 350 ppm |
| Maximum Flow Rate | 288,000 GPD |
| Methyl-Tert-Butyl-Ether (MTBE) | 50 ppb |
| Tetrachloroethylene (Perc) | 20 ppb |
| Total PCB* | 1 ppb |

| Pollutant | Daily Limit (ppb) | Monthly Limit (ppb) |
|---|---|---|
| Benzene | 134 | 57 |
| Ethylbenzene | 380 | 142 |
| Naphthalene | 47 | 19 |
| Toluene | 74 | 28 |
| Xylenes (Total) | 74 | 28 |

* Total PCBs shall equal the sum of all concentrations of the 7 PCB compounds listed on pages I-4 and I-5 of this Permit.

## SECTION B. MONITORING REQUIREMENTS

1. Sampling

The Industrial User shall monitor the specified discharge points for the pollutants listed below. All sampling shall take place on days representative of normal operations. Sampling shall be conducted in accordance with 40 C.F.R. § 403.12(g)(3) which states, in pertinent part, that grab samples must be used for pH, cyanide, total phenols, oil and grease, sulfide, and volatile organic compounds. For all other pollutants, 24-hour composite samples must be obtained through flow-proportional composite sampling techniques, unless time-proportional composite sampling or grab sampling is authorized by the [Department]. Where time-proportional composite sampling or grab sampling is authorized by the [Department], the samples must be representative of the discharge. Where the Industrial User batch discharges, the company must state how it will take representative samples.

| POLLUTANT | SAMPLE LOCATION | FREQUENCY | SAMPLE TYPE |
|---|---|---|---|
| VOLATILE ORGANICS (VOC) | | | |
| Benzene | **M1** | Once a month | 4 grab samples, taken at least 1 hour apart for 1 day. Each grab sample must be individually preserved and sent to a certified laboratory. The laboratory may then composite the grab samples. |
| Ethylbenzene | **M1** | " " | " " |
| Methyl-Tert-Butyl-Ether (MTBE) | **M1** | " " | " " |
| Tetrachloroethylene (Perc) | **M1** | " " | " " |
| Toluene | **M1** | " " | " " |
| Xylenes | **M1** | " " | " " |
| Carbon tetrachloride | **M1** | " " | " " |
| Chloroform | **M1** | " " | " " |
| 1,1,1-trichloroethane | **M1** | " " | " " |
| SEMI-VOLATILE ORGANICS | | | |
| Naphthalene | **M1** | Once a month | A one-day composite sample. |
| 1,4-dichlorobenzene | **M1** | " " | " " |
| Phenol | **M1** | " " | " " |
| 1,2,4-trichlorobenzene | **M1** | " " | " " |
| PCB-1016[1] (Arochlor 1016) | **M1** | " " | " " |
| PCB-1242[1] (Arochlor 1242) | **M1** | " " | " " |
| PCB-1254[1] (Arochlor 1254) | **M1** | " " | " " |
| PCB-1221[1] (Arochlor 1221) | **M1** | " " | " " |

| POLLUTANT | SAMPLE LOCATION | FREQUENCY | SAMPLE TYPE |
|---|---|---|---|
| PCB-1232[1] (Arochlor 1232) | **M1** | Once a month | A one-day composite sample. |
| PCB-1248[1] (Arochlor 1248) | **M1** | " " | " " |
| PCB-1260[1] (Arochlor 1260) | **M1** | " " | " " |
| OTHER TOXIC ORGANICS OF CONCERN[2] | | | |
| 1) Volatile Organics (VOC) | **M1** | Once a month | 4 grab samples, taken at least 1 hour apart for 1 day. Each grab sample must be individually preserved and sent to a certified laboratory. The laboratory may then composite the grab samples. See Part II, Sect. C (1). |
| 2) Semi-Volatile Organics | **M1** | " " | A one-day composite sample. See Part II, Sect. C (1). |
| OTHER POLLUTANTS, PH, AND FLOW | | | |
| Cadmium | **M1** | Once a month | A one-day composite sample. |
| Chromium (Total) | **M1** | " " | " " |
| Chromium (Hexavalent)[3] | **M1** | " " | " " |
| Copper | **M1** | " " | " " |
| Lead | **M1** | " " | " " |
| Mercury | **M1** | " " | " " |
| Molybdenum | **M1** | " " | " " |
| Nickel | **M1** | " " | " " |
| Silver | **M1** | " " | " " |
| Zinc | **M1** | " " | " " |

| POLLUTANT | SAMPLE LOCATION | FREQUENCY | SAMPLE TYPE |
|---|---|---|---|
| Carbonaceous Biochemical Oxygen Demand (CBOD) | **M1** | Once a month | A one-day composite sample. |
| Total Nitrogen | **M1** | " " | " " |
| Chloride | **M1** | " " | " " |
| Cyanide (Total) | **M1** | " " | 4 grab samples, taken at least 1 hour apart for 1 day. Each grab sample must be individually preserved and sent to a certified laboratory. The laboratory should then composite the 4 grab samples. |
| Cyanide (Amenable)[4] | **M1** | " " | " " |
| Total Suspended Solids (TSS) | **M1** | " " | 4 grab samples, taken at least 1 hour apart for 1 day. Each grab sample must be individually preserved and sent to a certified laboratory. |
| Non- Polar Material | **M1** | " " | " " |
| pH | **M1** | " " | Either by 4 in situ measurements or by 4 grab samples, each taken at least 1 hour apart. |

**FOOTNOTES TO MONITORING REQUIREMENTS**

1. The analysis of PCB compounds must be done by EPA Method 608, with a method detection level less than or equal to 65 ppt.

2. Monitoring for Other Toxic Organics of Concern (OTOC) may not be required. See Part II, Sect. C(1). OTOC are comprised of two subcategories, volatile organic compounds (VOCs) and semi-volatile organic compounds. There are different sampling methods for each subcategory (See Part 1, Sect. B. Monitoring Requirements).These compounds include:

| | | | | | |
|---|---|---|---|---|---|
| | (1) | acenaphthene | VOC | (7) | 1,2-dichloroethane |
| VOC | (2) | acrolein | | (8) | hexachloroethane |
| VOC | (3) | acrylonitrile | VOC | (9) | 1,1-dichloroethane |
| | (4) | benzidine | VOC | (10) | 1,1,2-trichloroethane |
| VOC | (5) | chlorobenzene | VOC | (11) | 1,1,2,2-tetrachloroethane |
| | (6) | hexachlorobenzene | VOC | (12) | chloroethane |

(13) bis (2-chloroethyl) ether
VOC (14) 2-chloroethylvinyl ether (mixed)
(15) 2-chloronaphthalene
(16) 2,4,6-trichlorophenol
(17) parachlorometa cresol
(18) 2-chlorophenol
(19) 1,2-dichlorobenzene
(20) 1,3-dichlorobenzene
(21) 3,3-dichlorobenzidine
VOC (22) 1,1-dichloroethylene
VOC (23) 1,2-trans-dichloroethylene
(24) 2,4-dichlorophenol
VOC (25) 1,2-dichloropropane
VOC (26) 1,3-dichloropropylene (1,3-dichloropropene)
(27) 2,4-dimethylphenol
(28) 2,4-dinitrotoluene
(29) 2,6-dinitrotoluene
(30) 1,2-diphenylhydrazine
(31) fluoranthene
(32) 4-chlorophenyl phenyl ether
(33) 4-bromophenyl phenyl ether
(34) bis (2-chloroisopropyl) ether
(35) bis (2-chloroethoxy) methane
VOC (36) methylene chloride (dichloromethane)
VOC (37) methyl chloride (chloromethane)
VOC (38) methyl bromide (bromomethane)
VOC (39) bromoform (tribromomethane)
VOC (40) dichlorobromomethane
VOC (41) chlorodibromomethane
(42) hexachlorobutadiene
(43) hexachlorocyclopentadiene
(44) isophorone
(45) nitrobenzene
(46) 2-nitrophenol
(47) 4-nitrophenol
(48) 2,4-dinitrophenol
(49) 4,6-dinitro-o-cresol
(50) n-nitrosodimethylamine
(51) n-nitrosodiphenylamine
(52) n-nitrosodi-n-propylamine
(53) pentachlorophenol
(54) bis (2-ethylhexyl) phthalate
(55) butyl benzyl phthalate
(56) di-n-butyl phthalate
(57) di-n-octyl phthalate
(58) diethyl phthalate
(59) dimethyl phthalate
(60) 1,2-benzanthracene (benzo(a)anthracene)
(61) benzo(a)pyrene (3,4-benzopyrene)
(62) 3,4-benzofluoranthene (benzo(b)fluoranthene)
(63) 11,12-benzofluoranthene (benzo(k)fluoranthene)
(64) chrysene
(65) acenaphthylene
(66) anthracene
(67) 1,12-benzoperylene (benzo(ghi)perylene)
(68) fluorene
(69) phenanthrene
(70) 1,2,5,6-dibenzanthracene (dibenzo(a,h)anthracene)
(71) indeno (1,2,3-cd) pyrene (2,3-o-phenylene pyrene)
(72) pyrene
VOC (73) trichloroethylene
VOC (74) vinyl chloride (chloroethylene)
(75) aldrin
(76) dieldrin
(77) chlordane (technical mixture and metabolites)
(78) 4,4-DDT
(79) 4,4-DDE (p,p-DDX)
(80) 4,4-DDD (p,p-TDE)
(81) alpha-endosulfan
(82) beta-endosulfan
(83) endosulfan sulfate
(84) endrin
(85) endrin aldehyde
(86) heptachlor
(87) heptachlor epoxide (BHC-hexachlorocyclohexane)
(88) alpha-BHC
(89) beta-BHC

(90) gamma-BHC
(91) delta-BHC
(PCB-polychlorinated biphenyls)
(92) toxaphene
(93) 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)
(94) azinophos-methyl
(95) chlorpyrifos
(96) demeton
VOC (97) dichloropropene
(98) halomethanes
(99) manganese (inorganic element)
(100) methoxychlor
(101) pentachlorinated ethane
(102) 2,3,4,6-tetrachlorophenol

**3.** If the Chromium (Total) level at discharge point **M1**, is less than or equal to 5.0 mg/L, then analyzing for Chromium (Hexavalent) at that point is not required. The Chromium (Total) level can be submitted in lieu of analyzing for Chromium (Hexavalent).

**4.** If the Cyanide (Total) level at discharge point **M1**, is less than or equal to 0.2 mg/L, then analyzing for Cyanide (Amenable) at that point is not required. The Cyanide (Total) level can be submitted in lieu of analyzing for Cyanide (Amenable).

2. Additional Monitoring Requirements

See Part II, Sect. C for additional monitoring requirements.

## SECTION C. REPORTING REQUIREMENTS

1. Periodic Reports Concerning Continued Compliance

The Industrial User shall implement a self-monitoring program, as required in Part I, Sect. B of this Permit. Reports are due on a quarterly basis as follows:

| Monitoring Period | Report Due Date |
|---|---|
| **June 1 to August 31** | **September 30** |
| **September 1 to November 30** | **December 31** |
| **December 1 to February 28** | **March 31** |
| **March 1 to May 31** | **June 30** |

Reports must be received by the Department on or before the due dates specified above.

2. Additional Reporting Requirements

See Part II, Sect. D for additional reporting requirements.

3. Submission of Reports and Notices

The self-monitoring report and all other reports and notices required by this Permit shall be submitted to the Department at the following address, unless otherwise indicated:

Frances Leung, P.E., Chief
Industrial Inspections and Permitting Section
Bureau of Wastewater Treatment
New York City Department of Environmental Protection
96-05 Horace Harding Expressway
Corona, New York 11368

It is recommended that you send all reports and notices by certified mail in the event that you are required to prove that such reports or notices were submitted in a timely manner.

4. Reporting Format

a. Periodic reports shall be submitted on the Department's Industrial User **Self-Monitoring Report Form**.

b. Analytical results submitted to the Department for any reason, including but not limited to self-monitoring reports, split sampling, and pursuant to Commissioner's Orders, shall be reported by the certified laboratory performing the analysis in a format consistent with the Department's **Analytical Report Form**. The sampling points referenced on the Analytical Report Form must be identified exactly as they are in the Industrial User's Permit.

c. Copies of the Self-Monitoring Report Form and the Analytical Report Form are enclosed with this Permit. Additional copies are also available from the Department upon request.

## SECTION D. SPECIAL CONDITIONS

1. The Industrial User must maintain a logbook on daily volume of discharge ( in gallons per day ). A copy of the logbook entries for the monitoring period must be submitted in each self-monitoring report.

## PART II - GENERAL CONDITIONS

### SECTION A. DEFINITIONS AND STANDARD CONDITIONS

1. Definitions

a. Biochemical Oxygen Demand - The laboratory determination of the quantity of oxygen utilized in the biochemical oxidation of organic matter in a given time and at a specified temperature. It is expressed in parts per million (ppm) or (mg/L) of oxygen used in a period of five days at 20 degrees Celsius.

b. Bypass - The intentional diversion of wastes from any portion of a treatment facility.

c. Commissioner - The Commissioner of the New York City Department of Environmental Protection.

d. Composite Sample - A sample composed of two or more discrete samples. The aggregate sample will reflect the average water quality covering the compositing or sample period.

e. Cooling Water -

i. Uncontaminated - Water used only for cooling purposes that has no direct contact with any raw material, intermediate or final product and that does not contain a level of contaminants higher than that of the intake water.

ii. Contaminated - Water used only for cooling purposes that may become contaminated either through the use of water treatment chemicals used for corrosion inhibitors or biocides or by direct contact with process materials and/or wastewater.

f. Daily Maximum - The maximum allowable discharge of a pollutant during a 24-hour period. Where daily maximum limitations are expressed in units of mass, the daily discharge is the total mass of the pollutant discharged over the course of the day. Where daily maximum limitations are expressed in terms of a concentration, the daily discharge is the arithmetic average measurement of the pollutant concentration derived from all measurements taken that day.

g. Department - The New York City Department of Environmental Protection.

h. Grab Sample - A sample which is taken from a wastestream on a one-time basis with no regard to the flow of the wastestream and without consideration of time. A single grab sample should be taken over a period of time not to exceed 15 minutes.

i. Indirect Discharge - The introduction of pollutants into a POTW from any non-domestic source regulated under section 307(b), (c), or (d) of the Clean Water Act.

j. Industrial User - A source of Indirect Discharge.

k. Instantaneous Maximum Concentration - The maximum concentration allowed in any single grab sample.

l. Interference - A discharge that alone or in conjunction with a discharge or discharges from other sources both:

i. Inhibits or disrupts the POTW, its treatment processes or operations or its sludge processes, use or disposal; and

ii. Causes a violation of any requirement of the POTW's SPDES Permit (including an increase in the magnitude or duration of a violation) or prevents the use or disposal of sewage sludge in compliance with the following statutory provisions and regulations or Permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA) and including State regulations contained in any State sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act and the Marine Protection, Research and Sanctuaries Act.

m. Maximum Monthly Average - The maximum allowable value for the monthly average.

n. Monthly Average - The average of all samples taken during one calendar month. Thus, if only one sample is taken during a calendar month, the monthly average for that month will be based on only that one sample.

o. Pass Through - A discharge that exits the POTW into waters of the United States in quantities or concentrations that, alone or in conjunction with a discharge or discharges from other sources, cause a violation of any requirement of the POTW's SPDES Permit (including an increase in the magnitude or duration of a violation).

p. Publicly Owned Treatment Works (POTW) - A treatment works as defined by Section 212 of the Clean Water Act that is owned by the State or municipality. This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW treatment plant.

q. Resource Conservation and Recovery Act (RCRA) - A Federal statute regulating the management of hazardous waste from its generation through ultimate disposal. The Act contains requirements for waste generators, transporters and owners and operators of treatment, storage and disposal facilities.

r. Sewer Use Regulations - Rules of the City of New York relating to the "Use of the Public Sewers." 15 R.C.N.Y. ch. 19.

s. Shall - mandatory.

t. Slug Discharge - Any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge, which has a reasonable potential to cause interference or pass through, or in any other way violate the POTW's regulations, local limits or permit conditions.

u. Toxic Organics - Either the organic compounds listed in the definition of Total Toxic Organics (TTO) in Part I, Sect. A(2), and the Other Toxic Organics of Concern (OTOC) listed in Part I, Sect. B(1); or the Toxic Organics of Concern listed in Part I, Sect. B(1).

v. Upset - An exceptional incident in which there is unintentional and temporary noncompliance with technology based Permit effluent limitations because of factors beyond the reasonable control of the Industrial User, excluding such factors as operational error, improperly designed or inadequate treatment facilities or improper operation and maintenance or lack thereof.

2. Severability

The provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this Permit, shall not be affected thereby.

3. Duty to Comply

The Industrial User must comply with the provisions of the New York City Administrative Code (NYCAC) and the Sewer Use Regulations promulgated pursuant thereto, and all conditions of this Permit. Failure to comply with these requirements may be grounds for administrative action, or enforcement proceedings including civil and/or criminal penalties, injunctive relief and summary abatements.

4. Duty to Mitigate

The Industrial User shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit, including, but not limited to, such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

5. Permit Action

This Permit may be modified, revoked and reissued, or terminated for good cause, including, but not limited to, the following:

a. Incorporation of any new or revised Federal, State, or local pretreatment standards or requirements;

b. Material or substantial alterations or additions to the discharger's operations that were not covered in the effective Permit;

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge;

d. Information indicating that the Permitted discharge poses a threat to the New York City collection and treatment systems, POTW personnel or the receiving waters;

e. Violation of any terms or conditions of this Permit;

f. Obtaining this Permit by misrepresentation or failure to disclose fully all relevant facts;

g. Upon request of the Industrial User, provided such request does not create a violation of any existing applicable requirements, standards, laws, or rules and regulations; or

h. Correction of typographical or other errors in the Permit.

The filing of a request by the Industrial User for a Permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any Permit condition.

6. Property Rights

The issuance of this Permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private or public property or any invasion of personal rights, nor any violation of Federal, State or local laws or regulations.

7. Limitation on Permit Transfer

This wastewater discharge Permit is issued to the named Industrial User for the specific operation(s) described herein. It is not assignable to any other named individual or entity or transferable to any other location without the prior written approval of the Department. Any change in the name of the Industrial User shall be considered to be such an assignment. The sale of 50% or more of the stock of the Industrial User, if the Industrial User is a corporation, or the change of any partners, general or limited, if the Industrial User is a partnership, or the change in ownership, if the Industrial User

is a sole proprietorship, shall also be considered an assignment. In the event of such a sale, the Industrial User must inform the purchaser of all responsibilities and obligations under this Permit.

8. Duty to Reapply

If the Industrial User wishes to continue an activity regulated by this Permit after the expiration date of this Permit the Industrial User must apply for and obtain a new Permit. The application must be submitted at least 120 days before the expiration date of this Permit.

9. Dilution

The Industrial User shall not increase the use of process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this Permit.

The Industrial User shall post a Dilution Notice in a conspicuous manner. The Dilution Notice shall state that the New York City Department of Environmental Protection is to be notified of the illegal dilution of any wastewater discharges or any illegal discharges by calling 311, New York City's General Information Number. You must ask for and record your complaint number for proof of compliance with your notification requirements. The Dilution Notice shall include the following definition of illegal dilution: Illegal dilution is an increase in the use of process water, or any other attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with a Pretreatment Standard or Requirement.

10. General Prohibitive Standards

The Industrial User shall comply with all of the general prohibitive discharge standards in the General Pretreatment Regulations, 40 C.F.R. pt. 403 and the Department's Sewer Use Regulations. Except as expressly allowed by this Permit, if the Industrial User discharges or causes to be discharged, including any run, leak, or escape into any public sewer, pipe, channel, pumping station, catch basins or any other sewer appurtenances, or waterway connecting with any public sewer, or into any private sewer connected with a public sewer any of the following described materials, substances or wastes, shall be strictly liable without regard to fault:

a. Construction materials, ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastic, wood, paunch manure, coffee grounds, fur, wax, or any solids or viscous substances capable of causing obstruction to the flow in sewers or other interference with the proper operation of the sewerage system;

b. Snow and ice at unauthorized locations;

c. Steam or wastewater above 150 degrees Fahrenheit;

d. Flammable or explosive liquids, solids or gases, including, but not limited to, gasoline, benzene and naphtha;

e. Oil sludges, waste oil, motor oil, diesel and other fuels, dielectric fluid, brake fluid, transmission fluid, hydraulic fluid, or other similar substances;

f. Non-polar material in concentrations greater than 50 mg/L for any given time;

g. Coal tar, its derivatives and waste;

h. Paints and related paint waste products from any source that tend to clog or otherwise interfere with the operation of the sewerage system;

i. Wastewater having a pH lower than 5.0 or higher than 12.0 or having any other corrosive property likely to cause damage to structures or equipment of the sewerage system or create a hazard to personnel;

j. Toxic substances in such quantities that the person knows or has reason to know may when discharged from a single source or in combination with other sources: (i) interfere with any sewage treatment process, including sludge digestion, (ii) limit the City's options for operating its sewerage system or disposing of the sewage sludge, grit or scum generated at water pollution control plants, (iii) be detrimental to the health of human beings, animals, or aquatic life, (iv) create any adverse effect in the receiving water, or (v) violate Federal or State laws or regulations or the requirements of a discharge Permit of a sewage treatment plant issued pursuant to Section 402 of the Federal Water Pollution Control Act, commonly referred to as the Clean Water Act, as amended, or any other Permit issued pursuant to Federal or State law;

k. Toxic substances in such quantities that, when discharged from a single source or in combination with other sources: (i) violate any Federal or State laws, regulations, rules or standards governing such discharge, or (ii) violate the toxic discharge limits to be set by the Commissioner contained in a list to be maintained by the Commissioner and which may be published from time to time in the City Record;

l. Any liquids or wastes containing pollutants of such quality and/or quantity that become burdensome in the operation and maintenance of a sewage treatment plant;

m. Any noxious or malodorous gas or substance capable of creating a public nuisance;

n. Any wastewater or substance, that in the opinion of the Commissioner, will result in a violation of any applicable Federal, State or local water quality standard concerning discoloration or other undesirable physical changes in the appearance of the receiving waters;

o. Radioactive material either directly or indirectly into the sewerage system, unless all restrictions, prohibitions, and requirements of Article 175 of the New York City Health Code are fully complied with;

p. Any still bottom or sludge residues resulting from dry cleaning processes, including dirt, lint, soils, perchloroethylene, tetrachloroethylene, solvents and any other deposits or residues extracted as a result of any dry cleaning processes;

q. Filters or filter media used in dry cleaning processes.

11. Compliance with Applicable Pretreatment Standards and Requirements

The Industrial User shall comply at all times with any and all applicable local, State and Federal pretreatment standards and requirements, including any such standards or requirements that may become effective during the term of this Permit.

12. Combined Sewer Overflow (CSO) Prevention

The Industrial User shall hold its process wastewater and non-contact cooling water to the maximum extent practicable during heavy rainfall.

13. Confidentiality

As provided in Section 19-09 of the Sewer Use Regulations, any information submitted to the Department, except for discharge and effluent data, may be claimed by the discharger to be confidential. Any such claim must be asserted at the time of submission of the information, and should contain a stamped legend or any other suitable form of notice on each page containing such information, employing language such as trade secret, proprietary or confidential business information. If no claim is asserted at the time of submission, the information may be made available to the public without further notice. If a claim is asserted, it will be treated in accordance with Section 19-09.

Effluent data shall be available to the public without restriction.

14. Duty to Provide Information

The Industrial User shall furnish to the Department within a reasonable time, any information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit, or to determine compliance with this Permit. The Industrial User shall also furnish to the Department, upon request, copies of records required to be kept by this Permit.

15. Annual Publication

A list of all Industrial Users who, at any time during the previous twelve (12) months, were in significant noncompliance with applicable pretreatment requirements shall be annually published by the Department in a newspaper of general circulation that provides meaningful public notice within the city of New York. The Industrial User is hereby apprised that noncompliance with the provisions of this Permit may result in an enforcement action and publication of its name in an appropriate newspaper in accordance with Section 19-10(g) of the Sewer Use Regulations.

16. Civil and Criminal Liability

Nothing in this Permit shall be construed to relieve the Industrial User from civil and/or criminal penalties for noncompliance under Section 24-524(f) of the NYCAC.

17. Penalties for Violations of Permit Conditions

Section 24-524(f) of NYCAC provides that any person who fails to comply with any of the provisions of Sections 24-504 through 24-522 and 24-523 of the Code, the Sewer Use Regulations, Order of the Commissioner or Environmental Control Board or a Permit condition shall be liable for a civil penalty of up to $10,000.00 for each violation. In the case of a continuing violation, each day's continuance shall be a separate and distinct offense. In addition to civil penalties, any person who knowingly violates or fails to comply with any of the above-cited provisions shall be guilty of a misdemeanor and subject to a fine of up to $10,000.00 and/or to imprisonment not exceeding thirty days. The Industrial User may also be subject to sanctions under State and/or Federal law.

## SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROL SYSTEMS

1. Proper Operation and Maintenance

The Industrial User shall at all times properly operate and maintain all facilities and systems for treatment, monitoring and control (and related appurtenances) that are installed or used by the Industrial User to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes, but is not limited to, effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the Permit.

2. Duty to Halt or Reduce Activity

Upon reduction of efficiency of operation or loss or failure of all or part of the pretreatment facility, the Industrial User shall, to the extent necessary to maintain compliance with its Permit, control production or all discharges or both until operation of the pretreatment facility is restored or an alternative method of pretreatment is provided. This requirement applies, for example, when the primary source of power of the pretreatment facility fails or is reduced. It shall not be a defense for an Industrial User in an enforcement action to state that it would have been necessary to halt or reduce the Permitted activity in order to maintain compliance with the conditions of this Permit.

3. Bypass of Pretreatment Facilities

a. Bypass is prohibited unless

i. it is unavoidable to prevent loss of life, personal injury, or severe property damage, no feasible alternatives exist, and the Industrial User submits notification as required by subparagraph (b) of this paragraph; or

ii. it is for essential maintenance to assure efficient operation, it does not cause pretreatment standards or requirements to be violated, and the Industrial User submits notification as required by subparagraph (b) of this paragraph.

b. Notification of bypass:

i. Anticipated bypass - If the Industrial User knows in advance of the need for a bypass, it shall submit prior written notice, at least ten days before the date of the bypass, to the Department.

ii. Unanticipated bypass - The Industrial User shall immediately notify the Department by calling 311, New York City's General Information Number, and shall submit a written notice to the Department within 5 days after the bypass. This report shall specify:

(1) a description of the bypass, its cause and duration;
(2) whether the bypass has been corrected; and
(3) the steps being taken or to be taken to reduce, eliminate and prevent a recurrence of the bypass.

When calling 311, you must ask for and record your complaint number for proof of compliance with your notification requirements.

4. Disposal of Hazardous Wastes

All solids, sludges, resins or residues, filter backwash or other pollutants removed in the course of pretreatment or control of wastewater shall be handled and disposed of in accordance with all New York State hazardous wastes requirements and RCRA requirements including, but not limited to, subtitles C and D thereof.

## SECTION C. MONITORING AND RECORDS

1. Toxic Organics

The Industrial User may not use the certifications provided below for any organic pollutants for which sampling is required under the Industrial User's applicable Federal Categorical Standards. The Industrial User must sample and analyze its wastewater for all such organic pollutants.

The Industrial User shall satisfy the following Toxic Organics requirements:

a. Indicate in each periodic report concerning continued compliance as required by Part I, Sect. C of this Permit which Toxic Organics, if any, were used or stored during the reporting period, and their amounts.

b. Sample and analyze its wastewater for those Toxic Organics that would reasonably be expected to be present.

c. In lieu of monitoring for Toxic Organics and upon scribed request, the Department may allow the Industrial User to make one of the following certifications in its periodic self-monitoring reports:

i. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, no toxic organics were used or stored at my facility during the reporting period covered by this report. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

**OR**

ii. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, there was no discharge to a public sewer of toxic organics during the reporting period covered by this report. I also certify that the explanations provided concerning the disposal of toxic organics from the facility are true, accurate and complete. I further certify that this facility is implementing a toxic organics management plan to protect against the release of such compounds to a public sewer. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

If certification **(ii)** is made, the facility must also submit a Toxic Organics Management Plan (TOMP) for approval by the Department. An acceptable TOMP must contain:

i. a list of all toxic organic compounds used or stored at your facility; and

ii. a description of the storage, handling and disposal practices for control of toxic compounds at your facility, including procedures for ensuring that toxic organics do not spill or leak into your wastewater.

2. <u>Sampling and Analysis</u>

a. Samples and measurements taken as required in this Permit shall be representative of the volume and nature of the monitored discharge. Samples shall be taken at the monitoring points specified in this Permit and, unless otherwise specified, before the effluent joins or is diluted by any other wastestream, body of water or substance. Monitoring points shall not be changed without prior written approval of the Department.

b. All handling and preservation of collected samples and laboratory analyses of samples shall be performed in accordance with 40 C.F.R. pt. 136. If 40 C.F.R. pt. 136 does not cover the pollutant in question, the handling, preservation, and analysis must be performed in accordance with the latest edition of "Standard Methods for the Examination of Water and Wastewater." All analyses shall be performed using a detection limit less than the lowest applicable regulatory discharge limit.

c. All laboratory analyses must be conducted by a New York State Health Department certified wastewater laboratory. The results must be certified by the laboratory and submitted on the laboratory's letterhead. For each sample, the laboratory report must indicate the date of sampling, time sample was taken, sample location, chain of custody, sampling preservation procedures, analytical techniques used, date of analysis, units of measurement, and the laboratory's sample identification; where the analytical result reported is below the method detection level, the laboratory report must also indicate the method detection level.

3. Flow Measurements

If flow measurements are required by this Permit, the appropriate flow measurement devices and methods consistent with approved scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharge. The devices shall be installed, calibrated and maintained to ensure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes.

4. Inspection and Entry

The Industrial User shall allow duly authorized representatives of the Department to:

a. Enter upon the Industrial User's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

b. Have access to and copy, at reasonable times, any records that must be kept by law or regulation and/or under the conditions of this Permit;

c. Inspect, videotape, photograph or otherwise record at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit;

d. Sample or monitor, for the purposes of assuring Permit compliance, any substance or parameters at any location; and

e. Inspect, videotape, photograph or otherwise record any production, manufacturing, fabricating or storage area where pollutants, regulated or required under this Permit could originate, be stored or be discharged to the public sewer.

The applicant, by accepting any Permit issued, does hereby consent and agree to entry upon the premises as described herein.

5. Retention of Records

a. The Industrial User shall retain records of all monitoring information, including all calibration and maintenance records and original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Permit, and records of all data used to complete the application for this Permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by order of the Commissioner at any time.

b. All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the Department shall be retained and preserved by the Industrial User until all enforcement activities have concluded and all periods of limitations with respect to any and all appeals have expired.

6. Record Contents

Records of sampling information shall include:

a. The date, exact place, time and methods of sampling or measurement, and sample preservation techniques or procedures;

b. Who performed the sampling or measurements;

c. The date(s) analyses were performed;

d. Laboratory that performed the analyses;

e. The analytical techniques or methods used;

f. The results of each analysis;

g. The chain of custody of each sample;

h. Method detection level where analytical result reported is non-detect;

i. Units of measurement for each analytical result; and

j. Laboratory's sample identification for each sample.

7. Falsifying Information

It is unlawful to make any false statement representation or certification in any application, report, plan or other document required by this Permit or to falsify, tamper with or knowingly render any monitoring device or method inaccurate.

## SECTION D. ADDITIONAL REPORTING REQUIREMENTS

1. Additional Monitoring

If the Industrial User monitors any pollutant more frequently than required by this Permit, using test procedures prescribed in 40 C.F.R. pt. 136 or otherwise approved by EPA or specified in this Permit, the results of such monitoring shall be submitted to the Department in its next self-monitoring report.

2. Automatic Resampling

If the results of the Industrial User's wastewater discharge sampling indicates a violation, the Industrial User shall:

a. notify the Department within 24 hours of becoming aware of the violation; and

b. repeat the sampling and analysis and submit the results of the second analysis to the Department within 30 days after becoming aware of the violation.

3. Split Sampling Results

If the Industrial User requests and analyzes a split sample(s) during a Department sampling event, the results of such analysis shall be submitted to the Department within 45 days of the date the Industrial User received the sample(s) from the Department.

4. Accidental Discharge Notification

In the event of an accidental discharge in violation of any provision of the Sewer Use Regulations, the Industrial User shall immediately notify the Department, at any hour, by calling 311, New York City's General Information Number. You must ask for and record your complaint number for proof of compliance with your notification requirements.

Within five days following an accidental discharge, the Industrial User shall submit to the Department a detailed written report. The report shall specify:

a. the description of the accidental discharge, the cause thereof, and the impact on the Industrial User's compliance status, including the location of discharge, type, concentration and volume of waste;

b. the duration of noncompliance, including exact dates and time of noncompliance, and if the noncompliance continues, the time by which compliance is reasonably expected to occur; and

c. all steps taken to reduce, eliminate and prevent recurrence of such an upset, slug, accidental discharge, or other conditions of noncompliance.

5. Operating Upsets

Any Industrial User that experiences an upset in operations that places the Industrial User in a temporary state of noncompliance with the provisions of either this Permit or the Sewer Use Regulations, shall inform the Department immediately after becoming aware of the upset by calling 311, New York City's General Information Number. You must ask for and record your complaint number for proof of compliance with your notification requirements.

A written follow-up report thereof shall be filed by the Industrial User with the Department within five (5) days. The report shall specify:

a. the description of the upset or slug discharge, the cause(s) thereof and the upset's or slug discharge's impact on the Industrial User's compliance status;

b. the duration of noncompliance, including exact dates and times of noncompliance, and if the noncompliance continues, the time by which compliance is reasonably expected to occur; and

c. all steps taken or to be taken to reduce, eliminate and prevent recurrence of such an upset, slug discharge or other conditions of noncompliance.

6. Planned Changes

The Industrial User shall give written notice to the Department 90 days prior to any change in the Industrial User's name or address, or any facility expansion, production increase, or process modification that results in new or substantially increased discharges or a change in the nature of the discharge. The Industrial User shall also provide written notice 90 days prior to discontinuing any regulated process. The Industrial User shall notify the Department immediately of any changes at its facility affecting its potential for a slug discharge.

7. Anticipated Noncompliance

The Industrial User shall give a minimum of ten days advance notice to the Department of any planned changes in the Permitted facility or activity that may result in noncompliance with this Permit.

8. Signatory Requirements

All applications, reports or information submitted to the Department shall contain the following certification:

> "I certify under penalty of law that I have personally examined and am familiar with the information contained in this document and all attachments therein. Furthermore, based on my inquiry of those persons immediately responsible for obtaining the information contained in this document, I believe that this information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment."

This certification shall be signed by:

a. a responsible corporate officer if the Industrial User submitting the reports is a corporation. For the purpose of this paragraph, a responsible corporate officer means:

   i. president, secretary, treasurer or vice-president of the corporation in charge of a principal business function or any other person who performs similar policy or decision making functions for the corporation, or

   ii. the manager of one or more manufacturing, production or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; can ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

b. a general partner or proprietor if the Industrial User submitting the report is a partnership or sole proprietorship, respectively.

c. a duly authorized representative of the individual designated in paragraph (a) or (b) of this section if:

   i. The authorization is made in writing by the individual described in paragraph (a) or (b);

   ii. The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the industrial discharge originates, such as the position of plant manager, or a position of equivalent responsibility, or a position having overall responsibility for environmental matters for the company; and

iii. The written authorization is submitted to the Department.

If an authorization under this paragraph is no longer accurate because a different individual or position has responsibility for the overall operation of the facility or overall responsibility for the environmental matters of the company, a new authorization satisfying the requirement of this paragraph must be submitted to the Department prior to or together with any reports to be signed by an authorized representative.

| 1. | ★ Establishment Information ★ | | | |
|---|---|---|---|---|
| A. | Name: | | | |
| B. | Address: | | | |
| | | | | |
| C. | Industrial Category: | | | |
| D. | Contact Official: | | E. | Phone #: |
| F. | Reporting Period | | G. | Date sampled |
| | Start / / | End / / | Start / / | End / / |

Note: If the only wastewater discharges by your establishment into the public sewer system are sanitary or non-contact cooling water, do not address items in Tables 2, 3, 4, 5 and 6. In this case, check here [ ] and proceed directly to Table 7.

| 2. | ★Flow Information ★ | Average | Peak |
|---|---|---|---|
| A. | Total Plant Flow, gal/day | | |
| B. | Regulated Flow, gal/day | | |
| C. | Method of Flow Measurement: | | |
| | | | |
| | | | |

| 3. | ★ Sample Collection Information ★ |
|---|---|
| A. | Sampling Location: |
| | |
| B. | Sampling Procedures: |
| | |
| | |
| | |
| C. | Preservatives Used: |
| | |

| 4. | This establishment's wastewater discharge DOES [ ] / DOES NOT [ ] exceed nationwide categorical standard (s) or 15 RCNY 19-04 (a). |
|---|---|

8. ★ CERTIFICATIONS (CONTINUED) ★

B. TOXIC ORGANICS CERTIFICATION:

I. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, no Toxic Organics are used or stored at my facility. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Name (Print) _____ Signature _____

Title _____ Date _____ Phone# _____

**OR**

II "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, there was no discharge to a public sewer of toxic organics during the reporting period covered by this report. I also certify that the explanations provided concerning the disposal of toxic organics from the facility are true, accurate and complete. I further certify that this facility is implementing a toxic organics management plan to protect against the release of such compounds to a public sewer. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Name (Print) _____ Signature _____

Title _____ Date _____ Phone# _____

C. AUTHORIZED FIRM REPRESENTATIVE CERTIFICATION:

I hereby certify, under penalty of law, that I have personally examined and am familiar with the information contained in this report and all attachments therein. Furthermore, based on my inquiry of those persons immediately responsible for obtaining the information contained in this report, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I further certify that the reported sampling results are representative of the facility's normal work cycles and expected pollutant discharges.

Name (Print) _____ Signature _____

Title _____ Date _____ Phone# _____

| 9. | ★ DESCRIPTION OF OPERATION ★ |
|---|---|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| 10. | ★ ATTACHMENTS ★ | Yes | No | N/A |
|---|---|---|---|---|
| A. | All laboratory analyses must be conducted by a New York State Health Department certified wastewater laboratory. The results must be certified by the laboratory and submitted on the laboratory's letterhead. For each sample, the laboratory report must indicate the date of sampling, time sample was taken, sample location, sampling preservation procedures, analytical techniques used, date of analysis, units of measurement, and the laboratory's sample identification; where the analytical result reported is below the method detection level, the laboratory report must also indicate the method detection level. | | | |
| B. | Chain of custody for all samples. | | | |
| C. | Explanation of non-compliance and what will be done to rectify it. A compliance schedule is to be included. | | | |
| D. | Amount of spent solvents generated and method of disposal. Explanation of zero discharges to be included. | | | |
| E. | Description of any major modifications or malfunctions in manufacturing or pretreatment operations. | | | |
| F. | Hazardous wastes manifests. | | | |

**Name of Company & Address**
(for which this report is made )

**Report Date:** _____

**SAMPLES COLLECTED AT DISCHARGE POINT** _____

**(For example: E1, E2, or M1 As per DEP permit)**

| **DATE SAMPLED** | **00/00/00** | **00/00/00** | **00/00/00** | **00/00/00** |
|---|---|---|---|---|
| **DATE ANALYZED** | **00/00/00** | **00/00/00** | **00/00/00** | **00/00/00** |
| | | | | |
| **Metals (alphabetical)** | | | | |
| | | | | |
| **Cyanide (Amenable)** | | | | |
| **Cyanide (Total)** | | | | |
| | | | | |
| **Non-Polar Material** | | | | |
| | | | | |
| **Volatile Organic Compounds (Alphabetical)** | | | | |
| | | | | |
| **Semi Volatile Organic Compounds (Alphabetical)** | | | | |
| | | | | |
| **Others** | | | | |

EXAMPLE ONLY

All laboratory analyses must be conducted by a New York State Health Department certified wastewater laborato
The results must be certified by the laboratory and submitted on the laboratory's letterhead. For each sample, t
laboratory report must indicate the date of sampling, time sample was taken, sample location, chain of custoc
sampling preservation procedures, analytical techniques used, date of analysis, units of measurement, and t
laboratory's sample identification; where the analytical result reported is below the method detection level, t
laboratory report must also indicate the method detection level.

The certified laboratory may use their own analytical reporting form, and include additional information, howe
the reported pollutants **must** be in the above described order. Additionally the sampling point(s) referenced on t
form **must** be identified exactly as it appears in your permit or directive.

1430 Broadway, 10th Floor
New York, NY 10018

T 212.221.7822
TRCcompanies.com

June 30, 2021

Frances Leung, P.E., Chief
Industrial Inspection and Permitting Section
Bureau of Wastewater Treatment
New York City Department of Environmental Protection
96-05 Horace Harding Expressway
Corona, NY 11368

**RE:** Q4 Industrial Wastewater Discharge Self-Monitoring Report
New York City Department of Parks and Recreation
Brookfield Landfill/Park
575 Arthur Kill Road, Staten Island, NY 10308
Permit No. 18-P3149-1
TRC Project No. 384968

Dear Ms. Leung:

Enclosed please find the Q4 Industrial Wastewater Discharge Self-Monitoring Report (SMR) for the monitoring period of March 1, 2021 to May 31, 2021 for the New York City Department of Parks and Recreation (NYCDPR) Brookfield Avenue Landfill. The report contains SMR Forms with certifications, flow summary tables, M-1 sample result summary tables, laboratory results for the M-1 samples, and chain of custody forms. The results of the monthly sampling indicate there were no exceedances of any permit compound limits.

Please do not hesitate to contact me at (917) 794-3107 or via email at wlindemuth@trccompanies.com if you have any questions.

Sincerely,
**TRC Engineers, Inc.**

Wes Lindemuth

Wes D. Lindemuth, CHMM, CSP
Senior Project Manager

cc: K. Zias, A. Ehtesham, NYCDPR
K. Myers, R. Bowden, C. Lambert, TRC

Enclosure: Q4 Industrial Wastewater Discharge Self-Monitoring Report

# INDUSTRIAL USER SELF MONITORING REPORT

| 1. | ★ Establishment Information ★ | | | |
|---|---|---|---|---|
| A. | Name: Brookfield Avenue Landfill | | | |
| B. | Address: 575 Arthur Kill Road, Staten Island, NY 10308 | | | |
| | | | | |
| C. | Industrial Category: | | | |
| D. | Contact Official: Wes Lindemuth | | E. | Phone #: 917-794-3107 |
| F. | Reporting Period | | G. | Date sampled |
| | Start: 03/ 01 / 2021 | End: 05 / 31 / 2021 | Start: 03/17 / 21 | End: 05/21 /21 |

Note: If the only wastewater discharges by your establishment into the public sewer system are sanitary or non-contact cooling water, do not address items in Tables 2, 3, 4, 5 and 6. In this case, check here [ ] and proceed directly to Table 7.

| 2. | ★Flow Information ★ | Average | Peak |
|---|---|---|---|
| A. | Total Plant Flow, gal/day | 91,043.34 | 180,710.00 |
| B. | Regulated Flow, gal/day | 91,043.34 | 180,710.00 |
| C. | Method of Flow Measurement: Flow meter (non-resettable) on the discharge line to the on-Site sanitary manhole. | | |
| The water volume discharged is monitored daily. | | | |
| | | | |

| 3. | ★ Sample Collection Information ★ |
|---|---|
| A. | Sampling Location: Prior to the gravity discharge from the oil/water seperator into the on-Site sanitary sewer system, |
| a sample port installed on the effluent end of the discharge piping collects samples. | |
| B. | Sampling Procedures: Samples are collected in accordance with 40 DFR, 403.12(g)(3) which states that grab samples |
| must be used for pH, cyanide, total phenols, oil & grease, sulfide and VOCs. | |
| For all other pollutants, 24-hours composite samples are obtained through time-proportional composite sampling techniques. | |
| | |
| C. | Preservatives Used: HCl, H2SO4, NaOH, HNO3 |
| | |

| 4. | This establishment's wastewater discharge DOES [ ] / DOES NOT [X] exceed nationwide categorical standard (s) or 15 RCNY 19-04 (a). |
|---|---|

| 5. | ★ Production Rate ★ |
|---|---|
| If applicable, provide production rate: Not Applicable | |
| | |
| | |

| 6. | ★ pH Monitoring ★ | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (Four Samples Per Day - One Hour Apart - Once a Month) | | | | | | | | | | | | | |
| A. | Date | / / | | 03 / 17 / 21 | | 04 / 15 / 21 | | 05 / 20 / 21 | | / / | | / / | |
| B. | Time/pH | | | 1115 | 6.77 | 1000 | 7.55 | 0900 | 7.48 | | | | |
| | | | | 1215 | 7.02 | 1100 | 6.93 | 1000 | 7.31 | | | | |
| | | | | 1315 | 7.03 | 1200 | 6.44 | 1100 | 6.94 | | | | |
| | | | | 1415 | 7.37 | 1300 | 6.49 | 1200 | 7.10 | | | | |

| 7. | ★ HAZARDOUS WASTES GENERATION ★ |
|---|---|
| This establishment DID [ ] / DID NOT [X] generate any hazardous wastes, during this reporting period. If hazardous wastes were generated, | |
| A. | Type of Waste: |
| B. | Amount Generated (in kilograms) : |
| C. | Method of Disposal : |
| | |

| 8. | ★ CERTIFICATION ★ |
|---|---|

A. NON-CONTAMINATED WASTEWATER DISCHARGE CERTIFICATION:

I hereby certify, that during this reporting period, this facility has not discharged any industrial wastewater, chemicals, cleaners or like substances generated from or in relation to any of this establishment's operations other than sanitary or non-contact cooling water. I understand that I must obtain prior written approval from the Industrial Inspections and Permitting Section before I can discharge any such wastewater. I am aware that there are significant civil and criminal sanctions for submitting false information.

_____

Name (Print) Signature

_____

Title Date Phone #

8. ★ CERTIFICATIONS (CONTINUED) ★

B. TOXIC ORGANICS CERTIFICATION:

I. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, no Toxic Organics are used or stored at my facility. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

| Wes Lindemuth | | Wes Lindemuth |
|---|---|---|
| Name (Print) | | Signature |
| Senior Project Manager | 6/24/2021 | 917-794-3107 |
| Title | Date | Phone# |

**OR**

II "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, there was no discharge to a public sewer of toxic organics during the reporting period covered by this report. I also certify that the explanations provided concerning the disposal of toxic organics from the facility are true, accurate and complete. I further certify that this facility is implementing a toxic organics management plan to protect against the release of such compounds to a public sewer. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

| | | |
|---|---|---|
| Name (Print) | | Signature |
| Title | Date | Phone# |

C. AUTHORIZED FIRM REPRESENTATIVE CERTIFICATION:

I hereby certify, under penalty of law, that I have personally examined and am familiar with the information contained in this report and all attachments therein. Furthermore, based on my inquiry of those persons immediately responsible for obtaining the information contained in this report, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I further certify that the reported sampling results are representative of the facility's normal work cycles and expected pollutant discharges.

| Wes Lindemuth | | Wes Lindemuth |
|---|---|---|
| Name (Print) | | Signature |
| Senior Project Manager | 6/24/2021 | 917-794-3107 |
| Title | Date | Phone# |

Please sign the following certification if required by the Permit/Directive:

D CYANIDE CERTIFICATION

The Industrial User must sign and submit one of the following certifications in its periodic self-monitoring reports:

a. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, cyanide is not used or stored at my facility or generated in any of our manufacturing processes and there was no discharge of cyanide to the public sewer. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Name (print) Wes Lindemuth Signature Wes Lindemuth

Title Senior Project Manager Date 6/24/21 Phone Number 917-794-3107

**OR**

b. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, there was no discharge to a public sewer of cyanide-bearing waste during the reporting period covered by this report. I also certify that the explanations provided concerning the disposal of cyanide-bearing waste from the facility are true, accurate and complete. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Name (print)_____ Signature_____

Title_____ Date_____ Phone Number_____

If certification b. (above) is signed and submitted, explanations concerning the disposal of cyanide-bearing waste from the facility shall be provided.

| 9. | ★ DESCRIPTION OF OPERATION ★ |
|---|---|
| Site is a former landfill which is now operated as public Park. The discharge is comprised of landfill leachate which is allowed to pass through an oil-water separator prior to discharge. | |
| | |
| | |
| | |
| | |
| | |
| | |

| 10. | ★ ATTACHMENTS ★ | Yes | No | N/A |
|---|---|---|---|---|
| A. | All laboratory analyses must be conducted by a New York State Health Department certified wastewater laboratory. The results must be certified by the laboratory and submitted on the laboratory's letterhead. For each sample, the laboratory report must indicate the date of sampling, time sample was taken, sample location, sampling preservation procedures, analytical techniques used, date of analysis, units of measurement, and the laboratory's sample identification; where the analytical result reported is below the method detection level, the laboratory report must also indicate the method detection level. | X | | |
| B. | Chain of custody for all samples. | X | | |
| C. | Explanation of non-compliance and what will be done to rectify it. A compliance schedule is to be included. | | | X |
| D. | Amount of spent solvents generated and method of disposal. Explanation of zero discharges to be included. | | | X |
| E. | Description of any major modifications or malfunctions in manufacturing or pretreatment operations. | | | X |
| F. | Hazardous wastes manifests. | | | X |

# DAILY VOLUME OF DISCHARGE

# BROOKFIELD LANDFILL LEACHATE SYSTEM
# EFFLUENT FLOW METER REPORT

NYC Parks

| Date/Time | FLOW GPM *Instantaneous | FLOW TOTAL DAILY GAL *Resets at Midnight | FLOW TOTAL RUNNING GAL *Resets at 1 Billion Gallons |
|---|---|---|---|
| 3/1/21 0:00 | 69.13 | 106184.00 | 8575433.00 |
| 3/2/21 0:00 | 60.03 | 82647.00 | 8681617.00 |
| 3/3/21 0:00 | 61.45 | 84281.00 | 8764264.00 |
| 3/4/21 0:00 | 50.79 | 101095.00 | 8848545.00 |
| 3/5/21 0:00 | 92.30 | 126443.00 | 8949640.00 |
| 3/6/21 0:00 | 86.30 | 111957.00 | 9076083.00 |
| 3/7/21 0:00 | 51.63 | 99083.00 | 9188040.00 |
| 3/8/21 0:00 | 71.43 | 147316.00 | 9287123.00 |
| 3/9/21 0:00 | 93.78 | 67802.00 | 9434439.00 |
| 3/10/21 0:00 | 41.20 | 66673.00 | 9502241.00 |
| 3/11/21 0:00 | 43.00537 | 61511.00 | 9568914 |
| 3/12/21 0:00 | 39.73 | 64205.00 | 9630425.00 |
| 3/13/21 0:00 | 52.74 | 93630.00 | 9694630.00 |
| 3/14/21 0:00 | 77.84 | 84999.00 | 9788260.00 |
| 3/15/21 0:00 | 58.51762 | 127321.00 | 9873259 |
| 3/16/21 0:00 | 110.97 | 97130.00 | 10000580.00 |
| 3/17/21 0:00 | 53.20 | 77470.00 | 10097710.00 |
| 3/18/21 0:00 | 55.79 | 44390.00 | 10175180.00 |
| 3/19/21 0:00 | 5.58 | 48540.00 | 10219570.00 |
| 3/20/21 0:00 | 22.72 | 82130.00 | 10268110.00 |
| 3/21/21 0:00 | 61.97 | 88030.00 | 10350240.00 |
| 3/22/21 0:00 | 59.82 | 132520.00 | 10438270.00 |
| 3/23/21 0:00 | 111.94 | 120190.00 | 10570790.00 |
| 3/24/21 0:00 | 52.25 | 74660.00 | 10690980.00 |
| 3/25/21 0:00 | 53.39 | 88720.00 | 10765640.00 |
| 3/26/21 0:00 | 125.19 | 109980.00 | 10854360.00 |
| 3/27/21 0:00 | 66.74 | 100210.00 | 10964340.00 |
| 3/28/21 0:00 | 78.66 | 102050.00 | 11064550.00 |
| 3/29/21 0:00 | 71.27 | 95230.00 | 11166600.00 |
| 3/30/21 0:00 | 58.81 | 96270.00 | 11261830.00 |
| 3/31/21 0:00 | 66.34 | 114580.00 | 11358100.00 |
| 4/1/21 0:00 | 110.97 | 156730.00 | 11472680.00 |
| 4/2/21 0:00 | 91.43 | 130460.00 | 11629410.00 |
| 4/3/21 0:00 | 85.24 | 92610.00 | 11759870.00 |
| 4/4/21 0:00 | 48.76 | 99260.00 | 11852480.00 |
| 4/5/21 0:00 | 66.31 | 97672.19 | 11951740.00 |
| 4/6/21 0:00 | 67.79 | 102580.00 | 12065990.00 |
| 4/7/21 0:00 | 61.92 | 105170.00 | 12168570.00 |
| 4/8/21 0:00 | 80.54 | 113330.00 | 12273740.00 |
| 4/9/21 0:00 | 109.46 | 97990.00 | 12387070.00 |
| 4/10/21 0:00 | 65.11 | 101250.00 | 12485060.00 |
| 4/11/21 0:00 | 81.77 | 106720.00 | 12586310.00 |
| 4/12/21 0:00 | 58.45 | 93980.00 | 12693030.00 |
| 4/13/21 0:00 | 65.92 | 96420.00 | 12787010.00 |
| 4/14/21 0:00 | 76.03 | 130520.00 | 12883430.00 |
| 4/15/21 0:00 | 105.81 | 143170.00 | 13013950.00 |
| 4/16/21 0:00 | 102.73 | 180710.00 | 13157120.00 |
| 4/17/21 0:00 | 117.15 | 105080.00 | 13337830.00 |
| 4/18/21 0:00 | 53.86 | 67470.00 | 13442910.00 |
| 4/19/21 0:00 | 48.12 | 71360.00 | 13510380.00 |
| 4/20/21 0:00 | 53.13 | 89970.00 | 13581740.00 |
| 4/21/21 0:00 | 93.03 | 90250.00 | 13671710.00 |
| 4/22/21 0:00 | 48.33 | 64920.00 | 13761960.00 |
| 4/23/21 0:00 | 47.54 | 103640.00 | 13826880.00 |
| 4/24/21 0:00 | 99.59 | 67210.00 | 13930520.00 |
| 4/25/21 0:00 | 47.96 | 65980.00 | 13997730.00 |
| 4/26/21 0:00 | 44.33 | 123240.00 | 14063710.00 |
| 4/27/21 0:00 | 45.84 | 56340.00 | 14186950.00 |

# BROOKFIELD LANDFILL LEACHATE SYSTEM
# EFFLUENT FLOW METER REPORT

NYC Parks

| Date/Time | FLOW GPM *Instantaneous | FLOW TOTAL DAILY GAL *Resets at Midnight | FLOW TOTAL RUNNING GAL *Resets at 1 Billion Gallons |
|---|---|---|---|
| 4/28/21 0:00 | 0.10 | 40690.00 | 14243290.00 |
| 4/29/21 0:00 | 0.13 | 64330.00 | 14283980.00 |
| 4/30/21 0:00 | 94.09 | 66970.00 | 14348310.00 |
| 5/1/21 0:00 | 47.67 | 29650.00 | 14415280.00 |
| 5/2/21 0:00 | 0.13 | 147830.00 | 14444930.00 |
| 5/3/21 0:00 | 122.82 | 159030.00 | 14592760.00 |
| 5/4/21 0:00 | 107.13 | 167060.00 | 14751790.00 |
| 5/5/21 0:00 | 101.75 | 81830.00 | 14918850.00 |
| 5/6/21 0:00 | 39.39 | 68500.00 | 15000680.00 |
| 5/7/21 0:00 | 47.44 | 51860.00 | 15069180.00 |
| 5/8/21 0:00 | 47.58 | 84790.00 | 15121040.00 |
| 5/9/21 0:00 | 95.33 | 73160.00 | 15205830.00 |
| 5/10/21 0:00 | 45.18 | 64480.00 | 15278990.00 |
| 5/11/21 0:00 | 48.50 | 83300.00 | 15343470.00 |
| 5/12/21 0:00 | 103.60 | 81170.00 | 15426770.00 |
| 5/13/21 0:00 | 53.36 | 80780.00 | 15507940.00 |
| 5/14/21 0:00 | 48.17 | 72790.00 | 15588720.00 |
| 5/15/21 0:00 | 98.14 | 78300.00 | 15661510.00 |
| 5/16/21 0:00 | 50.99 | 52480.00 | 15739810.00 |
| 5/17/21 0:00 | 47.78 | 49040.00 | 15792290.00 |
| 5/18/21 0:00 | 42.99 | 171390.00 | 15841330.00 |
| 5/19/21 0:00 | 137.19 | 171700.00 | 16012720.00 |
| 5/20/21 0:00 | 105.22 | 12230.00 | 16184420.00 |
| 5/21/21 0:00 | 0.11 | 15870.00 | 16196650.00 |
| 5/22/21 0:00 | 0.11 | 220.00 | 16212520.00 |
| 5/23/21 0:00 | 0.16 | 230.00 | 16212740.00 |
| 5/24/21 0:00 | 0.16 | 17760.00 | 16212970.00 |
| 5/25/21 0:00 | 68.90 | 106940.00 | 16230730.00 |
| 5/26/21 0:00 | 86.40 | 119170.00 | 16337670.00 |
| 5/27/21 0:00 | 55.95 | 88740.00 | 16456840.00 |
| 5/28/21 0:00 | 0.13 | 8240.00 | 16545580.00 |
| 5/29/21 0:00 | 0.76 | 130690.00 | 16553820.00 |
| 5/30/21 0:00 | 90.49 | 144390.00 | 16684510.00 |
| 5/31/21 0:00 | 87.11 | 141496.80 | 16828900.00 |
| 5/31/21 23:00 | 81.00 | 119776.60 | 16951420.00 |

# LAB DATA SUMMARY

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Self Monitoring Report Results for Industrial Wastewater Discharge Permit No: 18-P3149-1
March 2021

| Sample ID | Sewer Use Limits (15 R.C.N.Y. ch. 19) | M1-COMP-3-18-2021 | M1-COMP (A-D)-3-17-2021 | M1-A-3-17-2021 | M1-B-3-17-2021 | M1-C-3-17-2021 | M1-D-3-17-2021 |
|---|---|---|---|---|---|---|---|
| Lab ID | | AD22298-005 | AD22298-001 | | | | |
| Date | | 3/18/2021 | 3/17/2021 | 3/17/2021 | 3/17/2021 | 3/17/2021 | 3/17/2021 |
| **VOCs (ppb)** | | | | | | | |
| 1,1,1-Trichloroethane | NS | | 1.0 U | | | | |
| 1,2,4-Trichlorobenzene | NS | | 1.0 U | | | | |
| Benzene | Daily Limit: 134 Monthly Limit: 57 | | 0.50 U | | | | |
| Carbon Tetrachloride | NS | | 1.0 U | | | | |
| Chloroform | NS | | 2.0 U | | | | |
| Ethylbenzene | Daily Limit: 380 Monthly Limit: 142 | | 1.0 U | | | | |
| Methyl-Tert-Butyl-Ether (MTBE) | 50 | | 0.50 U | | | | |
| Tetrachloroethene (Perc) | 20 | | 1.0 U | | | | |
| Toluene | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| Xylenes (Total) | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| **Semi-Volatile Organics (ppb)** | | | | | | | |
| Naphthalene | Daily Limit: 47 Monthly Limit: 19 | 0.50 U | | | | | |
| 1,4-Dichlorobenzene | NS | 2.0 U | | | | | |
| Phenol | NS | 2.3 | | | | | |
| **Pesticides/ PBCs (ppb)** | 1.0 (Total PCBs, 7 PCB compounds) | | | | | | |
| Arodor-1016 | | 0.25 U | | | | | |
| Arodor-1242 | | 0.25 U | | | | | |
| Arodor-1254 | | 0.25 U | | | | | |
| Arodor-1221 | | 0.25 U | | | | | |
| Arodor-1232 | | 0.25 U | | | | | |
| Arodor-1248 | | 0.25 U | | | | | |
| Arodor-1260 | | 0.25 U | | | | | |
| **Metals (mg/L)** | | | | | | | |
| Cadmium | 2 | 0.002 U | | | | | |
| Chromium (Total) | 5 | 0.05 U | | | | | |
| Chromium (Hexavalent) | 5 | 0.02 U | | | | | |
| Copper | 5 | 0.05 U | | | | | |
| Lead | 2 | 0.003 U | | | | | |
| Mercury | 0.05 | 0.0005 U | | | | | |
| Molybdenum | NS | 0.002 U | | | | | |
| Nickel | 3 | 0.05 U | | | | | |
| Silver | NS | 0.02 U | | | | | |
| Zinc | 5 | 0.05 U | | | | | |
| **General Chemistry Analysis** | | | | | | | |
| Carbonaceous Biochemical Oxygen Demand (CBOD) (mg/L) | NS | 3.0 | | | | | |
| Total Nitrogen (mg/L) | NS | 2.0 U | | | | | |
| Chloride (mg/L) | NS | 590 | | | | | |
| Cyanide (Total) (mg/L) | 0.2 | | <0.01 U | | | | |
| Cyanide (Amenable to Chlorination) (mg/L) | 0.2 | | <0.01 U | | | | |
| Total Suspended Solids (TSS) (ppm) | 350 | | 8.4 | | | | |
| Non-Polar Material (Oil and Grease 1664-A HEM) (mg/L) | 50 | | 5.9 U | | | | |
| pH | 5.0-12.0 Standard Units | | | 6.77 | 7.02 | 7.03 | 7.37 |
| TKN (mg/L) | NS | 48.9 | | | | | |
| Temperature | Deg. C ( < 65.5 ) | | | 7.78 | 8.20 | 8.76 | 12.86 |

**Notes:**

**< = Less than**

**NS = No Standard**

**U = Not Detected**

**( Blank ) = Parameter not required for analysis**

**Bold = Above Daily Limit**

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Self Monitoring Report Results for Industrial Wastewater Discharge Permit No: 18-P3149-1
April 2021

| Sample ID | Sewer Use Limits (15 R.C.N.Y. ch. 19) | M1-COMP-4-16-2021 | M1-COMP (A-D)-4-15-2021 | M1-A-4-15-2021 | M1-B-4-15-2021 | M1-C-4-15-2021 | M1-D-4-15-2021 |
|---|---|---|---|---|---|---|---|
| Lab ID | | AD22848-002 | AD22848-001 | | | | |
| Date | | 4/16/2021 | 4/15/2021 | 4/15/2021 | 4/15/2021 | 4/15/2021 | 4/15/2021 |
| **VOCs (ppb)** | | | | | | | |
| 1,1,1-Trichloroethane | NS | | 1.0 U | | | | |
| 1,2,4-Trichlorobenzene | NS | | 1.0 U | | | | |
| Benzene | Daily Limit: 134 Monthly Limit: 57 | | 0.50 U | | | | |
| Carbon Tetrachloride | NS | | 1.0 U | | | | |
| Chloroform | NS | | 2.0 U | | | | |
| Ethylbenzene | Daily Limit: 380 Monthly Limit: 142 | | 1.0 U | | | | |
| Methyl-Tert-Butyl-Ether (MTBE) | 50 | | 0.50 U | | | | |
| Tetrachloroethene (Perc) | 20 | | 1.0 U | | | | |
| Toluene | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| Xylenes (Total) | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| **Semi-Volatile Organics (ppb)** | | | | | | | |
| Naphthalene | Daily Limit: 47 Monthly Limit: 19 | 0.50 U | | | | | |
| 1,4-Dichlorobenzene | NS | 2.0 U | | | | | |
| Phenol | NS | 9.6 | | | | | |
| **Pesticides/ PBCs (ppb)** | 1.0 (Total PCBs, 7 PCB compounds) | | | | | | |
| Arodor-1016 | | 0.25 U | | | | | |
| Arodor-1242 | | 0.25 U | | | | | |
| Arodor-1254 | | 0.25 U | | | | | |
| Arodor-1221 | | 0.25 U | | | | | |
| Arodor-1232 | | 0.25 U | | | | | |
| Arodor-1248 | | 0.25 U | | | | | |
| Arodor-1260 | | 0.25 U | | | | | |
| **Metals (mg/L)** | | | | | | | |
| Cadmium | 2 | 0.002 U | | | | | |
| Chromium (Total) | 5 | 0.002 U | | | | | |
| Chromium (Hexavalent) | 5 | 0.020 U | | | | | |
| Copper | 5 | 0.05 U | | | | | |
| Lead | 2 | 0.003 U | | | | | |
| Mercury | 0.05 | 0.0005 U | | | | | |
| Molybdenum | NS | 0.002 U | | | | | |
| Nickel | 3 | 0.003 U | | | | | |
| Silver | NS | 0.02 U | | | | | |
| Zinc | 5 | 0.025 | | | | | |
| **General Chemistry Analysis** | | | | | | | |
| Carbonaceous Biochemical Oxygen Demand (CBOD) (mg/L) | NS | 3.3 | | | | | |
| Total Nitrogen (mg/L) | NS | 2.0 U | | | | | |
| Chloride (mg/L) | NS | 530 | | | | | |
| Cyanide (Total) (mg/L) | 0.2 | | <0.01 U | | | | |
| Cyanide (Amenable to Chlorination) (mg/L) | 0.2 | | <0.01 U | | | | |
| Total Suspended Solids (TSS) (ppm) | 350 | | 25 | | | | |
| Non-Polar Material (Oil and Grease 1664-A HEM) (mg/L) | 50 | | 5.6 U | | | | |
| pH | 5.0-12.0 Standard Units | | | 7.55 | 6.93 | 6.44 | 6.49 |
| TKN (mg/L) | NS | 42.0 | | | | | |
| Temperature | Deg. C ( < 65.5 ) | | | 11.38 | 11.11 | 10.94 | 10.99 |

**Notes:**

**< = Less than**

**NS = No Standard**

**U = Not Detected**

**( Blank ) = Parameter not required for analysis**

**Bold = Above Daily Limit**

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Self Monitoring Report Results for Industrial Wastewater Discharge Permit No: 18-P3149-1
May 2021

| Sample ID | Sewer Use Limits (15 R.C.N.Y. ch. 19) | M1-COMP-05-21-2021 | M1-ABCD COMP 05-20-2021 | M1-A-5-20-2021 | M1-B-5-20-2021 | M1-C-5-20-2021 | M1-D-5-20-2021 |
|---|---|---|---|---|---|---|---|
| Lab ID | | AD23549-002 | AD23549-001 | | | | |
| Date | | 5/21/2021 | 5/20/2021 | 5/20/2021 | 5/20/2021 | 5/20/2021 | 5/20/2021 |
| **VOCs (ppb)** | | | | | | | |
| 1,1,1-Trichloroethane | NS | | 1.0 U | | | | |
| 1,2,4-Trichlorobenzene | NS | | 1.0 U | | | | |
| Benzene | Daily Limit: 134 Monthly Limit: 57 | | 0.50 U | | | | |
| Carbon Tetrachloride | NS | | 1.0 U | | | | |
| Chloroform | NS | | 2.0 U | | | | |
| Ethylbenzene | Daily Limit: 380 Monthly Limit: 142 | | 1.0 U | | | | |
| Methyl-Tert-Butyl-Ether (MTBE) | 50 | | 0.50 U | | | | |
| Tetrachloroethene (Perc) | 20 | | 1.0 U | | | | |
| Toluene | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| Xylenes (Total) | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| **Semi-Volatile Organics (ppb)** | | | | | | | |
| Naphthalene | Daily Limit: 47 Monthly Limit: 19 | 0.50 U | | | | | |
| 1,4-Dichlorobenzene | NS | 2.0 U | | | | | |
| Phenol | NS | 2.0 U | | | | | |
| **Pesticides/ PBCs (ppb)** | 1.0 (Total PCBs, 7 PCB compounds) | | | | | | |
| Aroclor-1016 | | 0.25 U | | | | | |
| Aroclor-1242 | | 0.25 U | | | | | |
| Aroclor-1254 | | 0.25 U | | | | | |
| Aroclor-1221 | | 0.25 U | | | | | |
| Aroclor-1232 | | 0.25 U | | | | | |
| Aroclor-1248 | | 0.25 U | | | | | |
| Aroclor-1260 | | 0.25 U | | | | | |
| **Metals (mg/L)** | | | | | | | |
| Cadmium | 2 | 0.002 U | | | | | |
| Chromium (Total) | 5 | 0.002 U | | | | | |
| Chromium (Hexavalent) | 5 | 0.020 U | | | | | |
| Copper | 5 | 0.05 U | | | | | |
| Lead | 2 | 0.003 U | | | | | |
| Mercury | 0.05 | 0.0005 U | | | | | |
| Molybdenum | NS | 0.002 U | | | | | |
| Nickel | 3 | 0.003 U | | | | | |
| Silver | NS | 0.02 U | | | | | |
| Zinc | 5 | 0.02 | | | | | |
| **General Chemistry Analysis** | | | | | | | |
| Carbonaceous Biochemical Oxygen Demand (CBOD) (mg/L) | NS | 2.0 U | | | | | |
| Total Nitrogen (mg/L) | NS | 2.0 U | | | | | |
| Chloride (mg/L) | NS | 600 | | | | | |
| Cyanide (Total) (mg/L) | 0.2 | | 0.01 | | | | |
| Cyanide (Amenable to Chlorination) (mg/L) | 0.2 | | <0.005 U | | | | |
| Total Suspended Solids (TSS) (ppm) | 350 | | 17 | | | | |
| Non-Polar Material (Oil and Grease 1664-A HEM) (mg/L) | 50 | | 5.5 U | | | | |
| pH | 5.0-12.0 Standard Units | | | 7.48 | 7.31 | 6.94 | 7.10 |
| TKN (mg/L) | NS | 52.4 | | | | | |
| Temperature | Deg. C ( < 65.5 ) | | | 19.34 | 20.07 | 20.84 | 21.3 |

**Notes:**

**< = Less than**

**NS = No Standard**

**U = Not Detected**

**( Blank ) = Parameter not required for analysis**

**Bold = Above Daily Limit**

# LABORATORY REPORTS

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

# Project: Brookfield Landfill

**Client PO:** 152591

**Report To:** TRC Engineering
1430 Broadway
10th Floor
New York, NY 10018
Attn: Wes Lindemuth

**Received Date:** 3/18/2021

**Report Date:** 4/15/2021

**Deliverables:** NYDOH-CatB

**Lab ID:** AD22298

**Lab Project No:** 1031819

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

**Sean Berls - Quality Assurance Officer** OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Hampton-Clarke
WBE/DBE/SBE 800-426-9992

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# SDG Narrative

# HC Case Narrative

**Client:** TRC Engineering
**Project:** Brookfield Landfill

**HC Project:** 1031819

**Hampton-Clarke (HC) received the following samples on 3/18/21:**

| Client ID | HC Sample ID | Matrix | Analysis |
|---|---|---|---|
| M1- COMP (A-D) 3-17-2021 | AD22298-001 | Aqueous | Volatile Organics (8260D), SGT-HEM (1664B), TSS (SM2540D-11), *Cyanide (9012B), *Cyanide (Amenable) (9012B) |
| M1-COMP-3-18-2021 | AD22298-005 | Aqueous | Semivolatile Organics (8270E), PCB (8082A), Mercury (7470A), TAL Metals (6010D/6020B), Carbonaceous BOD (SM5210 B-11), Chloride (300.0), Nitrite/Nitrate (300.0),Cr(Hex) (SM3500-CrB11), *TKN (351) |

* - Indicates analysis was performed by a subcontracted laboratory.

*This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.*

## Volatile Organic Analysis:

The Method Blank Spike for batch 92013 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for batch 92013 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

2-Chloroethylvinylether did not recover in the Matrix Spike and/or Matrix Spike Duplicate in batch 92013 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample. Please refer to the applicable Form 3 for the recoveries.

## Base Neutral/Acid Extractable Analysis:

The MS/MSD RPD for batch 91180 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

## PCB Analysis:

Data conforms to method requirements.

## Metals Analysis:

The Post Spike for batch 90037 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

## Wet Chemistry Analysis:

The Matrix Spike for Nitrate, batch 2702 had recoveries outside QC limits. Please refer to the QC section for the recoveries.

The % difference between dilutions for sample AD22298-005 felt outside the of 30% limit.

## Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Samples AD22298-001, -002 were submitted to Pace Analytical for Cyanide, Cyanide Amenable and TKN analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

4/15/2021
Date

# Reporting Limit Definitions

# HC Reporting Limit Definitions/Data Qualifiers

## REPORTING DEFINITIONS

**DF** = Dilution Factor

**LCS** = Laboratory Control Spike

**MBS** = Method Blank Spike

**MS** = Matrix Spike

**MSD** = Matrix Spike Duplicate

**MDL** = Method Detection Limit

**NA** = Not Applicable

**ND** = Not Detected

**PS** = Post Digestion Spike

**RL*** = Reporting Limit

**RT** = Retention Time

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

## DATA QUALIFIERS

**A-** Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

**B-** Indicates analyte was present in the Method Blank and sample.

**d-** For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

**E-** Indicates the concentration exceeded the upper calibration range of the instrument.

**J-** Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

**R-** Retention Time is out.

**Y-** Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

# Data Package Summary Forms

# HC Report of Analysis

**Client:** TRC Engineering
**Project:** Brookfield Landfill

**HC Project #:** 1031819

**Sample ID:** M1-COMP (A-D)-3-17-2021
**Lab#:** AD22298-001
**Matrix:** Aqueous

**Collection Date:** 3/17/2021
**Receipt Date:** 3/18/2021

**Cyanide (Amenable) 9012B**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Cyanide | 1 | ug/l | | 10.0 | <10.0 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Cyanide | 1 | ug/l | | 10.0 | <10.0 |

**SGT-HEM (Non-Polar Material) 1664B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | 1 | mg/l | 5.9 | ND |

**Total Suspended Solids (SM2540D-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Suspended Solids @ 103-105 C | 1 | mg/l | 4.0 | 8.4 |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

Sample ID: M1-comp-3-18-2021
Lab#: AD22298-005
Matrix: Aqueous

Collection Date: 3/18/2021
Receipt Date: 3/18/2021

**Carbonaceous BOD-5 Day (SM5210 B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Carbonaceous Bod, 5 Day | 1 | mg/l | 2.0 | 3.0 |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 20 | mg/l | 40 | 590 |

**Cr (Hexavalent) 3500-Cr B11**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cr (Hexavalent) | 1 | mg/l | 0.020 | ND |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Nitrite-N (Aqueous) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrite | 1 | mg/l | 1.0 | ND |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1 | ug/l | 2.0 | ND |
| Naphthalene | 1 | ug/l | 0.50 | ND |
| Phenol | 1 | ug/l | 2.0 | 2.3 |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Silver | 1 | ug/l | 20 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cadmium | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Molybdenum | 1 | ug/l | 2.0 | ND |

**Total Kjeldahl Nitrogen EPA 351**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Total Kjeldahl Nitrogen | 10 | mg/l | | 5.0 | 48.9 |

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD22298-001
Client Id: M1-A-3-17-2021
Data File: 11M89549.D
Analysis Date: 03/25/21 11:40
Date Rec/Extracted: 03/18/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 56-23-5 | Carbon Tetrachloride | 1.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 67-66-3 | Chloroform | 2.0 | U | 108-88-3 | Toluene | 1.0 | U |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1330-20-7 | Xylenes (Total) | 1.0 | U |

Worksheet #: 585731

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD22298-005
Client Id: M1-comp-3-18-2021
Data File: 10M84953.D
Analysis Date: 03/24/21 16:27
Date Rec/Extracted: 03/18/21-03/24/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 106-46-7 | 1,4-Dichlorobenzene | 2.0 | U | **108-95-2** | **Phenol** | **2.0** | **2.3** |
| 91-20-3 | Naphthalene | 0.50 | U | | | | |

Worksheet #: 585778

***Total Target Concentration*** 2.3

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD22298-005
Client Id: M1-comp-3-18-2021
Data File: 3G126582.D
Analysis Date: 03/24/21 10:46
Date Rec/Extracted: 03/18/21-03/23/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 12672-29-6 | Aroclor-1248 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 585796

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD22298-005 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | M1-comp-3-18-2021 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 3/19/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 03/25/21 | 900372521 | BNEW | 36 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 03/25/21 | 900372521 | BNEW | 36 | MS | MS3_7700SWA |
| 7439-98-7 | Molybdenum | 2.0 | ND | 1 | 50 | 100 | 03/25/21 | 900372521 | BNEW | 36 | MS | MS3_7700SWA |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD22298-005 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | M1-comp-3-18-2021 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 3/19/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 03/25/21 | 90037 | W26919A2 | 17 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 03/25/21 | 90037 | W26919A2 | 17 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 03/25/21 | 90037 | H26919SW | 14 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 03/25/21 | 90037 | W26919A2 | 17 | P | PEICP2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 03/25/21 | 90037 | W26919A2 | 17 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 03/25/21 | 90037 | W26919A2 | 17 | P | PEICP2A |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD22298-001
Matrix: Aqueous
Client SampleID: M1-A-3-17-2021
Project Number: 1031819
Received Date: 3/18/2021
Collect Date: 3/17/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | HEM-NPM | 1 | ND | mg/L | 5.9 | 03/22/21 | 03/22/21 |
| Total Suspended Solids @ 103-105 | TSS-MUR | 1 | 8.4 | mg/l | 4.0 | 03/22/21 | 03/22/21 |

Lab#: AD22298-005
Matrix: Aqueous
Client SampleID: M1-comp-3-18-2021
Project Number: 1031819
Received Date: 3/18/2021
Collect Date: 3/18/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Carbonaceous Bod, 5 Day | CBOD-5-MUR | 1 | 3.0 | MG/L | 2.0 | 03/19/21 | 03/24/21 |
| Chloride | CHLORIDE-ICW | 20 | 590 | mg/L | 40 | 03/23/21 | 03/23/21 |
| Cr (Hexavalent) | CR6-WATER | 1 | ND | mg/l | 0.020 | 03/25/21 | 03/25/21 |
| Nitrite | NO2-ICW | 1 | ND | mg/L | 1.0 | 03/18/21 | 03/18/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 03/18/21 | 03/18/21 |

# Chain of Custody Forms

1031819 0016

# Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992
*A Women-Owned, Disadvantaged, Small Business Enterprise*

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

## CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 1031819

Page 1 of 1

### 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | (Summary) | NJ Hazsite |
| 1 Business Day (100%)* | Results + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%)* | Reduced: | EnviroData |
| 3 Business Days (50%)* | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%)* | [ ] PA [ ] Other___ | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full / (NY ASP CatB) | [ ] NYDEC |
| 8 Business Days (Stand.) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: | | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

### Customer Information

1a) Customer: TRC
Address: 1430 Broadway
New York, NY 10018
1b) Email/Cell/Fax/Ph: abartlett@trccompanies.com
1c) Send Invoice to: WLindemuth@trccompanies.com
1d) Send Report to: WLindemuth@trccompanies.com RBowden@trccompanies.com abartlett@trccompanies.com

### Project Information

2a) Project: Brookfield Landfill
Project # 384968
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): Staten Island, NY
2d) Quote/PO # (If Applicable): 152591

FOR LAB USE ONLY ↓

Batch # AD22298

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs (8260) | Cyanide (total) | cyanide (amenable) | Total Suspended Solids | Non-polar Material | PCBs | SVOCs (8270) | Cadmium, chromium (hexavalent), copper, lead, mercury, silver | molybdenum, nickel, zinc, chromium (total) | COD, total nitrogen, chloride | TKN | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~001~~ 001 | M1-A-3-17-2021 | GW | 3/17/21 | 1115 | | X | X | X | X | X | X | | | | | | | 2 | | | 2 | 5 | | | | |
| ~~002~~ | M1-B-3-17-2021 | GW | 3/17/21 | 1215 | | X | X | X | X | X | X | | | | | | | 2 | | | 2 | 5 | | | | |
| ~~003~~ | M1-C-3-17-2021 | GW | 3/17/21 | 1315 | | X | X | X | X | X | X | | | | | | | 2 | | | 2 | 5 | | | | |
| ~~004~~ ↓ | M1-D-3-17-2021 | GW | 3/17/21 | 1415 | | X | X | X | X | X | X | | | | | | | 2 | | | 2 | 5 | | | | |
| ~~005~~ 002 | M1-COMP-3-18-2021 | GW | 3/18/21 | 900 | X | | | | | | | X | X | X | X | X | X | 7 | | | | | i | i | | |
| CHL 3/19/21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| Amber Bartlett | | 3/18/21 | 12:53 |
| | | 3/18/21 | 15:10 |
| | | | |
| | | | |

11) Sampler (print name): Date:

**Additional Notes**

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 1.7 / 1.2 / 1.8

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

# PROJECT MODIFICATIONS

**Client:** TRC-NYC **HC Project #:** 1031819

**Project:** Brookfield Landfill

---

mkennedy192.168.1.62
3/31/2021 4:15:55 PM

---

Per client, sample ID for AD22298-001 should be M1-COMP (A-D)-3-17-2021.
MK 03/31/21

---

mkennedy192.168.1.62
4/15/2021 10:40:46 AM

---

Per client, lab composite M1-A-3-17-2021, M1-B-3-17-2021, M1-C-3-17-2021, M1-D-3-17-2021 into one sample.
MK 04/15/21

# CONDITION UPON RECEIPT

Batch Number AD22298 Entered By: DAVID

Date Entered 3/18/2021 3:57:00 PM

| | | |
|---|---|---|
| 1 | Yes | Is there a corresponding COC included with the samples? |
| 2 | Yes | Are the samples in a container such as a cooler or Ice chest? |
| 3 | Yes | Are the COC seals intact? |
| 4 | T-054 | <--- Thermometer ID. Please specify the Temperature inside the container (in degC).<br>1.7/1.2/1.8 C |
| 5 | Yes | Are the samples refrigerated (where required)/have they arrived on ice? |
| 6 | Yes | Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples: |
| 7 | Yes | Are all of the sample bottles intact? If no, specify sample numbers broken/leaking |
| 8 | Yes | Are all of the sample labels or numbers legible? If no specify: |
| 9 | Yes | Do the contents match the COC? If no, specify |
| 10 | Yes | Is there enough sample sent for the analyses listed on the COC? If no, specify: |
| 11 | Yes | Are samples preserved correctly? |
| 12 | Yes | Was temperature blank present (Place comment below if not)? If not was temperature of samples verified? |
| 13 | NA | Other comments ...Specify (TB date, sample matrix, any missing info, etc.) |
| 14 | NA | Corrective actions (Specify item number and corrective action taken). |
| 15 | NA | Were any samples for ortho-phosphate or dissolved ferrous iron field filtered? |

# PRESERVATION DOCUMENT

Batch Number AD22298 Entered By: DAVID

Date Entered 3/18/2021 4:02:00 PM

| Lab#: | Container Size | Container/Vial Check | Parameter | Preservative | Preservative Lot# | PH | pH Lot# |
|---|---|---|---|---|---|---|---|
| AD22298-001 | NA | NA | VOA | HCL | NA | 1 | NA |
| AD22298-001 | NA | NA | CN-T | NAOH | NA | 14 | NA |
| AD22298-001 | NA | NA | CN-A | NAOH | NA | 14 | NA |
| AD22298-001 | NA | NA | O&G | HCL | NA | 1 | NA |
| AD22298-002 | NA | NA | VOA | HCL | NA | 1 | NA |
| AD22298-002 | NA | NA | CN-T | NAOH | NA | 14 | NA |
| AD22298-002 | NA | NA | CN-A | NAOH | NA | 14 | NA |
| AD22298-002 | NA | NA | O&G | HCL | NA | 1 | NA |
| AD22298-003 | NA | NA | VOA | HCL | NA | 1 | NA |
| AD22298-003 | NA | NA | CN-T | NAOH | NA | 14 | NA |
| AD22298-003 | NA | NA | CN-A | NAOH | NA | 14 | NA |
| AD22298-003 | NA | NA | O&G | HCL | NA | 1 | NA |
| AD22298-004 | NA | NA | VOA | HCL | NA | 1 | NA |
| AD22298-004 | NA | NA | CN-T | NAOH | NA | 14 | NA |
| AD22298-004 | NA | NA | CN-A | NAOH | NA | 14 | NA |
| AD22298-004 | NA | NA | O&G | HCL | NA | 1 | NA |
| AD22298-005 | NA | NA | METALS | HNO3 | NA | 1 | NA |
| AD22298-005 | NA | NA | TKN | H2SO4 | NA | 1 | NA |

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD22298-001 | 03/18/21 15:10 | DAVID | 0 | M | Received |
| AD22298-001 | 03/18/21 15:57 | DAVID | 0 | M | Login |
| AD22298-001 | 03/19/21 14:11 | R31 | 1 | A | NONE |
| AD22298-001 | 03/19/21 14:11 | R31 | 2 | A | NONE |
| AD22298-001 | 03/23/21 13:39 | WP | 2 | A | VOA |
| AD22298-001 | 03/19/21 14:11 | R31 | 3 | A | NONE |
| AD22298-001 | 03/25/21 10:54 | SG | 3 | A | VOA |
| AD22298-001 | 03/23/21 12:41 | JW | 4 | A | CN |
| AD22298-001 | 03/23/21 17:51 | R12 | 4 | A | NONE |
| AD22298-001 | 03/22/21 12:13 | BCT | 7 | A | TSS/TDS |
| AD22298-002 | 03/18/21 15:10 | DAVID | 0 | M | Received |
| AD22298-002 | 03/18/21 15:57 | DAVID | 0 | M | Login |
| AD22298-002 | 03/19/21 14:11 | R31 | 1 | A | NONE |
| AD22298-002 | 03/19/21 14:11 | R31 | 2 | A | NONE |
| AD22298-002 | 03/24/21 20:33 | WP | 2 | A | VOA |
| AD22298-002 | 03/25/21 06:36 | R31 | 2 | M | NONE |
| AD22298-002 | 03/25/21 09:36 | SG | 2 | A | VOA |
| AD22298-002 | 03/19/21 14:11 | R31 | 3 | A | NONE |
| AD22298-003 | 03/18/21 15:10 | DAVID | 0 | M | Received |
| AD22298-003 | 03/18/21 15:57 | DAVID | 0 | M | Login |
| AD22298-003 | 03/19/21 14:11 | R31 | 1 | A | NONE |
| AD22298-003 | 03/19/21 14:11 | R31 | 2 | A | NONE |
| AD22298-003 | 03/24/21 20:33 | WP | 2 | A | VOA |
| AD22298-003 | 03/25/21 06:36 | R31 | 2 | M | NONE |
| AD22298-003 | 03/25/21 09:36 | SG | 2 | A | VOA |
| AD22298-003 | 03/19/21 14:11 | R31 | 3 | A | NONE |
| AD22298-004 | 03/18/21 15:10 | DAVID | 0 | M | Received |
| AD22298-004 | 03/18/21 15:57 | DAVID | 0 | M | Login |
| AD22298-004 | 03/19/21 14:11 | R31 | 1 | A | NONE |
| AD22298-004 | 03/19/21 14:11 | R31 | 2 | A | NONE |
| AD22298-004 | 03/24/21 20:33 | WP | 2 | A | VOA |
| AD22298-004 | 03/25/21 06:36 | R31 | 2 | M | NONE |
| AD22298-004 | 03/19/21 14:11 | R31 | 3 | A | NONE |
| AD22298-005 | 03/18/21 15:10 | DAVID | 0 | M | Received |
| AD22298-005 | 03/18/21 15:57 | DAVID | 0 | M | Login |
| AD22298-005 | 03/23/21 12:40 | JW | 1 | A | IC |
| AD22298-005 | 03/23/21 17:51 | R12 | 1 | A | NONE |
| AD22298-005 | 03/25/21 07:47 | ANS | 3 | A | TDWI/Hg |
| AD22298-005 | 03/25/21 07:49 | R12 | 3 | A | NONE |
| AD22298-005 | 03/19/21 10:03 | BCT | 4 | A | CBOD |
| AD22298-005 | 03/19/21 12:45 | BCT | 4 | A | CBOD |
| AD22298-005 | 03/18/21 16:28 | JW | 5 | A | CR6 PRES/NO3 |
| AD22298-005 | 03/23/21 15:34 | JN | 6 | A | P/P |
| AD22298-005 | 03/24/21 08:35 | R12 | 9 | A | NONE |
| AD22298-005 | 03/24/21 08:35 | NE | 9 | A | bn/bna |

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# Subcontracted Data

This is the last page of the data generated by Hampton-Clarke.
The following pages were submitted to HC by subcontracted laboratories.

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

March 26, 2021

Hampton Clark Veritech
175 US Route 46 West

Fairfield, NJ 07004

RE: Project: AD22298
Pace Project No.: 70166466

Dear Hampton Veritech:

Enclosed are the analytical results for sample(s) received by the laboratory on March 22, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lea Sherman
lea.sherman@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Sherree Baker, Hampton Clark Veritech
Danielle Marquart, Hampton Clarke Veritech
Maureen Stone, Hampton Clark Veritech



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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## CERTIFICATIONS

Project: AD22298
Pace Project No.: 70166466

**Pace Analytical Services Long Island**

Delaware Certification # NY10478
Virginia Certification # 460302
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987



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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: AD22298
Pace Project No.: 70166466

**Method:** **EPA 351.2**
**Description:** 351.2 Total Kjeldahl Nitrogen
**Client:** Hampton Clark Veritech
**Date:** March 26, 2021

**General Information:**
1 sample was analyzed for EPA 351.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 201304

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70165881010,70166335002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 991273)
  - Nitrogen, Kjeldahl, Total
- MS (Lab ID: 991275)
  - Nitrogen, Kjeldahl, Total

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 201304

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 991274)
  - Nitrogen, Kjeldahl, Total
- DUP (Lab ID: 991276)
  - Nitrogen, Kjeldahl, Total

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: AD22298
Pace Project No.: 70166466

**Method:** **SM22 4500-CN-E**
**Description:** SM 4500 CNE Cyanide, Total
**Client:** Hampton Clark Veritech
**Date:** March 26, 2021

**General Information:**
1 sample was analyzed for SM22 4500-CN-E by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with SM20/22 4500-CN-C with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 201172

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70165472001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 990503)
  - Cyanide

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: AD22298
Pace Project No.: 70166466

**Method:** **SM22 4500-CN-E**
**Description:** 4500CNG Cyanide, Amenable
**Client:** Hampton Clark Veritech
**Date:** March 26, 2021

**General Information:**
1 sample was analyzed for SM22 4500-CN-E by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with SM22 4500-CN-G with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD22298
Pace Project No.: 70166466

**Sample: AD22298-001** **Lab ID: 70166466001** Collected: 03/17/21 11:15 Received: 03/22/21 10:45 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **SM 4500 CNE Cyanide, Total** | Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C<br>Pace Analytical Services - Melville | | | | | | | |
| Cyanide | **<10.0** | ug/L | 10.0 | 1 | 03/23/21 10:37 | 03/24/21 17:03 | 57-12-5 | |
| **4500CNG Cyanide, Amenable** | Analytical Method: SM22 4500-CN-E Preparation Method: SM22 4500-CN-G<br>Pace Analytical Services - Melville | | | | | | | |
| Amenable Cyanide | **<10.0** | ug/L | 10.0 | 1 | 03/25/21 15:10 | 03/25/21 19:02 | 57-12-5 | |

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD22298
Pace Project No.: 70166466

**Sample: AD22298-005** **Lab ID: 70166466002** Collected: 03/18/21 09:00 Received: 03/22/21 10:45 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **48.9** | mg/L | 5.0 | 10 | 03/24/21 07:42 | 03/26/21 16:38 | 7727-37-9 | |

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: AD22298
Pace Project No.: 70166466

QC Batch: 201304
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70166466002

METHOD BLANK: 991271 Matrix: Water
Associated Lab Samples: 70166466002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | ND | 0.10 | 03/26/21 16:08 | |

LABORATORY CONTROL SAMPLE: 991272

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 4 | 4.1 | 103 | 90-110 | |

MATRIX SPIKE SAMPLE: 991273

| Parameter | Units | 70165881010 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 3.0 | 20 | 31.7 | 144 | 90-110 | M1 |

MATRIX SPIKE SAMPLE: 991275

| Parameter | Units | 70166335002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 1.1 | 4 | 5.8 | 118 | 90-110 | M1 |

SAMPLE DUPLICATE: 991274

| Parameter | Units | 70165881010 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 3.0 | 1.9 | 44 | D6 |

SAMPLE DUPLICATE: 991276

| Parameter | Units | 70166335002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 1.1 | 1.3 | 22 | D6 |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: AD22298
Pace Project No.: 70166466

QC Batch: 201172
QC Batch Method: SM20/22 4500-CN-C
Analysis Method: SM22 4500-CN-E
Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70166466001

METHOD BLANK: 990501 Matrix: Water
Associated Lab Samples: 70166466001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Cyanide | ug/L | ND | 10.0 | 03/24/21 16:57 | |

LABORATORY CONTROL SAMPLE: 990502

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Cyanide | ug/L | 75 | 75.0 | 100 | 85-115 | |

MATRIX SPIKE SAMPLE: 990503

| Parameter | Units | 70165472001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Cyanide | ug/L | 0.039 mg/L | 100 | 67.1 | 28 | 75-125 | M1 |

SAMPLE DUPLICATE: 991922

| Parameter | Units | 70166391009 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Cyanide | ug/L | 83.7 | 84.3 | 1 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: AD22298
Pace Project No.: 70166466

QC Batch: 201173
QC Batch Method: SM22 4500-CN-G
Analysis Method: SM22 4500-CN-E
Analysis Description: 4500CNG Cyanide, Amenable
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70166466001

METHOD BLANK: 990505 Matrix: Water
Associated Lab Samples: 70166466001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Amenable Cyanide | ug/L | ND | 10.0 | 03/25/21 19:00 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# QUALIFIERS

Project: AD22298
Pace Project No.: 70166466

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| D6 | The precision between the sample and sample duplicate exceeded laboratory control limits. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |



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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AD22298
Pace Project No.: 70166466

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **70166466002** | **AD22298-005** | EPA 351.2 | 201304 | EPA 351.2 | 201340 |
| **70166466001** | **AD22298-001** | SM20/22 4500-CN-C | 201172 | SM22 4500-CN-E | 201466 |
| **70166466001** | **AD22298-001** | SM22 4500-CN-G | 201173 | SM22 4500-CN-E | 201658 |



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# CHAIN OF CUSTODY RECORD

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph:800-426-9992 Fax:973-439-1458

**Report To:**
Hampton-Clarke, Inc.:
Attn:Reporting
175 Route 46 West
Fairfield, New Jersey 07004

**Invoice To:**
Hampton-Clarke, Inc.:
Attn:Accounting
175 Route 46 West
Fairfield, New Jersey 07004

**Project #:** 1031819

**CocID#:** 7155

**FINAL RESULTS TO: subresults@hcvlab.com**
**PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com**

**EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!**

**Turn Around Time:** Standard
**Report Type:** NYDOH-CatB (FULL)
**Preliminary Due Date:** 4/5/2021
**Hard Copy Due Date:** 4/12/2021

| Sample Number: | Client ID | Matrix: | Date Collected: | Time Collected: | Analysis Requested |
|---|---|---|---|---|---|
| AD22298-001 | M1-A-3-17-2021 | Aqueous | 3/17/2021 | 11:15:00 AM | Total CN, Amenable CN |
| AD22298-005 | M1-comp-3-18-2021 | Aqueous | 3/18/2021 | 9:00:00 AM | TKN EPA 351.2 |

**WO# : 70166466**
70166466

| Relinquished By: | Accepted By: | Date: | Time: | Comments, Notes, Special Requirements, HAZARDS |
|---|---|---|---|---|
| | | 3/22/21 | 12:07 | |
| | | 3/22/21 | 10:45 | |
| | | | | |
| | | | | |

**Cooler Temp:** 4.9

**HC Lab Use Only:** **Subcontracted Lab Id and Contact:** Pace-Mel, Chauntel Greaves, (631) 694-3040, LabID: DW, 575 Broad Hollow Rd, , Melville, NY, 11747-5076

# Sample Condition Upon Receipt

Pace Analytical®

WO#: 70166466
PM: LS1 Due Date: 03/30/21
CLIENT: HCV

Client Name: Projec

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 4.9 Cooler Temperature Corrected(°C): 4.9

Temp should be above freezing to 6.0°C

USDA Regulated Soil ( ☐ N/A, water sample)

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: CH 3/22/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

| | | | | COMMENTS: |
|---|---|---|---|---|
| Chain of Custody Present: | ☑Yes | ☐No | | 1. |
| Chain of Custody Filled Out: | ☑Yes | ☐No | | 2. |
| Chain of Custody Relinquished: | ☑Yes | ☐No | | 3. |
| Sampler Name & Signature on COC: | ☑Yes | ☐No | ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes | ☐No | | 5. |
| Short Hold Time Analysis (<72hr): | ☐Yes | ☑No | | 6. |
| Rush Turn Around Time Requested: | ☐Yes | ☑No | | 7. |
| Sufficient Volume: (Triple volume provided for | ☑Yes | ☐No | | 8. |
| Correct Containers Used: | ☑Yes | ☐No | | 9. |
| -Pace Containers Used: | ☑Yes | ☐No | | |
| Containers Intact: | ☑Yes | ☐No | | 10. |
| Filtered volume received for Dissolved tests | ☐Yes | ☐No | ☑N/A | 11. Note if sediment is visible in the dissolved container. |
| Sample Labels match COC: | ☑Yes | ☐No | | 12. |
| -Includes date/time/ID, Matrix: SL WT OIL | | | | |
| All containers needing preservation have been checked? | ☑Yes | ☐No | ☐N/A | 13. ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ NaOH ☐ HCl |
| pH paper Lot # HC025486 | | | | Sample # |
| All containers needing preservation are found to be in compliance with method recommendation? ($HNO_3$, $H_2SO_4$, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) | ☑Yes | ☐No | ☐N/A | |
| Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis | | | | Initial when completed: / Lot # of added preservative: / Date/Time preservative added: |
| Samples checked for dechlorination: | ☐Yes | ☐No | ☑N/A | 14. |
| KI starch test strips Lot # | | | | Positive for Res. Chlorine? Y N |
| Residual chlorine strips Lot # | | | | |
| SM 4500 CN samples checked for sulfide? | ☐Yes | ☐No | ☑N/A | 15. |
| Lead Acetate Strips Lot # | | | | |
| Headspace in VOA Vials ( >6mm): | ☐Yes | ☐No | ☑N/A | 16. |
| Trip Blank Present: | ☐Yes | ☐No | ☑N/A | 17. |
| Trip Blank Custody Seals Present | ☐Yes | ☐No | ☑N/A | |
| Pace Trip Blank Lot # (if applicable): | | | | |

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

# Project: 384968

**Client PO:** 152591

**Report To:** TRC Engineering
1430 Broadway
10th Floor
New York, NY 10018
Attn: Charles Lambert/Wes Lindemuth

**Received Date:** 4/16/2021

**Report Date:** 5/14/2021

**Deliverables:** NYDOH-CatB

**Lab ID:** AD22848

**Lab Project No:** 1041615

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

**Sean Berls - Quality Assurance Officer** OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Hampton-Clarke
WBE/DBE/SBE 800-426-9992

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- 1041615_SUB.pdf

# SDG Narrative

# HC Case Narrative

**Client:** TRC Engineering
**Project:** 384968

**HC Project:** 1041615

**Hampton-Clarke (HC) received the following samples on 4/16/2021:**

| Client ID | HC Sample ID | Matrix | Analysis |
|---|---|---|---|
| M1-A-D-04-15-2021 LAB COMP | AD22848-001 | Aqueous | Cyanide (Water) 9012B, Cyanide (Amenable) 9012B, Compositing by Wgt, SGT-HEM (Non-Polar Material) 1664B, Total Suspended Solids (SM2540D-11), Volatile Organics 8260D |
| M1-COMP-04-16-2021 | AD22848-002 | Aqueous | Semivolatile Organics 8270E, Carbonaceous BOD-5 Day (SM5210 B-11), Chloride (Water) 300.0, Cr (Hexavalent) 3500-Cr B11, Mercury (Water) 7470A, TAL Metals 6010D, TAL Metals 6020B, Nitrite-N (Aqueous) 300.0, Nitrate-N (Water) 300.0, PCB 8082A, Total Kjeldahl Nitrogen EPA 351* |

* - Indicates analysis was performed by a subcontracted laboratory.

*This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.*

## Volatile Organic Analysis:

The Method Blank Spike, MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 92177 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

2-Chloroethylvinylether did not recover in the Matrix Spike and Matrix Spike Duplicate in batch 92177 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample. Please refer to the applicable Form 3 for the recoveries.

## Base Neutral/Acid Extractable Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 91598 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

## PCB Analysis:

Data conforms to method requirements.

## Metals Analysis:

Data conforms to method requirements.

## Wet Chemistry Analysis:

Data conforms to method requirements.

## Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Samples AD22848-001, -002, -003 were submitted to PACE for Cyanide & Cyanide (Amenable), and Total Kjeldahl Nitrogen analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

5/14/21
Date

# Reporting Limit Definitions

# HC Reporting Limit Definitions/Data Qualifiers

## REPORTING DEFINITIONS

**DF** = Dilution Factor

**LCS** = Laboratory Control Spike

**MBS** = Method Blank Spike

**MS** = Matrix Spike

**MSD** = Matrix Spike Duplicate

**MDL** = Method Detection Limit

**NA** = Not Applicable

**ND** = Not Detected

**PS** = Post Digestion Spike

**RL*** = Reporting Limit

**RT** = Retention Time

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

## DATA QUALIFIERS

**A-** Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

**B-** Indicates analyte was present in the Method Blank and sample.

**d-** For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

**E-** Indicates the concentration exceeded the upper calibration range of the instrument.

**J-** Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

**R-** Retention Time is out.

**Y-** Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

# Data Package Summary Forms

# HC Report of Analysis

**Client:** TRC Engineering
**Project:** 384968

**HC Project #:** 1041615

**Sample ID:** M1-A-D-04-15-2021 LAB COMP
**Lab#:** AD22848-001
**Matrix:** Aqueous

**Collection Date:** 4/15/2021
**Receipt Date:** 4/16/2021

**Cyanide (Amenable) 9012B**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Cyanide | 1 | ug/l | | 10.0 | <10.0 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Cyanide | 1 | ug/l | | 10.0 | <10.0 |

**SGT-HEM (Non-Polar Material) 1664B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | 1 | mg/l | 5.6 | ND |

**Total Suspended Solids (SM2540D-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Suspended Solids @ 103-105 C | 1 | mg/l | 4.0 | 25 |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

Sample ID: M1-COMP-04-16-2021
Lab#: AD22848-002
Matrix: Aqueous

Collection Date: 4/16/2021
Receipt Date: 4/16/2021

**Carbonaceous BOD-5 Day (SM5210 B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Carbonaceous Bod, 5 Day | 1 | mg/l | 2.0 | 3.3 |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 20 | mg/l | 40 | 530 |

**Cr (Hexavalent) 3500-Cr B11**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cr (Hexavalent) | 1 | mg/l | 0.020 | ND |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Nitrite-N (Aqueous) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrite | 1 | mg/l | 1.0 | ND |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1 | ug/l | 2.0 | ND |
| Naphthalene | 1 | ug/l | 0.50 | ND |
| Phenol | 1 | ug/l | 2.0 | 9.6 |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Copper | 1 | ug/l | 50 | ND |
| Silver | 1 | ug/l | 20 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cadmium | 1 | ug/l | 2.0 | ND |
| Chromium | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Molybdenum | 1 | ug/l | 2.0 | ND |
| Nickel | 1 | ug/l | 3.0 | ND |
| Zinc | 1 | ug/l | 20 | 25 |

**Total Kjeldahl Nitrogen EPA 351**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Total Kjeldahl Nitrogen | 10 | mg/l | | 5.0 | 42.0 |

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD22848-001
Client Id: M1-A-D-04-15-2021 LAB C
Data File: 1M147117.D
Analysis Date: 04/20/21 09:30
Date Rec/Extracted: 04/16/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 56-23-5 | Carbon Tetrachloride | 1.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 67-66-3 | Chloroform | 2.0 | U | 108-88-3 | Toluene | 1.0 | U |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1330-20-7 | Xylenes (Total) | 1.0 | U |

Worksheet #: 589350

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD22848-002
Client Id: M1-COMP-04-16-2021
Data File: 10M85415.D
Analysis Date: 04/23/21 13:08
Date Rec/Extracted: 04/16/21-04/22/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 106-46-7 | 1,4-Dichlorobenzene | 2.0 | U | **108-95-2** | **Phenol** | **2.0** | **9.6** |
| 91-20-3 | Naphthalene | 0.50 | U | | | | |

Worksheet #: 589408

***Total Target Concentration*** 9.6

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD22848-002
Client Id: M1-COMP-04-16-2021
Data File: 3G127198.D
Analysis Date: 04/23/21 10:24
Date Rec/Extracted: 04/16/21-04/22/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 12672-29-6 | Aroclor-1248 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 589448

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD22848-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | M1-COMP-04-16-2021 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 4/19/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 04/21/21 | 901672121 | ANEW | 34 | MSMS3_7700SWA | |
| 7440-47-3 | Chromium | 2.0 | ND | 1 | 50 | 100 | 04/21/21 | 901672121 | ANEW | 34 | MSMS3_7700SWA | |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 04/21/21 | 901672121 | ANEW | 34 | MSMS3_7700SWA | |
| 7439-98-7 | Molybdenum | 2.0 | ND | 1 | 50 | 100 | 04/21/21 | 901672121 | ANEW | 34 | MSMS3_7700SWA | |
| 7440-02-0 | Nickel | 3.0 | ND | 1 | 50 | 100 | 04/21/21 | 901672121 | ANEW | 34 | MSMS3_7700SWA | |
| 7440-66-6 | Zinc | 20 | 25 | 1 | 50 | 100 | 04/21/21 | 901672121 | ANEW | 34 | MSMS3_7700SWA | |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD22848-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | M1-COMP-04-16-2021 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 4/19/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 04/21/21 | 90167 | W27046A2 | 28 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 04/22/21 | 90167 | H27046SW | 23 | CV | HGCV4A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 04/21/21 | 90167 | W27046A2 | 28 | P | PEICP2A |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD22848-001
Matrix Aqueous
Client SampleID: M1-A-D-04-15-2021 LAB C

Project Number: 1041615
Received Date: 4/16/2021
Collect Date: 4/15/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | HEM-NPM | 1 | ND | mg/L | 5.6 | 04/20/21 | 04/20/21 |
| Total Suspended Solids @ 103-105 | TSS-MUR | 1 | 25 | mg/l | 4.0 | 04/20/21 | 04/20/21 |

Lab#: AD22848-002
Matrix Aqueous
Client SampleID: M1-COMP-04-16-2021

Project Number: 1041615
Received Date: 4/16/2021
Collect Date: 4/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Carbonaceous Bod, 5 Day | CBOD-5-MUR | 1 | 3.3 | MG/L | 2.0 | 04/16/21 | 04/21/21 |
| Chloride | CHLORIDE-ICW | 20 | 530 | mg/L | 40 | 04/16/21 | 04/16/21 |
| Cr (Hexavalent) | CR6-WATER | 1 | ND | mg/l | 0.020 | 04/27/21 | 04/27/21 |
| Nitrite | NO2-ICW | 1 | ND | mg/L | 1.0 | 04/16/21 | 04/16/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 04/16/21 | 04/16/21 |

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD22848
Pace Project No.: 70169944

**Sample: AD22848-002** **Lab ID: 70169944002** Collected: 04/15/21 10:00 Received: 04/20/21 15:13 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **42.0** | mg/L | 5.0 | 10 | 04/22/21 07:04 | 04/23/21 15:11 | 7727-37-9 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: AD22848
Pace Project No.: 70169944

**Sample: AD22848-001** **Lab ID: 70169944001** Collected: 04/15/21 13:00 Received: 04/20/21 15:13 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **SM 4500 CNE Cyanide, Total** | Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C<br>Pace Analytical Services - Melville | | | | | | | |
| Cyanide | **<10.0** | ug/L | 10.0 | 1 | 04/26/21 14:03 | 04/26/21 16:55 | 57-12-5 | |
| **4500CNG Cyanide, Amenable** | Analytical Method: SM22 4500-CN-E Preparation Method: SM22 4500-CN-G<br>Pace Analytical Services - Melville | | | | | | | |
| Amenable Cyanide | **<10.0** | ug/L | 10.0 | 1 | 04/26/21 15:09 | 04/26/21 17:13 | 57-12-5 | |

## REPORT OF LABORATORY ANALYSIS

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# Chain of Custody Forms

1041615 0017

# Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke
WBE/DBE/SBE 800-426-9992
*A Women-Owned, Disadvantaged, Small Business Enterprise*

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

## CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 1041615

Page _____ of _____

### 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | Summary | NJ Hazsite |
| 1 Business Day (100%)* | Results + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%)* | Reduced: | EnviroData |
| 3 Business Days (50%)* | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%)* | [ ] PA [ ] Other___ | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full / NY ASP CatB | [ ] NYDEC |
| 8 Business Days (Stand.) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: _____ | | Other: _____ |

* Expedited TAT Not Always Available. Please Check with Lab.

### Customer Information

1a) Customer: TRC
Address: 1430 Broadway New York, NY
1b) Email/Cell/Fax/Ph: clambert@trcompanies.com
1c) Send Invoice to: Same as above
1d) Send Report to: Same as above

### Project Information

2a) Project: 384968
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): [redacted] 575 Arthur Kill Rd Staten Island
2d) Quote/PO # (If Applicable): 152591

FOR LAB USE ONLY ↓

Batch # AD22848

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs (8260) | Cyanide (Total), Cyanide (Amenable), total suspended solids, sen. 7days matrix! | SVOCs (8270) | PCBs | Cadmium, Chromium (hex), Chromium (Hexavalent) | Copper, Lead, Mercury | Molybdenum, Nickel, | Silver, Zinc, COD, total nitrogen, Chloride | TCLP | | | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | M1-A-04-15-2021 | GW | 4/15/21 | 1000 | | X | X | X | X | | | | | | | | | 2 | | | 2 | 5 | | | | |
| | M1-B-04-15-2021 | | | 1100 | | X | X | X | X | | | | | | | | | 2 | | | 2 | 5 | | | | |
| | M1-C-04-15-2021 | | | 1200 | | X | X | X | X | | | | | | | | | 2 | | | 2 | 5 | | | | |
| | M1-D-04-15-2021 | | | 1300 | | X | X | X | X | | | | | | | | | 2 | | | 2 | 5 | | | | |
| 002 | M1-Comp-[redacted]-04-16-2021 | | 4/16/21 | 1000 | X | | | | | X | X | X | X | X | [redacted] | | | 7 | | | | | 1 | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| [signature] | [signature] | 4/16/21 | 1346 |
| | [signature] | 4/16/21 | 15:36 |

11) Sampler (print name): Date:

Additional Notes

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 3.2, 2.1, 3.1

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

# CONDITION UPON RECEIPT

Batch Number AD22848 Entered By: Ricardo
Date Entered 4/16/2021 7:35:00 PM

| | | |
|---|---|---|
| 1 | Yes | Is there a corresponding COC included with the samples? |
| 2 | Yes | Are the samples in a container such as a cooler or Ice chest? |
| 3 | No | Are the COC seals intact? |
| 4 | T-461 | <--- Thermometer ID. Please specify the Temperature inside the container (in degC).<br>3.2,2.1,3.1 |
| 5 | Yes | Are the samples refrigerated (where required)/have they arrived on ice? |
| 6 | Yes | Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples: |
| 7 | Yes | Are all of the sample bottles intact? If no, specify sample numbers broken/leaking |
| 8 | Yes | Are all of the sample labels or numbers legible? If no specify: |
| 9 | Yes | Do the contents match the COC? If no, specify |
| 10 | Yes | Is there enough sample sent for the analyses listed on the COC? If no, specify: |
| 11 | Yes | Are samples preserved correctly? |
| 12 | Yes | Was temperature blank present (Place comment below if not)? If not was temperature of samples verified? |
| 13 | Yes | Other comments ...Specify (TB date, sample matrix, any missing info, etc.)<br>sample 001 composited at lab |
| 14 | NA | Corrective actions (Specify item number and corrective action taken). |
| 15 | NA | Were any samples for ortho-phosphate or dissolved ferrous iron field filtered? |

# PRESERVATION DOCUMENT

Batch Number AD22848 Entered By: Ricardo

Date Entered 4/16/2021 7:36:00 PM

| Lab#: | Container Size | Container/Vial Check | Parameter | Preservative | Preservative Lot# | PH | pH Lot# |
|---|---|---|---|---|---|---|---|
| AD22848-001 | 1l | G | NPM | HCL | 253057 | 1 | HC025486 |
| AD22848-001 | 500ML | G | CN | NAOH | 330390 | 14 | HC025486 |
| AD22848-001 | 120ML | G | CN | NAOH | 330390 | 14 | HC025486 |
| AD22848-002 | 1L | P | METALS | HNO3 | 255830 | 1 | HC025486 |
| AD22848-002 | 250ML | P | TKN | H2SO4 | 3119021 | 1 | HC025486 |

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD22848-001 | 04/16/21 15:36 | RICAR | 0 | M | Received |
| AD22848-001 | 04/16/21 16:02 | RICAR | 0 | M | Login |
| AD22848-001 | 04/20/21 09:39 | BCT | 4 | A | TSS |
| AD22848-001 | 04/20/21 12:13 | R12 | 4 | A | NONE |
| AD22848-001 | 04/20/21 09:16 | LL | 6 | A | HEM-NPM |
| AD22848-001 | 04/20/21 09:05 | SG | 7 | A | VOA |
| AD22848-002 | 04/16/21 15:36 | RICAR | 0 | M | Received |
| AD22848-002 | 04/16/21 16:02 | RICAR | 0 | M | Login |
| AD22848-002 | 04/16/21 18:47 | R12 | 1 | A | NONE |
| AD22848-002 | 04/16/21 16:09 | JW | 2 | A | IC/CR6WF/P |
| AD22848-002 | 04/16/21 18:47 | R12 | 2 | A | NONE |
| AD22848-002 | 04/16/21 16:09 | JW | 3 | A | IC/CR6WF/P |
| AD22848-002 | 04/16/21 16:18 | R12 | 3 | A | NONE |
| AD22848-002 | 04/16/21 18:47 | R12 | 3 | A | NONE |
| AD22848-002 | 04/16/21 16:09 | BCT | 4 | A | CBOD |
| AD22848-002 | 04/16/21 16:18 | R12 | 4 | A | NONE |
| AD22848-002 | 04/16/21 18:47 | R12 | 4 | A | NONE |
| AD22848-002 | 04/16/21 18:47 | R12 | 5 | A | NONE |
| AD22848-002 | 04/16/21 18:47 | R12 | 6 | A | NONE |
| AD22848-002 | 04/22/21 15:20 | JN | 6 | A | P/P |
| AD22848-002 | 04/16/21 18:47 | R12 | 7 | A | NONE |
| AD22848-002 | 04/22/21 15:20 | JN | 7 | A | P/P |
| AD22848-002 | 04/22/21 17:12 | R12 | 7 | A | NONE |
| AD22848-002 | 04/16/21 18:47 | R12 | 8 | A | NONE |
| AD22848-002 | 04/22/21 15:02 | LV | 8 | A | BN/BNA |
| AD22848-002 | 04/16/21 18:47 | R12 | 9 | A | NONE |

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# Subcontracted Data

This is the last page of the data generated by Hampton-Clarke.
The following pages were submitted to HC by subcontracted laboratories.

# Analytical Data Package

**Prepared by:**

**Pace Analytical Services**

**Pace Project No.: 70169944**

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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

April 26, 2021

Hampton Clark Veritech
175 US Route 46 West

Fairfield, NJ 07004

RE: Project: AD22848
Pace Project No.: 70169944

Dear Hampton Veritech:

Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lea Sherman
lea.sherman@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Sherree Baker, Hampton Clark Veritech
Danielle Marquart, Hampton Clarke Veritech
Maureen Stone, Hampton Clark Veritech

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## CERTIFICATIONS

Project: AD22848
Pace Project No.: 70169944

**Pace Analytical Services Long Island**

Virginia Certification # 460302
Delaware Certification # NY10478
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987



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Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: AD22848
Pace Project No.: 70169944

**Method:** **EPA 351.2**
**Description:** 351.2 Total Kjeldahl Nitrogen
**Client:** Hampton Clark Veritech
**Date:** April 26, 2021

**General Information:**
1 sample was analyzed for EPA 351.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 205187

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70169986002,70170003001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1015179)
  - Nitrogen, Kjeldahl, Total

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 1015181)
  - Nitrogen, Kjeldahl, Total

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: AD22848
Pace Project No.: 70169944

**Method:** **SM22 4500-CN-E**
**Description:** SM 4500 CNE Cyanide, Total
**Client:** Hampton Clark Veritech
**Date:** April 26, 2021

**General Information:**
1 sample was analyzed for SM22 4500-CN-E by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with SM20/22 4500-CN-C with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**



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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: AD22848
Pace Project No.: 70169944

**Method:** **SM22 4500-CN-E**
**Description:** 4500CNG Cyanide, Amenable
**Client:** Hampton Clark Veritech
**Date:** April 26, 2021

**General Information:**
1 sample was analyzed for SM22 4500-CN-E by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with SM22 4500-CN-G with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD22848
Pace Project No.: 70169944

**Sample: AD22848-001** **Lab ID: 70169944001** Collected: 04/15/21 13:00 Received: 04/20/21 15:13 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **SM 4500 CNE Cyanide, Total** | Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C<br>Pace Analytical Services - Melville | | | | | | | |
| Cyanide | **<10.0** | ug/L | 10.0 | 1 | 04/26/21 14:03 | 04/26/21 16:55 | 57-12-5 | |
| **4500CNG Cyanide, Amenable** | Analytical Method: SM22 4500-CN-E Preparation Method: SM22 4500-CN-G<br>Pace Analytical Services - Melville | | | | | | | |
| Amenable Cyanide | **<10.0** | ug/L | 10.0 | 1 | 04/26/21 15:09 | 04/26/21 17:13 | 57-12-5 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: AD22848
Pace Project No.: 70169944

**Sample: AD22848-002** **Lab ID: 70169944002** Collected: 04/15/21 10:00 Received: 04/20/21 15:13 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **42.0** | mg/L | 5.0 | 10 | 04/22/21 07:04 | 04/23/21 15:11 | 7727-37-9 | |

## REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: AD22848
Pace Project No.: 70169944

QC Batch: 205187
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70169944002

METHOD BLANK: 1015177 Matrix: Water
Associated Lab Samples: 70169944002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | ND | 0.10 | 04/23/21 14:52 | |

LABORATORY CONTROL SAMPLE: 1015178

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 4 | 3.9 | 96 | 90-110 | |

MATRIX SPIKE SAMPLE: 1015179

| Parameter | Units | 70169986002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 1.9 | 4 | 3.6 | 44 | 90-110 | M1 |

MATRIX SPIKE SAMPLE: 1015181

| Parameter | Units | 70170003001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 10.2 | 4 | 15.4 | 128 | 90-110 | M6 |

SAMPLE DUPLICATE: 1015180

| Parameter | Units | 70169986002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 1.9 | 2.1 | 12 | |

SAMPLE DUPLICATE: 1015182

| Parameter | Units | 70170003001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 10.2 | 9.2 | 11 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: AD22848
Pace Project No.: 70169944

QC Batch: 205680
QC Batch Method: SM20/22 4500-CN-C
Analysis Method: SM22 4500-CN-E
Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70169944001

METHOD BLANK: 1019279 Matrix: Water
Associated Lab Samples: 70169944001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Cyanide | ug/L | ND | 10.0 | 04/26/21 16:50 | |

LABORATORY CONTROL SAMPLE: 1019280

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Cyanide | ug/L | 75 | 76.6 | 102 | 85-115 | |

MATRIX SPIKE SAMPLE: 1019281

| Parameter | Units | 70169607001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Cyanide | ug/L | <10.0 | 100 | 81.6 | 82 | 75-125 | |

SAMPLE DUPLICATE: 1019282

| Parameter | Units | 70169607001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Cyanide | ug/L | <10.0 | <10.0 | | |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: AD22848
Pace Project No.: 70169944

QC Batch: 205815
QC Batch Method: SM22 4500-CN-G
Analysis Method: SM22 4500-CN-E
Analysis Description: 4500CNG Cyanide, Amenable
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70169944001

METHOD BLANK: 1019932
Matrix: Water
Associated Lab Samples: 70169944001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Amenable Cyanide | ug/L | ND | 10.0 | 04/26/21 17:12 | |

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## REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# QUALIFIERS

Project: AD22848
Pace Project No.: 70169944

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| M6 | Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution. |



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Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AD22848
Pace Project No.: 70169944

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **70169944002** | **AD22848-002** | EPA 351.2 | 205187 | EPA 351.2 | 205190 |
| **70169944001** | **AD22848-001** | SM20/22 4500-CN-C | 205680 | SM22 4500-CN-E | 205754 |
| **70169944001** | **AD22848-001** | SM22 4500-CN-G | 205815 | SM22 4500-CN-E | 205817 |



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pg 1 of 1

# CHAIN OF CUSTODY RECORD

Hampton-Clarke, Inc
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph:800-426-9992 Fax:973-439-1458

**Report To:**
Hampton-Clarke, Inc.:
Attn:Reporting
175 Route 46 West
Fairfield, New Jersey 07004

**Invoice To:**
Hampton-Clarke, Inc.:
Attn:Accounting
175 Route 46 West
Fairfield, New Jersey 07004

**Project #:** 1041615

**CocID#:** 7187

**FINAL RESULTS TO: subresults@hcvlab.com**
**PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com**

TQ for MK 4/19/21

**EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!**

**Turn Around Time:** Standard
**Report Type:** NYDOH-CatB (FULL)
**Preliminary Due Date:** 5/4/2021
**Hard Copy Due Date:** 5/11/2021

| Sample Number: | Client ID | Matrix: | Date Collected: | Time Collected: | Analysis Requested |
|---|---|---|---|---|---|
| AD22848-001 | M1-A\B\C\D-04-15-2021 LAB COMP | Aqueous | 4/15/2021 | 1:00:00 PM | Total CN, Amenable CN |
| AD22848-002 | M1-COMP-04-16-2021 | Aqueous | 2/16/2021 | 10:00:00 AM | TKN EPA 351.2 |

WO# : 70169944

70169944

3.9 @

| Relinquished By: | Accepted By: | Date: | Time: | Comments, Notes, Special Requirements, HAZARDS |
|---|---|---|---|---|
| | | 4/20/21 | 15:13 | |
| | | | | |
| | | | | |

Cooler Temp:_____

HC Lab Use Only: **Subcontracted Lab Id and Contact:** Chauntel Greaves, (631) 694-3040, LabID: DW, 575 Broad Hollow Rd, , Melville, NY, 11747-5076

Pace Analytical®

# Sample Condition Upon Receipt

**WO#: 70169944**

**PM: LS1** **Due Date: 04/28/21**

**CLIENT: HCV**

Client Name: Hampton-Clarke

Project

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 5.9 Cooler Temperature Corrected(°C): 5.9

Temperature Blank Present: ☐ Yes ☐ No

Type of Ice: (Wet) Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil ( ☐ N/A, water sample)

Date and Initials of person examining contents: MS 4/20/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

| | | | | COMMENTS: |
|---|---|---|---|---|
| Chain of Custody Present: | ☑Yes | ☐No | | 1. |
| Chain of Custody Filled Out: | ☑Yes | ☐No | | 2. |
| Chain of Custody Relinquished: | ☑Yes | ☐No | | 3. |
| Sampler Name & Signature on COC: | ☑Yes | ☐No | ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes | ☐No | | 5. |
| Short Hold Time Analysis (<72hr): | ☐Yes | ☑No | | 6. |
| Rush Turn Around Time Requested: | ☐Yes | ☑No | | 7. |
| Sufficient Volume: (Triple volume provided for | ☑Yes | ☐No | | 8. |
| Correct Containers Used: | ☑Yes | ☐No | | 9. |
| -Pace Containers Used: | ☑Yes | ☐No | | |
| Containers Intact: | ☑Yes | ☐No | | 10. |
| Filtered volume received for Dissolved tests | ☐Yes | ☐No | ☑N/A | 11. Note if sediment is visible in the dissolved container. |
| Sample Labels match COC: | ☑Yes | ☐No | | 12. |
| -Includes date/time/ID, Matrix: SL (WT) OIL | | | | |
| All containers needing preservation have been checked? | ☑Yes | ☐No | ☐N/A | 13. ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ NaOH ☐ HCl |
| pH paper Lot # HC041002 | | | | Sample # |
| All containers needing preservation are found to be in compliance with method recommendation? ($HNO_3$, $H_2SO_4$, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) | ☑Yes | ☐No | ☐N/A | |
| Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). | | | | Initial when completed: / Lot # of added preservative: / Date/Time preservative added: |
| Per Method, VOA pH is checked after analysis | | | | |
| Samples checked for dechlorination: | ☑Yes | ☐No | ☐N/A | 14. |
| KI starch test strips Lot # 14-860 | | | | Positive for Res. Chlorine? Y N |
| Residual chlorine strips Lot # | | | | |
| SM 4500 CN samples checked for sulfide? | ☑Yes | ☐No | ☐N/A | 15. |
| Lead Acetate Strips Lot # 566125 | | | | |
| Headspace in VOA Vials ( >6mm): | ☐Yes | ☐No | ☑N/A | 16. |
| Trip Blank Present: | ☐Yes | ☐No | ☑N/A | 17. |
| Trip Blank Custody Seals Present | ☐Yes | ☐No | ☑N/A | |
| Pace Trip Blank Lot # (if applicable): | | | | |

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

ENV-FRM-MELV-0024 00

Pace Long Island

575 Broad Hollow Road
Melville, NY 11747

tel 631.694.3040
fax 631.420.8436

**Analytical Data Report Package**
**For the**
**New Jersey Department of Environmental Protection**
**Trenton, New Jersey 08625**

| Case Name | Field Sample # | Laboratory Sample # | Date of Collection |
|---|---|---|---|
| HCV 70169944 | AD22848-001 | 70169944001 | 04/20/2021 |
| HCV 70169944 | AD22848-002 | 70169944002 | 04/20/2021 |

Certification #: NY158
Date: May 5, 2021
General Manager Signature:
Printed Name: Michael Miller
Quality Assurance Manager Signature
Printed Name Diana Losito

New Jersey Department of Environmental Protection
Division of Water Resources
Ground Water Quality Management Element
CN-029, Trenton, New Jersey 08625

Relinquisher of Sample (please print):

Name: _____ Signature: _____

Company: _____ Title: _____

Date: _____ Time: _____

Laboratory Sample Recipient:

Name: Mallory Slack Signature: Mallory S

Laboratory Name: Pace Analytical Services, LLC.
Laboratory Address: 575 Broadhollow Rd., Melville NY 11747
NJDEP Laboratory Certificate No: NY 158 (Title Custodian)

Date: 4/20/21 Time: 15:13

Did sample(s) arrive cold? Yes ✓ No _____

Were the sample(s) properly preserved? Yes ✓ No _____

If no, which analysis were affected? _____

Did samples for analysis of Volatile Organics contain headspace?

Yes _____ No _____ N/A ✓

Was the septum in place with the TFE side down?

Yes _____ No _____ N/A ✓

Pace Long Island

575 Broad Hollow Road
Melville, NY 11747

tel 631.694.3040
fax 631.420.8436

**HCV 70169944**

| | Sample Prep | Analyst | Signature | Date of Analysis |
|---|---|---|---|---|
| 1. | Semivolatiles | | | |
| 2. | Volatiles | | | |
| 3. | Metals-ICP | | | |
| 4. | Metals-Hg | | | |
| 5. | PEST | | | |
| 6. | HERB | | | |
| 7. | TKN | JOHN AQUILINA | | 04/22/2021 |

| | Sample Analysis | | | |
|---|---|---|---|---|
| 1. | Volatiles | | | |
| 2. | Semivolatiles | | | |
| | | | | |
| 3. | PEST(TCLP) | | | |
| 4. | HERB(TCLP) | | | |
| 5. | GRO | | | |
| 6. | Mercury | | | |
| 7. | Metals-ICP | | | |
| 8. | Metals-TCLP | | | |
| 9. | Mercury-TCLP | | | |
| 10. | Other-Alkalinity | | | |
| 11. | NO2/NO3 | | | |
| 12. | Other-TKN | ANDREW SCHMADTKE | | 04/23/2021 |
| 13. | Cyanide | HAYES HAILEY M | | 04/26/2021 |
| | | | | |
| 14. | Other – P. Moist | | | |

Pace Long Island

575 Broad Hollow Road
Melville, NY 11747

tel 631.694.3040
fax 631.420.8436

**HCV 70169944**

Did any of the sample extraction and/or analysis exceed holding times?

Yes __ No_

If yes, which analyses will be affected:

If re-extraction and/or reanalysis are necessary, indicate the reason and attach another Laboratory Chain of Custody/Chronicle with the appropriate signatures and dates: **N/A**

Quality Assurance Manager Signature Diana Losito

Printed Name: Diana Losito

Date: May 5, 2021

575 Broad Hollow Road
Melville, NY 11747
tel. 631.694.3040
fax. 631.420.8436

# METHODOLOGY SUMMARY

**Volatiles:** N/A
.

**NJ EPH:** N/A

**Semi-Volatiles**: N/A

**Other (Wet Chemistry)**: The above water samples were received by Pace Analytical Services, LLC. for select wet chemistry analysis. The samples were prepared and analyzed using the following method(s):

Total Kjeldahl Nitrogen EPA 351.2
Total Cyanide SM22 4500-CN-E
Amenable Cyanide SM22-CN-E

SAMPLE NO.

AD22848-001

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70169944 Contract: AD22848

Lab Sample ID: 70169944001 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| 57-12-5 | Amenable Cyanide | <10.0 | U | ug/L | 1 | 04/26/2021 17:13 |
| 57-12-5 | Cyanide | <10.0 | U | ug/L | 1 | 04/26/2021 16:55 |

SAMPLE NO.

AD22848-002

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70169944 Contract: AD22848

Lab Sample ID: 70169944002 Percent Moisture:

| CAS No. | Analyte | Concentration | Q | Units | DF | Analysis Date/Time |
|---|---|---|---|---|---|---|
| 7727-37-9 | Nitrogen, Kjeldahl, Total | 42.0 | | mg/L | 10 | 04/23/2021 15:11 |

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

# Project: 384968

**Client PO:** 152591

**Report To:** TRC Engineering
1430 Broadway
10th Floor
New York, NY 10018
Attn: Charles Lambert/Wes Lindemuth

**Received Date:** 5/21/2021

**Report Date:** 6/22/2021

**Deliverables:** NYDOH-CatB

**Lab ID:** AD23549

**Lab Project No:** 1052120

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

**Sean Berls - Quality Assurance Officer** OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Hampton-Clarke
WBE/DBE/SBE 800-426-9992

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1052120_SUB.pdf

# SDG Narrative

# HC Case Narrative

**Client:** TRC Engineering
**Project:** 384968

**HC Project:** 1052120

**Hampton-Clarke (HC) received the following samples on 5/21/21:**

| Client ID | HC Sample ID | Matrix | Analysis |
|---|---|---|---|
| M1-ABCD COMP 05-20-2021 | AD23549-001 | Aqueous | Volatile Organics (8260D), SGT-HEM (1664B), TSS (SM2540D-11), *Cyanide (9012B), *Cyanide (Amenable) (9012B) |
| M1-COMP-05-20-2021 | AD23549-005 | Aqueous | Semivolatile Organics (8270E), PCB (8082A), Mercury (7470A), TAL Metals (6010D/6020B), Carbonaceous BOD (SM5210 B-11), Chloride (300.0), Nitrite/Nitrate (300.0),Cr(Hex) (SM3500-CrB11), *TKN (351) |

* - Indicates analysis was performed by a subcontracted laboratory.

*This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.*

## Volatile Organic Analysis:

The Method Blank Spike for batch 93509 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for batch 935099 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

2-Chloroethylvinylether did not recover in the Matrix Spike and/or Matrix Spike Duplicate in batch 93509 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample. Please refer to the applicable Form 3 for the recoveries.

## Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batch 92654 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for batch 92654 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Sample WMB92654MS had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

## PCB Analysis:

Full amount of surrogate was added to sample WMB92657. Please refer to the applicable Form 2 for the recoveries.

## Metals Analysis:

The Post Spike for batch 92296 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

MB92296 had hit of Zinc but samples reported for Zn and ND.

## Wet Chemistry Analysis:

The Matrix Spike and Matrix Spike Dup for Chloride, batch 2743 had recoveries outside QC limits. Please refer to the QC section for the recoveries.

## Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Samples AD23549-001, -002 were submitted to Pace Analytical for Cyanide, Cyanide Amenable and TKN analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

6/23/2021
Date

# Reporting Limit Definitions

# HC Reporting Limit Definitions/Data Qualifiers

## REPORTING DEFINITIONS

**DF** = Dilution Factor

**LCS** = Laboratory Control Spike

**MBS** = Method Blank Spike

**MS** = Matrix Spike

**MSD** = Matrix Spike Duplicate

**MDL** = Method Detection Limit

**NA** = Not Applicable

**ND** = Not Detected

**PS** = Post Digestion Spike

**RL*** = Reporting Limit

**RT** = Retention Time

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

## DATA QUALIFIERS

**A-** Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

**B-** Indicates analyte was present in the Method Blank and sample.

**d-** For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

**E-** Indicates the concentration exceeded the upper calibration range of the instrument.

**J-** Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

**R-** Retention Time is out.

**Y-** Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

# Data Package Summary Forms

# HC Report of Analysis

**Client:** TRC Engineering
**Project:** 384968

**HC Project #:** 1052120

**Sample ID:** M1-ABCD COMP 05-20-2021
**Lab#:** AD23549-001
**Matrix:** Aqueous

**Collection Date:** 5/20/2021
**Receipt Date:** 5/21/2021

**Cyanide (Amenable) 9012B**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Cyanide | 1 | ug/l | | 5.00 | <5.00 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Cyanide | 1 | ug/l | | 5.00 | 6.80 |

**SGT-HEM (Non-Polar Material) 1664B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | 1 | mg/l | 5.5 | ND |

**Total Suspended Solids (SM2540D-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Suspended Solids @ 103-105 C | 1 | mg/l | 4.0 | 17 |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

Sample ID: M1-Comp-05-21-2021
Lab#: AD23549-002
Matrix: Aqueous

Collection Date: 5/21/2021
Receipt Date: 5/21/2021

**Carbonaceous BOD-5 Day (SM5210 B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Carbonaceous Bod, 5 Day | 1 | mg/l | 2.0 | ND |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Chloride** | **20** | **mg/l** | **40** | **600** |

**Cr (Hexavalent) 3500-Cr B11**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cr (Hexavalent) | 1 | mg/l | 0.020 | ND |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Nitrite-N (Aqueous) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrite | 1 | mg/l | 1.0 | ND |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1 | ug/l | 2.0 | ND |
| Naphthalene | 1 | ug/l | 0.50 | ND |
| Phenol | 1 | ug/l | 2.0 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Copper | 1 | ug/l | 50 | ND |
| Silver | 1 | ug/l | 20 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cadmium | 1 | ug/l | 2.0 | ND |
| Chromium | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Molybdenum | 1 | ug/l | 2.0 | ND |
| Nickel | 1 | ug/l | 3.0 | ND |
| Zinc | 1 | ug/l | 20 | ND |

**Total Kjeldahl Nitrogen EPA 351**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| **Total Kjeldahl Nitrogen** | **5** | **mg/l** | | 2.5 | **52.4** |

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD23549-001
Client Id: M1-ABCD COMP 05-20-20
Data File: 8M547357.D
Analysis Date: 05/26/21 18:17
Date Rec/Extracted: 05/21/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 56-23-5 | Carbon Tetrachloride | 1.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 67-66-3 | Chloroform | 2.0 | U | 108-88-3 | Toluene | 1.0 | U |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1330-20-7 | Xylenes (Total) | 1.0 | U |

Worksheet #: 594903 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD23549-002
Client Id: M1-Comp-05-21-2021
Data File: 10M85854.D
Analysis Date: 05/23/21 21:29
Date Rec/Extracted: 05/21/21-05/22/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 106-46-7 | 1,4-Dichlorobenzene | 2.0 | U | 108-95-2 | Phenol | 2.0 | U |
| 91-20-3 | Naphthalene | 0.50 | U | | | | |

Worksheet #: 594780

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD23549-002
Client Id: M1-Comp-05-21-2021
Data File: 2G154986.D
Analysis Date: 05/25/21 04:53
Date Rec/Extracted: 05/21/21-05/22/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 12672-29-6 | Aroclor-1248 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 594425

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD23549-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | M1-Comp-05-21-2021 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/21/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 05/24/21 | 922962421ANEW | | 22 | MS | MS3_7700SWA |
| 7440-47-3 | Chromium | 2.0 | ND | 1 | 50 | 100 | 05/24/21 | 922962421ANEW | | 22 | | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 05/24/21 | 922962421ANEW | | 22 | | MS3_7700SWA |
| 7439-98-7 | Molybdenum | 2.0 | ND | 1 | 50 | 100 | 05/24/21 | 922962421ANEW | | 22 | | MS3_7700SWA |
| 7440-02-0 | Nickel | 3.0 | ND | 1 | 50 | 100 | 05/24/21 | 922962421ANEW | | 22 | | MS3_7700SWA |
| 7440-66-6 | Zinc | 20 | ND | 1 | 50 | 100 | 05/24/21 | 922962421ANEW | | 22 | | MS3_7700SWA |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD23549-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | M1-Comp-05-21-2021 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 5/21/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 05/25/21 | 92296 | W27184A2 | 17 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 05/24/21 | 92296 | H27184SW | 14 | CV | HGCV4A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 05/25/21 | 92296 | W27184A2 | 17 | P | PEICP2A |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD23549-001
Matrix Aqueous
Client SampleID: M1-ABCD COMP 05-20-20

Project Number: 1052120
Received Date: 5/21/2021
Collect Date: 5/20/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | HEM-NPM | 1 | ND | mg/L | 5.5 | 05/24/21 | 05/24/21 |
| Total Suspended Solids @ 103-105 | TSS-MUR | **1** | **17** | **mg/l** | **4.0** | 05/25/21 | 05/25/21 |

Lab#: AD23549-002
Matrix Aqueous
Client SampleID: M1-Comp-05-21-2021

Project Number: 1052120
Received Date: 5/21/2021
Collect Date: 5/21/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Carbonaceous Bod, 5 Day | CBOD-5-MUR | 1 | ND | MG/L | 2.0 | 05/21/21 | 05/26/21 |
| Chloride | CHLORIDE-ICW | **20** | **600** | **mg/L** | **40** | 05/21/21 | 05/21/21 |
| Cr (Hexavalent) | CR6-WATER | 1 | ND | mg/l | 0.020 | 05/24/21 | 05/24/21 |
| Nitrite | NO2-ICW | 1 | ND | mg/L | 1.0 | 05/21/21 | 05/21/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 05/21/21 | 05/21/21 |

# Chain of Custody Forms

1052120 0016

# Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992
*A Women-Owned, Disadvantaged, Small Business Enterprise*

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

## CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 1052120

Page _____ of _____

### 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | Summary | NJ Hazsite |
| 1 Business Day (100%)* | ~~Results~~ + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%)* | Reduced: | EnviroData |
| 3 Business Days (50%)* | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%)* | [ ] PA [ ] Other___ | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full / NY ASP CatB | [ ] NYDEC |
| ~~6~~ Business Days (Stand.) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: | | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

### Customer Information

1a) Customer: TRC
Address: 1430 Broadway 10th Fl
New York, NY
1b) Email/Cell/Fax/Ph: 917-88-1-7655
1c) Send Invoice to: Clientaccounting@trcsolutions.com
1d) Send Report to:

### Project Information

2a) Project: 353-19683
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): 575 Arthur Kill Road, Staten Island
2d) Quote/PO # (If Applicable): 152541

FOR LAB USE ONLY ↓

Batch # AD23549

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water; S - Soil; A - Air
GW - Ground Water; SL - Sludge
WW - Waste Water; OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs 8260C | Cyanide (Total), Cyanide (Amenable), Total Suspended Solids, Total Dissolved Solids | SVOCs 8270C | PCBs | Cadmium, Chromium, Lead, Mercury, Nickel, Silver, Zinc, Total Phenols | Oxidation Reduction Potential, Sulfide, Total Nitrogen, Cyanide, TKN | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | M1-A-[illegible] | GW | 5/21/21 | 900 | | X | X | X | X | | | | | 1 | | | 2 | | | | | |
| | M1-B-[illegible] | | | 1000 | | X | X | X | X | | | | | | | | | | | | | |
| | M1-C-[illegible] | | | 1100 | | X | X | X | X | | | | | | | | | | | | | |
| | M2-D-05-[illegible] | | | 1200 | | X | X | X | X | | | | | | | | | | | | | |
| 002 | M2-Comp-05-[illegible] | | 5/21/21 | 1000 | X | | | | | X | X | X | X | X | X | 7 | | | | | 1 | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| [signature] | [signature] | 5/21/21 | 12:35 |
| [signature] | [signature] | 5/21/21 | 14:00 |
| | | | |
| | | | |

11) Sampler (print name): Date:

**Additional Notes**

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 3.1 2.5 3.0

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

# CONDITION UPON RECEIPT

Batch Number AD23549 Entered By: Ricardo
Date Entered 5/21/2021 2:39:00 PM

| | | |
|---|---|---|
| 1 | Yes | Is there a corresponding COC included with the samples? |
| 2 | Yes | Are the samples in a container such as a cooler or Ice chest? |
| 3 | No | Are the COC seals intact? |
| 4 | T0054 | <--- Thermometer ID. Please specify the Temperature inside the container (in degC).<br>3.1,2.5,3.0 |
| 5 | Yes | Are the samples refrigerated (where required)/have they arrived on ice? |
| 6 | Yes | Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples: |
| 7 | Yes | Are all of the sample bottles intact? If no, specify sample numbers broken/leaking |
| 8 | Yes | Are all of the sample labels or numbers legible? If no specify: |
| 9 | Yes | Do the contents match the COC? If no, specify |
| 10 | Yes | Is there enough sample sent for the analyses listed on the COC? If no, specify: |
| 11 | Yes | Are samples preserved correctly? |
| 12 | Yes | Was temperature blank present (Place comment below if not)? If not was temperature of samples verified? |
| 13 | Yes | Other comments ...Specify (TB date, sample matrix, any missing info, etc.)<br>sample 001 composited at lab |
| 14 | NA | Corrective actions (Specify item number and corrective action taken). |
| 15 | NA | Were any samples for ortho-phosphate or dissolved ferrous iron field filtered? |

# PRESERVATION DOCUMENT

Batch Number AD23549 Entered By: Ricardo

Date Entered 5/21/2021 2:41:00 PM

| Lab#: | Container Size | Container/Vial Check | Parameter | Preservative | Preservative Lot# | PH | pH Lot# |
|---|---|---|---|---|---|---|---|
| AD23549-001 | 1l | G | NPM | HCL | 253057 | 1 | HC025486 |
| AD23549-001 | 500ML | G | CN | NAOH | V330390 | 14 | HC025486 |
| AD23549-001 | 250ML | G | CN | NAOH | V330390 | 14 | HC025486 |
| AD23549-002 | 250ML | P | TKN | H2SO4 | 3119021 | 1 | HC025486 |
| AD23549-002 | 1L | P | METALS | HNO3 | 255830 | 1 | HC025486 |

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD23549-001 | 05/21/21 14:00 | RICAR | 0 | M | Received |
| AD23549-001 | 05/21/21 14:39 | RICAR | 0 | M | Login |
| AD23549-001 | 05/21/21 15:26 | R12 | 1 | A | NONE |
| AD23549-001 | 05/24/21 09:33 | LL | 1 | A | HEM-NPM |
| AD23549-001 | 05/21/21 15:26 | R12 | 2 | A | NONE |
| AD23549-001 | 05/21/21 15:26 | R12 | 3 | A | NONE |
| AD23549-001 | 05/25/21 10:19 | JMP | 3 | A | TSS |
| AD23549-001 | 05/25/21 12:08 | R12 | 3 | A | NONE |
| AD23549-001 | 05/21/21 15:26 | R12 | 4 | A | NONE |
| AD23549-001 | 05/21/21 16:57 | SUB | 4 | A | none |
| AD23549-001 | 05/21/21 15:26 | R12 | 5 | A | NONE |
| AD23549-001 | 05/21/21 16:57 | SUB | 5 | A | none |
| AD23549-001 | 05/26/21 16:49 | WP | 8 | A | VOA |
| AD23549-002 | 05/21/21 14:00 | RICAR | 0 | M | Received |
| AD23549-002 | 05/21/21 14:39 | RICAR | 0 | M | Login |
| AD23549-002 | 05/21/21 15:01 | JMP | 1 | A | CBOD/IC/CR6 F/P |
| AD23549-002 | 05/21/21 16:57 | SUB | 1 | A | none |
| AD23549-002 | 05/21/21 15:26 | R12 | 2 | A | NONE |
| AD23549-002 | 05/24/21 10:53 | PC | 2 | A | TDWI-HG |
| AD23549-002 | 05/24/21 11:18 | PC | 2 | A | R12 |
| AD23549-002 | 05/21/21 15:01 | JMP | 3 | A | CBOD/IC/CR6 F/P |
| AD23549-002 | 05/21/21 15:10 | R12 | 3 | A | NONE |
| AD23549-002 | 05/21/21 15:25 | JW | 3 | A | IC |
| AD23549-002 | 05/21/21 15:01 | JMP | 4 | A | CBOD/IC/CR6 F/P |
| AD23549-002 | 05/21/21 15:10 | R12 | 4 | A | NONE |
| AD23549-002 | 05/21/21 15:26 | R12 | 5 | A | NONE |
| AD23549-002 | 05/21/21 15:26 | R12 | 6 | A | NONE |
| AD23549-002 | 05/21/21 15:26 | R12 | 7 | A | NONE |
| AD23549-002 | 05/22/21 06:28 | LV | 7 | A | p/p |
| AD23549-002 | 05/21/21 15:26 | R12 | 8 | A | NONE |
| AD23549-002 | 05/22/21 06:28 | LV | 8 | A | p/p |
| AD23549-002 | 05/21/21 15:26 | R12 | 9 | A | NONE |
| AD23549-002 | 05/22/21 06:27 | LV | 9 | A | bn/bna |

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# Subcontracted Data

This is the last page of the data generated by Hampton-Clarke.
The following pages were submitted to HC by subcontracted laboratories.

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

June 11, 2021

Hampton Clark Veritech
175 US Route 46 West

Fairfield, NJ 07004

RE: Project: AD23549
Pace Project No.: 70174157

Dear Hampton Veritech:

Enclosed are the analytical results for sample(s) received by the laboratory on May 24, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville
- Pace National - Mt. Juliet

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julie Litvin for
Lea Sherman
lea.sherman@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Sherree Baker, Hampton Clark Veritech
Danielle Marquart, Hampton Clarke Veritech
Maureen Stone, Hampton Clark Veritech



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Melville, NY 11747
(631)694-3040

# CERTIFICATIONS

Project: AD23549
Pace Project No.: 70174157

**Pace Analytical Services Long Island**

Virginia Certification # 460302
Delaware Certification # NY10478
Delaware Certification # NY10478
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

**Pace Analytical Services National**

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789



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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## SAMPLE ANALYTE COUNT

Project: AD23549
Pace Project No.: 70174157

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **70174157001** | **AD23549-001** | SM 4500-CN E-11 | KEG | 1 | PAN |
| | | SM 4500-CN G-11 | JER | 1 | PAN |
| **70174157002** | **AD23549-002** | EPA 351.2 | AKS | 1 | PACE-MV |

PACE-MV = Pace Analytical Services - Melville
PAN = Pace National - Mt. Juliet



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# PROJECT NARRATIVE

Project: AD23549
Pace Project No.: 70174157

**Method:** **SM 4500-CN E-11**
**Description:** Wet Chemistry 4500CN E-2011
**Client:** Hampton Clark Veritech
**Date:** June 11, 2021

**General Information:**
1 sample was analyzed for SM 4500-CN E-11 by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.
- AD23549-001 (Lab ID: 70174157001)

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 1682627

D8: The sample and duplicate results for this parameter are less than 5 times the reporting limit, the RPD may not be statistically valid.
- DUP (Lab ID: R3663227-3)
  - Cyanide
- DUP (Lab ID: R3663227-6)
  - Cyanide

**Additional Comments:**



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Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: AD23549
Pace Project No.: 70174157

**Method:** **SM 4500-CN G-11**
**Description:** Wet Chemistry 4500CN G-2011
**Client:** Hampton Clark Veritech
**Date:** June 11, 2021

**General Information:**
1 sample was analyzed for SM 4500-CN G-11 by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.
- AD23549-001 (Lab ID: 70174157001)

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**



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Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: AD23549
Pace Project No.: 70174157

**Method:** **EPA 351.2**
**Description:** 351.2 Total Kjeldahl Nitrogen
**Client:** Hampton Clark Veritech
**Date:** June 11, 2021

**General Information:**
1 sample was analyzed for EPA 351.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 211059

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70173899001

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 1056465)
  - Nitrogen, Kjeldahl, Total

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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Melville, NY 11747
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## ANALYTICAL RESULTS

Project: AD23549
Pace Project No.: 70174157

**Sample: AD23549-001** **Lab ID: 70174157001** Collected: 05/20/21 12:00 Received: 05/24/21 14:53 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **Wet Chemistry 4500CN E-2011** | Analytical Method: SM 4500-CN E-11 Preparation Method: 9012B/4500 CN E2011/ Pace National - Mt. Juliet | | | | | | | |
| Cyanide | **6.80** | ug/L | 5.00 | 1 | 06/04/21 00:33 | 06/04/21 11:15 | 57-12-5 | D8,H1, ML |
| **Wet Chemistry 4500CN G-2011** | Analytical Method: SM 4500-CN G-11 Preparation Method: 4500CN G-2011 Pace National - Mt. Juliet | | | | | | | |
| Amenable Cyanide | **<5.00** | ug/L | 5.00 | 1 | 06/09/21 18:13 | 06/09/21 18:13 | 57-12-5 | H1 |

## REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
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## ANALYTICAL RESULTS

Project: AD23549
Pace Project No.: 70174157

**Sample: AD23549-002** **Lab ID: 70174157002** Collected: 05/20/21 12:00 Received: 05/24/21 14:53 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **52.4** | mg/L | 2.5 | 5 | 05/28/21 07:33 | 06/02/21 12:34 | 7727-37-9 | |

## REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: AD23549
Pace Project No.: 70174157

QC Batch: 1682627
QC Batch Method: 9012B/4500 CN E2011/
Analysis Method: SM 4500-CN E-11
Analysis Description: Wet Chemistry 4500CN E-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 70174157001

METHOD BLANK: R3663227-1 Matrix: Water
Associated Lab Samples: 70174157001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Cyanide | ug/L | <5.00 | 5.00 | 06/04/21 10:37 | |

LABORATORY CONTROL SAMPLE: R3663227-2

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Cyanide | ug/L | 100 | 94.9 | 94.9 | 87.1-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3663227-7 R3663227-8

| Parameter | Units | 70174157001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ug/L | 6.80 | 100 | 100 | 70.3 | 72.2 | 63.5 | 65.4 | 90.0-110 | 2.67 | ML |

SAMPLE DUPLICATE: R3663227-3

| Parameter | Units | L1356818-01 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Cyanide | ug/L | 4.56 | <5.00 | 200 | D8 |

SAMPLE DUPLICATE: R3663227-6

| Parameter | Units | 70174157001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Cyanide | ug/L | 6.80 | 5.41 | 22.8 | D8 |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: AD23549
Pace Project No.: 70174157

QC Batch: 211059
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70174157002

METHOD BLANK: 1056463 Matrix: Water
Associated Lab Samples: 70174157002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | ND | 0.10 | 06/02/21 12:02 | |

LABORATORY CONTROL SAMPLE: 1056464

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 4 | 4.1 | 103 | 90-110 | |

MATRIX SPIKE SAMPLE: 1056465

| Parameter | Units | 70173899001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 12.7 | 4 | 18.6 | 147 | 90-110 | M6 |

SAMPLE DUPLICATE: 1056466

| Parameter | Units | 70173899001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 12.7 | 11.9 | 7 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# QUALIFIERS

Project: AD23549
Pace Project No.: 70174157

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| D8 | The sample and duplicate results for this parameter are less than 5 times the reporting limit, the RPD may not be statistically valid. |
| H1 | Analysis conducted outside the recognized method holding time. |
| M6 | Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution. |
| ML | Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low. |



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Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AD23549
Pace Project No.: 70174157

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **70174157001** | **AD23549-001** | 9012B/4500 CN E2011/ | 1682627 | SM 4500-CN E-11 | 1682627 |
| **70174157001** | **AD23549-001** | 4500CN G-2011 | 1685143 | SM 4500-CN G-11 | 1685143 |
| **70174157002** | **AD23549-002** | EPA 351.2 | 211059 | EPA 351.2 | 211064 |



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# CHAIN OF CUSTODY RECORD

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph:800-426-9992 Fax:973-439-1458

**Report To:**
Hampton-Clarke, Inc.:
Attn:Reporting
175 Route 46 West
Fairfield, New Jersey 07004

**Invoice To:**
Hampton-Clarke, Inc.:
Attn:Accounting
175 Route 46 West
Fairfield, New Jersey 07004

**Project #:** 1052120

**CocID#:** 7231

**FINAL RESULTS TO: subresults@hcvlab.com**
**PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com**

**EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!**

**Turn Around Time:** Standard
**Report Type:** NYDOH-CatB (FULL)
**Preliminary Due Date:** 6/8/2021
**Hard Copy Due Date:** 6/16/2021

| Sample Number: | Client ID | Matrix: | Date Collected: | Time Collected: | Analysis Requested |
|---|---|---|---|---|---|
| AD23549-001 | M1-ABCD COMP 05-20-2021 | Aqueous | 5/20/2021 | 12:00:00 PM | Total CN, Amenable CN |
| AD23549-002 | M1-Comp-05-21-2021 | Aqueous | 5/21/2021 | 10:00:00 AM | TKN |

**WO# : 70174157**
70174157

CT 5/21

| Relinquished By: | Accepted By: | Date: | Time: | Comments, Notes, Special Requirements, HAZARDS |
|---|---|---|---|---|
| | | 5/24/21 | 12:30 | T= 4.5°C |

**Cooler Temp:**_____



**HC Lab Use Only:** **Subcontracted Lab Id and Contact:** Pace-Mel, Chauntel Greaves, (631) 694-3040, LabID: DW, 575 Broad Hollow Rd, , Melville, NY, 11747-5076

# Sample Condition Upon Receipt

Pace Analytical®

**WO#: 70174157**

PM: LS1 Due Date: 06/02/21

CLIENT: HCV

Client Name: Hampton-Clarke Projec

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 4.5 Cooler Temperature Corrected(°C): 4.5

Temp should be above freezing to 6.0°C

USDA Regulated Soil ( ☐ N/A, water sample)

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: (Wet) Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: MS 5/24/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

| | | | | COMMENTS: |
|---|---|---|---|---|
| Chain of Custody Present: | ☑ Yes | ☐ No | | 1. |
| Chain of Custody Filled Out: | ☑ Yes | ☐ No | | 2. |
| Chain of Custody Relinquished: | ☑ Yes | ☐ No | | 3. |
| Sampler Name & Signature on COC: | ☑ Yes | ☐ No | ☐ N/A | 4. |
| Samples Arrived within Hold Time: | ☑ Yes | ☐ No | | 5. |
| Short Hold Time Analysis (<72hr): | ☐ Yes | ☑ No | | 6. |
| Rush Turn Around Time Requested: | ☐ Yes | ☑ No | | 7. |
| Sufficient Volume: (Triple volume provided for | ☑ Yes | ☐ No | | 8. |
| Correct Containers Used: | ☑ Yes | ☐ No | | 9. |
| -Pace Containers Used: | ☑ Yes | ☐ No | | |
| Containers Intact: | ☑ Yes | ☐ No | | 10. |
| Filtered volume received for Dissolved tests | ☐ Yes | ☐ No | ☑ N/A | 11. Note if sediment is visible in the dissolved container. |
| Sample Labels match COC: | ☑ Yes | ☐ No | | 12. |
| -Includes date/time/ID, Matrix: SL WT OIL | | | | |
| All containers needing preservation have been checked? | ☑ Yes | ☐ No | ☐ N/A | 13. ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ NaOH ☐ HCl |
| pH paper Lot # HC041002 | | | | |
| All containers needing preservation are found to be in compliance with method recommendation? ($HNO_3$, $H_2SO_4$, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) | ☑ Yes | ☐ No | ☐ N/A | Sample # |
| Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). | | | | Initial when completed: / Lot # of added preservative: / Date/Time preservative added: |
| Per Method, VOA pH is checked after analysis | | | | |
| Samples checked for dechlorination: | ☑ Yes | ☐ No | ☐ N/A | 14. |
| KI starch test strips Lot # 14-860 | | | | Positive for Res. Chlorine? Y N |
| Residual chlorine strips Lot # | | | | |
| SM 4500 CN samples checked for sulfide? | ☑ Yes | ☐ No | ☐ N/A | 15. |
| Lead Acetate Strips Lot # 561025 | | | | |
| Headspace in VOA Vials ( >6mm): | ☐ Yes | ☐ No | ☑ N/A | 16. |
| Trip Blank Present: | ☐ Yes | ☐ No | ☑ N/A | 17. |
| Trip Blank Custody Seals Present | ☐ Yes | ☐ No | ☑ N/A | |
| Pace Trip Blank Lot # (if applicable): | | | | |

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

1430 Broadway, 10th Floor
New York, NY 10018

T 212.221.7822
TRCcompanies.com

September 21, 2021

Frances Leung, P.E., Chief
Industrial Inspection and Permitting Section
Bureau of Wastewater Treatment
New York City Department of Environmental Protection
96-05 Horace Harding Expressway
Corona, NY 11368

**RE:** Q1 Industrial Wastewater Discharge Self-Monitoring Report
New York City Department of Parks and Recreation
Brookfield Landfill/Park
575 Arthur Kill Road, Staten Island, NY 10308
Permit No. 18-P3149-1
TRC Project No. 384968

Dear Ms. Leung:

Enclosed please find the Q1 Industrial Wastewater Discharge Self-Monitoring Report (SMR) for the monitoring period of June 1, 2021 to August 31, 2021 for the New York City Department of Parks and Recreation (NYCDPR) Brookfield Avenue Landfill. The report contains SMR Forms with certifications, flow summary tables, M-1 sample result summary tables, laboratory results for the M-1 samples, and chain of custody forms. The results of the monthly sampling indicate there were no exceedances of any permit compound limits.

Please do not hesitate to contact me at (917) 794-3107 or via email at wlindemuth@trccompanies.com if you have any questions.

Sincerely,
**TRC Engineers, Inc.**

Wes Lindemuth

Wes D. Lindemuth, CHMM, CSP
Senior Project Manager

cc: K. Zias, A. Ehtesham, NYCDPR
K. Myers, R. Bowden, A. Bartlett, TRC

Enclosure:

Q1 Industrial Wastewater Discharge Self-Monitoring Report

# INDUSTRIAL USER SELF MONITORING REPORT

| 1. | ★ Establishment Information ★ | | | |
|---|---|---|---|---|
| A. | Name: Brookfield Avenue Landfill | | | |
| B. | Address: 575 Arthur Kill Road, Staten Island, NY 10308 | | | |
| | | | | |
| C. | Industrial Category: | | | |
| D. | Contact Official: Wes Lindemuth | | E. | Phone #: 917-794-3107 |
| F. | Reporting Period | | G. | Date sampled |
| | Start: 6/1/2021 | End: 8/31/2021 | Start: 6/16/2021 | End: 8/20/2021 |

Note: If the only wastewater discharges by your establishment into the public sewer system are sanitary or non-contact cooling water, do not address items in Tables 2, 3, 4, 5 and 6. In this case, check here [ ] and proceed directly to Table 7.

| 2. | ★Flow Information ★ | Average | Peak |
|---|---|---|---|
| A. | Total Plant Flow, gal/day | 64,178.15 | 171,030.00 |
| B. | Regulated Flow, gal/day | 64,178.15 | 171,030.00 |
| C. | Method of Flow Measurement: Flow meter (non-resettable) on the discharge line to the on-Site sanitary manhole. | | |
| The water volume discharged is monitored daily. | | | |
| | | | |

| 3. | ★ Sample Collection Information ★ |
|---|---|
| A. | Sampling Location: Prior to the gravity discharge from the oil/water seperator into the on-Site sanitary sewer system, |
| a sample port installed on the effluent end of the discharge piping collects samples. | |
| B. | Sampling Procedures: Samples are collected in accordance with 40 DFR, 403.12(g)(3) which states that grab samples |
| must be used for pH, cyanide, total phenols, oil & grease, sulfide and VOCs. | |
| For all other pollutants, 24-hours composite samples are obtained through time-proportional composite sampling techniques. | |
| | |
| C. | Preservatives Used: HCl, H2SO4, NaOH, HNO3 |
| | |

| 4. | This establishment's wastewater discharge DOES [ ] / DOES NOT [X] exceed nationwide categorical standard (s) or 15 RCNY 19-04 (a). |
|---|---|

| 5. | ★ Production Rate ★ |
|---|---|
| If applicable, provide production rate: Not Applicable | |
| | |
| | |

| 6. | ★ pH Monitoring ★ | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (Four Samples Per Day - One Hour Apart - Once a Month) | | | | | | | | | | | | | |
| A. | Date | 6/16/2021 | | 7/22/2021 | | 8/19/2021 | | / / | | / / | | / / | |
| B. | Time/pH | 9:30 | 7.30 | 11:00 | 7.24 | 10:00 | 7.71 | | | | | | |
| | | 10:30 | 7.14 | 12:00 | 7.13 | 11:00 | 7.53 | | | | | | |
| | | 11:30 | 7.06 | 13:00 | 7.01 | 12:00 | 7.53 | | | | | | |
| | | 12:30 | 7.15 | 14:00 | 7.11 | 13:00 | 7.58 | | | | | | |

| 7. | ★ HAZARDOUS WASTES GENERATION ★ |
|---|---|
| This establishment DID [ ] / DID NOT [X] generate any hazardous wastes, during this reporting period. If hazardous wastes were generated, | |
| A. | Type of Waste: |
| B. | Amount Generated (in kilograms) : |
| C. | Method of Disposal : |
| | |

| 8. | ★ CERTIFICATION ★ |
|---|---|
| A. | NON-CONTAMINATED WASTEWATER DISCHARGE CERTIFICATION: |

I hereby certify, that during this reporting period, this facility has not discharged any industrial wastewater, chemicals, cleaners or like substances generated from or in relation to any of this establishment's operations other than sanitary or non-contact cooling water. I understand that I must obtain prior written approval from the Industrial Inspections and Permitting Section before I can discharge any such wastewater. I am aware that there are significant civil and criminal sanctions for submitting false information.

_____

Name (Print) Signature

_____

Title Date Phone #

8. ★ CERTIFICATIONS (CONTINUED) ★

B. TOXIC ORGANICS CERTIFICATION:

I. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, no Toxic Organics are used or stored at my facility. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

| Wes Lindemuth | | Wes Lindemuth |
|---|---|---|
| Name (Print) | | Signature |
| Senior Project Manager | 9/30/2021 | 917-794-3107 |
| Title | Date | Phone# |

**OR**

II "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, there was no discharge to a public sewer of toxic organics during the reporting period covered by this report. I also certify that the explanations provided concerning the disposal of toxic organics from the facility are true, accurate and complete. I further certify that this facility is implementing a toxic organics management plan to protect against the release of such compounds to a public sewer. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

| | | |
|---|---|---|
| Name (Print) | | Signature |
| Title | Date | Phone# |

C. AUTHORIZED FIRM REPRESENTATIVE CERTIFICATION:

I hereby certify, under penalty of law, that I have personally examined and am familiar with the information contained in this report and all attachments therein. Furthermore, based on my inquiry of those persons immediately responsible for obtaining the information contained in this report, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I further certify that the reported sampling results are representative of the facility's normal work cycles and expected pollutant discharges.

| Wes Lindemuth | | Wes Lindemuth |
|---|---|---|
| Name (Print) | | Signature |
| Senior Project Manager | 9/30/2021 | 917-794-3107 |
| Title | Date | Phone# |

Please sign the following certification if required by the Permit/Directive:

D CYANIDE CERTIFICATION

The Industrial User must sign and submit one of the following certifications in its periodic self-monitoring reports:

a. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, cyanide is not used or stored at my facility or generated in any of our manufacturing processes and there was no discharge of cyanide to the public sewer. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Name (print) Wes Lindemuth Signature Wes Lindemuth

Title Senior Project Manager Date 9/30/2021 Phone Number 917-794-3107

**OR**

b. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, there was no discharge to a public sewer of cyanide-bearing waste during the reporting period covered by this report. I also certify that the explanations provided concerning the disposal of cyanide-bearing waste from the facility are true, accurate and complete. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Name (print)_____ Signature_____

Title_____ Date_____ Phone Number_____

If certification b. (above) is signed and submitted, explanations concerning the disposal of cyanide-bearing waste from the facility shall be provided.

| 9. | ★ DESCRIPTION OF OPERATION ★ |
|---|---|
| Site is a former landfill which is now operated as public Park. The discharge is comprised of landfill leachate which is allowed to pass through an oil-water separator prior to discharge. | |
| | |
| | |
| | |
| | |
| | |
| | |

| 10. | ★ ATTACHMENTS ★ | Yes | No | N/A |
|---|---|---|---|---|
| A. | All laboratory analyses must be conducted by a New York State Health Department certified wastewater laboratory. The results must be certified by the laboratory and submitted on the laboratory's letterhead. For each sample, the laboratory report must indicate the date of sampling, time sample was taken, sample location, sampling preservation procedures, analytical techniques used, date of analysis, units of measurement, and the laboratory's sample identification; where the analytical result reported is below the method detection level, the laboratory report must also indicate the method detection level. | X | | |
| B. | Chain of custody for all samples. | X | | |
| C. | Explanation of non-compliance and what will be done to rectify it. A compliance schedule is to be included. | | | X |
| D. | Amount of spent solvents generated and method of disposal. Explanation of zero discharges to be included. | | | X |
| E. | Description of any major modifications or malfunctions in manufacturing or pretreatment operations. | | | X |
| F. | Hazardous wastes manifests. | | | X |

# DAILY VOLUME OF DISCHARGE

# BROOKFIELD LANDFILL LEACHATE SYSTEM
# EFFLUENT FLOW METER REPORT

NYC Parks

| Date/Time | FLOW GPM *Instantaneous | FLOW TOTAL DAILY GAL *Resets at Midnight | FLOW TOTAL RUNNING GAL *Resets at 1 Billion Gallons |
|---|---|---|---|
| 6/1/2021 0:00 | 3.08 | 124810.00 | 16953710.00 |
| 6/2/2021 0:00 | 0.13 | 66820.00 | 16961850.00 |
| 6/3/2021 0:00 | 0.13 | 6400.00 | 17028670.00 |
| 6/4/2021 0:00 | 43.18 | 69100.00 | 17035070.00 |
| 6/5/2021 0:00 | 52.63 | 83100.00 | 17104170.00 |
| 6/6/2021 0:00 | 0.15 | 7070.00 | 17187270.00 |
| 6/7/2021 0:00 | 0.13 | 56530.00 | 17194340.00 |
| 6/8/2021 0:00 | 48.42 | 69690.00 | 17250870.00 |
| 6/9/2021 0:00 | 70.97 | 106510.00 | 17320560.00 |
| 6/10/2021 0:00 | 176.42 | 111780.00 | 17427070.00 |
| 6/11/2021 0:00 | 153.09 | 152120.00 | 17538850.00 |
| 6/12/2021 0:00 | 120.39 | 171030.00 | 17690970.00 |
| 6/13/2021 0:00 | 103.55 | 135240.00 | 17862000.00 |
| 6/14/2021 0:00 | 30.28 | 57660.00 | 17997240.00 |
| 6/15/2021 0:00 | 0.55 | 119450.00 | 18054900.00 |
| 6/16/2021 0:00 | 98.96 | 72460.00 | 18174350.00 |
| 6/17/2021 0:00 | 50.79 | 60880.00 | 18246810.00 |
| 6/18/2021 0:00 | 7.48 | 73580.00 | 18307690.00 |
| 6/19/2021 0:00 | 49.63 | 87180.00 | 18381270.00 |
| 6/20/2021 0:00 | 69.24 | 96530.00 | 18468450.00 |
| 6/21/2021 0:00 | 51.78 | 84480.00 | 18564980.00 |
| 6/22/2021 0:00 | 62.03 | 119060.00 | 18649460.00 |
| 6/23/2021 0:00 | 66.79 | 67870.00 | 18768520.00 |
| 6/24/2021 0:00 | 58.63 | 86700.00 | 18836390.00 |
| 6/25/2021 0:00 | 59.99 | 78800.00 | 18923090.00 |
| 6/26/2021 0:00 | 50.96 | 70130.00 | 19001890.00 |
| 6/27/2021 0:00 | 57.10 | 88390.00 | 19072020.00 |
| 6/28/2021 0:00 | 0.15 | 9200.00 | 19160410.00 |
| 6/29/2021 0:00 | 0.16 | 21280.00 | 19169610.00 |
| 6/30/2021 0:00 | 0.16 | 63260.00 | 19190890.00 |
| 7/1/2021 0:00 | 83.33 | 7600.00 | 19254150.00 |
| 7/2/2021 0:00 | 0.15 | 15890.00 | 19261750.00 |
| 7/3/2021 0:00 | 18.06 | 94620.00 | 19277640.00 |
| 7/4/2021 0:00 | 46.91 | 67990.00 | 19372260.00 |
| 7/5/2021 0:00 | 0.18 | 57430.00 | 19440250.00 |
| 7/6/2021 0:00 | 91.75 | 129070.00 | 19497680.00 |
| 7/7/2021 0:00 | 90.45 | 131780.00 | 19626750.00 |
| 7/8/2021 0:00 | 80.43 | 8270.00 | 19758530.00 |
| 7/9/2021 0:00 | 0.19 | 29570.00 | 19766800.00 |
| 7/10/2021 0:00 | 0.15 | 47940.00 | 19796370.00 |
| 7/11/2021 0:00 | 76.56 | 19010.00 | 19844310.00 |
| 7/12/2021 0:00 | 0.19 | 260.00 | 19863320.00 |
| 7/13/2021 0:00 | 0.15 | 790.00 | 19863580.00 |
| 7/14/2021 0:00 | 117.36 | 62930.00 | 19864370.00 |
| 7/15/2021 0:00 | 0.16 | 26480.00 | 19927300.00 |
| 7/16/2021 0:00 | 30.38 | 55710.00 | 19953780.00 |
| 7/17/2021 0:00 | 0.29 | 98940.00 | 20009490.00 |
| 7/18/2021 0:00 | 0.15 | 300.00 | 20108430.00 |
| 7/19/2021 0:00 | 0.16 | 109540.00 | 20108730.00 |
| 7/20/2021 0:00 | 122.37 | 82340.00 | 20218270.00 |
| 7/21/2021 0:00 | 53.12 | 63580.00 | 20300610.00 |
| 7/22/2021 0:00 | 29.54 | 29020.00 | 20364190.00 |
| 7/23/2021 0:00 | 6.16 | 127700.00 | 20393210.00 |
| 7/24/2021 0:00 | 115.7936 | 42040.00 | 20520910.00 |
| 7/25/2021 0:00 | 41.01 | 18830.00 | 20562950.00 |
| 7/26/2021 0:00 | 0.19 | 114950.00 | 20581780.00 |
| 7/27/2021 0:00 | 109.41 | 33580.00 | 20696730.00 |
| 7/28/2021 0:00 | 64.76 | 16710.00 | 20730310.00 |

# BROOKFIELD LANDFILL LEACHATE SYSTEM
# EFFLUENT FLOW METER REPORT

NYC Parks

| Date/Time | FLOW GPM *Instantaneous | FLOW TOTAL DAILY GAL *Resets at Midnight | FLOW TOTAL RUNNING GAL *Resets at 1 Billion Gallons |
|---|---|---|---|
| 7/29/2021 0:00 | 0.24 | 52280.00 | 20747020.00 |
| 7/30/2021 0:00 | 1.60 | 66310.00 | 20799300.00 |
| 7/31/2021 0:00 | 16.11 | 83040.00 | 20865610.00 |
| 8/1/2021 0:00 | 0.11 | 21510.00 | 20948650.00 |
| 8/2/2021 0:00 | 44.55 | 26350.00 | 20970160.00 |
| 8/3/2021 0:00 | 0.50 | 52940.00 | 20996510.00 |
| 8/4/2021 0:00 | 68.24 | 9750.00 | 21049450.00 |
| 8/5/2021 0:00 | 0.15 | 38690.00 | 21059200.00 |
| 8/6/2021 0:00 | 0.15 | 86650.00 | 21097890.00 |
| 8/7/2021 0:00 | 104.86 | 128790.00 | 21184540.00 |
| 8/8/2021 0:00 | 79.08 | 90810.00 | 21313330.00 |
| 8/9/2021 0:00 | 0.16 | 4350.00 | 21404140.00 |
| 8/10/2021 0:00 | 0.18 | 57040.00 | 21408490.00 |
| 8/11/2021 0:00 | 0.18 | 320.00 | 21465530.00 |
| 8/12/2021 0:00 | 0.15 | 62860.00 | 21465850.00 |
| 8/13/2021 0:00 | 1.03 | 280.00 | 21528710.00 |
| 8/14/2021 0:00 | 0.16 | 260.00 | 21528990.00 |
| 8/15/2021 0:00 | 0.15 | 101820.00 | 21529250.00 |
| 8/16/2021 0:00 | 0.15 | 370.00 | 21631070.00 |
| 8/17/2021 0:00 | 0.13 | 10350.00 | 21631440.00 |
| 8/18/2021 0:00 | 0.13 | 890.00 | 21641790.00 |
| 8/19/2021 0:00 | 0.15 | 12180.00 | 21642680.00 |
| 8/20/2021 0:00 | 95.88 | 81260.00 | 21654860.00 |
| 8/21/2021 0:00 | 43.94 | 45970.00 | 21736120.00 |
| 8/22/2021 0:00 | 44.10 | 20240.00 | 21782090.00 |
| 8/23/2021 0:00 | 77.34 | 90170.00 | 21802330.00 |
| 8/24/2021 0:00 | 65.15 | 131220.00 | 21892500.00 |
| 8/25/2021 0:00 | 95.77 | 71580.00 | 22023720.00 |
| 8/26/2021 0:00 | 0.18 | 97770.00 | 22095300.00 |
| 8/27/2021 0:00 | 153.11 | 130680.00 | 22193070.00 |
| 8/28/2021 0:00 | -- | 130680.00 | -- |
| 8/29/2021 0:00 | -- | 130680.00 | -- |
| 8/30/2021 0:00 | -- | 130680.00 | -- |
| 8/31/2021 0:00 | 86.72025 | 142310.00 | 22715790.00 |
| 8/31/2021 23:00 | 101.54 | 139900.40 | 22858100.00 |

# LAB DATA SUMMARY

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Self Monitoring Report Results for Industrial Wastewater Discharge Permit No: 18-P3149-1
June 2021

| Sample ID | Sewer Use Limits (15 R.C.N.Y. ch. 19) | M1-COMP-6-17-2021 | M1-(A-D)-6-16-2021 | M1-A-6-16-2021 | M1-B-6-16-2021 | M1-C-6-16-2021 | M1-D-6-16-2021 |
|---|---|---|---|---|---|---|---|
| Lab ID | | AD24067-002 | AD24067-001 | | | | |
| Date | | 6/17/2021 | 6/16/2021 | 6/16/2021 | 6/16/2021 | 6/16/2021 | 6/16/2021 |
| **VOCs (ppb)** | | | | | | | |
| 1,1,1-Trichloroethane | NS | | 1.0 U | | | | |
| 1,2,4-Trichlorobenzene | NS | | 1.0 U | | | | |
| Benzene | Daily Limit: 134 Monthly Limit: 57 | | 0.50 U | | | | |
| Carbon Tetrachloride | NS | | 1.0 U | | | | |
| Chloroform | NS | | 2.0 U | | | | |
| Ethylbenzene | Daily Limit: 380 Monthly Limit: 142 | | 1.0 U | | | | |
| Methyl-Tert-Butyl-Ether (MTBE) | 50 | | 0.50 U | | | | |
| Tetrachloroethene (Perc) | 20 | | 1.0 U | | | | |
| Toluene | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| Xylenes (Total) | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| **Semi-Volatile Organics (ppb)** | | | | | | | |
| Naphthalene | Daily Limit: 47 Monthly Limit: 19 | 0.51 U | | | | | |
| 1,4-Dichlorobenzene | NS | 2.0 U | | | | | |
| Phenol | NS | 2.0 U | | | | | |
| **Pesticides/ PBCs (ppb)** | 1.0 (Total PCBs, 7 PCB compounds) | | | | | | |
| Aroclor-1016 | | 0.25 U | | | | | |
| Aroclor-1242 | | 0.25 U | | | | | |
| Aroclor-1254 | | 0.25 U | | | | | |
| Aroclor-1221 | | 0.25 U | | | | | |
| Aroclor-1232 | | 0.25 U | | | | | |
| Aroclor-1248 | | 0.25 U | | | | | |
| Aroclor-1260 | | 0.25 U | | | | | |
| **Metals (mg/L)** | | | | | | | |
| Cadmium | 2 | 0.002 U | | | | | |
| Chromium (Total) | 5 | 0.05 U | | | | | |
| Chromium (Hexavalent) | 5 | 0.02 U | | | | | |
| Copper | 5 | 0.05 U | | | | | |
| Lead | 2 | 0.003 U | | | | | |
| Mercury | 0.05 | 0.0005 U | | | | | |
| Molybdenum | NS | 0.002 U | | | | | |
| Nickel | 3 | 0.05 U | | | | | |
| Silver | NS | 0.02 U | | | | | |
| Zinc | 5 | 0.05 U | | | | | |
| **General Chemistry Analysis** | | | | | | | |
| Carbonaceous Biochemical Oxygen Demand (CBOD) (mg/L) | NS | 6.7 | | | | | |
| Total Nitrogen (mg/L) | NS | 2.1 | | | | | |
| Chloride (mg/L) | NS | 260 | | | | | |
| Cyanide (Total) (mg/L) | 0.2 | | <0.01 | | | | |
| Cyanide (Amenable to Chlorination) (mg/L) | 0.2 | | <0.01 | | | | |
| Total Suspended Solids (TSS) (ppm) | 350 | | 16 | | | | |
| Non-Polar Material (Oil and Grease 1664-A HEM) (mg/L) | 50 | | 6.2 U | | | | |
| pH | 5.0-12.0 Standard Units | | | 7.30 | 7.14 | 7.06 | 7.15 |
| TKN (mg/L) | NS | 40.5 | | | | | |
| Temperature | Deg. C ( < 65.5 ) | | | 20.40 | 21.35 | 21.05 | 24.99 |

**Notes:**

**< = Less than**

**NS = No Standard**

**U = Not Detected**

**( Blank ) = Parameter not required for analysis**

**Bold = Above Daily Limit**

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Self Monitoring Report Results for Industrial Wastewater Discharge Permit No: 18-P3149-1
July 2021

| Sample ID | Sewer Use Limits (15 R.C.N.Y. ch. 19) | M1-COMP-07-23-2021 | M1-COMP-(A-D)-07-2-2021 | M1-A-07-22-2021 | M1-B-07-22-2021 | M1-C-07-22-2021 | M1-D-07-22-2021 |
|---|---|---|---|---|---|---|---|
| Lab ID | | AD2498-002 | AD24928-001 | | | | |
| Date | | 7/23/2021 | 7/22/2021 | 7/22/2021 | 7/22/2021 | 7/22/2021 | 7/22/2021 |
| **VOCs (ppb)** | | | | | | | |
| 1,1,1-Trichloroethane | NS | | 1.0 U | | | | |
| 1,2,4-Trichlorobenzene | NS | | 1.0 U | | | | |
| Benzene | Daily Limit: 134 Monthly Limit: 57 | | 0.50 U | | | | |
| Carbon Tetrachloride | NS | | 1.0 U | | | | |
| Chloroform | NS | | 2.0 U | | | | |
| Ethylbenzene | Daily Limit: 380 Monthly Limit: 142 | | 1.0 U | | | | |
| Methyl-Tert-Butyl-Ether (MTBE) | 50 | | 0.50 U | | | | |
| Tetrachloroethene (Perc) | 20 | | 1.0 U | | | | |
| Toluene | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| Xylenes (Total) | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| **Semi-Volatile Organics (ppb)** | | | | | | | |
| Naphthalene | Daily Limit: 47 Monthly Limit: 19 | 0.50 U | | | | | |
| 1,4-Dichlorobenzene | NS | 2.0 U | | | | | |
| Phenol | NS | 2.0 U | | | | | |
| **Pesticides/ PBCs (ppb)** | 1.0 (Total PCBs, 7 PCB compounds) | | | | | | |
| Aroclor-1016 | | 0.25 U | | | | | |
| Aroclor-1242 | | 0.25 U | | | | | |
| Aroclor-1254 | | 0.25 U | | | | | |
| Aroclor-1221 | | 0.25 U | | | | | |
| Aroclor-1232 | | 0.25 U | | | | | |
| Aroclor-1248 | | 0.25 U | | | | | |
| Aroclor-1260 | | 0.25 U | | | | | |
| **Metals (mg/L)** | | | | | | | |
| Cadmium | 2 | 0.002 U | | | | | |
| Chromium (Total) | 5 | 0.05 U | | | | | |
| Chromium (Hexavalent) | 5 | 0.02 U | | | | | |
| Copper | 5 | 0.05 U | | | | | |
| Lead | 2 | 0.003 U | | | | | |
| Mercury | 0.05 | 0.0005 U | | | | | |
| Molybdenum | NS | 0.002 U | | | | | |
| Nickel | 3 | 0.05 U | | | | | |
| Silver | NS | 0.02 U | | | | | |
| Zinc | 5 | 0.05 U | | | | | |
| **General Chemistry Analysis** | | | | | | | |
| Carbonaceous Biochemical Oxygen Demand (CBOD) (mg/L) | NS | 3.2 | | | | | |
| Total Nitrogen (mg/L) | NS | 2.1 | | | | | |
| Chloride (mg/L) | NS | 550 | | | | | |
| Cyanide (Total) (mg/L) | 0.2 | | <0.01 | | | | |
| Cyanide (Amenable to Chlorination) (mg/L) | 0.2 | | <0.01 | | | | |
| Total Suspended Solids (TSS) (ppm) | 350 | | 6.4 | | | | |
| Non-Polar Material (Oil and Grease 1664-A HEM) (mg/L) | 50 | | 5.6 U | | | | |
| pH | 5.0-12.0 Standard Units | | | 7.24 | 7.13 | 7.01 | 7.11 |
| TKN (mg/L) | NS | 22.6 | | | | | |
| Temperature | Deg. C ( < 65.5 ) | | | 26.28 | 26.82 | 25.61 | 26.9 |

**Notes:**

**< = Less than**

**NS = No Standard**

**U = Not Detected**

**( Blank ) = Parameter not required for analysis**

**Bold = Above Daily Limit**

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Self Monitoring Report Results for Industrial Wastewater Discharge Permit No: 18-P3149-1
August 2021

| Sample ID | Sewer Use Limits (15 R.C.N.Y. ch. 19) | M1-COMP-08-20-2021 | M1-COMP (A-D)-08-19-2021 | M1-A-08-19-2021 | M1-B-08-19-2021 | M1-C-08-19-2021 | M1-D-08-19-2021 |
|---|---|---|---|---|---|---|---|
| Lab ID | | AD25530-002 | AD25530-001 | | | | |
| Date | | 8/20/2021 | 8/19/2021 | 8/19/2021 | 8/19/2021 | 8/19/2021 | 8/19/2021 |
| **VOCs (ppb)** | | | | | | | |
| 1,1,1-Trichloroethane | NS | | 1.0 U | | | | |
| 1,2,4-Trichlorobenzene | NS | | 1.0 U | | | | |
| Benzene | Daily Limit: 134 Monthly Limit: 57 | | 0.50 U | | | | |
| Carbon Tetrachloride | NS | | 1.0 U | | | | |
| Chloroform | NS | | 2.0 U | | | | |
| Ethylbenzene | Daily Limit: 380 Monthly Limit: 142 | | 1.0 U | | | | |
| Methyl-Tert-Butyl-Ether (MTBE) | 50 | | 0.50 U | | | | |
| Tetrachloroethene (Perc) | 20 | | 1.0 U | | | | |
| Toluene | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| Xylenes (Total) | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| **Semi-Volatile Organics (ppb)** | | | | | | | |
| Naphthalene | Daily Limit: 47 Monthly Limit: 19 | 0.51 U | | | | | |
| 1,4-Dichlorobenzene | NS | 2.0 U | | | | | |
| Phenol | NS | 2.0 U | | | | | |
| **Pesticides/ PBCs (ppb)** | 1.0 (Total PCBs, 7 PCB compounds) | | | | | | |
| Aroclor-1016 | | 0.25 U | | | | | |
| Aroclor-1242 | | 0.25 U | | | | | |
| Aroclor-1254 | | 0.25 U | | | | | |
| Aroclor-1221 | | 0.25 U | | | | | |
| Aroclor-1232 | | 0.25 U | | | | | |
| Aroclor-1248 | | 0.25 U | | | | | |
| Aroclor-1260 | | 0.25 U | | | | | |
| **Metals (mg/L)** | | | | | | | |
| Cadmium | 2 | 0.002 U | | | | | |
| Chromium (Total) | 5 | 0.050 U | | | | | |
| Chromium (Hexavalent) | 5 | 0.020 U | | | | | |
| Copper | 5 | 0.050 U | | | | | |
| Lead | 2 | 0.003 U | | | | | |
| Mercury | 0.05 | 0.0005 U | | | | | |
| Molybdenum | NS | 0.002 U | | | | | |
| Nickel | 3 | 0.050 U | | | | | |
| Silver | NS | 0.020 U | | | | | |
| Zinc | 5 | 0.050 U | | | | | |
| **General Chemistry Analysis** | | | | | | | |
| Carbonaceous Biochemical Oxygen Demand (CBOD) (mg/L) | NS | 2.5 | | | | | |
| Total Nitrogen (mg/L) | NS | 2.2 | | | | | |
| Chloride (mg/L) | NS | 230 | | | | | |
| Cyanide (Total) (mg/L) | 0.2 | | <0.01 U | | | | |
| Cyanide (Amenable to Chlorination) (mg/L) | 0.2 | | <0.01 U | | | | |
| Total Suspended Solids (TSS) (mg/L) | 350 | | 9.6 | | | | |
| Non-Polar Material (Oil and Grease 1664-A HEM) (mg/L) | 50 | | 6.1 U | | | | |
| pH | 5.0-12.0 Standard Units | | | 7.71 | 7.53 | 7.53 | 7.58 |
| TKN (mg/L) | NS | 24.4 | | | | | |
| Temperature | Deg. C ( < 65.5 ) | | | 25.76 | 26.03 | 26.55 | 26.96 |

**Notes:**

**< = Less than**

**NS = No Standard**

**U = Not Detected**

**( Blank ) = Parameter not required for analysis**

**Bold = Above Daily Limit**

# LABORATORY REPORTS

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

# Project: Brookfield Landfill

**Client PO:** 152591

**Report To:** TRC Engineering
1430 Broadway
10th Floor
New York, NY 10018
Attn: Wes Lindemuth

**Received Date:** 6/17/2021

**Report Date:** 7/23/2021

**Deliverables:** NYDOH-CatB

**Lab ID:** AD24067

**Lab Project No:** 1061738

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

**Sean Berls - Quality Assurance Officer** OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Hampton-Clarke
WBE/DBE/SBE 800-426-9992

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# SDG Narrative

# HC Case Narrative

**Client:** TRC Engineering
**Project:** Brookfield Landfill

**HC Project:** 1061738

**Hampton-Clarke (HC) received the following samples on 6/17/21:**

| Client ID | HC Sample ID | Matrix | Analysis |
|---|---|---|---|
| M1-(A-D)-6-16-2021 | AD24067-001 | Aqueous | Volatile Organics (8260D), SGT-HEM (1664B), TSS (SM2540D-11), ***Cyanide (9012B), *Cyanide (Amenable) (9012B)** |
| M1-COMP-06-17-2021 | AD24067-002 | Aqueous | Semivolatile Organics (8270E), PCB (8082A), Mercury (7470A), TAL Metals (6010D/6020B), Carbonaceous BOD (SM5210 B-11), Chloride (300.0), Nitrite/Nitrate (300.0),Cr(Hex) (SM3500-CrB11), ***TKN (351)** |

* - Indicates analysis was performed by a subcontracted laboratory.

*This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.*

## Volatile Organic Analysis:

The Method Blank Spike for batches 93691, 93699 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for batch 93699 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

2-Chloroethylvinylether did not recover in the Matrix Spike and/or Matrix Spike Duplicate in batch 93699 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample. Please refer to the applicable Form 3 for the recoveries.

## Base Neutral/Acid Extractable Analysis:

The MS/MSD RPD for batch 92965 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

## PCB Analysis:

Data conforms to method requirements.

## Metals Analysis:

Due to contamination in LCS/LCSMR, batch 92402 was reset for Cu,Zn.

## Wet Chemistry Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for Chloride, batch 2754, had recoveries outside QC limits. Please refer to the QC section for the recoveries.

## Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Samples AD24067-002 was submitted to Pace Analytical for TKN analysis.

Please refer to attached subcontracted laboratory report. Samples AD24067-001 was submitted to Con-Test for Cyanide, Cyanide Amenable analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

| | | | |
|---|---|---|---|
| Sean Berls<br>Quality Assurance Officer | Or | Jean Revolus<br>Laboratory Director | 7/23/21<br>Date |

# Reporting Limit Definitions

# HC Reporting Limit Definitions/Data Qualifiers

## REPORTING DEFINITIONS

**DF** = Dilution Factor

**LCS** = Laboratory Control Spike

**MBS** = Method Blank Spike

**MS** = Matrix Spike

**MSD** = Matrix Spike Duplicate

**MDL** = Method Detection Limit

**NA** = Not Applicable

**ND** = Not Detected

**PS** = Post Digestion Spike

**RL*** = Reporting Limit

**RT** = Retention Time

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

## DATA QUALIFIERS

**A-** Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

**B-** Indicates analyte was present in the Method Blank and sample.

**d-** For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

**E-** Indicates the concentration exceeded the upper calibration range of the instrument.

**J-** Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

**R-** Retention Time is out.

**Y-** Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

# Data Package Summary Forms

# HC Report of Analysis

**Client:** TRC Engineering
**Project:** Brookfield Landfill

**HC Project #:** 1061738

**Sample ID:** M1-(A-D)-6-16-2021
**Lab#:** AD24067-001
**Matrix:** Aqueous

**Collection Date:** 6/16/2021
**Receipt Date:** 6/17/2021

**Cyanide (Amenable) 9012B**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Cyanide | 1 | mg/l | | 0.010 | ND |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Cyanide | 1 | mg/l | | 0.010 | ND |

**SGT-HEM (Non-Polar Material) 1664B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | 1 | mg/l | 6.2 | ND |

**Total Suspended Solids (SM2540D-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Suspended Solids @ 103-105 C | 1 | mg/l | 4.0 | 16 |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

Sample ID: M1-COMP-6-17-2021
Lab#: AD24067-002
Matrix: Aqueous

Collection Date: 6/17/2021
Receipt Date: 6/17/2021

**Carbonaceous BOD-5 Day (SM5210 B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Carbonaceous Bod, 5 Day | 1 | mg/l | 2.0 | 6.7 |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 20 | mg/l | 40 | 260 |

**Cr (Hexavalent) 3500-Cr B11**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cr (Hexavalent) | 1 | mg/l | 0.020 | ND |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | 1.1 |

**Nitrite-N (Aqueous) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrite | 1 | mg/l | 1.0 | ND |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1 | ug/l | 2.0 | ND |
| Naphthalene | 1 | ug/l | 0.51 | ND |
| Phenol | 1 | ug/l | 2.0 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Silver | 1 | ug/l | 20 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cadmium | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Molybdenum | 1 | ug/l | 2.0 | ND |

**Total Kjeldahl Nitrogen EPA 351**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Total Kjeldahl Nitrogen | 5 | mg/l | | 2.5 | 40.5 |

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD24067-001
Client Id: M1-(A-D)-6-16-2021
Data File: 8M548267.D
Analysis Date: 06/19/21 09:04
Date Rec/Extracted: 06/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 56-23-5 | Carbon Tetrachloride | 1.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 67-66-3 | Chloroform | 2.0 | U | 108-88-3 | Toluene | 1.0 | U |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1330-20-7 | Xylenes (Total) | 1.0 | U |

Worksheet #: 597693

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD24067-002
Client Id: M1-COMP-6-17-2021
Data File: 5M116998.D
Analysis Date: 06/24/21 13:27
Date Rec/Extracted: 06/17/21-06/23/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 990ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 106-46-7 | 1,4-Dichlorobenzene | 2.0 | U | 108-95-2 | Phenol | 2.0 | U |
| 91-20-3 | Naphthalene | 0.51 | U | | | | |

Worksheet #: 597733

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD24067-002
Client Id: M1-COMP-6-17-2021
Data File: 3G128405.D
Analysis Date: 06/23/21 09:19
Date Rec/Extracted: 06/17/21-06/22/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 12672-29-6 | Aroclor-1248 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 597706

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD24067-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | M1-COMP-6-17-2021 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 6/18/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 06/21/21 | 923922121ANEW | | 31 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 06/21/21 | 923922121ANEW | | 31 | MS | MS3_7700SWA |
| 7439-98-7 | Molybdenum | 2.0 | ND | 1 | 50 | 100 | 06/21/21 | 923922121ANEW | | 31 | MS | MS3_7700SWA |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD24067-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | M1-COMP-6-17-2021 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 6/18/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 06/21/21 | 92392 | sw27268D2 | 54 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 06/21/21 | 92392 | H27278SW | 18 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 06/21/21 | 92392 | sw27268D2 | 54 | P | PEICP2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 06/21/21 | 92392 | sw27268D2 | 54 | P | PEICP2A |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD24067-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | M1-COMP-6-17-2021 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 6/18/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 06/22/21 | 92402 | W27278A2 | 25 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 06/22/21 | 92402 | W27278A2 | 25 | P | PEICP2A |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1
## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD24076-003 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DM BUR1057 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 6/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 06/22/21 | 92402 | W27278A2 | 17 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 110 | 1 | 50 | 50 | 06/22/21 | 92402 | W27278A2 | 17 | P | PEICP2A |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD24067-001
Matrix: Aqueous
Client SampleID: M1-(A-D)-6-16-2021

Project Number: 1061738
Received Date: 6/17/2021
Collect Date: 6/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | HEM-NPM | 1 | ND | mg/L | 6.2 | 06/23/21 | 06/23/21 |
| Total Suspended Solids @ 103-105 | TSS-MUR | 1 | 16 | mg/l | 4.0 | 06/21/21 | 06/21/21 |

Lab#: AD24067-002
Matrix: Aqueous
Client SampleID: M1-COMP-6-17-2021

Project Number: 1061738
Received Date: 6/17/2021
Collect Date: 6/17/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Carbonaceous Bod, 5 Day | CBOD-5-MUR | 1 | 6.7 | MG/L | 2.0 | 06/18/21 | 06/23/21 |
| Chloride | CHLORIDE-ICW | 20 | 260 | mg/L | 40 | 06/17/21 | 06/18/21 |
| Cr (Hexavalent) | CR6-WATER | 1 | ND | mg/l | 0.020 | 06/28/21 | 06/28/21 |
| Nitrite | NO2-ICW | 1 | ND | mg/L | 1.0 | 06/17/21 | 06/17/21 |
| Nitrate | NO3-ICW | 1 | 1.1 | mg/L | 1.0 | 06/17/21 | 06/17/21 |

# Chain of Custody Forms

1061738 0018

# Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

*A Women-Owned, Disadvantaged, Small Business Enterprise*

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

## CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 1061738

Page 1 of 1

### 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | Summary | NJ Hazsite |
| 1 Business Day (100%)* | Results + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%)* | Reduced: | EnviroData |
| 3 Business Days (50%)* | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%)* | [ ] PA [ ] Other___ | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full NY ASP CatB | [ ] NYDEC |
| 8 Business Days (Stand.) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: | | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

### Customer Information

1a) Customer: TRC Companies
Address: 1430 Broadway, 10th Fl
New York, NY 10018
1b) Email/Cell/Fax/Ph: abartlett@trccompanies.com
1c) Send Invoice to: wlindemuth@trccompanies.com
1d) Send Report to: wlindemuth@trccompanies.com; abartlett@trccompanies.com; Rbowden@trccompanies.com

### Project Information

2a) Project: Brookfield Landfill 354968
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): Staten Island, NY
2d) Quote/PO # (If Applicable): 152591

FOR LAB USE ONLY ↓

Batch # AD24067

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water; S - Soil; A - Air; GW - Ground Water; SL - Sludge; WW - Waste Water; OL - Oil; OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs (8260) | cyanide (total) | cyanide (amenable) | Total suspended solids | Non-pier Material | PCBs | SVOCs (8270) | cadmium, chromium (hexavalent), copper, lead, mercury, silver, molybdenum, nickel | zinc, chromium (total), COD, total nitrogen | chloride, TKN | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | M1-A-6-16-2021 | GW | 6/16/21 | 0930 | | X | X | X | X | X | X | | | | | | | 1 | | | 2 | 5 | | | |
| | M1-B-6-16-2021 | GW | 6/16/21 | 1030 | | X | X | X | X | X | X | | | | | | | 1 | | | 2 | 5 | | | |
| | M1-C-6-16-2021 | GW | 6/16/21 | 1130 | | X | X | X | X | X | X | | | | | | | 1 | | | 2 | 5 | | | |
| ↓ | M1-D-6-16-2021 | GW | 6/16/21 | 1230 | | X | X | X | X | X | X | | | | | | | 1 | | | 2 | 5 | | | |
| 002 | M1-COMP-6-17-2021 | GW | 6/17/21 | | X | | | | | | | X | X | X | X | X | X | 7 | | | | | 1 | 1 | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| Amber Bartlett | [signature] | 6/17/21 | 12:05 |
| | [signature] | 6/17/21 | 15:57 |

11) Sampler (print name): Amber Bartlett Date: 6/17/21

Additional Notes: Please composite samples M1-A-6-16-2021, M1-B-6-16-2021, M1-C-6-16-2021 & M1-D-6-16-2021 into one sample with sample ID M1-COMP(A-D)-6-16-2021.

### Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.8 3.2

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

# CONDITION UPON RECEIPT

Batch Number AD24067 Entered By: Ricardo
Date Entered 6/17/2021 6:44:00 PM

| | | |
|---|---|---|
| 1 | Yes | Is there a corresponding COC included with the samples? |
| 2 | Yes | Are the samples in a container such as a cooler or Ice chest? |
| 3 | No | Are the COC seals intact? |
| 4 | T0054 | <--- Thermometer ID. Please specify the Temperature inside the container (in degC).<br>2.8,3.2 |
| 5 | Yes | Are the samples refrigerated (where required)/have they arrived on ice? |
| 6 | Yes | Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples: |
| 7 | Yes | Are all of the sample bottles intact? If no, specify sample numbers broken/leaking |
| 8 | Yes | Are all of the sample labels or numbers legible? If no specify: |
| 9 | Yes | Do the contents match the COC? If no, specify |
| 10 | Yes | Is there enough sample sent for the analyses listed on the COC? If no, specify: |
| 11 | Yes | Are samples preserved correctly? |
| 12 | Yes | Was temperature blank present (Place comment below if not)? If not was temperature of samples verified? |
| 13 | Yes | Other comments ...Specify (TB date, sample matrix, any missing info, etc.)<br>SAMPLE 001 COMPOSITED AT LAB |
| 14 | NA | Corrective actions (Specify item number and corrective action taken). |
| 15 | NA | Were any samples for ortho-phosphate or dissolved ferrous iron field filtered? |

# PRESERVATION DOCUMENT

Batch Number AD24067 Entered By: Ricardo

Date Entered 6/17/2021 6:45:00 PM

| Lab#: | Container Size | Container/Vial Check | Parameter | Preservative | Preservative Lot# | PH | pH Lot# |
|---|---|---|---|---|---|---|---|
| AD24067-001 | 1L | G | NPM | HCL | 253057 | 1 | HC025486 |
| AD24067-001 | 500ML | G | CN | NAOH | 330394 | 14 | HC025486 |
| AD24067-001 | 250ML | G | CN | NAOH | 330394 | 14 | HC025486 |
| AD24067-002 | 1L | P | METALS | HNO3 | 255830 | 1 | HC025486 |
| AD24067-002 | 250ML | P | TKN | H2SO4 | 3119021 | 1 | HC025486 |

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD24067-001 | 06/17/21 15:57 | RICAR | 0 | M | Received |
| AD24067-001 | 06/17/21 17:13 | RICAR | 0 | M | Login |
| AD24067-001 | 06/17/21 18:49 | R12 | 1 | A | NONE |
| AD24067-001 | 06/23/21 09:15 | LL | 1 | A | HEM-NPM |
| AD24067-001 | 06/17/21 18:49 | R12 | 2 | A | NONE |
| AD24067-001 | 06/17/21 18:49 | R12 | 3 | A | NONE |
| AD24067-001 | 06/21/21 10:11 | BCT | 3 | M | TSS |
| AD24067-001 | 06/21/21 16:11 | R12 | 3 | M | NONE |
| AD24067-001 | 06/22/21 10:17 | BCT | 3 | A | TSS |
| AD24067-001 | 06/18/21 15:46 | R31 | 6 | A | NONE |
| AD24067-001 | 06/18/21 15:46 | WP | 6 | A | VOA |
| AD24067-001 | 06/18/21 15:46 | R31 | 7 | A | NONE |
| AD24067-002 | 06/17/21 15:57 | RICAR | 0 | M | Received |
| AD24067-002 | 06/17/21 17:13 | RICAR | 0 | M | Login |
| AD24067-002 | 06/17/21 17:22 | R12 | 1 | A | NONE |
| AD24067-002 | 06/17/21 17:41 | R12 | 1 | A | NONE |
| AD24067-002 | 06/22/21 15:45 | JN | 1 | A | P/P |
| AD24067-002 | 06/17/21 17:22 | R12 | 2 | A | NONE |
| AD24067-002 | 06/17/21 17:41 | R12 | 2 | A | NONE |
| AD24067-002 | 06/23/21 15:43 | JN | 2 | A | BN/BNA |
| AD24067-002 | 06/17/21 17:22 | R12 | 3 | A | NONE |
| AD24067-002 | 06/17/21 17:41 | R12 | 3 | A | NONE |
| AD24067-002 | 06/22/21 15:45 | JN | 3 | A | P/P |
| AD24067-002 | 06/22/21 17:56 | R12 | 3 | A | NONE |
| AD24067-002 | 06/17/21 17:21 | JW | 4 | A | CR6 F/P |
| AD24067-002 | 06/17/21 17:33 | R12 | 4 | A | NONE |
| AD24067-002 | 06/17/21 18:28 | R12 | 4 | A | NONE |
| AD24067-002 | 06/18/21 11:41 | BCT | 4 | A | CBOD |
| AD24067-002 | 06/18/21 16:27 | R12 | 4 | A | NONE |
| AD24067-002 | 06/17/21 17:22 | R12 | 6 | A | NONE |
| AD24067-002 | 06/17/21 17:41 | R12 | 6 | A | NONE |
| AD24067-002 | 06/21/21 08:46 | ANS | 6 | A | TDWI/Hg |
| AD24067-002 | 06/21/21 12:48 | R12 | 6 | A | NONE |
| AD24067-002 | 06/22/21 10:21 | ANS | 6 | A | TDWI ICP reset |
| AD24067-002 | 06/22/21 12:33 | R12 | 6 | A | NONE |
| AD24067-002 | 06/17/21 17:22 | R12 | 7 | A | NONE |
| AD24067-002 | 06/17/21 17:41 | R12 | 7 | A | NONE |
| AD24067-002 | 06/17/21 17:21 | JW | 8 | A | IC |
| AD24067-002 | 06/17/21 17:33 | R12 | 8 | A | NONE |
| AD24067-002 | 06/17/21 18:28 | R12 | 8 | A | NONE |
| AD24067-002 | 06/17/21 17:22 | R12 | 9 | A | NONE |
| AD24067-002 | 06/17/21 17:41 | R12 | 9 | A | NONE |

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# Subcontracted Data

This is the last page of the data generated by Hampton-Clarke.
The following pages were submitted to HC by subcontracted laboratories.

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

June 29, 2021

Hampton Clark Veritech
175 US Route 46 West

Fairfield, NJ 07004

RE: Project: AD24067
Pace Project No.: 70177788

Dear Hampton Veritech:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lea Sherman
lea.sherman@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Sherree Baker, Hampton Clark Veritech
Danielle Marquart, Hampton Clarke Veritech
Maureen Stone, Hampton Clark Veritech



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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## CERTIFICATIONS

Project: AD24067
Pace Project No.: 70177788

**Pace Analytical Services Long Island**
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302



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Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: AD24067
Pace Project No.: 70177788

**Method:** **EPA 351.2**
**Description:** 351.2 Total Kjeldahl Nitrogen
**Client:** Hampton Clark Veritech
**Date:** June 29, 2021

**General Information:**
1 sample was analyzed for EPA 351.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 214973

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70176101001,70177476001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1081805)
  - Nitrogen, Kjeldahl, Total
- MS (Lab ID: 1081807)
  - Nitrogen, Kjeldahl, Total

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD24067
Pace Project No.: 70177788

**Sample: AD24067-002** **Lab ID: 70177788002** Collected: 06/17/21 10:00 Received: 06/22/21 10:40 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **40.5** | mg/L | 2.5 | 5 | 06/24/21 06:59 | 06/24/21 15:19 | 7727-37-9 | |

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: AD24067
Pace Project No.: 70177788

QC Batch: 214973
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70177788002

METHOD BLANK: 1081803 Matrix: Water
Associated Lab Samples: 70177788002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | ND | 0.10 | 06/24/21 14:44 | |

LABORATORY CONTROL SAMPLE: 1081804

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 4 | 3.9 | 98 | 90-110 | |

MATRIX SPIKE SAMPLE: 1081805

| Parameter | Units | 70176101001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 1.3 | 4 | 7.0 | 142 | 90-110 | M1 |

MATRIX SPIKE SAMPLE: 1081807

| Parameter | Units | 70177476001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 5.3 | 4 | 8.4 | 77 | 90-110 | M1 |

SAMPLE DUPLICATE: 1081806

| Parameter | Units | 70176101001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 1.3 | 1.1 | 16 | |

SAMPLE DUPLICATE: 1081808

| Parameter | Units | 70177476001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 5.3 | 5.6 | 5 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# QUALIFIERS

Project: AD24067
Pace Project No.: 70177788

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# QUALIFIERS

Project: AD24067
Pace Project No.: 70177788

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AD24067
Pace Project No.: 70177788

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **70177788002** | **AD24067-002** | EPA 351.2 | 214973 | EPA 351.2 | 214984 |



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# CHAIN OF CUSTODY RECORD

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph:800-426-9992 Fax:973-439-1458

**Report To:**
Hampton-Clarke, Inc.:
Attn:Reporting
175 Route 46 West
Fairfield, New Jersey 07004

**Invoice To:**
Hampton-Clarke, Inc.:
Attn:Accounting
175 Route 46 West
Fairfield, New Jersey 07004

**Project #:** 1061738

**CocID#:** 7256

**FINAL RESULTS TO: subresults@hcvlab.com**
**PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com**

**EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!**

**Turn Around Time:** Standard
**Report Type:** NYDOH-CatB (FULL)
**Preliminary Due Date:** 7/5/2021
**Hard Copy Due Date:** 7/12/2021

| Sample Number: | Client ID | Matrix: | Date Collected: | Time Collected: | Analysis Requested |
|---|---|---|---|---|---|
| AD24067-001 | M1-A\B\C\D-6-16-2021 LAB COMP | Aqueous | 6/16/2021 | 12:30:00 PM | Total CN, Amenable CN |
| AD24067-002 | M1-COMP-6-17-2021 | Aqueous | 6/17/2021 | | TKN |

**WO# : 70177788**
70177788

CS 6/18

| Relinquished By: | Accepted By: | Date: | Time: | Comments, Notes, Special Requirements, HAZARDS |
|---|---|---|---|---|
| UPS | UPS | 6/21/21 | 17:00 | |
| | [illegible] | 6/22/21 | 10:40 | |

**Cooler Temp:**_____



**HC Lab Use Only:** **Subcontracted Lab Id and Contact:** Pace-Mel, Chauntel Greaves, (631) 694-3040, LabID: DW, 575 Broad Hollow Rd, , Melville, NY, 11747-5076

# Sample Condition Upon Receipt

Pace Analytical®

**WO#: 70177788**

**PM: LS1** **Due Date: 06/30/21**

**CLIENT: HCV**

Client Name: Projec

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 1Z 1X7 842 01 9743 1104

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 2.0 Cooler Temperature Corrected(°C): 2.0

Temp should be above freezing to 6.0°C

USDA Regulated Soil ( ☐ N/A, water sample)

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: (Wet) Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: KD 6/22/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

| | | | | COMMENTS: |
|---|---|---|---|---|
| Chain of Custody Present: | ☑ Yes | ☐ No | | 1. |
| Chain of Custody Filled Out: | ☑ Yes | ☐ No | | 2. |
| Chain of Custody Relinquished: | ☑ Yes | ☐ No | | 3. |
| Sampler Name & Signature on COC: | ☑ Yes | ☐ No | ☐ N/A | 4. |
| Samples Arrived within Hold Time: | ☑ Yes | ☐ No | | 5. |
| Short Hold Time Analysis (<72hr): | ☐ Yes | ☑ No | | 6. |
| Rush Turn Around Time Requested: | ☐ Yes | ☑ No | | 7. |
| Sufficient Volume: (Triple volume provided for | ☑ Yes | ☐ No | | 8. |
| Correct Containers Used: | ☑ Yes | ☐ No | | 9. |
| -Pace Containers Used: | ☑ Yes | ☐ No | | |
| Containers Intact: | ☑ Yes | ☐ No | | 10. |
| Filtered volume received for Dissolved tests | ☐ Yes | ☐ No | ☑ N/A | 11. Note if sediment is visible in the dissolved container. |
| Sample Labels match COC: | ☑ Yes | ☐ No | | 12. |
| -Includes date/time/ID, Matrix: SL (WT) OIL | | | | |
| All containers needing preservation have been checked? | ☐ Yes | ☐ No | ☑ N/A | 13. ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ NaOH ☐ HCl |
| pH paper Lot # | | | | Sample # |
| All containers needing preservation are found to be in compliance with method recommendation? ($HNO_3$, $H_2SO_4$, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) | ☐ Yes | ☐ No | ☑ N/A | |
| Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis | | | | Initial when completed: / Lot # of added preservative: / Date/Time preservative added: |
| Samples checked for dechlorination: | ☐ Yes | ☐ No | ☑ N/A | 14. |
| KI starch test strips Lot # | | | | Positive for Res. Chlorine? Y N |
| Residual chlorine strips Lot # | | | | |
| SM 4500 CN samples checked for sulfide? | ☐ Yes | ☐ No | ☑ N/A | 15. |
| Lead Acetate Strips Lot # | | | | |
| Headspace in VOA Vials ( >6mm): | ☐ Yes | ☐ No | ☑ N/A | 16. |
| Trip Blank Present: | ☐ Yes | ☐ No | ☑ N/A | 17. |
| Trip Blank Custody Seals Present | ☐ Yes | ☐ No | ☑ N/A | |
| Pace Trip Blank Lot # (if applicable): | | | | |

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

June 29, 2021

Lea Sherman
Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747

Project Location: NY
Client Job Number:
Project Number: 70177788
Laboratory Work Order Number: 21F1413

Enclosed are results of analyses for samples received by the laboratory on June 23, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
ATTN: Lea Sherman

REPORT DATE: 6/29/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70177788

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 21F1413

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: NY

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| AD24067-001 | 21F1413-01 | Water | | SM21-22 4500 CN E | |
| | | | | SM21-22 4500 CN G | |

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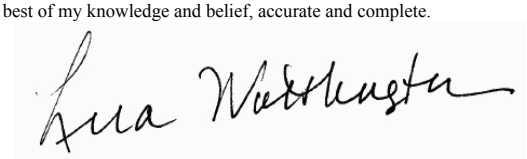
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY | Sample Description: | Work Order: 21F1413

Date Received: 6/23/2021

**Field Sample #: AD24067-001** | Sampled: 6/16/2021 12:30

**Sample ID: 21F1413-01**

Sample Matrix: Water

**Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)**

| Analyte | Results | RL | DL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | ND | 0.010 | 0.0073 | mg/L | 1 | | SM21-22 4500 CN E | 6/24/21 | 6/24/21 21:45 | DJM |
| Cyanide (amenable) | ND | 0.010 | 0.0073 | mg/L | 1 | | SM21-22 4500 CN G | 6/24/21 | 6/24/21 23:00 | DJM |

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## Sample Extraction Data

**SM21-22 4500 CN E**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 21F1413-01 [AD24067-001] | B284672 | 50.0 | 50.0 | 06/24/21 |

**SM21-22 4500 CN G**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 21F1413-01 [AD24067-001] | B284730 | 50.0 | 50.0 | 06/24/21 |

21F1413

# Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

**State Of Origin:** NY
**Cert. Needed:** [X] Yes ☐ No
**Owner Received Date:** 6/22/2021 **Results Requested By:** 6/30/2021

**Workorder:** 70177788 **Workorder Name:** AD24067

| Report To | Subcontract To |
|---|---|
| Lea Sherman<br>Pace Analytical Melville<br>575 Broad Hollow Road<br>Melville, NY 11747<br>Phone (631)694-3040 | Pace New England<br>39 Spruce St.<br>East Longmeadow, MA 01028<br>Phone (413)525-2332 |

| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers: MeOH | | | | | Requested Analysis: Total and Amenable Cyanide | | | | | | | | | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AD24067-001 | PS | 6/16/2021 12:30 | 70177788001 | Water | 1 | | | | | X | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | |

| Transfers | Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|
| 1 | Moranne Saager NY | 6.22.21 1800 | 5.12 | |
| 2 | | | | |
| 3 | | | | |

**Comments**

LEVEL 4 DATA PACKAGE NEEDED

| Cooler Temperature on Receipt °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N |
|---|---|---|---|

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

# Sample Condition Upon Receipt

Pace Analytical®

**WO#: 70177788**

**PM: LS1** **Due Date: 06/30/21**

**CLIENT: HCV**

Client Name: Projec

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 17 1x7 8420 1974 3 1104

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 2.0 Cooler Temperature Corrected(°C): 2.0

Temp should be above freezing to 6.0°C

USDA Regulated Soil ( ☐ N/A, water sample)

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: (Wet) Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: KD 6/22/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

| | | | | COMMENTS: |
|---|---|---|---|---|
| Chain of Custody Present: | ☑ Yes | ☐ No | | 1. |
| Chain of Custody Filled Out: | ☑ Yes | ☐ No | | 2. |
| Chain of Custody Relinquished: | ☑ Yes | ☐ No | | 3. |
| Sampler Name & Signature on COC: | ☑ Yes | ☐ No | ☐ N/A | 4. |
| Samples Arrived within Hold Time: | ☑ Yes | ☐ No | | 5. |
| Short Hold Time Analysis (<72hr): | ☐ Yes | ☑ No | | 6. |
| Rush Turn Around Time Requested: | ☐ Yes | ☑ No | | 7. |
| Sufficient Volume: (Triple volume provided for | ☑ Yes | ☐ No | | 8. |
| Correct Containers Used: | ☑ Yes | ☐ No | | 9. |
| -Pace Containers Used: | ☑ Yes | ☐ No | | |
| Containers Intact: | ☑ Yes | ☐ No | | 10. |
| Filtered volume received for Dissolved tests | ☐ Yes | ☐ No | ☑ N/A | 11. Note if sediment is visible in the dissolved container. |
| Sample Labels match COC: | ☑ Yes | ☐ No | | 12. |
| -Includes date/time/ID, Matrix: SL (WT) OIL | | | | |
| All containers needing preservation have been checked? | ☐ Yes | ☐ No | ☑ N/A | 13. ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ NaOH ☐ HCl |
| pH paper Lot # | | | | Sample # |
| All containers needing preservation are found to be in compliance with method recommendation? ($HNO_3$, $H_2SO_4$, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) | ☐ Yes | ☐ No | ☑ N/A | |
| Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis | | | | Initial when completed: / Lot # of added preservative: / Date/Time preservative added: |
| Samples checked for dechlorination: | ☐ Yes | ☐ No | ☑ N/A | 14. |
| KI starch test strips Lot # | | | | Positive for Res. Chlorine? Y N |
| Residual chlorine strips Lot # | | | | |
| SM 4500 CN samples checked for sulfide? | ☐ Yes | ☐ No | ☑ N/A | 15. |
| Lead Acetate Strips Lot # | | | | |
| Headspace in VOA Vials ( >6mm): | ☐ Yes | ☐ No | ☑ N/A | 16. |
| Trip Blank Present: | ☐ Yes | ☐ No | ☑ N/A | 17. |
| Trip Blank Custody Seals Present | ☐ Yes | ☐ No | ☑ N/A | |
| Pace Trip Blank Lot # (if applicable): | | | | |

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

# CHAIN OF CUSTODY RECORD

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph:800-426-9992 Fax:973-439-1458

**Report To:**
Hampton-Clarke, Inc.:
Attn:Reporting
175 Route 46 West
Fairfield, New Jersey 07004

**Invoice To:**
Hampton-Clarke, Inc.:
Attn:Accounting
175 Route 46 West
Fairfield, New Jersey 07004

**Project #:** 1061738

**CocID#:** 7256

**FINAL RESULTS TO: subresults@hcvlab.com**
**PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com**

**EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!**

**Turn Around Time:** Standard **Preliminary Due Date:** 7/5/2021
**Report Type:** NYDOH-CatB (FULL) **Hard Copy Due Date:** 7/12/2021

| Sample Number: | Client ID | Matrix: | Date Collected: | Time Collected: | Analysis Requested |
|---|---|---|---|---|---|
| AD24067-001 | M1-A\B\C\D-6-16-2021 LAB COMP | Aqueous | 6/16/2021 | 12:30:00 PM | Total CN, Amenable CN |
| AD24067-002 | M1-COMP-6-17-2021 | Aqueous | 6/17/2021 | | TKN |

**WO#: 70177788**
70177788

CS 6/18

| Relinquished By: | Accepted By: | Date: | Time: | Comments, Notes, Special Requirements, HAZARDS |
|---|---|---|---|---|
| UPS | UPS | 6/21/21 | 17:00 | |
| | Kim Bon | 6/22/21 | 10:40 | |

**Cooler Temp:**_____

HC Lab Use Only: **Subcontracted Lab Id and Contact:** Pace-Mel, Chauntel Greaves, (631) 694-3040, LabID: DW, 575 Broad Hollow Rd, , Melville, NY, 11747-5076



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Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

# Project: Brookfield Landfill

**Client PO:** 152591

**Report To:** TRC Engineering
1430 Broadway
10th Floor
New York, NY 10018
Attn: Wes Lindemuth/Amber Bartlett/R Bowden

**Received Date:** 7/23/2021

**Report Date:** 8/27/2021

**Deliverables:** NYDOH-CatB

**Lab ID:** AD24928

**Lab Project No:** 1072321

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

**Sean Berls - Quality Assurance Officer** OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Hampton-Clarke
WBE/DBE/SBE 800-426-9992

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Hampton-Clarke
WBE/DBE/SBE 800-426-9992

1072321_SUB.pdf

# SDG Narrative

# HC Case Narrative

**Client:** TRC Engineering
**Project:** Brookfield Landfill

**HC Project:** 1072321

**Hampton-Clarke (HC) received the following samples on 7/23/21:**

| Client ID | HC Sample ID | Matrix | Analysis |
|---|---|---|---|
| M1- COMP-(A-D)-07-22-2021 | AD24928-001 | Aqueous | Volatile Organics (8260D), SGT-HEM (1664B), TSS (SM2540D-11), *Cyanide (9012B), *Cyanide (Amenable) (9012B) |
| M1-COMP-07-23-2021 | AD24928-005 | Aqueous | Semivolatile Organics (8270E), PCB (8082A), Mercury (7470A), TAL Metals (6010D/6020B), Carbonaceous BOD (SM5210 B-11), Chloride (300.0), Nitrite/Nitrate (300.0),Cr(Hex) (SM3500-CrB11), *TKN (351) |

* - Indicates analysis was performed by a subcontracted laboratory.

*This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.*

## Volatile Organic Analysis:

The Method Blank Spike for batch 94273 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for batch 94273 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

2-Chloroethylvinylether did not recover in the Matrix Spike and/or Matrix Spike Duplicate in batch 94273 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample. Please refer to the applicable Form 3 for the recoveries.

## Base Neutral/Acid Extractable Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 93339 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

## PCB Analysis:

Data conforms to method requirements.

## Metals Analysis:

The Post Spike for batch 93870 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

## Wet Chemistry Analysis:

The Matrix Spike and Matrix Spike Dup for Chloride, batch 2769 had recoveries outside QC limits. Please refer to the QC section for the recoveries.

The difference between dilutions for CBOD sample AD24928-002 was more than 30%.

## Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Samples AD24928-001 and 002 were submitted to Pace Analytical for Cyanide, Cyanide Amenable and TKN analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

| | | | |
|---|---|---|---|
| Sean Berls<br>Quality Assurance Officer | Or | Jean Revolus<br>Laboratory Director | 8/30/21<br>Date |

# Reporting Limit Definitions

# HC Reporting Limit Definitions/Data Qualifiers

## REPORTING DEFINITIONS

**DF** = Dilution Factor

**DUP** = Duplicate

**LCS** = Laboratory Control Spike

**MBS** = Method Blank Spike

**MDL** = Method Detection Limit

**MR** = Matrix Replicate

**MS** = Matrix Spike

**MSD** = Matrix Spike Duplicate

**NA** = Not Applicable

**ND** = Not Detected

**PS** = Post Digestion Spike

**RL*** = Reporting Limit

**RT** = Retention Time

**SD** = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

## DATA QUALIFIERS

**A-** Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

**B-** Indicates analyte was present in the Method Blank and sample.

**d-** For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

**E-** Indicates the concentration exceeded the upper calibration range of the instrument.

**J-** Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

**R-** Retention Time is out.

**Y-** Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

# Data Package Summary Forms

# HC Report of Analysis

**Client:** TRC Engineering
**Project:** Brookfield Landfill

**HC Project #:** 1072321

**Sample ID:** M1-COMP-(A-D)-07-22-2021
**Lab#:** AD24928-001
**Matrix:** Aqueous

**Collection Date:** 7/23/2021
**Receipt Date:** 7/23/2021

### Cyanide (Amenable) 9012B

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Cyanide | 1 | ug/l | | 10.0 | <10.0 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Cyanide | 1 | ug/l | | 10.0 | <10.0 |

### SGT-HEM (Non-Polar Material) 1664B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | 1 | mg/l | 5.6 | ND |

### Total Suspended Solids (SM2540D-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Suspended Solids @ 103-105 C | 1 | mg/l | 4.0 | 6.4 |

### Volatile Organics (no search) 8260

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** M1-COMP-07-23-2021
**Lab#:** AD24928-002
**Matrix:** Aqueous

**Collection Date:** 7/22/2021
**Receipt Date:** 7/23/2021

### Carbonaceous BOD-5 Day (SM5210 B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Carbonaceous Bod, 5 Day | 1 | mg/l | 2.0 | 3.2 |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 20 | mg/l | 40 | 550 |

### Cr (Hexavalent) 3500-Cr B11

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cr (Hexavalent) | 1 | mg/l | 0.020 | ND |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | 1.1 |

### Nitrite-N (Aqueous) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrite | 1 | mg/l | 1.0 | ND |

### PCB 8082

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |

### Semivolatile Organics (no search) 8270

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1 | ug/l | 2.0 | ND |
| Naphthalene | 1 | ug/l | 0.50 | ND |
| Phenol | 1 | ug/l | 2.0 | ND |

### TAL Metals 6010D

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Silver | 1 | ug/l | 20 | ND |
| Zinc | 1 | ug/l | 50 | ND |

### TAL Metals 6020B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cadmium | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Molybdenum | 1 | ug/l | 2.0 | ND |

### Total Kjeldahl Nitrogen EPA 351

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Total Kjeldahl Nitrogen | 10 | mg/l | | 1.0 | 22.6 |

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD24928-001
Client Id: M1-COMP-(A-D)-07-22-202
Data File: 11M94038.D
Analysis Date: 07/29/21 00:32
Date Rec/Extracted: 07/23/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 56-23-5 | Carbon Tetrachloride | 1.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 67-66-3 | Chloroform | 2.0 | U | 108-88-3 | Toluene | 1.0 | U |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1330-20-7 | Xylenes (Total) | 1.0 | U |

Worksheet #: 606542

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD24928-002
Client Id: M1-COMP-07-23-2021
Data File: 5M117495.D
Analysis Date: 07/29/21 20:49
Date Rec/Extracted: 07/23/21-07/29/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 106-46-7 | 1,4-Dichlorobenzene | 2.0 | U | 108-95-2 | Phenol | 2.0 | U |
| 91-20-3 | Naphthalene | 0.50 | U | | | | |

Worksheet #: 603353

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD24928-002
Client Id: M1-COMP-07-23-2021
Data File: 3G129128.D
Analysis Date: 07/28/21 16:24
Date Rec/Extracted: 07/23/21-07/28/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 12672-29-6 | Aroclor-1248 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 603268

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD24928-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | M1-COMP-07-23-2021 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 7/23/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 07/28/21 | 93870 | sw27437b2 | 18 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 07/28/21 | 93870 | sw27437b2 | 18 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 07/27/21 | 93870 | H27437SW | 14 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 07/28/21 | 93870 | sw27437b2 | 18 | P | PEICP2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 07/28/21 | 93870 | sw27437b2 | 18 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 07/28/21 | 93870 | sw27437b2 | 18 | P | PEICP2A |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD24928-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | M1-COMP-07-23-2021 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 7/23/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 07/27/21 | 938702721ANEW | | 22 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 07/27/21 | 938702721ANEW | | 22 | | MSMS3_7700SWA |
| 7439-98-7 | Molybdenum | 2.0 | ND | 1 | 50 | 100 | 07/27/21 | 938702721ANEW | | 22 | | MSMS3_7700SWA |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD24928-001
Matrix Aqueous
Client SampleID: M1-COMP-(A-D)-07-22-20

Project Number: 1072321
Received Date: 7/23/2021
Collect Date: 7/23/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | HEM-NPM | 1 | ND | mg/L | 5.6 | 07/27/21 | 07/27/21 |
| Total Suspended Solids @ 103-105 | TSS-MUR | 1 | 6.4 | mg/l | 4.0 | 07/26/21 | 07/26/21 |

Lab#: AD24928-002
Matrix Aqueous
Client SampleID: M1-COMP-07-23-2021

Project Number: 1072321
Received Date: 7/23/2021
Collect Date: 7/22/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Carbonaceous Bod, 5 Day | CBOD-5-MUR | 1 | 3.2 | MG/L | 2.0 | 07/23/21 | 07/28/21 |
| Chloride | CHLORIDE-ICW | 20 | 550 | mg/L | 40 | 07/27/21 | 07/27/21 |
| Cr (Hexavalent) | CR6-WATER | 1 | ND | mg/l | 0.020 | 08/04/21 | 08/04/21 |
| Nitrite | NO2-ICW | 1 | ND | mg/L | 1.0 | 07/23/21 | 07/23/21 |
| Nitrate | NO3-ICW | 1 | 1.1 | mg/L | 1.0 | 07/23/21 | 07/23/21 |

# Chain of Custody Forms

1072321 MO15

# Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992
*A Women-Owned, Disadvantaged, Small Business Enterprise*

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

## CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1072321

Page 1 of 1

### 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | (Summary) | NJ Hazsite |
| 1 Business Day (100%) * | Results + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%) * | Reduced: | EnviroData |
| 3 Business Days (50%) * | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%) * | [ ] PA [ ] Other___ | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full / (NY ASP CatB) | [ ] NYDEC |
| (8 Business Days (Stand.)) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: | | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

### Customer Information

1a) Customer: TRC Companies
Address: 1430 Broadway, 10th Fl
New York, NY 10018
1b) Email/Cell/Fax/Ph: abartlett@trccompanies.com
1c) Send Invoice to: wlindemuth@trccompanies.com
1d) Send Report to: abartlett@trccompanies.com RBowden@trccompanies.com wlindemuth@trccompanies.com

### Project Information

2a) Project: Brookfield Avenue Landfill
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): Staten Island, NY
2d) Quote/PO # (If Applicable): 152591

FOR LAB USE ONLY

Batch # AD24928

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs (8260) | cyanide (total) | cyanide (amenable) | Total Suspended Solids | Non-polar material | PCBs | SVOCs (8270) | cadmium, chromium, copper, lead, mercury, silver, nickel, zinc, chromium (total) | CBOD, total nitrogen, chloride | TKN | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | M1-A-07-22-2021 | GW | 7/22/21 | 1100 | | X | X | X | X | X | X | | | | | | 1 | | | 2 | S | | | | |
| | M1-B-07-22-2021 | GW | 7/22/21 | 1200 | | X | X | X | X | X | X | | | | | | 1 | | | 2 | S | | | | |
| | M1-C-07-22-2021 | GW | 7/22/21 | 1300 | | X | X | X | X | X | X | | | | | | 1 | | | 2 | S | | | | |
| | M1-D-07-22-2021 | GW | 7/22/21 | 1400 | | X | X | X | X | X | X | | | | | | 1 | | | 2 | S | | | | |
| 002 | M1-COMP-07-23-2021 | GW | 7/23/21 | 930 | X | | | | | | | X | X | X | X | X | X | 7 | | | | | 1 | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| Amber Bartlett | [signature] | 7/23/21 | 11:15 |
| [signature] | [signature] | 7/23/21 | 15:54 |
| | | | |
| | | | |

11) Sampler (print name): Date:

**Additional Notes** Please composite samples M1-A-07-22-2021, M1-B-07-22-2021, M1-C-07-22-2021 and M1-D-07-22-2021 into one sample with sample ID M1-COMP (A-D)-07-22-2021.

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Cooler Temperature: 2-8 3-1

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

# CONDITION UPON RECEIPT

Batch Number AD24928 Entered By: maxwell
Date Entered 7/23/2021 4:48:00 PM

| | | |
|---|---|---|
| 1 | Yes | Is there a corresponding COC included with the samples? |
| 2 | Yes | Are the samples in a container such as a cooler or Ice chest? |
| 3 | No | Are the COC seals intact? |
| 4 | T0054 | <--- Thermometer ID. Please specify the Temperature inside the container (in degC).<br>2.8,3.1 |
| 5 | Yes | Are the samples refrigerated (where required)/have they arrived on ice? |
| 6 | Yes | Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples: |
| 7 | Yes | Are all of the sample bottles intact? If no, specify sample numbers broken/leaking |
| 8 | Yes | Are all of the sample labels or numbers legible? If no specify: |
| 9 | Yes | Do the contents match the COC? If no, specify |
| 10 | Yes | Is there enough sample sent for the analyses listed on the COC? If no, specify: |
| 11 | Yes | Are samples preserved correctly? |
| 12 | Yes | Was temperature blank present (Place comment below if not)? If not was temperature of samples verified? |
| 13 | NA | Other comments ...Specify (TB date, sample matrix, any missing info, etc.) |
| 14 | NA | Corrective actions (Specify item number and corrective action taken). |
| 15 | NA | Were any samples for ortho-phosphate or dissolved ferrous iron field filtered? |

# PRESERVATION DOCUMENT

Batch Number AD24928 Entered By: maxwell

Date Entered 7/23/2021 4:49:00 PM

| Lab#: | Container Size | Container/Vial Check | Parameter | Preservative | Preservative Lot# | PH | pH Lot# |
|---|---|---|---|---|---|---|---|
| AD24928-001 | 1L | G | NPM | HCL | 267411 | 1 | HC904495 |
| AD24928-001 | 500ML | G | TOTAL CN | NAOH | 340653 | 14 | HC904495 |
| AD24928-001 | 120ML | G | CN | NAOH | 340653 | 14 | HC904495 |
| AD24928-002 | 250ML | P | TKN | H2SO4 | 3119021 | 1 | HC904495 |
| AD24928-002 | 1L | P | METALS | HNO3 | 255830 | 1 | HC904495 |
| AD24928-003 | NA | NA | NA | NA | NA | NA | NA |
| AD24928-004 | NA | NA | NA | NA | NA | NA | NA |
| AD24928-005 | NA | NA | NA | NA | NA | NA | NA |

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD24928-001 | 07/23/21 15:54 | MAXW | 0 | M | Received |
| AD24928-001 | 07/23/21 16:17 | MAXW | 0 | M | Login |
| AD24928-001 | 07/23/21 17:01 | R12 | 6 | A | NONE |
| AD24928-001 | 07/26/21 09:22 | BCT | 6 | A | TSS |
| AD24928-001 | 07/26/21 11:24 | R12 | 6 | A | NONE |
| AD24928-001 | 07/23/21 17:01 | R12 | 7 | A | NONE |
| AD24928-001 | 07/23/21 17:01 | R12 | 8 | A | NONE |
| AD24928-001 | 07/27/21 09:16 | LL | 8 | A | HEM-NPM |
| AD24928-001 | 07/28/21 20:33 | R31 | 10 | A | NONE |
| AD24928-001 | 07/28/21 20:34 | WP | 10 | A | VOA |
| AD24928-001 | 07/28/21 20:33 | R31 | 11 | A | NONE |
| AD24928-002 | 07/23/21 15:54 | MAXW | 0 | M | Received |
| AD24928-002 | 07/23/21 16:17 | MAXW | 0 | M | Login |
| AD24928-002 | 07/23/21 16:50 | JW | 5 | A | CR6 F/P & IC |
| AD24928-002 | 07/23/21 17:18 | R12 | 5 | A | NONE |
| AD24928-002 | 07/23/21 16:50 | JW | 6 | A | BOD/CBOD |
| AD24928-002 | 07/23/21 17:18 | R12 | 6 | A | NONE |
| AD24928-002 | 07/23/21 17:01 | R12 | 8 | A | NONE |
| AD24928-002 | 08/02/21 11:46 | JOSEL | 8 | A | SHELF |
| AD24928-002 | 07/27/21 12:29 | JW | 9 | A | IC |
| AD24928-002 | 07/27/21 16:49 | R12 | 9 | A | NONE |
| AD24928-002 | 07/23/21 17:01 | R12 | 10 | A | NONE |
| AD24928-002 | 07/28/21 08:04 | LV | 10 | A | p/p |
| AD24928-002 | 07/28/21 15:37 | R12 | 10 | A | NONE |
| AD24928-002 | 07/23/21 17:01 | R12 | 11 | A | NONE |
| AD24928-002 | 07/29/21 07:44 | AP | 11 | A | bna |
| AD24928-002 | 07/23/21 17:01 | R12 | 12 | A | NONE |
| AD24928-002 | 07/23/21 17:01 | R12 | 13 | A | NONE |
| AD24928-002 | 07/28/21 08:04 | LV | 13 | A | p/p |

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# Subcontracted Data

This is the last page of the data generated by Hampton-Clarke.
The following pages were submitted to HC by subcontracted laboratories.

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

July 30, 2021

Hampton Clark Veritech
175 US Route 46 West

Fairfield, NJ 07004

RE: Project: AD24928
Pace Project No.: 70181784

Dear Hampton Veritech:

Enclosed are the analytical results for sample(s) received by the laboratory on July 26, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lea Sherman
lea.sherman@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Sherree Baker, Hampton Clark Veritech
Danielle Marquart, Hampton Clarke Veritech
Maureen Stone, Hampton Clark Veritech



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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## CERTIFICATIONS

Project: AD24928
Pace Project No.: 70181784

**Pace Analytical Services Long Island**
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302



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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: AD24928
Pace Project No.: 70181784

**Method:** **EPA 351.2**
**Description:** 351.2 Total Kjeldahl Nitrogen
**Client:** Hampton Clark Veritech
**Date:** July 30, 2021

**General Information:**
1 sample was analyzed for EPA 351.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**



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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: AD24928
Pace Project No.: 70181784

**Method:** **SM22 4500-CN-E**
**Description:** SM 4500 CNE Cyanide, Total
**Client:** Hampton Clark Veritech
**Date:** July 30, 2021

**General Information:**
1 sample was analyzed for SM22 4500-CN-E by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with SM20/22 4500-CN-C with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**



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Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: AD24928
Pace Project No.: 70181784

**Method:** **SM22 4500-CN-E**
**Description:** 4500CNG Cyanide, Amenable
**Client:** Hampton Clark Veritech
**Date:** July 30, 2021

**General Information:**
1 sample was analyzed for SM22 4500-CN-E by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with SM22 4500-CN-G with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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## ANALYTICAL RESULTS

Project: AD24928
Pace Project No.: 70181784

**Sample: M1-Comp (A-D)-07-22-2021** **Lab ID: 70181784001** Collected: 07/22/21 14:00 Received: 07/26/21 13:30 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **SM 4500 CNE Cyanide, Total** | Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C<br>Pace Analytical Services - Melville | | | | | | | |
| Cyanide | **<10.0** | ug/L | 10.0 | 1 | 07/28/21 11:24 | 07/28/21 17:09 | 57-12-5 | |
| **4500CNG Cyanide, Amenable** | Analytical Method: SM22 4500-CN-E Preparation Method: SM22 4500-CN-G<br>Pace Analytical Services - Melville | | | | | | | |
| Amenable Cyanide | **<10.0** | ug/L | 10.0 | 1 | 07/29/21 14:42 | 07/29/21 18:34 | 57-12-5 | |

## REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD24928
Pace Project No.: 70181784

**Sample: AD24928-02** **Lab ID: 70181784002** Collected: 07/23/21 09:30 Received: 07/26/21 13:30 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **22.6** | mg/L | 1.0 | 10 | 07/27/21 06:55 | 07/27/21 15:56 | 7727-37-9 | |

## REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: AD24928
Pace Project No.: 70181784

QC Batch: 219235
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70181784002

METHOD BLANK: 1105618 Matrix: Water
Associated Lab Samples: 70181784002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | ND | 0.10 | 07/27/21 15:25 | |

LABORATORY CONTROL SAMPLE: 1105619

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 4 | 4.0 | 101 | 90-110 | |

MATRIX SPIKE SAMPLE: 1105620

| Parameter | Units | 70181795002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 3.5 | 4 | 7.1 | 90 | 90-110 | |

MATRIX SPIKE SAMPLE: 1105622

| Parameter | Units | 70181639002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 1.2 | 4 | 5.5 | 107 | 90-110 | |

SAMPLE DUPLICATE: 1105621

| Parameter | Units | 70181795002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 3.5 | 3.2 | 9 | |

SAMPLE DUPLICATE: 1105623

| Parameter | Units | 70181639002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 1.2 | 1.2 | 4 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: AD24928
Pace Project No.: 70181784

QC Batch: 219497
QC Batch Method: SM20/22 4500-CN-C
Analysis Method: SM22 4500-CN-E
Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70181784001

METHOD BLANK: 1106783 Matrix: Water
Associated Lab Samples: 70181784001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Cyanide | ug/L | ND | 10.0 | 07/28/21 17:05 | |

LABORATORY CONTROL SAMPLE: 1106784

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Cyanide | ug/L | 75 | 77.0 | 103 | 85-115 | |

MATRIX SPIKE SAMPLE: 1106785

| Parameter | Units | 70181850001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Cyanide | ug/L | <5.0 | 100 | 92.7 | 93 | 75-125 | H3 |

SAMPLE DUPLICATE: 1106786

| Parameter | Units | 70181850001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Cyanide | ug/L | <5.0 | <10.0 | | H3 |

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Melville, NY 11747
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## QUALITY CONTROL DATA

Project: AD24928
Pace Project No.: 70181784

QC Batch: 219636
QC Batch Method: SM22 4500-CN-G
Analysis Method: SM22 4500-CN-E
Analysis Description: 4500CNG Cyanide, Amenable
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70181784001

METHOD BLANK: 1107655
Matrix: Water
Associated Lab Samples: 70181784001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Amenable Cyanide | ug/L | ND | 10.0 | 07/29/21 18:31 | |

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# QUALIFIERS

Project: AD24928
Pace Project No.: 70181784

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.



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Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AD24928
Pace Project No.: 70181784

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **70181784002** | **AD24928-02** | EPA 351.2 | 219235 | EPA 351.2 | 219240 |
| **70181784001** | **M1-Comp (A-D)-07-22-2021** | SM20/22 4500-CN-C | 219497 | SM22 4500-CN-E | 219572 |
| **70181784001** | **M1-Comp (A-D)-07-22-2021** | SM22 4500-CN-G | 219636 | SM22 4500-CN-E | 219784 |



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# CHAIN OF CUSTODY RECORD

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph:800-426-9992 Fax:973-439-1458

**Report To:**
Hampton-Clarke, Inc.:
Attn:Reporting
175 Route 46 West
Fairfield, New Jersey 07004

**Invoice To:**
Hampton-Clarke, Inc.:
Attn:Accounting
175 Route 46 West
Fairfield, New Jersey 07004

**Project #:** 1072321

**CocID#:** 7317

**FINAL RESULTS TO: subresults@hcvlab.com**
**PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com**

**EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!**

**Turn Around Time:** Standard **Preliminary Due Date:** 8/9/2021
**Report Type:** NYDOH-CatB (FULL) **Hard Copy Due Date:** 8/17/2021

| Sample Number: | Client ID | Matrix: | Date Collected: | Time Collected: | Analysis Requested |
|---|---|---|---|---|---|
| AD24928-001 | M1-A\B\C\D-07-22-2021 COMP | Aqueous | 7/22/2021 | 2:00:00 PM | Total CN, Amenable CN |
| AD24928-002 | M1-COMP-07-23-2021 | Aqueous | ~~7/22/2021~~ 7/23/2021 | 9:30:00 AM | TKN |

GHL 7/23/21

**WO#: 70181784**
70181784

| Relinquished By: | Accepted By: | Date: | Time: | Comments, Notes, Special Requirements, HAZARDS |
|---|---|---|---|---|
| Received | | 7/26/21 | 13:33 | CL for CS 7/23/21 |
| | [signature] | 7/26/21 | 13:37 | 0.3 (W) |

**Cooler Temp:**_____

**HC Lab Use Only:** **Subcontracted Lab Id and Contact:** Pace-Mel, Chauntel Greaves, (631) 694-3040, LabID: DW, 575 Broad Hollow Rd, , Melville, NY, 11747-5076

Pace Analytical®

# Sample Condition Upon Receipt

**WO#: 70181784**

**PM: LS1** **Due Date: 08/03/21**

**CLIENT: HCV**

Client Name: Proje

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 0.3 Cooler Temperature Corrected(°C): 0.3

Temp should be above freezing to 6.0°C

USDA Regulated Soil ( ☐ N/A, water sample)

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: (Wet) Blue None

☑ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: KD 7/26/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

| | | | | COMMENTS: |
|---|---|---|---|---|
| Chain of Custody Present: | ☑Yes | ☐No | | 1. |
| Chain of Custody Filled Out: | ☑Yes | ☐No | | 2. |
| Chain of Custody Relinquished: | ☑Yes | ☐No | | 3. |
| Sampler Name & Signature on COC: | ☑Yes | ☐No | ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes | ☐No | | 5. |
| Short Hold Time Analysis (<72hr): | ☐Yes | ☑No | | 6. |
| Rush Turn Around Time Requested: | ☐Yes | ☑No | | 7. |
| Sufficient Volume: (Triple volume provided for | ☑Yes | ☐No | | 8. |
| Correct Containers Used: | ☑Yes | ☐No | | 9. |
| -Pace Containers Used: | ☑Yes | ☐No | | |
| Containers Intact: | ☑Yes | ☐No | | 10. |
| Filtered volume received for Dissolved tests | ☐Yes | ☐No | ☑N/A | 11. Note if sediment is visible in the dissolved container. |
| Sample Labels match COC: | ☑Yes | ☐No | | 12. |
| -Includes date/time/ID, Matrix: SL (WT) OIL | | | | |
| All containers needing preservation have been checked? | ☐Yes | ☐No | ☑N/A | 13. ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ NaOH ☐ HCl |
| pH paper Lot # | | | | Sample # |
| All containers needing preservation are found to be in compliance with method recommendation? ($HNO_3$, $H_2SO_4$, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) | ☐Yes | ☐No | ☑N/A | |
| Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis | | | | Initial when completed: / Lot # of added preservative: / Date/Time preservative added: |
| Samples checked for dechlorination: | ☐Yes | ☐No | ☑N/A | 14. |
| KI starch test strips Lot # | | | | Positive for Res. Chlorine? Y N |
| Residual chlorine strips Lot # | | | | |
| SM 4500 CN samples checked for sulfide? | ☐Yes | ☐No | ☑N/A | 15. |
| Lead Acetate Strips Lot # | | | | |
| Headspace in VOA Vials ( >6mm): | ☐Yes | ☐No | ☑N/A | 16. |
| Trip Blank Present: | ☐Yes | ☐No | ☑N/A | 17. |
| Trip Blank Custody Seals Present | ☐Yes | ☐No | ☑N/A | |
| Pace Trip Blank Lot # (if applicable): | | | | |

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

# Project: Brookfield Landfill

**Client PO:** 152591

**Report To:** TRC Engineering
1430 Broadway
10th Floor
New York, NY 10018
Attn: Wes Lindemuth/Amber Bartlett

**Received Date:** 8/20/2021

**Report Date:** 9/20/2021

**Deliverables:** NYDOH-CatB

**Lab ID:** AD25530

**Lab Project No:** 1082012

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

**Sean Berls - Quality Assurance Officer** OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Hampton-Clarke
WBE/DBE/SBE 800-426-9992

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# SDG Narrative

# HC Case Narrative

**Client:** TRC Engineering
**Project:** Brookfield Landfill

**HC Project:** 1082012

**Hampton-Clarke (HC) received the following samples on 8/20/21:**

| Client ID | HC Sample ID | Matrix | Analysis |
|---|---|---|---|
| M1-COMP-(A-D)-08-19-2021 | AD25530-001 | Aqueous | Volatile Organics (8260D), SGT-HEM (1664B), TSS (SM2540D-11), *Cyanide (9012B), *Cyanide (Amenable) (9012B) |
| M1-COMP-08-20-2021 | AD25530-005 | Aqueous | Semivolatile Organics (8270E), PCB (8082A), Mercury (7470A), TAL Metals (6010D/6020B), Carbonaceous BOD (SM5210 B-11), Chloride (300.0), Nitrite/Nitrate (300.0),Cr(Hex) (SM3500-CrB11), *TKN (351) |

* - Indicates analysis was performed by a subcontracted laboratory.

*This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.*

## Volatile Organic Analysis:

The Method Blank Spike for batch 96323 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Spiking compounds were diluted out from Matrix Spike and Matrix Spike Duplicate for batch 96323. Please refer to the applicable Form 3 for the recoveries.

## Base Neutral/Acid Extractable Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch 94741 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

## PCB Analysis:

Data conforms to method requirements.

## Metals Analysis:

The Post Spike for batch 94326 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

## Wet Chemistry Analysis:

The Matrix Spike and Matrix Spike Dup for Chloride and Nitrate , batch 2777 had recoveries outside QC limits. Please refer to the QC section for the recoveries.

**Subcontracted Analysis:**

lease refer to attached subcontracted laboratory report. Samples AD25530-001 and 002 were submitted to Pace Analytical for Cyanide, Cyanide Amenable and TKN analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

9/20/2021
Date

# Reporting Limit Definitions

# HC Reporting Limit Definitions/Data Qualifiers

## REPORTING DEFINITIONS

**DF** = Dilution Factor

**DUP** = Duplicate

**LCS** = Laboratory Control Spike

**MBS** = Method Blank Spike

**MDL** = Method Detection Limit

**MR** = Matrix Replicate

**MS** = Matrix Spike

**MSD** = Matrix Spike Duplicate

**NA** = Not Applicable

**ND** = Not Detected

**PS** = Post Digestion Spike

**RL*** = Reporting Limit

**RT** = Retention Time

**SD** = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

## DATA QUALIFIERS

**A-** Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

**B-** Indicates analyte was present in the Method Blank and sample.

**d-** For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

**E-** Indicates the concentration exceeded the upper calibration range of the instrument.

**J-** Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

**R-** Retention Time is out.

**Y-** Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

# Data Package Summary Forms

# HC Report of Analysis

**Client:** TRC Engineering
**Project:** Brookfield Landfill

**HC Project #:** 1082012

**Sample ID:** M1 COMP (A-D)-08-19-2021
**Lab#:** AD25530-001
**Matrix:** Aqueous

**Collection Date:** 8/19/2021
**Receipt Date:** 8/20/2021

**Cyanide (Amenable) 9012B**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Cyanide | 1 | ug/l | | 10.0 | <10.0 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Cyanide | 1 | ug/l | | 10.0 | <10.0 |

**SGT-HEM (Non-Polar Material) 1664B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | 1 | mg/l | 6.1 | ND |

**Total Suspended Solids (SM2540D-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Suspended Solids @ 103-105 C | 1 | mg/l | 4.0 | 9.6 |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** M1-COMP-08-20-2021
**Lab#:** AD25530-002
**Matrix:** Aqueous

**Collection Date:** 8/20/2021
**Receipt Date:** 8/20/2021

### Carbonaceous BOD-5 Day (SM5210 B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Carbonaceous Bod, 5 Day | 1 | mg/l | 2.0 | 2.5 |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 10 | mg/l | 20 | 230 |

### Cr (Hexavalent) 3500-Cr B11

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cr (Hexavalent) | 1 | mg/l | 0.020 | ND |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | 1.2 |

### Nitrite-N (Aqueous) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrite | 1 | mg/l | 1.0 | ND |

### PCB 8082

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |

### Semivolatile Organics (no search) 8270

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1 | ug/l | 2.0 | ND |
| Naphthalene | 1 | ug/l | 0.51 | ND |
| Phenol | 1 | ug/l | 2.0 | ND |

### TAL Metals 6010D

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Silver | 1 | ug/l | 20 | ND |
| Zinc | 1 | ug/l | 50 | ND |

### TAL Metals 6020B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cadmium | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Molybdenum | 1 | ug/l | 2.0 | ND |

### Total Kjeldahl Nitrogen EPA 351

| Analyte | DF | Units | MDL | RL | Result |
|---|---|---|---|---|---|
| Total Kjeldahl Nitrogen | 5 | mg/l | | 2.5 | 24.4 |

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD25530-001
Client Id: M1 COMP (A-D)-08-19-202
Data File: 1M151992.D
Analysis Date: 08/26/21 22:50
Date Rec/Extracted: 08/20/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 56-23-5 | Carbon Tetrachloride | 1.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 67-66-3 | Chloroform | 2.0 | U | 108-88-3 | Toluene | 1.0 | U |
| 100-41-4 | Ethylbenzene | 1.0 | U | 1330-20-7 | Xylenes (Total) | 1.0 | U |

Worksheet #: 607799 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD25530-002
Client Id: M1-COMP-08-20-2021
Data File: 7M116233.D
Analysis Date: 08/30/21 12:39
Date Rec/Extracted: 08/20/21-08/26/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 990ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 106-46-7 | 1,4-Dichlorobenzene | 2.0 | U | 108-95-2 | Phenol | 2.0 | U |
| 91-20-3 | Naphthalene | 0.51 | U | | | | |

Worksheet #: 607913

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD25530-002
Client Id: M1-COMP-08-20-2021
Data File: 2G157740.D
Analysis Date: 08/25/21 15:22
Date Rec/Extracted: 08/20/21-08/24/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 2.5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 12672-29-6 | Aroclor-1248 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 606988

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD25530-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | M1-COMP-08-20-2021 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 8/20/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 08/26/21 | 943262521 | BNEW | 35 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 08/26/21 | 943262521 | BNEW | 35 | MS | MS3_7700SWA |
| 7439-98-7 | Molybdenum | 2.0 | ND | 1 | 50 | 100 | 08/26/21 | 943262521 | BNEW | 35 | MS | MS3_7700SWA |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD25530-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | M1-COMP-08-20-2021 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 8/20/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 08/25/21 | 94326 | W27555A2 | 63 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 08/25/21 | 94326 | W27555A2 | 63 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 08/25/21 | 94326 | H27568SW | 24 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 08/25/21 | 94326 | W27555A2 | 63 | P | PEICP2A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 08/25/21 | 94326 | W27555A2 | 63 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 08/25/21 | 94326 | W27555A2 | 63 | P | PEICP2A |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD25530-001
Matrix Aqueous
Client SampleID: M1 COMP (A-D)-08-19-20

Project Number: 1082012
Received Date: 8/20/2021
Collect Date: 8/19/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | HEM-NPM | 1 | ND | mg/L | 6.1 | 08/24/21 | 08/24/21 |
| Total Suspended Solids @ 103-105 | TSS-MUR | 1 | 9.6 | mg/l | 4.0 | 08/25/21 | 08/25/21 |

Lab#: AD25530-002
Matrix Aqueous
Client SampleID: M1-COMP-08-20-2021

Project Number: 1082012
Received Date: 8/20/2021
Collect Date: 8/20/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Carbonaceous Bod, 5 Day | CBOD-5-MUR | 1 | 2.5 | mg/L | 2.0 | 08/20/21 | 08/25/21 |
| Chloride | CHLORIDE-ICW | 10 | 230 | mg/L | 20 | 08/20/21 | 08/21/21 |
| Cr (Hexavalent) | CR6-WATER | 1 | ND | mg/l | 0.020 | 08/24/21 | 08/24/21 |
| Nitrite | NO2-ICW | 1 | ND | mg/L | 1.0 | 08/20/21 | 08/20/21 |
| Nitrate | NO3-ICW | 1 | 1.2 | mg/L | 1.0 | 08/20/21 | 08/20/21 |

# Chain of Custody Forms

1082012 0016

# Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Hampton-Clarke WBE/DBE/SBE 800-426-9992
*A Women-Owned, Disadvantaged, Small Business Enterprise*

## CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1082012

Page 1 of 1

### 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | Summary | NJ Hazsite |
| 1 Business Day (100%) * | Results + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%) * | Reduced: | EnviroData |
| 3 Business Days (50%) * | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%) * | [ ] PA [ ] Other___ | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full / NY ASP CatB | [ ] NYDEC |
| 8 Business Days (Stand.) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: _____ | | Other: _____ |

* Expedited TAT Not Always Available. Please Check with Lab.

### Customer Information

1a) Customer: TRC companies
Address: 1430 Broadway
New York, NY 10018
1b) Email/Cell/Fax/Ph: abartlett@trccompanies.com
1c) Send Invoice to: wlindemuth@trccompanies.com
1d) Send Report to: abartlett@trccompanies.com & wlindemuth@trccompanies.com

### Project Information

2a) Project: Brookfield Landfill 384068
2b) Project Mgr: WG Lindemuth
2c) Project Location (City/State): Staten Island, NY
2d) Quote/PO # (If Applicable): 152591

FOR LAB USE ONLY ↓

Batch # AD25530

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs | cyanide (total) | cyanide (amenable) | total suspended solids | Non-petr material | PCBs | SVOCs | cadmium, chromium (hexavalent), copper | lead, mercury, silver | molybdenum, nickel, zinc, chromium (total) | CBOD, total Kjeldahl N | chloride, TKN | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | M1-A-08-19-2021 | GW | 1000 | 8/19/21 | | X | X | X | X | X | X | | | | | | | | 1 | | | 2 | 5 | | | | |
| | M1-B-08-19-2021 | GW | 1100 | 8/19/21 | | X | X | X | X | X | X | | | | | | | | 1 | | | 2 | 5 | | | | |
| | M1-C-08-19-2021 | GW | 1200 | 8/19/21 | | X | X | X | X | X | X | | | | | | | | 1 | | | 2 | 5 | | | | |
| ↓ | M1-D-08-19-2021 | GW | 1300 | 8/19/21 | | X | X | X | X | X | X | | | | | | | | 1 | | | 2 | 5 | | | | |
| 002 | M1-COMP-08-20-2021 | GW | 900 | 8/20/21 | X | | | | | | | X | X | X | X | X | X | | 7 | | | | | 1 | 1 | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| Amber Bartlett | | 8/20/21 | 1115 |
| | CQuiñones | 8/20/21 | 1410 |

11) Sampler (print name): Amber Bartlett Date: 8/20/21

**Additional Notes** Please composite samples M1-A-08-19-2021, M1-B-08-19-2021, M1-C-08-19-2021 & M1-D-08-20-2021 into one sample with sampleID M1-COMP(A-D)-8-19-2021.

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.3 3.1

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

# CONDITION UPON RECEIPT

Batch Number AD25530 Entered By: Ricardo

Date Entered 8/20/2021 3:16:00 PM

| | | |
|---|---|---|
| 1 | Yes | Is there a corresponding COC included with the samples? |
| 2 | Yes | Are the samples in a container such as a cooler or Ice chest? |
| 3 | No | Are the COC seals intact? |
| 4 | T0054 | <--- Thermometer ID. Please specify the Temperature inside the container (in degC).<br>2.3,3.1 |
| 5 | Yes | Are the samples refrigerated (where required)/have they arrived on ice? |
| 6 | Yes | Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples: |
| 7 | Yes | Are all of the sample bottles intact? If no, specify sample numbers broken/leaking |
| 8 | Yes | Are all of the sample labels or numbers legible? If no specify: |
| 9 | Yes | Do the contents match the COC? If no, specify |
| 10 | Yes | Is there enough sample sent for the analyses listed on the COC? If no, specify: |
| 11 | Yes | Are samples preserved correctly? |
| 12 | Yes | Was temperature blank present (Place comment below if not)? If not was temperature of samples verified? |
| 13 | Yes | Other comments ...Specify (TB date, sample matrix, any missing info, etc.)<br>SAMPLE 001 COMPOSITED AT LAB. |
| 14 | NA | Corrective actions (Specify item number and corrective action taken). |
| 15 | NA | Were any samples for ortho-phosphate or dissolved ferrous iron field filtered? |

# PRESERVATION DOCUMENT

Batch Number AD25530

Entered By: Ricardo

Date Entered 8/20/2021 3:20:00 PM

| Lab# | Container Size | Container/Vial Check | Parameter | Preservative | Preservative Lot# | PH | pH Lot# |
|---|---|---|---|---|---|---|---|
| AD25530-001 | 1L | G | NPM | HCL | 267411 | 1 | HC025486 |
| AD25530-001 | 1L | G | CN | NAOH | 340653 | 14 | HC025486 |
| AD25530-001 | 120ML | G | CN | NAOH | 340653 | 14 | HC025486 |
| AD25530-002 | 1L | P | METALS | HNO3 | 255830 | 1 | HC025486 |
| AD25530-002 | 250ML | P | TKN | H2SO4 | 3120011 | 1 | HC025486 |

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD25530-001 | 08/20/21 14:10 | RICAR | 0 | M | Received |
| AD25530-001 | 08/20/21 14:22 | RICAR | 0 | M | Login |
| AD25530-001 | 08/20/21 15:37 | R12 | 3 | A | NONE |
| AD25530-001 | 08/25/21 09:28 | BCT | 3 | A | TSS/TDS |
| AD25530-001 | 08/25/21 14:25 | R12 | 3 | A | NONE |
| AD25530-001 | 08/20/21 15:37 | R12 | 4 | A | NONE |
| AD25530-001 | 08/20/21 15:37 | R12 | 5 | A | NONE |
| AD25530-001 | 08/24/21 09:41 | LL | 5 | A | O&G |
| AD25530-001 | 08/26/21 21:27 | WP | 6 | A | VOA |
| AD25530-002 | 08/20/21 14:10 | RICAR | 0 | M | Received |
| AD25530-002 | 08/20/21 14:22 | RICAR | 0 | M | Login |
| AD25530-002 | 08/20/21 15:21 | JW | 1 | A | IC |
| AD25530-002 | 08/20/21 16:32 | R12 | 1 | A | NONE |
| AD25530-002 | 08/20/21 15:17 | BCT | 2 | A | CR6WF/P |
| AD25530-002 | 08/20/21 16:32 | R12 | 2 | A | NONE |
| AD25530-002 | 08/20/21 15:37 | R12 | 3 | A | NONE |
| AD25530-002 | 08/24/21 16:43 | JN | 3 | A | P/P |
| AD25530-002 | 08/24/21 18:16 | R12 | 3 | A | NONE |
| AD25530-002 | 08/20/21 15:37 | R12 | 4 | A | NONE |
| AD25530-002 | 08/26/21 15:53 | JN | 4 | A | BN/BNA |
| AD25530-002 | 08/20/21 15:37 | R12 | 5 | A | NONE |
| AD25530-002 | 08/20/21 15:37 | R12 | 6 | A | NONE |
| AD25530-002 | 08/24/21 16:43 | JN | 6 | A | P/P |
| AD25530-002 | 08/20/21 15:21 | BCT | 7 | A | CBOD |
| AD25530-002 | 08/20/21 15:37 | R12 | 9 | A | NONE |
| AD25530-002 | 08/25/21 11:04 | PC | 9 | A | tdwi-hg |
| AD25530-002 | 08/26/21 08:33 | PC | 9 | A | r12 |

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# Subcontracted Data

This is the last page of the data generated by Hampton-Clarke.
The following pages were submitted to HC by subcontracted laboratories.

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

August 31, 2021

Hampton Clark Veritech
175 US Route 46 West

Fairfield, NJ 07004

RE: Project: 1082012
Pace Project No.: 70184948

Dear Hampton Veritech:

Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lea Sherman
lea.sherman@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Sherree Baker, Hampton Clark Veritech
Danielle Marquart, Hampton Clarke Veritech
Maureen Stone, Hampton Clark Veritech



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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## CERTIFICATIONS

Project: 1082012
Pace Project No.: 70184948

**Pace Analytical Services Long Island**
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302



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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: 1082012
Pace Project No.: 70184948

**Method:** **EPA 351.2**
**Description:** 351.2 Total Kjeldahl Nitrogen
**Client:** Hampton Clark Veritech
**Date:** August 31, 2021

**General Information:**
1 sample was analyzed for EPA 351.2 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 223388

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70184609002,70184812002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1126374)
  - Nitrogen, Kjeldahl, Total
- MS (Lab ID: 1126376)
  - Nitrogen, Kjeldahl, Total

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 223388

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1126375)
  - Nitrogen, Kjeldahl, Total
- DUP (Lab ID: 1126377)
  - Nitrogen, Kjeldahl, Total

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: 1082012
Pace Project No.: 70184948

**Method:** **SM22 4500-CN-E**
**Description:** SM 4500 CNE Cyanide, Total
**Client:** Hampton Clark Veritech
**Date:** August 31, 2021

**General Information:**
1 sample was analyzed for SM22 4500-CN-E by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with SM20/22 4500-CN-C with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 223663

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70184818003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1127994)
  - Cyanide

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**



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Melville, NY 11747
(631)694-3040

# PROJECT NARRATIVE

Project: 1082012
Pace Project No.: 70184948

**Method:** **SM22 4500-CN-E**
**Description:** 4500CNG Cyanide, Amenable
**Client:** Hampton Clark Veritech
**Date:** August 31, 2021

**General Information:**
1 sample was analyzed for SM22 4500-CN-E by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with SM22 4500-CN-G with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



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## ANALYTICAL RESULTS

Project: 1082012
Pace Project No.: 70184948

**Sample: AD25530-001** **Lab ID: 70184948001** Collected: 08/19/21 13:00 Received: 08/23/21 10:46 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **SM 4500 CNE Cyanide, Total** | Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C<br>Pace Analytical Services - Melville | | | | | | | |
| Cyanide | **<10.0** | ug/L | 10.0 | 1 | 08/27/21 18:44 | 08/27/21 22:28 | 57-12-5 | |
| **4500CNG Cyanide, Amenable** | Analytical Method: SM22 4500-CN-E Preparation Method: SM22 4500-CN-G<br>Pace Analytical Services - Melville | | | | | | | |
| Amenable Cyanide | **<10.0** | ug/L | 10.0 | 1 | 08/30/21 22:30 | 08/30/21 22:36 | 57-12-5 | L2 |

## REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
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## ANALYTICAL RESULTS

Project: 1082012
Pace Project No.: 70184948

**Sample: AD25530-002** **Lab ID: 70184948002** Collected: 08/19/21 09:00 Received: 08/23/21 10:46 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **24.4** | mg/L | 2.5 | 5 | 08/26/21 06:25 | 08/30/21 19:54 | 7727-37-9 | |

## REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: 1082012
Pace Project No.: 70184948

QC Batch: 223388
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70184948002

METHOD BLANK: 1126372 Matrix: Water
Associated Lab Samples: 70184948002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | ND | 0.10 | 08/30/21 19:08 | |

LABORATORY CONTROL SAMPLE: 1126373

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 4 | 4.3 | 108 | 90-110 | |

MATRIX SPIKE SAMPLE: 1126374

| Parameter | Units | 70184812002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 0.90 | 4 | 6.5 | 139 | 90-110 | M1 |

MATRIX SPIKE SAMPLE: 1126376

| Parameter | Units | 70184609002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 2.0 | 4 | 3.8 | 44 | 90-110 | M1 |

SAMPLE DUPLICATE: 1126375

| Parameter | Units | 70184812002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 0.90 | 1.1 | 22 | D6 |

SAMPLE DUPLICATE: 1126377

| Parameter | Units | 70184609002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 2.0 | 0.20 | 165 | D6 |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: 1082012
Pace Project No.: 70184948

QC Batch: 223663
QC Batch Method: SM20/22 4500-CN-C
Analysis Method: SM22 4500-CN-E
Analysis Description: 4500 CNE Cyanide, Total
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70184948001

METHOD BLANK: 1127657 Matrix: Water
Associated Lab Samples: 70184948001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Cyanide | ug/L | ND | 10.0 | 08/27/21 22:22 | |

LABORATORY CONTROL SAMPLE: 1127658

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Cyanide | ug/L | 75 | 70.5 | 94 | 85-115 | |

MATRIX SPIKE SAMPLE: 1127994

| Parameter | Units | 70184818003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Cyanide | ug/L | <0.010 mg/L | 833 | <10.0 | 0 | 75-125 | M1 |

SAMPLE DUPLICATE: 1127995

| Parameter | Units | 70184818005 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Cyanide | ug/L | <0.010 mg/L | <10.0 | | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA

Project: 1082012
Pace Project No.: 70184948

QC Batch: 223892
QC Batch Method: SM22 4500-CN-G
Analysis Method: SM22 4500-CN-E
Analysis Description: 4500CNG Cyanide, Amenable
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70184948001

METHOD BLANK: 1128814 Matrix: Water
Associated Lab Samples: 70184948001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Amenable Cyanide | ug/L | ND | 10.0 | 08/30/21 22:36 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

# QUALIFIERS

Project: 1082012
Pace Project No.: 70184948

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| D6 | The precision between the sample and sample duplicate exceeded laboratory control limits. |
| L2 | Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |



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Melville, NY 11747
(631)694-3040

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1082012
Pace Project No.: 70184948

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **70184948002** | **AD25530-002** | EPA 351.2 | 223388 | EPA 351.2 | 223392 |
| **70184948001** | **AD25530-001** | SM20/22 4500-CN-C | 223663 | SM22 4500-CN-E | 223710 |
| **70184948001** | **AD25530-001** | SM22 4500-CN-G | 223892 | SM22 4500-CN-E | 223893 |



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# CHAIN OF CUSTODY RECORD

Hampton-Clarke, Inc
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph:800-426-9992 Fax:973-439-1458

**Report To:**
Hampton-Clarke, Inc.:
Attn:Reporting
175 Route 46 West
Fairfield, New Jersey 07004

**Invoice To:**
Hampton-Clarke, Inc.:
Attn:Accounting
175 Route 46 West
Fairfield, New Jersey 07004

**Project #:** 1082012

**CocID#:** 7372

**FINAL RESULTS TO: subresults@hcvlab.com**
**PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com**

**EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!**

**Turn Around Time:** Standard **Preliminary Due Date:** 9/6/2021
**Report Type:** NYDOH-CatB (FULL) **Hard Copy Due Date:** 9/14/2021

| Sample Number: | Client ID | Matrix: | Date Collected: | Time Collected: | Analysis Requested |
|---|---|---|---|---|---|
| AD25530-001 | M1 COMP (A-D)-08-19-2021 | Aqueous | 8/19/2021 | 1:00:00 PM | Total CN, Amenable CN |
| AD25530-002 | M1-COMP-08-20-2021 | Aqueous | 8/19/2021 | 9:00:00 AM | TKN |

**WO# : 70184948**

70184948

CA 8/20

1.4 (W) 1043

| Relinquished By: | Accepted By: | Date: | Time: | Comments, Notes, Special Requirements, HAZARDS |
|---|---|---|---|---|
| [signature] | [signature] | 8/23/21 | 10:46 | |



**Cooler Temp:** 1.4

**HC Lab Use Only:** **Subcontracted Lab Id and Contact:** Pace-Mel, Chauntel Greaves, (631) 694-3040, LabID: DW, 575 Broad Hollow Rd, , Melville, NY, 11747-5076

# Sample Condition Upon Receipt

Pace Analytical®

**WO#: 70184948**
**PM: LS1** **Due Date: 08/31/21**
**CLIENT: HCV**

Client Name: Hampton Circle Project

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☑ None ☐ Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 1.4 Cooler Temperature Corrected(°C): 1.4

Temp should be above freezing to 6.0°C

USDA Regulated Soil ( ☐ N/A, water sample)

Temperature Blank Present: ☐ Yes ☑ No

Type of Ice: (Wet) Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: KO 8/23/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

| | | | | COMMENTS: |
|---|---|---|---|---|
| Chain of Custody Present: | ☑ Yes | ☐ No | | 1. |
| Chain of Custody Filled Out: | ☑ Yes | ☐ No | | 2. |
| Chain of Custody Relinquished: | ☑ Yes | ☐ No | | 3. |
| Sampler Name & Signature on COC: | ☑ Yes | ☐ No | ☐ N/A | 4. |
| Samples Arrived within Hold Time: | ☑ Yes | ☐ No | | 5. |
| Short Hold Time Analysis (<72hr): | ☐ Yes | ☑ No | | 6. |
| Rush Turn Around Time Requested: | ☐ Yes | ☑ No | | 7. |
| Sufficient Volume: (Triple volume provided for | ☑ Yes | ☐ No | | 8. |
| Correct Containers Used: | ☑ Yes | ☐ No | | 9. |
| -Pace Containers Used: | ☑ Yes | ☐ No | | |
| Containers Intact: | ☑ Yes | ☐ No | | 10. |
| Filtered volume received for Dissolved tests | ☐ Yes | ☐ No | ☑ N/A | 11. Note if sediment is visible in the dissolved container. |
| Sample Labels match COC: | ☑ Yes | ☐ No | | 12. |
| -Includes date/time/ID, Matrix: SL (WT) OIL | | | | |
| All containers needing preservation have been checked? | ☑ Yes | ☐ No | ☐ N/A | 13. ☐ $HNO_3$ ☐ $H_2SO_4$ ☐ NaOH ☐ HCl |
| pH paper Lot # HC155968 | | | | |
| All containers needing preservation are found to be in compliance with method recommendation? ($HNO_3$, $H_2SO_4$, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis | ☑ Yes | ☐ No | ☐ N/A | Sample # / Initial when completed: / Lot # of added preservative: / Date/Time preservative added: |
| Samples checked for dechlorination: | ☐ Yes | ☐ No | ☑ N/A | 14. |
| KI starch test strips Lot # | | | | Positive for Res. Chlorine? Y N |
| Residual chlorine strips Lot # | | | | |
| SM 4500 CN samples checked for sulfide? | ☐ Yes | ☐ No | ☑ N/A | 15. |
| Lead Acetate Strips Lot # | | | | |
| Headspace in VOA Vials ( >6mm): | ☐ Yes | ☐ No | ☑ N/A | 16. |
| Trip Blank Present: | ☐ Yes | ☐ No | ☑ N/A | 17. |
| Trip Blank Custody Seals Present | ☐ Yes | ☐ No | ☑ N/A | |
| Pace Trip Blank Lot # (if applicable): | | | | |

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

1430 Broadway, 10th Floor
New York, NY 10018

T 212.221.7822
TRCcompanies.com

December 30, 2021

Frances Leung, P.E., Chief
Industrial Inspection and Permitting Section
Bureau of Wastewater Treatment
New York City Department of Environmental Protection
96-05 Horace Harding Expressway
Corona, NY 11368

**RE:** Q2 Industrial Wastewater Discharge Self-Monitoring Report
New York City Department of Parks and Recreation
Brookfield Landfill/Park
575 Arthur Kill Road, Staten Island, NY 10308
Permit No. 18-P3149-1
TRC Project No. 384968

Dear Ms. Leung:

Enclosed please find the Q2 Industrial Wastewater Discharge Self-Monitoring Report (SMR) for the monitoring period of September 1, 2021 to November 30, 2021 for the New York City Department of Parks and Recreation (NYCDPR) Brookfield Avenue Landfill. The report contains SMR Forms with certifications, flow summary tables, M-1 sample result summary tables, laboratory results for the M-1 samples, and chain of custody forms. The results of the monthly sampling indicate there were no exceedances of any permit compound limits.

Please do not hesitate to contact me at (917) 794-3107 or via email at wlindemuth@trccompanies.com if you have any questions.

Sincerely,
**TRC Engineers, Inc.**

Wes Lindemuth

Wes D. Lindemuth, CHMM, CSP
Senior Project Manager

cc: K. Zias, A. Ehtesham, NYCDPR
K. Myers, R. Bowden, A. Bartlett, TRC

Enclosure:

Q1 Industrial Wastewater Discharge Self-Monitoring Report

# INDUSTRIAL USER SELF MONITORING REPORT

| 1. | ★ Establishment Information ★ | | | |
|---|---|---|---|---|
| A. | Name: Brookfield Avenue Landfill | | | |
| B. | Address: 575 Arthur Kill Road, Staten Island, NY 10308 | | | |
| | | | | |
| C. | Industrial Category: | | | |
| D. | Contact Official: Wes Lindemuth | | E. | Phone #: 917-794-3107 |
| F. | Reporting Period | | G. | Date sampled |
| | Start: 9/1/2021 | End: 11/30/2021 | Start: 9/27/2021 | End: 11/24/2021 |

Note: If the only wastewater discharges by your establishment into the public sewer system are sanitary or non-contact cooling water, do not address items in Tables 2, 3, 4, 5 and 6. In this case, check here [ ] and proceed directly to Table 7.

| 2. | ★Flow Information ★ | Average | Peak |
|---|---|---|---|
| A. | Total Plant Flow, gal/day | 36,777.69 | 127,490.0 |
| B. | Regulated Flow, gal/day | 36,777.69 | 127,490.0 |
| C. | Method of Flow Measurement: Flow meter (non-resettable) on the discharge line to the on-Site sanitary manhole. | | |
| The water volume discharged is monitored daily. | | | |
| | | | |

| 3. | ★ Sample Collection Information ★ |
|---|---|
| A. | Sampling Location: Prior to the gravity discharge from the oil/water seperator into the on-Site sanitary sewer system, |
| a sample port installed on the effluent end of the discharge piping collects samples. | |
| B. | Sampling Procedures: Samples are collected in accordance with 40 CFR, 403.12(g)(3) which states that grab samples |
| must be used for pH, cyanide, total phenols, oil & grease, sulfide and VOCs. | |
| For all other pollutants, 24-hours composite samples are obtained through time-proportional composite sampling techniques. | |
| | |
| C. | Preservatives Used: HCl, H2SO4, NaOH, HNO3 |
| | |

| 4. | This establishment's wastewater discharge DOES [ ] / DOES NOT [X] exceed nationwide categorical standard (s) or 15 RCNY 19-04 (a). |
|---|---|

| 5. | ★ Production Rate ★ |
|---|---|
| If applicable, provide production rate: Not Applicable | |
| | |
| | |

| 6. | ★ pH Monitoring ★ | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (Four Samples Per Day - One Hour Apart - Once a Month) | | | | | | | | | | | | | |
| A. | Date | 9/27/2021 | | 10/25/2021 | | 11/23/2021 | | / / | | / / | | / / | |
| B. | Time/pH | 10:30 | 7.14 | 10:30 | 6.83 | 9:30 | 5.91 | | | | | | |
| | | 11:30 | 7.21 | 11:30 | 6.81 | 10:30 | 6.15 | | | | | | |
| | | 12:30 | 7.27 | 12:30 | 6.80 | 11:30 | 6.27 | | | | | | |
| | | 13:30 | 6.91 | 13:30 | 6.79 | 12:30 | 6.20 | | | | | | |

| 7. | ★ HAZARDOUS WASTES GENERATION ★ |
|---|---|
| This establishment DID [ ] / DID NOT [X] generate any hazardous wastes, during this reporting period. If hazardous wastes were generated, | |
| A. | Type of Waste: |
| B. | Amount Generated (in kilograms) : |
| C. | Method of Disposal : |
| | |

| 8. | ★ CERTIFICATION ★ |
|---|---|

A. NON-CONTAMINATED WASTEWATER DISCHARGE CERTIFICATION:

I hereby certify, that during this reporting period, this facility has not discharged any industrial wastewater, chemicals, cleaners or like substances generated from or in relation to any of this establishment's operations other than sanitary or non-contact cooling water. I understand that I must obtain prior written approval from the Industrial Inspections and Permitting Section before I can discharge any such wastewater. I am aware that there are significant civil and criminal sanctions for submitting false information.

Name (Print) Signature

Title Date Phone #

8. ★ CERTIFICATIONS (CONTINUED) ★

B. TOXIC ORGANICS CERTIFICATION:

I. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, no Toxic Organics are used or stored at my facility. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

| Wes Lindemuth | | Wes Lindemuth |
|---|---|---|
| Name (Print) | | Signature |
| Senior Project Manager | 12/30/2021 | 917-794-3107 |
| Title | Date | Phone# |

**OR**

II "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, there was no discharge to a public sewer of toxic organics during the reporting period covered by this report. I also certify that the explanations provided concerning the disposal of toxic organics from the facility are true, accurate and complete. I further certify that this facility is implementing a toxic organics management plan to protect against the release of such compounds to a public sewer. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

| | | |
|---|---|---|
| Name (Print) | | Signature |
| Title | Date | Phone# |

C. AUTHORIZED FIRM REPRESENTATIVE CERTIFICATION:

I hereby certify, under penalty of law, that I have personally examined and am familiar with the information contained in this report and all attachments therein. Furthermore, based on my inquiry of those persons immediately responsible for obtaining the information contained in this report, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I further certify that the reported sampling results are representative of the facility's normal work cycles and expected pollutant discharges.

| Wes Lindemuth | | Wes Lindemuth |
|---|---|---|
| Name (Print) | | Signature |
| Senior Project Manager | 12/30/2021 | 917-794-3107 |
| Title | Date | Phone# |

Please sign the following certification if required by the Permit/Directive:

D CYANIDE CERTIFICATION

The Industrial User must sign and submit one of the following certifications in its periodic self-monitoring reports:

a. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, cyanide is not used or stored at my facility or generated in any of our manufacturing processes and there was no discharge of cyanide to the public sewer. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Name (print) Wes Lindemuth Signature Wes Lindemuth

Title Senior Project Manager Date 12/30/2021 Phone Number 917-794-3107

**OR**

b. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, there was no discharge to a public sewer of cyanide-bearing waste during the reporting period covered by this report. I also certify that the explanations provided concerning the disposal of cyanide-bearing waste from the facility are true, accurate and complete. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Name (print)_____ Signature_____

Title_____ Date_____ Phone Number_____

If certification b. (above) is signed and submitted, explanations concerning the disposal of cyanide-bearing waste from the facility shall be provided.

| 9. | ★ DESCRIPTION OF OPERATION ★ |
|---|---|
| Site is a former landfill which is now operated as public Park. The discharge is comprised of landfill leachate which is allowed to pass through an oil-water separator prior to discharge. | |
| | |
| | |
| | |
| | |
| | |
| | |

| 10. | ★ ATTACHMENTS ★ | Yes | No | N/A |
|---|---|---|---|---|
| A. | All laboratory analyses must be conducted by a New York State Health Department certified wastewater laboratory. The results must be certified by the laboratory and submitted on the laboratory's letterhead. For each sample, the laboratory report must indicate the date of sampling, time sample was taken, sample location, sampling preservation procedures, analytical techniques used, date of analysis, units of measurement, and the laboratory's sample identification; where the analytical result reported is below the method detection level, the laboratory report must also indicate the method detection level. | X | | |
| B. | Chain of custody for all samples. | X | | |
| C. | Explanation of non-compliance and what will be done to rectify it. A compliance schedule is to be included. | | | X |
| D. | Amount of spent solvents generated and method of disposal. Explanation of zero discharges to be included. | | | X |
| E. | Description of any major modifications or malfunctions in manufacturing or pretreatment operations. | | | X |
| F. | Hazardous wastes manifests. | | | X |

# DAILY VOLUME OF DISCHARGE

# BROOKFIELD LANDFILL LEACHATE SYSTEM
# EFFLUENT FLOW METER REPORT

NYC Parks

| Date/Time | FLOW GPM *Instantaneous | FLOW TOTAL DAILY GAL *Resets at Midnight | FLOW TOTAL RUNNING GAL *Resets at 1 Billion Gallons |
|---|---|---|---|
| 9/1/21 0:00 | 101.52 | 146018.20 | 22864220.00 |
| 9/2/21 0:00 | 193.56 | 123833.70 | 22990900.00 |
| 9/3/21 0:00 | 18.75 | 66318.33 | 23061520.00 |
| 9/4/21 0:00 | 13.30 | 14935.82 | 23077000.00 |
| 9/5/21 0:00 | 10.53 | 9209.97 | 23086590.00 |
| 9/6/21 0:00 | 4.98 | 53918.96 | 23140810.00 |
| 9/7/21 0:00 | 80.56 | 112277.00 | 23253280.00 |
| 9/8/21 0:00 | 0.13 | 4407.02 | 23258380.00 |
| 9/9/21 0:00 | 1.56 | 1543.30 | 23259930.00 |
| 9/10/21 0:00 | 2.10 | 4341.35 | 23264310.00 |
| 9/11/21 0:00 | 2.66 | 4859.83 | 23269230.00 |
| 9/12/21 0:00 | 0.15 | 57453.89 | 23326760.00 |
| 9/13/21 0:00 | 71.53 | 41347.75 | 23368120.00 |
| 9/14/21 0:00 | 90.83 | 112654.90 | 23482810.00 |
| 9/15/21 0:00 | 14.98 | 103945.90 | 23589330.00 |
| 9/16/21 0:00 | 1.05 | 573.74 | 23590000.00 |
| 9/17/21 0:00 | 54.81 | 34066.43 | 23624100.00 |
| 9/18/21 0:00 | 18.66 | 35151.55 | 23660770.00 |
| 9/19/21 0:00 | 59.92 | 79009.04 | 23740260.00 |
| 9/20/21 0:00 | 23.51 | 27714.10 | 23769620.00 |
| 9/21/21 0:00 | 6.84 | 16445.32 | 23786500.00 |
| 9/22/21 0:00 | 1.61 | 7307.11 | 23793960.00 |
| 9/23/21 0:00 | 58.86 | 47040.07 | 23841130.00 |
| 9/24/21 0:00 | 57.36 | 59267.48 | 23902020.00 |
| 9/25/21 0:00 | 2.58 | 2889.30 | 23906470.00 |
| 9/26/21 0:00 | 0.95 | 1524.60 | 23908060.00 |
| 9/27/21 0:00 | 0.11 | 1143.00 | 23909230.00 |
| 9/28/21 0:00 | 61.50 | 32031.49 | 23941270.00 |
| 9/29/21 0:00 | 1.81 | 25704.37 | 23968650.00 |
| 9/30/21 0:00 | 66.48 | 45377.12 | 24014080.00 |
| 10/1/21 0:00 | 68.45 | 98869.49 | 24114770.00 |
| 10/2/21 0:00 | 1.85 | 113823.30 | 24230470.00 |
| 10/3/21 0:00 | 22.90 | 11072.41 | 24241630.00 |
| 10/4/21 0:00 | 56.18 | 22804.02 | 24265040.00 |
| 10/5/21 0:00 | 4.63 | 48623.57 | 24315180.00 |
| 10/6/21 0:00 | 11.76 | 11638.96 | 24327000.00 |
| 10/7/21 0:00 | 2.10 | 18253.81 | 24345630.00 |
| 10/8/21 0:00 | 63.34 | 60661.69 | 24406380.00 |
| 10/9/21 0:00 | 22.96 | 28720.67 | 24436160.00 |
| 10/10/21 0:00 | 22.04 | 29873.20 | 24466650.00 |
| 10/11/21 0:00 | 20.48 | 67556.34 | 24534880.00 |
| 10/12/21 0:00 | 25.19 | 19304.27 | 24554440.00 |
| 10/13/21 0:00 | 29.11 | 74657.84 | 24629710.00 |
| 10/14/21 0:00 | 3.72 | 66755.09 | 24697260.00 |
| 10/15/21 0:00 | 8.92 | 14718.86 | 24712170.00 |
| 10/16/21 0:00 | 0.16 | 4187.12 | 24716670.00 |
| 10/17/21 0:00 | 0.16 | 51697.37 | 24768370.00 |
| 10/18/21 0:00 | 12.09 | 5664.52 | 24774040.00 |
| 10/19/21 0:00 | 0.79 | 52084.66 | 24826220.00 |
| 10/20/21 0:00 | 0.79 | 1699.54 | 24827950.00 |
| 10/21/21 0:00 | 0.32 | 2316.91 | 24830280.00 |
| 10/22/21 0:00 | 0.29 | 2229.24 | 24832520.00 |
| 10/23/21 0:00 | 62.23 | 9289.54 | 24841820.00 |
| 10/24/21 0:00 | 0.84 | 39963.45 | 24883470.00 |
| 10/25/21 0:00 | 1.76 | 842.93 | 24884340.00 |
| 10/26/21 0:00 | 99.93 | 110977.20 | 24995360.00 |
| 10/27/21 0:00 | 62.94 | 115461.60 | 25113470.00 |
| 10/28/21 0:00 | 1.63 | 56069.27 | 25171220.00 |

# BROOKFIELD LANDFILL LEACHATE SYSTEM
# EFFLUENT FLOW METER REPORT

NYC Parks

| Date/Time | FLOW GPM *Instantaneous | FLOW TOTAL DAILY GAL *Resets at Midnight | FLOW TOTAL RUNNING GAL *Resets at 1 Billion Gallons |
|---|---|---|---|
| 10/29/21 0:00 | 1.18 | 3160.75 | 25174420.00 |
| 10/30/21 0:00 | 0.81 | 52054.40 | 25227540.00 |
| 10/31/21 0:00 | 1.00 | 4903.93 | 25232450.00 |
| 11/1/21 0:00 | 8.32 | 3206.11 | 25235680.00 |
| 11/2/21 0:00 | 15.92 | 56207.97 | 25291950.00 |
| 11/3/21 0:00 | 0.37 | 9929.90 | 25302370.00 |
| 11/4/21 0:00 | 1.11 | 1318.35 | 25303720.00 |
| 11/5/21 0:00 | 7.26 | 48758.17 | 25352530.00 |
| 11/6/21 0:00 | 10.79 | 8934.93 | 25361650.00 |
| 11/7/21 0:00 | 69.97 | 14889.36 | 25376760.00 |
| 11/8/21 0:00 | 2.90 | 115.66 | 25423760.00 |
| 11/9/21 0:00 | 71.77 | 2342.90 | 25462600.00 |
| 11/10/21 0:00 | 102.20 | 3325.15 | 25590090.00 |
| 11/11/21 0:00 | 0.11 | 31.43 | 25692990.00 |
| 11/12/21 0:00 | 2.16 | 395.48 | 25707350.00 |
| 11/13/21 0:00 | 5.90 | 170.96 | 25721340.00 |
| 11/14/21 0:00 | 0.26 | 34.36 | 25771260.00 |
| 11/15/21 0:00 | 1.08 | 36.10 | 25772410.00 |
| 11/16/21 0:00 | 1.18 | 54.31 | 25773960.00 |
| 11/17/21 0:00 | 7.64 | 168.93 | 25779310.00 |
| 11/18/21 0:00 | 1.08 | 58.20 | 25830750.00 |
| 11/19/21 0:00 | 1.31 | 49.69 | 25832110.00 |
| 11/20/21 0:00 | 1.26 | 89.83 | 25835990.00 |
| 11/21/21 0:00 | 0.71 | 26.12 | 25882150.00 |
| 11/22/21 0:00 | 0.27 | 39.07 | 25883300.00 |
| 11/23/21 0:00 | 104.57 | 3357.18 | 25954550.00 |
| 11/24/21 0:00 | 1.95 | 109.67 | 26042190.00 |
| 11/25/21 0:00 | 6.27 | 224.40 | 26049900.00 |
| 11/26/21 0:00 | 63.95 | 744.19 | 26062500.00 |
| 11/27/21 0:00 | 5.56 | 204.64 | 26115780.00 |
| 11/28/21 0:00 | 6.45 | 224.46 | 26126230.00 |
| 11/29/21 0:00 | 10.13 | 312.99 | 26138490.00 |
| 11/30/21 0:00 | 9.24 | 302.21 | 26154050.00 |
| 11/30/21 23:00 | 9.09 | 57242.04 | 26210990.00 |

# LAB DATA SUMMARY

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Self Monitoring Report Results for Industrial Wastewater Discharge Permit No: 18-P3149-1
September 2021

| Sample ID | Sewer Use Limits (15 R.C.N.Y. ch. 19) | M1-COMP-09-28-2021 | M1-COMP (A-D)-09-27-2021 | M1-A-09-27-2021 | M1-B-09-27-2021 | M1-C-09-27-2021 | M1-D-09-27-2021 |
|---|---|---|---|---|---|---|---|
| Lab ID | | AD26279-002 | AD2679-002 | | | | |
| Date | | 9/28/2021 | 9/27/2021 | 9/27/2021 | 9/27/2021 | 9/27/2021 | 9/27/2021 |
| **VOCs (ppb)** | | | | | | | |
| 1,1,1-Trichloroethane | NS | | 1.0 U | | | | |
| 1,2,4-Trichlorobenzene | NS | | 1.0 U | | | | |
| Benzene | Daily Limit: 134 Monthly Limit: 57 | | 0.50 U | | | | |
| Carbon Tetrachloride | NS | | 1.0 U | | | | |
| Chloroform | NS | | 2.0 U | | | | |
| Ethylbenzene | Daily Limit: 380 Monthly Limit: 142 | | 1.0 U | | | | |
| Methyl-Tert-Butyl-Ether (MTBE) | 50 | | 0.50 U | | | | |
| Tetrachloroethene (Perc) | 20 | | 1.0 U | | | | |
| Toluene | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| Xylenes (Total) | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| **Semi-Volatile Organics (ppb)** | | | | | | | |
| Naphthalene | Daily Limit: 47 Monthly Limit: 19 | 0.50 U | | | | | |
| 1,4-Dichlorobenzene | NS | 2.0 U | | | | | |
| Phenol | NS | 2.0 U | | | | | |
| **Pesticides/ PBCs (ppb)** | 1.0 (Total PCBs, 7 PCB compounds) | | | | | | |
| Aroclor-1016 | | 0.28 U | | | | | |
| Aroclor-1242 | | 0.28 U | | | | | |
| Aroclor-1254 | | 0.28 U | | | | | |
| Aroclor-1221 | | 0.28 U | | | | | |
| Aroclor-1232 | | 0.28 U | | | | | |
| Aroclor-1248 | | 0.28 U | | | | | |
| Aroclor-1260 | | 0.28 U | | | | | |
| **Metals (mg/L)** | | | | | | | |
| Cadmium | 2 | 0.002 U | | | | | |
| Chromium (Total) | 5 | 0.050 U | | | | | |
| Chromium (Hexavalent) | 5 | 0.020 U | | | | | |
| Copper | 5 | 0.050 U | | | | | |
| Lead | 2 | 0.003 U | | | | | |
| Mercury | 0.05 | 0.0005 U | | | | | |
| Molybdenum | NS | 0.002 U | | | | | |
| Nickel | 3 | 0.050 U | | | | | |
| Silver | NS | 0.020 U | | | | | |
| Zinc | 5 | 0.050 U | | | | | |
| **General Chemistry Analysis** | | | | | | | |
| Carbonaceous Biochemical Oxygen Demand (CBOD) (mg/L) | NS | 2.8 | | | | | |
| Total Nitrogen (mg/L) | NS | 2.0 U | | | | | |
| Chloride (mg/L) | NS | 250 | | | | | |
| Cyanide (Total) (mg/L) | 0.2 | | 0.0135 | | | | |
| Cyanide (Amenable to Chlorination) (mg/L) | 0.2 | | 0.0105 | | | | |
| Total Suspended Solids (TSS) (mg/L) | 350 | | 4.0 U | | | | |
| Non-Polar Material (Oil and Grease 1664-A HEM) (mg/L) | 50 | | 6.1 U | | | | |
| pH | 5.0-12.0 Standard Units | | | 7.14 | 7.21 | 7.27 | 6.91 |
| TKN (mg/L) | NS | 57.8 | | | | | |
| Temperature | Deg. C ( < 65.5 ) | | | 21.23 | 22.72 | 24.25 | 24.45 |

**Notes:**

**< = Less than**

**NS = No Standard**

**U = Not Detected**

**( Blank ) = Parameter not required for analysis**

**Bold = Above Daily Limit**

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Self Monitoring Report Results for Industrial Wastewater Discharge Permit No: 18-P3149-1
October 2021

| Sample ID | Sewer Use Limits (15 R.C.N.Y. ch. 19) | M1-COMP-10-26-2021 | M1-COMP-(A-D)-10-25-2021 | M1-A-10-25-2021 | M1-B-10-25-2021 | M1-C-10-25-2021 | M1-D-10-25-2021 |
|---|---|---|---|---|---|---|---|
| Lab ID | | AD26914-002 | AD26914-001 | | | | |
| Date | | 10/26/2021 | 10/25/2021 | 10/25/2021 | 10/25/2021 | 10/25/2021 | 10/25/2021 |
| **VOCs (ppb)** | | | | | | | |
| 1,1,1-Trichloroethane | NS | | 1.0 U | | | | |
| 1,2,4-Trichlorobenzene | NS | | 1.0 U | | | | |
| Benzene | Daily Limit: 134 Monthly Limit: 57 | | 0.50 U | | | | |
| Carbon Tetrachloride | NS | | 1.0 U | | | | |
| Chloroform | NS | | 2.0 U | | | | |
| Ethylbenzene | Daily Limit: 380 Monthly Limit: 142 | | 1.0 U | | | | |
| Methyl-Tert-Butyl-Ether (MTBE) | 50 | | 0.50 U | | | | |
| Tetrachloroethene (Perc) | 20 | | 1.0 U | | | | |
| Toluene | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| Xylenes (Total) | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| **Semi-Volatile Organics (ppb)** | | | | | | | |
| Naphthalene | Daily Limit: 47 Monthly Limit: 19 | 0.50 U | | | | | |
| 1,4-Dichlorobenzene | NS | 2.0 U | | | | | |
| Phenol | NS | 7.6 | | | | | |
| **Pesticides/ PBCs (ppb)** | 1.0 (Total PCBs, 7 PCB compounds) | | | | | | |
| Aroclor-1016 | | 0.25 U | | | | | |
| Aroclor-1242 | | 0.25 U | | | | | |
| Aroclor-1254 | | 0.25 U | | | | | |
| Aroclor-1221 | | 0.25 U | | | | | |
| Aroclor-1232 | | 0.25 U | | | | | |
| Aroclor-1248 | | 0.25 U | | | | | |
| Aroclor-1260 | | 0.25 U | | | | | |
| **Metals (mg/L)** | | | | | | | |
| Cadmium | 2 | 0.0020 U | | | | | |
| Chromium (Total) | 5 | 0.050 U | | | | | |
| Chromium (Hexavalent) | 5 | 0.020 U | | | | | |
| Copper | 5 | 0.050 U | | | | | |
| Lead | 2 | 0.0030 U | | | | | |
| Mercury | 0.05 | 0.00050 U | | | | | |
| Molybdenum | NS | 0.0020 U | | | | | |
| Nickel | 3 | 0.050 U | | | | | |
| Silver | NS | 0.020 U | | | | | |
| Zinc | 5 | 0.050 U | | | | | |
| **General Chemistry Analysis** | | | | | | | |
| Carbonaceous Biochemical Oxygen Demand (CBOD) (mg/L) | NS | 43 | | | | | |
| Total Nitrogen (mg/L) | NS | 2.0 U | | | | | |
| Chloride (mg/L) | NS | 670 | | | | | |
| Cyanide (Total) (mg/L) | 0.2 | | 0.0131 | | | | |
| Cyanide (Amenable to Chlorination) (mg/L) | 0.2 | | <0.01 U | | | | |
| Total Suspended Solids (TSS) (mg/L) | 350 | | 29 | | | | |
| Non-Polar Material (Oil and Grease 1664-A HEM) (mg/L) | 50 | | 5.4 U | | | | |
| pH | 5.0-12.0 Standard Units | | | 6.83 | 6.81 | 6.80 | 6.79 |
| TKN (mg/L) | NS | 63.4 | | | | | |
| Temperature | Deg. C ( < 65.5 ) | | | 18.70 | 18.75 | 19.33 | 19.95 |

**Notes:**

**< = Less than**

**NS = No Standard**

**U = Not Detected**

**( Blank ) = Parameter not required for analysis**

**Bold = Above Daily Limit**

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Self Monitoring Report Results for Industrial Wastewater Discharge Permit No: 18-P3149-1
November 2021

| Sample ID | Sewer Use Limits (15 R.C.N.Y. ch. 19) | M1-COMP-11-24-2021 | M1-COMP-(A-D)-11-23-2021 | M1-A-11-23-2021 | M1-B-11-23-2021 | M1-C-11-23-2021 | M1-D-11-23-2021 |
|---|---|---|---|---|---|---|---|
| Lab ID | | AD27580-002 | AD27580-001 | | | | |
| Date | | 11/24/2021 | 11/23/2021 | 11/23/2021 | 11/23/2021 | 11/23/2021 | 11/23/2021 |
| **VOCs (ppb)** | | | | | | | |
| 1,1,1-Trichloroethane | NS | | 1.0 U | | | | |
| 1,2,4-Trichlorobenzene | NS | | 1.0 U | | | | |
| Benzene | Daily Limit: 134 Monthly Limit: 57 | | 0.5 U | | | | |
| Carbon Tetrachloride | NS | | 1.0 U | | | | |
| Chloroform | NS | | 2.0 U | | | | |
| Ethylbenzene | Daily Limit: 380 Monthly Limit: 142 | | 1.0 U | | | | |
| Methyl-Tert-Butyl-Ether (MTBE) | 50 | | 0.50 U | | | | |
| Tetrachloroethene (Perc) | 20 | | 1.0 U | | | | |
| Toluene | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| Xylenes (Total) | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| **Semi-Volatile Organics (ppb)** | | | | | | | |
| Naphthalene | Daily Limit: 47 Monthly Limit: 19 | 0.50 U | | | | | |
| 1,4-Dichlorobenzene | NS | 2.0 U | | | | | |
| Phenol | NS | 3.1 | | | | | |
| **Pesticides/ PBCs (ppb)** | 1.0 (Total PCBs, 7 PCB compounds) | | | | | | |
| Aroclor-1016 | | 0.25 U | | | | | |
| Aroclor-1242 | | 0.25 U | | | | | |
| Aroclor-1254 | | 0.25 U | | | | | |
| Aroclor-1221 | | 0.25 U | | | | | |
| Aroclor-1232 | | 0.25 U | | | | | |
| Aroclor-1248 | | 0.25 U | | | | | |
| Aroclor-1260 | | 0.25 U | | | | | |
| **Metals (mg/L)** | | | | | | | |
| Cadmium | 2 | | | | | | |
| Chromium (Total) | 5 | 0.050 U | | | | | |
| Chromium (Hexavalent) | 5 | 0.020 U | | | | | |
| Copper | 5 | 0.050 U | | | | | |
| Lead | 2 | 0.0030 U | | | | | |
| Mercury | 0.05 | 0.00050 U | | | | | |
| Molybdenum | NS | 0.0020 U | | | | | |
| Nickel | 3 | 0.050 U | | | | | |
| Silver | NS | 0.020 U | | | | | |
| Zinc | 5 | 0.050 U | | | | | |
| **General Chemistry Analysis** | | | | | | | |
| Carbonaceous Biochemical Oxygen Demand (CBOD) (mg/L) | NS | 3.5 | | | | | |
| Total Nitrogen (mg/L) | NS | 2.0 U | | | | | |
| Chloride (mg/L) | NS | 610 | | | | | |
| Cyanide (Total) (mg/L) | 0.2 | | <0.01 U | | | | |
| Cyanide (Amenable to Chlorination) (mg/L) | 0.2 | | <0.01 U | | | | |
| Total Suspended Solids (TSS) (mg/L) | 350 | | 38 | | | | |
| Non-Polar Material (Oil and Grease 1664-A HEM) (mg/L) | 50 | | 5.6 U | | | | |
| pH | 5.0-12.0 Standard Units | | | 5.91 | 6.15 | 6.27 | 6.20 |
| TKN (mg/L) | NS | | 44.9 | | | | |
| Temperature | Deg. C ( < 65.5 ) | | | 14.99 | 15.20 | 15.68 | 15.87 |

**Notes:**

**< = Less than**

**NS = No Standard**

**U = Not Detected**

**( Blank ) = Parameter not required for analysis**

**Bold = Above Daily Limit**

# LABORATORY REPORTS

# Hampton-Clarke Report Of Analysis

**Client:** TRC Engineering
**Project:** Brookfield Landfill

**HC Project #:** 1092816

**Sample ID:** M1-COMP-(A-D)-09-27-2021
**Lab#:** AD26279-001
**Matrix:** Aqueous

**Collection Date:** 9/27/2021
**Receipt Date:** 9/28/2021

**SGT-HEM (Non-Polar Material) 1664B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | 1 | mg/l | 6.1 | ND |

**Total Suspended Solids (SM2540D-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Suspended Solids @ 103-105 C | 1 | mg/l | 4.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID: M1-COMP-09-28-2021** **Collection Date: 9/28/2021**
**Lab#: AD26279-002** **Receipt Date: 9/28/2021**
**Matrix: Aqueous**

**Carbonaceous BOD-5 Day (SM5210 B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Carbonaceous Bod, 5 Day** | **1** | **mg/l** | **2.0** | **2.8** |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Chloride** | **10** | **mg/l** | **20** | **250** |

**Cr (Hexavalent) 3500-Cr B11**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cr (Hexavalent) | 1 | mg/l | 0.020 | ND |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Nitrite-N (Aqueous) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrite | 1 | mg/l | 1.0 | ND |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.28 | ND |
| Aroclor-1016 | 1 | ug/l | 0.28 | ND |
| Aroclor-1221 | 1 | ug/l | 0.28 | ND |
| Aroclor-1232 | 1 | ug/l | 0.28 | ND |
| Aroclor-1242 | 1 | ug/l | 0.28 | ND |
| Aroclor-1248 | 1 | ug/l | 0.28 | ND |
| Aroclor-1254 | 1 | ug/l | 0.28 | ND |
| Aroclor-1260 | 1 | ug/l | 0.28 | ND |

| Surrogate | Conc. | Spike | Low Limit | High Limit | Recovery | Flags |
|---|---|---|---|---|---|---|
| TCMX-Surrogate | 92.74 | 100 | 39 | 132 | 93 | |
| TCMX-Surrogate | 60.79 | 100 | 39 | 132 | 61 | |
| DCB-Surrogate | 85.07 | 100 | 39 | 142 | 85 | |
| DCB-Surrogate | 67.78 | 100 | 39 | 142 | 68 | |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1 | ug/l | 2.0 | ND |
| Naphthalene | 1 | ug/l | 0.50 | ND |
| Phenol | 1 | ug/l | 2.0 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Silver | 1 | ug/l | 20 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cadmium | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Molybdenum | 1 | ug/l | 2.0 | ND |

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD26279
Pace Project No.: 70189442

**Sample: AD26279-001** **Lab ID: 70189442001** Collected: 09/27/21 13:30 Received: 09/30/21 13:46 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **SM 4500 CNE Cyanide, Total** | Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C<br>Pace Analytical Services - Melville | | | | | | | |
| Cyanide | **13.5** | ug/L | 10.0 | 1 | 10/04/21 17:59 | 10/04/21 20:29 | 57-12-5 | |
| **4500CNG Cyanide, Amenable** | Analytical Method: SM22 4500-CN-E Preparation Method: SM22 4500-CN-G<br>Pace Analytical Services - Melville | | | | | | | |
| Amenable Cyanide | **10.5** | ug/L | 10.0 | 1 | 10/11/21 16:29 | 10/11/21 18:17 | 57-12-5 | |

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## ANALYTICAL RESULTS

Project: AD26279
Pace Project No.: 70189442

**Sample: AD26279-002** **Lab ID: 70189442002** Collected: 09/28/21 13:30 Received: 09/30/21 13:46 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **57.8** | mg/L | 2.0 | 20 | 10/05/21 06:59 | 10/07/21 16:10 | 7727-37-9 | |

## REPORT OF LABORATORY ANALYSIS

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# Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

## CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 1092816

Page 1 of 1

### 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | Summary | NJ Hazsite |
| 1 Business Day (100%)* | Results + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%)* | Reduced: | EnviroData |
| 3 Business Days (50%)* | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%)* | [ ] PA [ ] Other___ | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full (NY ASP CatB) | [ ] NYDEC |
| 8 Business Days (Stand.) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: | | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

### Customer Information

1a) Customer: TRC Companies
Address: 1430 Broadway, 10mFl
New York, NY 10018
1b) Email/Cell/Fax/Ph: abartlett@trccompanies.com
1c) Send Invoice to: Wlindemuth@trccompanies.com
1d) Send Report to: abartlett & wlindemuth@trccompanies.com

### Project Information

2a) Project: Brookfield Landfill 384968
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): Staten Island, NY
2d) Quote/PO # (If Applicable): 152591

FOR LAB USE ONLY ↓

Batch # AD26279

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water; S - Soil; A - Air; GW - Ground Water; SL - Sludge; WW - Waste Water; OL - Oil; OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs (8260) | Cyanide (total) | Cyanide (amenable) | Total suspended solids | Non-polar material | PCBs | SVOCs (8270) | cadmium, chromium, copper (hexavalent), lead, mercury, silver, molybdenum, nickel | Zinc, Chromium (total), cBOD, total nitrogen | Chloride, TKN | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | M1-A-09-27-2021 | GW | 9/27/21 | 1030 | | X | X | X | X | X | X | | | | | | 1 | | | 2 | 6 | | | | see note |
| | M1-B-09-27-2021 | GW | 9/27/21 | 1130 | | X | X | X | X | X | X | | | | | | 1 | | | 2 | 5 | | | | see note |
| | M1-C-09-27-2021 | GW | 9/27/21 | 1230 | | X | X | X | X | X | X | | | | | | 1 | | | 2 | 5 | | | | see note |
| | M1-D-09-27-2021 | GW | 9/27/21 | 1330 | | X | X | X | X | X | X | | | | | | 1 | | | 2 | 5 | | | | see note |
| 002 | M1-COMP-09-28-2021 | GW | 9/28/21 | | X | | X | | | | | Y | X | X | X | X | X | 7 | | | | | 1 | 1 | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| Amber Bartlett | [signature] | 9/28/21 | 11:50 |
| [signature] | [signature] | 9/28/21 | 13:29 |

11) Sampler (print name): Date:

**Additional Notes** please composite samples M1-A-09-27-2021, M1-B-09-27-2021, M1-C-09-27-2021 and M1-D-09-27-2021 into one sample with sample ID M1-COMP-(A-D)-09-27-2021

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 5.9 2.7

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

# Hampton-Clarke Report Of Analysis

**Client:** TRC Engineering
**Project:** Brookfield Landfill

**HC Project #:** 1102628

**Sample ID:** COMP-M1(A-D)10-25-2021
**Lab#:** AD26914-001
**Matrix:** Aqueous

**Collection Date:** 10/25/2021
**Receipt Date:** 10/26/2021

**SGT-HEM (Non-Polar Material) 1664B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | 1 | mg/l | 5.4 | ND |

**Total Suspended Solids (SM2540D-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Total Suspended Solids @ 103-105 C** | **1** | **mg/l** | **4.0** | **29** |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

# Hampton-Clarke Report Of Analysis

**Client:** TRC Engineering
**HC Project #:** 1112410
**Project:** Brookfield Landfill

**Sample ID:** COMP-M1(A-D)-11-23-2021
**Lab#:** AD27580-001
**Matrix:** Aqueous
**Collection Date:** 11/23/2021
**Receipt Date:** 11/24/2021

**SGT-HEM (Non-Polar Material) 1664B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | 1 | mg/l | 5.6 | ND |

**Total Suspended Solids (SM2540D-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Total Suspended Solids @ 103-105 C** | **1** | **mg/l** | **4.0** | **38** |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID: M1-COMP-11-24-2021** **Collection Date: 11/23/2021**
**Lab#: AD27580-002** **Receipt Date: 11/24/2021**
**Matrix: Aqueous**

**Carbonaceous BOD-5 Day (SM5210 B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Carbonaceous Bod, 5 Day** | **1** | **mg/l** | **2.0** | **3.5** |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Chloride** | **20** | **mg/l** | **40** | **610** |

**Cr (Hexavalent) 3500-Cr B11**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cr (Hexavalent) | 1 | mg/l | 0.020 | ND |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Nitrite-N (Aqueous) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrite | 1 | mg/l | 1.0 | ND |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |

| Surrogate | Conc. | Spike | Low Limit | High Limit | Recovery | Flags |
|---|---|---|---|---|---|---|
| TCMX-Surrogate | 39.45 | 100 | 39 | 132 | 39 | |
| TCMX-Surrogate | 47.39 | 100 | 39 | 132 | 47 | |
| DCB-Surrogate | 40.01 | 100 | 39 | 142 | 40 | |
| DCB-Surrogate | 41.55 | 100 | 39 | 142 | 42 | |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1 | ug/l | 2.0 | ND |
| Naphthalene | 1 | ug/l | 0.50 | ND |
| **Phenol** | **1** | **ug/l** | **2.0** | **3.1** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Silver | 1 | ug/l | 20 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cadmium | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Molybdenum | 1 | ug/l | 2.0 | ND |

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD27580
Pace Project No.: 70196008

**Sample: AD27580-001** **Lab ID: 70196008001** Collected: 11/23/21 12:30 Received: 11/29/21 11:13 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **SM 4500 CNE Cyanide, Total** | Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C<br>Pace Analytical Services - Melville | | | | | | | |
| Cyanide | **<10.0** | ug/L | 10.0 | 1 | 12/01/21 16:55 | 12/01/21 19:21 | 57-12-5 | |
| **4500CNG Cyanide, Amenable** | Analytical Method: SM22 4500-CN-E Preparation Method: SM22 4500-CN-G<br>Pace Analytical Services - Melville | | | | | | | |
| Amenable Cyanide | **<10.0** | ug/L | 10.0 | 1 | 12/01/21 19:20 | 12/01/21 19:21 | 57-12-5 | |

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## ANALYTICAL RESULTS

Project: AD27580
Pace Project No.: 70196008

**Sample: AD27580-002** **Lab ID: 70196008002** Collected: 11/23/21 09:15 Received: 11/29/21 11:13 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **44.9** | mg/L | 2.5 | 5 | 12/02/21 06:00 | 12/03/21 13:48 | 7727-37-9 | |

## REPORT OF LABORATORY ANALYSIS

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175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992
*A Women-Owned, Disadvantaged, Small Business Enterprise*

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

# CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 111241O

Page 1 of 1

**3) Reporting Requirements (Please Circle)**

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | Summary | NJ Hazsite |
| 1 Business Day (100%) * | Results + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%) * | Reduced: | EnviroData |
| 3 Business Days (50%) * | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%) * | [ ] PA [ ] Other | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full / NY ASP CatB | [ ] NYDEC |
| 8 Business Days (Stand.) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: | | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

**Customer Information**

1a) Customer: TRC Companies
Address: 1430 Broadway, 10th Fl
New York, NY 10018
1b) Email/Cell/Fax/Ph: abartlett@trcompanies.com
1c) Send Invoice to: mlindemuth@trcompanies.com
1d) Send Report to: abartlett@trcompanies.com mlindemuth@trcompanies.com

**Project Information**

2a) Project: Brookfield Landfill 384968
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): Staten Island, NY
2d) Quote/PO # (If Applicable): 152591

FOR LAB USE ONLY ↓

Batch # AD27580

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

**7) Analysis** *(specify methods & parameter lists)*

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs | cyanide (total) | cyanide (amenable) | total suspended solids | Naphthalene material | PCBs | SVOCs (8270) | cadmium, chromium (hexavalent), copper, lead, mercury, silver, zinc, chromium (total) | CBOD, total nitrogen | chloride, TKN | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | MI-A-11-23-2021 | GW | 11/23/21 | 930 | | X | X | X | X | X | X | | | | | | 1 | | | 2 | 6 | | | | |
| | MI-B-11-23-2021 | GW | 11/23/21 | 1030 | | X | X | X | X | X | X | | | | | | 1 | | | 2 | 5 | | | | |
| | MI-C-11-23-2021 | GW | 11/23/21 | 1130 | | X | X | X | X | X | X | | | | | | 1 | | | 2 | 5 | | | | |
| | MI-D-11-23-2021 | GW | 11/23/21 | 1230 | | X | X | X | X | X | X | | | | | | 1 | | | 2 | 5 | | | | |
| 002 | MI-COMP-~~11-~~23-2021 | GW | 11/24/21 | 915 | X | | | | | | | X | X | X | X | X | X | 7 | | | | | 1 | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

**10) Relinquished by:**

| Accepted by: | Date | Time |
|---|---|---|
| John Barnett | 11/24/21 | 11:00 |
| | 11/24/21 | 13:54 |

**11) Sampler** (print name): Amber Bartlett Date: 11/24/21

**Additional Notes** Please composite MI-A-11-23-2021, MI-B-11-23-2021, MI-C-11-23-2021, and MI-D-11-23-2021, into one sample with Sample ID MI-COMP(A-D)-11-23-2021.

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Cooler Temperature: 2.8 2.3

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

**Sample ID: M1-COMP-10-20-2021** | **Collection Date: 10/26/2021**
**Lab#: AD26914-002** | **Receipt Date: 10/26/2021**
**Matrix: Aqueous**

**Carbonaceous BOD-5 Day (SM5210 B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Carbonaceous Bod, 5 Day** | **1** | **mg/l** | **2.0** | **43** |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Chloride** | **20** | **mg/l** | **40** | **670** |

**Cr (Hexavalent) 3500-Cr B11**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cr (Hexavalent) | 1 | mg/l | 0.020 | ND |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Nitrite-N (Aqueous) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrite | 1 | mg/l | 1.0 | ND |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |

| Surrogate | Conc. | Spike | Low Limit | High Limit | Recovery | Flags |
|---|---|---|---|---|---|---|
| TCMX-Surrogate | 54.20 | 100 | 39 | 132 | 54 | |
| TCMX-Surrogate | 49.96 | 100 | 39 | 132 | 50 | |
| DCB-Surrogate | 57.73 | 100 | 39 | 142 | 58 | |
| DCB-Surrogate | 46.56 | 100 | 39 | 142 | 47 | |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1 | ug/l | 2.0 | ND |
| Naphthalene | 1 | ug/l | 0.50 | ND |
| **Phenol** | **1** | **ug/l** | **2.0** | **7.6** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Silver | 1 | ug/l | 20 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cadmium | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Molybdenum | 1 | ug/l | 2.0 | ND |

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD26914
Pace Project No.: 70192705

**Sample: AD26914-001** **Lab ID: 70192705001** Collected: 10/25/21 13:30 Received: 10/28/21 13:22 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **SM 4500 CNE Cyanide, Total** | Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C<br>Pace Analytical Services - Melville | | | | | | | |
| Cyanide | **13.1** | ug/L | 10.0 | 1 | 11/01/21 16:01 | 11/01/21 19:49 | 57-12-5 | |
| **4500CNG Cyanide, Amenable** | Analytical Method: SM22 4500-CN-E Preparation Method: SM22 4500-CN-G<br>Pace Analytical Services - Melville | | | | | | | |
| Amenable Cyanide | **<10.0** | ug/L | 10.0 | 1 | 11/05/21 18:12 | 11/05/21 22:03 | 57-12-5 | |

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD26914
Pace Project No.: 70192705

**Sample: AD26914-002** **Lab ID: 70192705002** Collected: 10/26/21 10:30 Received: 10/28/21 13:22 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **63.4** | mg/L | 2.5 | 5 | 11/03/21 06:24 | 11/05/21 13:06 | 7727-37-9 | |

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

# Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458

Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

# CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 11026628

Page 1 of 1

## 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | Summary | NJ Hazsite |
| 1 Business Day (100%) * | Results + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%) * | Reduced: | EnviroData |
| 3 Business Days (50%) * | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%) * | [ ] PA [ ] Other | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full / NY ASP CatB | [ ] NYDEC |
| 8 Business Days (Stand.) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: | | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

## Customer Information

1a) Customer: TRC
Address: 1430 Broadway 10th Floor
New York, NY 10018
1b) Email/Cell/Fax/Ph: Clambert@trcompanies.com
1c) Send Invoice to: wlindemuth@trcompanies.com
1d) Send Report to: both above

## Project Information

2a) Project: Brookfield Landfill 384968
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): Staten Island, NY
2d) Quote/PO # (If Applicable): 152591

FOR LAB USE ONLY

===> Check If Contingent ===>

<=== Check If Contingent <===

Batch # A026278

**Matrix Codes**
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs 8260 | Cyanide (total) | Cyanide (Amenable) | Total Suspended Solids | non polar material | PCBs | SVOCs 8270 | Cadmium, Copper, Lead, Nickel, Silver, Zinc, CROMIUM (total) | Chromium (total) | Total Kjeldahl Nitrogen (TKN) | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | M1-A-10-25-2021 | GW | 1030 | 10/25 | | X | X | X | X | X | X | | | | | | 1 | | | 2 | 5 | | | | See next |
| | M1-B-10-25-2021 | | 1130 | | | X | X | X | X | X | X | | | | | | 1 | | | 2 | 5 | | | | |
| | M1-C-10-25-2021 | | 1230 | | | X | X | X | X | X | X | | | | | | 1 | | | 2 | 5 | | | | |
| | M1-D-10-25-2021 | | 1330 | | | X | X | X | X | X | X | | | | | | 1 | | | 2 | 5 | | | | |
| 002 | M1-COMP-10-25-2021 | | 1030 | 10/26 | X | | | | | | | X | X | X | X | X | X | 7 | | | | | 1 | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| Cal Lambert | [signature] | 10/26/21 | 11:50 |
| [signature] | [signature] | 10/26/21 | 13:41 |
| | | | |
| | | | |

11) Sampler (print name): Date:

Additional Notes: Please COMP M1-A-D and name it M1-COMP-(A-D)-10-25-2021

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Cooler Temperature: 2-9 3.1 3.5

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

1430 Broadway, 10th Floor
New York, NY 10018

T 212.221.7822
TRCcompanies.com

March 23, 2022

Frances Leung, P.E., Chief
Industrial Inspection and Permitting Section
Bureau of Wastewater Treatment
New York City Department of Environmental Protection
96-05 Horace Harding Expressway
Corona, NY 11368

**RE:** Q3 Industrial Wastewater Discharge Self-Monitoring Report
New York City Department of Parks and Recreation
Brookfield Landfill/Park
575 Arthur Kill Road, Staten Island, NY 10308
Permit No. 18-P3149-1
TRC Project No. 384968

Dear Ms. Leung:

Enclosed please find the Q3 Industrial Wastewater Discharge Self-Monitoring Report (SMR) for the monitoring period of December 1, 2021 to February 28, 2022 for the New York City Department of Parks and Recreation (NYCDPR) Brookfield Avenue Landfill. The report contains SMR Forms with certifications, flow summary tables, M-1 sample result summary tables, laboratory results for the M-1 samples, and chain of custody forms. The results of the monthly sampling indicate there were no exceedances of any permit compound limits.

Please do not hesitate to contact me at (917) 794-3107 or via email at wlindemuth@trccompanies.com if you have any questions.

Sincerely,
**TRC Engineers, Inc.**

Wes Lindemuth

Wes D. Lindemuth, CHMM, CSP
Senior Project Manager

cc: K. Zias, A. Ehtesham, NYCDPR
K. Myers, R. Bowden, A. Bartlett, TRC

Enclosure:

Q3 Industrial Wastewater Discharge Self-Monitoring Report

# INDUSTRIAL USER SELF MONITORING REPORT

| 1. | ★ Establishment Information ★ | | | |
|---|---|---|---|---|
| A. | Name: Brookfield Avenue Landfill | | | |
| B. | Address: 575 Arthur Kill Road, Staten Island, NY 10308 | | | |
| | | | | |
| C. | Industrial Category: | | | |
| D. | Contact Official: Wes Lindemuth | | E. | Phone #: 917-794-3107 |
| F. | Reporting Period | | G. | Date sampled |
| | Start: 12/1/2021 | End: 2/28/2022 | Start: 12/27/2021 | End: 2/16/2022 |

Note: If the only wastewater discharges by your establishment into the public sewer system are sanitary or non-contact cooling water, do not address items in Tables 2, 3, 4, 5 and 6. In this case, check here [ ] and proceed directly to Table 7.

| 2. | ★Flow Information ★ | Average | Peak |
|---|---|---|---|
| A. | Total Plant Flow, gal/day | 41,266.33 | 153,490 |
| B. | Regulated Flow, gal/day | 41,266.33 | 153,490 |
| C. | Method of Flow Measurement: Flow meter (non-resettable) on the discharge line to the on-Site sanitary manhole. | | |
| | The water volume discharged is monitored daily. | | |
| | | | |

| 3. | ★ Sample Collection Information ★ |
|---|---|
| A. | Sampling Location: Prior to the gravity discharge from the oil/water seperator into the on-Site sanitary sewer system, |
| | a sample port installed on the effluent end of the discharge piping collects samples. |
| B. | Sampling Procedures: Samples are collected in accordance with 40 CFR, 403.12(g)(3) which states that grab samples |
| | must be used for pH, cyanide, total phenols, oil & grease, sulfide and VOCs. |
| | For all other pollutants, 24-hours composite samples are obtained through time-proportional composite sampling techniques. |
| | |
| C. | Preservatives Used: HCl, H2SO4, NaOH, HNO3 |
| | |

| 4. | This establishment's wastewater discharge DOES [ ] / DOES NOT [X] exceed nationwide categorical standard (s) or 15 RCNY 19-04 (a). |
|---|---|

| 5. | ★ Production Rate ★ |
|---|---|
| If applicable, provide production rate: Not Applicable | |
| | |
| | |

| 6. | ★ pH Monitoring ★ | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (Four Samples Per Day - One Hour Apart - Once a Month) | | | | | | | | | | | | | |
| A. | Date | 12/27/21 | | 1/13/22 | | 2/15/22 | | / / | | / / | | / / | |
| B. | Time/pH | 9:15 | 7.31 | 12:00 | 7.11 | 11:30 | 7.76 | | | | | | |
| | | 10:15 | 7.29 | 13:00 | 7.04 | 12:30 | 7.71 | | | | | | |
| | | 11:15 | 7.22 | 14:00 | 7.21 | 13:30 | 7.76 | | | | | | |
| | | 12:15 | 7.22 | 15:00 | 7.18 | 14:30 | 7.63 | | | | | | |

| 7. | ★ HAZARDOUS WASTES GENERATION ★ |
|---|---|
| This establishment DID [ ] / DID NOT [X] generate any hazardous wastes, during this reporting period. If hazardous wastes were generated, | |
| A. | Type of Waste: |
| B. | Amount Generated (in kilograms) : |
| C. | Method of Disposal : |
| | |

| 8. | ★ CERTIFICATION ★ |
|---|---|
| A. | NON-CONTAMINATED WASTEWATER DISCHARGE CERTIFICATION: |
| | I hereby certify, that during this reporting period, this facility has not discharged any industrial wastewater, chemicals, cleaners or like substances generated from or in relation to any of this establishment's operations other than sanitary or non-contact cooling water. I understand that I must obtain prior written approval from the Industrial Inspections and Permitting Section before I can discharge any such wastewater. I am aware that there are significant civil and criminal sanctions for submitting false information. |
| | Name (Print) Signature |
| | Title Date Phone # |
| | |

8. ★ CERTIFICATIONS (CONTINUED) ★

B. TOXIC ORGANICS CERTIFICATION:

I. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, no Toxic Organics are used or stored at my facility. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

| Wes Lindemuth | | Wes Lindemuth |
|---|---|---|
| Name (Print) | | Signature |
| Senior Project Manager | 3/23/2022 | 917-794-3107 |
| Title | Date | Phone# |

**OR**

II "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, there was no discharge to a public sewer of toxic organics during the reporting period covered by this report. I also certify that the explanations provided concerning the disposal of toxic organics from the facility are true, accurate and complete. I further certify that this facility is implementing a toxic organics management plan to protect against the release of such compounds to a public sewer. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

| | | |
|---|---|---|
| Name (Print) | | Signature |
| Title | Date | Phone# |

C. AUTHORIZED FIRM REPRESENTATIVE CERTIFICATION:

I hereby certify, under penalty of law, that I have personally examined and am familiar with the information contained in this report and all attachments therein. Furthermore, based on my inquiry of those persons immediately responsible for obtaining the information contained in this report, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I further certify that the reported sampling results are representative of the facility's normal work cycles and expected pollutant discharges.

| Wes Lindemuth | | Wes Lindemuth |
|---|---|---|
| Name (Print) | | Signature |
| Senior Project Manager | 3/23/2022 | 917-794-3107 |
| Title | Date | Phone# |

Please sign the following certification if required by the Permit/Directive:

D CYANIDE CERTIFICATION

The Industrial User must sign and submit one of the following certifications in its periodic self-monitoring reports:

a. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, cyanide is not used or stored at my facility or generated in any of our manufacturing processes and there was no discharge of cyanide to the public sewer. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Name (print) Wes Lindemuth Signature Wes Lindemuth

Title Senior Project Manager Date 3/23/2022 Phone Number 917-794-3107

**OR**

b. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, there was no discharge to a public sewer of cyanide-bearing waste during the reporting period covered by this report. I also certify that the explanations provided concerning the disposal of cyanide-bearing waste from the facility are true, accurate and complete. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Name (print)_____ Signature_____

Title_____ Date_____ Phone Number_____

If certification b. (above) is signed and submitted, explanations concerning the disposal of cyanide-bearing waste from the facility shall be provided.

| 9. | ★ DESCRIPTION OF OPERATION ★ |
|---|---|
| Site is a former landfill which is now operated as a public Park. The discharge is comprised of landfill leachate which is allowed to pass through an oil-water separator prior to discharge. | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| 10. | ★ ATTACHMENTS ★ | Yes | No | N/A |
|---|---|---|---|---|
| A. | All laboratory analyses must be conducted by a New York State Health Department certified wastewater laboratory. The results must be certified by the laboratory and submitted on the laboratory's letterhead. For each sample, the laboratory report must indicate the date of sampling, time sample was taken, sample location, sampling preservation procedures, analytical techniques used, date of analysis, units of measurement, and the laboratory's sample identification; where the analytical result reported is below the method detection level, the laboratory report must also indicate the method detection level. | X | | |
| B. | Chain of custody for all samples. | X | | |
| C. | Explanation of non-compliance and what will be done to rectify it. A compliance schedule is to be included. | | | X |
| D. | Amount of spent solvents generated and method of disposal. Explanation of zero discharges to be included. | | | X |
| E. | Description of any major modifications or malfunctions in manufacturing or pretreatment operations. | | | X |
| F. | Hazardous wastes manifests. | | | X |

# DAILY VOLUME OF DISCHARGE

# BROOKFIELD LANDFILL LEACHATE SYSTEM
# EFFLUENT FLOW METER REPORT

NYC Parks

| Date/Time | FLOW GPM *Instantaneous | FLOW TOTAL DAILY GAL *Resets at Midnight | FLOW TOTAL RUNNING GAL *Resets at 1 Billion Gallons |
|---|---|---|---|
| 12/1/21 0:00 | 8.42 | 294.98 | 26211530.00 |
| 12/2/21 0:00 | 9.80 | 310.46 | 26226420.00 |
| 12/3/21 0:00 | 22.16 | 249.15 | 26277690.00 |
| 12/4/21 0:00 | 2.81 | 92.89 | 26280490.00 |
| 12/5/21 0:00 | 1.58 | 58.99 | 26283060.00 |
| 12/6/21 0:00 | 65.60 | 2061.27 | 26286790.00 |
| 12/7/21 0:00 | 74.55 | 2466.30 | 26407750.00 |
| 12/8/21 0:00 | 62.13 | 1964.82 | 26503610.00 |
| 12/9/21 0:00 | 0.06 | 3.05 | 26523290.00 |
| 12/10/21 0:00 | 66.81 | 2122.20 | 26543990.00 |
| 12/11/21 0:00 | 9.14 | 319.55 | 26587780.00 |
| 12/12/21 0:00 | 9.18 | 223.38 | 26607530.00 |
| 12/13/21 0:00 | 4.48 | 173.52 | 26619040.00 |
| 12/14/21 0:00 | 5.06 | 105.08 | 26669880.00 |
| 12/15/21 0:00 | 2.81 | 115.50 | 26681260.00 |
| 12/16/21 0:00 | 8.05 | 334.33 | 26690260.00 |
| 12/17/21 0:00 | 2.18 | 54.25 | 26737070.00 |
| 12/18/21 0:00 | 21.70 | 700.03 | 26743630.00 |
| 12/19/21 0:00 | 67.31 | 2164.88 | 26764260.00 |
| 12/20/21 0:00 | 2.37 | 85.14 | 26809970.00 |
| 12/21/21 0:00 | 1.85 | 54.61 | 26813350.00 |
| 12/22/21 0:00 | 75.59 | 2333.52 | 26822500.00 |
| 12/23/21 0:00 | 1.05 | 24.31 | 26869850.00 |
| 12/24/21 0:00 | 2.39 | 78.64 | 26872260.00 |
| 12/25/21 0:00 | 4.90 | 139.95 | 26876540.00 |
| 12/26/21 0:00 | 2.48 | 160.11 | 26926910.00 |
| 12/27/21 0:00 | 7.29 | 327.04 | 26938730.00 |
| 12/28/21 0:00 | 1.13 | 74.63 | 26942860.00 |
| 12/29/21 0:00 | 65.90 | 2133.21 | 26964850.00 |
| 12/30/21 0:00 | 9.01 | 288.66 | 27005620.00 |
| 12/31/21 0:00 | 8.95 | 260.33 | 27016670.00 |
| 1/1/22 0:00 | 5.34 | 189.02 | 27024850.00 |
| 1/2/22 0:00 | 6.50 | 209.73 | 27079710.00 |
| 1/3/22 0:00 | 10.71 | 349.19 | 27091260.00 |
| 1/4/22 0:00 | 13.67 | 442.87 | 27110030.00 |
| 1/5/22 0:00 | 11.40 | 364.39 | 27176820.00 |
| 1/6/22 0:00 | 74.63 | 2421.79 | 27203380.00 |
| 1/7/22 0:00 | 2.95 | 71.11 | 27253320.00 |
| 1/8/22 0:00 | 2.14 | 69.69 | 27256690.00 |
| 1/9/22 0:00 | 78.61 | 2481.16 | 27270340.00 |
| 1/10/22 0:00 | 1.82 | 57.49 | 27316890.00 |
| 1/11/22 0:00 | 76.85 | 2488.07 | 27352210.00 |
| 1/12/22 0:00 | 20.22 | 562.10 | 27387420.00 |
| 1/13/22 0:00 | 74.43 | 2416.57 | 27437160.00 |
| 1/14/22 0:00 | 5.97 | 478.20 | 27456350.00 |
| 1/15/22 0:00 | 15.51 | 361.28 | 27530400.00 |
| 1/16/22 0:00 | 27.01 | 826.92 | 27560180.00 |
| 1/17/22 0:00 | 82.17 | 2617.58 | 27624970.00 |
| 1/18/22 0:00 | -- | -- | -- |
| 1/19/22 0:00 | -- | -- | -- |
| 1/20/22 0:00 | -- | -- | -- |
| 1/21/22 0:00 | -- | -- | -- |
| 1/22/22 0:00 | 3.25725 | 105.1407 | 28107300.00 |
| 1/23/22 0:00 | 3.52 | 131.10 | 28113200.00 |
| 1/24/22 0:00 | 69.71 | 2229.40 | 28165670.00 |
| 1/25/22 0:00 | 1.42 | 22.48 | 28168070.00 |
| 1/26/22 0:00 | 1.85 | 55.33 | 28169630.00 |
| 1/27/22 0:00 | 1.52 | 47.21 | 28172060.00 |

# BROOKFIELD LANDFILL LEACHATE SYSTEM
# EFFLUENT FLOW METER REPORT

NYC Parks

| Date/Time | FLOW GPM *Instantaneous | FLOW TOTAL DAILY GAL *Resets at Midnight | FLOW TOTAL RUNNING GAL *Resets at 1 Billion Gallons |
|---|---|---|---|
| 1/28/22 0:00 | 75.48 | 2415.98 | 28193580.00 |
| 1/29/22 0:00 | 2.31 | 64.29 | 28232740.00 |
| 1/30/22 0:00 | 1.73 | 59.73 | 28235010.00 |
| 1/31/22 0:00 | 1.58 | 41.57 | 28236250.00 |
| 2/1/22 0:00 | 1.02 | 28.68 | 28291940.00 |
| 2/2/22 0:00 | 0.85 | 27.59 | 28293530.00 |
| 2/3/22 0:00 | 0.71 | 28.58 | 28294790.00 |
| 2/4/22 0:00 | 0.24 | 47.26 | 28351390.00 |
| 2/5/22 0:00 | 1.35 | 42.29 | 28352690.00 |
| 2/6/22 0:00 | 84.85 | 2717.09 | 28457100.00 |
| 2/7/22 0:00 | 115.25 | 3652.46 | 28603550.00 |
| 2/8/22 0:00 | 82.03 | 2926.75 | 28754100.00 |
| 2/9/22 0:00 | 3.21 | 262.65 | 28807330.00 |
| 2/10/22 0:00 | 86.69 | 3172.46 | 28900450.00 |
| 2/11/22 0:00 | 14.19 | 150.14 | 28930410.00 |
| 2/12/22 0:00 | 14.21 | 956.62 | 28953570.00 |
| 2/13/22 0:00 | 26.07 | 883.77 | 28974380.00 |
| 2/14/22 0:00 | 114.42 | 3000.51 | 28999040.00 |
| 2/15/22 0:00 | 3.79 | 137.47 | 29079860.00 |
| 2/16/22 0:00 | 3.95 | 168.44 | 29101100.00 |
| 2/17/22 0:00 | 52.81 | 177.52 | 29121570.00 |
| 2/18/22 0:00 | 41.76 | 931.56 | 29209410.00 |
| 2/19/22 0:00 | 117.24 | 673.52 | 29249830.00 |
| 2/20/22 0:00 | 6.89 | 290.09 | 29283520.00 |
| 2/21/22 0:00 | 94.02 | 3743.52 | 29367230.00 |
| 2/22/22 0:00 | 54.76 | 345.50 | 29409510.00 |
| 2/23/22 0:00 | 9.79 | 957.67 | 29448430.00 |
| 2/24/22 0:00 | 124.57 | 4031.19 | 29601920.00 |
| 2/25/22 0:00 | 16.01 | 1077.40 | 29708160.00 |
| 2/26/22 0:00 | 70.56 | 810.87 | 29762630.00 |
| 2/27/22 0:00 | 22.74 | 1125.85 | 29812870.00 |
| 2/28/22 0:00 | 76.37 | 1757.90 | 29871190.00 |
| 2/28/22 23:00 | 13.85 | 56061.48 | 29925500.00 |

# LAB DATA SUMMARY

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Self Monitoring Report Results for Industrial Wastewater Discharge Permit No: 18-P3149-1
December 2021

| Sample ID | Sewer Use Limits (15 R.C.N.Y. ch. 19) | M1-COMP-12-28-2021 | M1-COMP-(A-D)-12-27-2021 | M1-A-12-27-2021 | M1-B-12-27-2021 | M1-C-12-27-2021 | M1-D-12-27-2021 |
|---|---|---|---|---|---|---|---|
| Lab ID | | AD28091-002 | AD28091-001 | | | | |
| Date | | 12/28/2021 | 12/27/2021 | 12/27/2021 | 12/27/2021 | 12/27/2021 | 12/27/2021 |
| **VOCs (ppb)** | | | | | | | |
| 1,1,1-Trichloroethane | NS | | 1.0 U | | | | |
| 1,2,4-Trichlorobenzene | NS | | 1.0 U | | | | |
| Benzene | Daily Limit: 134 Monthly Limit: 57 | | 0.50 U | | | | |
| Carbon Tetrachloride | NS | | 1.0 U | | | | |
| Chloroform | NS | | 2.0 U | | | | |
| Ethylbenzene | Daily Limit: 380 Monthly Limit: 142 | | 1.0 U | | | | |
| Methyl-Tert-Butyl-Ether (MTBE) | 50 | | 0.50 U | | | | |
| Tetrachloroethene (Perc) | 20 | | 1.0 U | | | | |
| Toluene | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| Xylenes (Total) | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| **Semi-Volatile Organics (ppb)** | | | | | | | |
| Naphthalene | Daily Limit: 47 Monthly Limit: 19 | 0.50 U | | | | | |
| 1,4-Dichlorobenzene | NS | 2.0 U | | | | | |
| Phenol | NS | 4.8 | | | | | |
| **Pesticides/ PBCs (ppb)** | 1.0 (Total PCBs, 7 PCB compounds) | | | | | | |
| Aroclor-1016 | | 0.25 U | | | | | |
| Aroclor-1242 | | 0.25 U | | | | | |
| Aroclor-1254 | | 0.25 U | | | | | |
| Aroclor-1221 | | 0.25 U | | | | | |
| Aroclor-1232 | | 0.25 U | | | | | |
| Aroclor-1248 | | 0.25 U | | | | | |
| Aroclor-1260 | | 0.25 U | | | | | |
| **Metals (ppm)** | | | | | | | |
| Cadmium | 2 | 0.0020 U | | | | | |
| Chromium (Total) | 5 | 0.050 U | | | | | |
| Chromium (Hexavalent) | 5 | 0.020 U | | | | | |
| Copper | 5 | 0.050 U | | | | | |
| Lead | 2 | 0.0030 U | | | | | |
| Mercury | 0.05 | 0.00050 U | | | | | |
| Molybdenum | NS | 0.0020 U | | | | | |
| Nickel | 3 | 0.050 U | | | | | |
| Silver | NS | 0.020 U | | | | | |
| Zinc | 5 | 0.050 U | | | | | |
| **General Chemistry Analysis** | | | | | | | |
| Carbonaceous Biochemical Oxygen Demand (CBOD) (mg/L) | NS | 4.5 | | | | | |
| Total Nitrogen (mg/L) | NS | 3.9 | | | | | |
| Chloride (mg/L) | NS | 340 | | | | | |
| Cyanide (Total) (mg/L) | 0.2 | | <0.01 U | | | | |
| Cyanide (Amenable to Chlorination) (mg/L) | 0.2 | | <0.01 U | | | | |
| Total Suspended Solids (TSS) (mg/L) | 350 | | 13 | | | | |
| Non-Polar Material (Oil and Grease 1664-A HEM) (mg/L) | 50 | | 5.7 U | | | | |
| pH | 5.0-12.0 Standard Units | | | 7.31 | 7.29 | 7.22 | 7.22 |
| TKN (mg/L) | NS | 63.7 | | | | | |
| Temperature | Deg. C ( < 65.5 ) | | | 8.55 | 9.22 | 9.82 | 10.26 |

**Notes:**

**< = Less than**

**NS = No Standard**

**U = Not Detected**

**( Blank ) = Parameter not required for analysis**

**Bold = Above Daily Limit**

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Self Monitoring Report Results for Industrial Wastewater Discharge Permit No: 18-P3149-1
January 2022

| Sample ID | Sewer Use Limits (15 R.C.N.Y. ch. 19) | M1-COMP-1-14-2022 | M1-COMP (A-D)-1-13-2022 | M1-A-1-13-2022 | M1-B-1-13-2022 | M1-C-1-13-2022 | M1-D-1-13-2022 |
|---|---|---|---|---|---|---|---|
| Lab ID | | AD28331-002 | AD28331-001 | | | | |
| Date | | 1/14/2022 | 1/13/2022 | 1/13/2022 | 1/13/2022 | 1/13/2022 | 1/13/2022 |
| **VOCs (ppb)** | | | | | | | |
| 1,1,1-Trichloroethane | NS | | 1.0 U | | | | |
| 1,2,4-Trichlorobenzene | NS | | 1.0 U | | | | |
| Benzene | Daily Limit: 134 Monthly Limit: 57 | | 0.50 U | | | | |
| Carbon Tetrachloride | NS | | 1.0 U | | | | |
| Chloroform | NS | | 2.0 U | | | | |
| Ethylbenzene | Daily Limit: 380 Monthly Limit: 142 | | 1.0 U | | | | |
| Methyl-Tert-Butyl-Ether (MTBE) | 50 | | 0.50 U | | | | |
| Tetrachloroethene (Perc) | 20 | | 1.0 U | | | | |
| Toluene | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| Xylenes (Total) | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| **Semi-Volatile Organics (ppb)** | | | | | | | |
| Naphthalene | Daily Limit: 47 Monthly Limit: 19 | 0.50 U | | | | | |
| 1,4-Dichlorobenzene | NS | 2.0 U | | | | | |
| Phenol | NS | 8.2 | | | | | |
| **Pesticides/ PBCs (ppb)** | 1.0 (Total PCBs, 7 PCB compounds) | | | | | | |
| Aroclor-1016 | | 0.25 U | | | | | |
| Aroclor-1242 | | 0.25 U | | | | | |
| Aroclor-1254 | | 0.25 U | | | | | |
| Aroclor-1221 | | 0.25 U | | | | | |
| Aroclor-1232 | | 0.25 U | | | | | |
| Aroclor-1248 | | 0.25 U | | | | | |
| Aroclor-1260 | | 0.25 U | | | | | |
| **Metals (ppm)** | | | | | | | |
| Cadmium | 2 | 0.0020 U | | | | | |
| Chromium (Total) | 5 | 0.050 U | | | | | |
| Chromium (Hexavalent) | 5 | 0.020 U | | | | | |
| Copper | 5 | 0.050 U | | | | | |
| Lead | 2 | 0.0030 U | | | | | |
| Mercury | 0.05 | 0.00050 U | | | | | |
| Molybdenum | NS | 0.0020 U | | | | | |
| Nickel | 3 | 0.050 U | | | | | |
| Silver | NS | 0.020 U | | | | | |
| Zinc | 5 | 0.050 U | | | | | |
| **General Chemistry Analysis** | | | | | | | |
| Carbonaceous Biochemical Oxygen Demand (CBOD) (mg/L) | NS | 3.1 | | | | | |
| Total Nitrogen (mg/L) | NS | 2.0 U | | | | | |
| Chloride (mg/L) | NS | 340 | | | | | |
| Cyanide (Total) (mg/L) | 0.2 | | <0.01 U | | | | |
| Cyanide (Amenable to Chlorination) (mg/L) | 0.2 | | <0.01 U | | | | |
| Total Suspended Solids (TSS) (mg/L) | 350 | | 13 | | | | |
| Non-Polar Material (Oil and Grease 1664-A HEM) (mg/L) | 50 | | 5.7 U | | | | |
| pH | 5.0-12.0 Standard Units | | | 7.11 | 7.04 | 7.21 | 7.18 |
| TKN (mg/L) | NS | 60.2 | | | | | |
| Temperature | Deg. C ( < 65.5 ) | | | 9.42 | 9.58 | 9.64 | 9.69 |

**Notes:**

**< = Less than**

**NS = No Standard**

**U = Not Detected**

**( Blank ) = Parameter not required for analysis**

**Bold = Above Daily Limit**

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Self Monitoring Report Results for Industrial Wastewater Discharge Permit No: 18-P3149-1
February 2022

| Sample ID | Sewer Use Limits (15 R.C.N.Y. ch. 19) | M1-COMP-02-16-2022 | M1-COMP (A-D)-02-15-2022 | M1-A-02-15-2022 | M1-B-02-15-2022 | M1-C-02-15-2022 | M1-D-02-15-2022 |
|---|---|---|---|---|---|---|---|
| Lab ID | | AD28940-002 | AD28940-001 | | | | |
| Date | | 2/16/2022 | 2/15/2022 | 2/15/2022 | 2/15/2022 | 2/15/2022 | 2/15/2022 |
| **VOCs (ppb)** | | | | | | | |
| 1,1,1-Trichloroethane | NS | | 1.0 U | | | | |
| 1,2,4-Trichlorobenzene | NS | | 1.0 U | | | | |
| Benzene | Daily Limit: 134 Monthly Limit: 57 | | 0.50 U | | | | |
| Carbon Tetrachloride | NS | | 1.0 U | | | | |
| Chloroform | NS | | 2.0 U | | | | |
| Ethylbenzene | Daily Limit: 380 Monthly Limit: 142 | | 1.0 U | | | | |
| Methyl-Tert-Butyl-Ether (MTBE) | 50 | | 0.50 U | | | | |
| Tetrachloroethene (Perc) | 20 | | 1.0 U | | | | |
| Toluene | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| Xylenes (Total) | Daily Limit: 74 Monthly Limit: 28 | | 1.0 U | | | | |
| **Semi-Volatile Organics (ppb)** | | | | | | | |
| Naphthalene | Daily Limit: 47 Monthly Limit: 19 | 0.50 U | | | | | |
| 1,4-Dichlorobenzene | NS | 2.0 U | | | | | |
| Phenol | NS | 2.2 | | | | | |
| **Pesticides/ PBCs (ppb)** | 1.0 (Total PCBs, 7 PCB compounds) | | | | | | |
| Aroclor-1016 | | 0.25 U | | | | | |
| Aroclor-1242 | | 0.25 U | | | | | |
| Aroclor-1254 | | 0.25 U | | | | | |
| Aroclor-1221 | | 0.25 U | | | | | |
| Aroclor-1232 | | 0.25 U | | | | | |
| Aroclor-1248 | | 0.25 U | | | | | |
| Aroclor-1260 | | 0.25 U | | | | | |
| **Metals (ppm)** | | | | | | | |
| Cadmium | 2 | 0.0020 U | | | | | |
| Chromium (Total) | 5 | 0.050 U | | | | | |
| Chromium (Hexavalent) | 5 | 0.020 U | | | | | |
| Copper | 5 | 0.050 U | | | | | |
| Lead | 2 | 0.0030 U | | | | | |
| Mercury | 0.05 | 0.00050 U | | | | | |
| Molybdenum | NS | 0.0020 U | | | | | |
| Nickel | 3 | 0.050 U | | | | | |
| Silver | NS | 0.020 U | | | | | |
| Zinc | 5 | 0.020 U | | | | | |
| **General Chemistry Analysis** | | | | | | | |
| Carbonaceous Biochemical Oxygen Demand (CBOD) (mg/L) | NS | 2.0 U | | | | | |
| Total Nitrogen (mg/L) | NS | 2.0 U | | | | | |
| Chloride (mg/L) | NS | 640 | | | | | |
| Cyanide (Total) (mg/L) | 0.2 | | <0.01 U | | | | |
| Cyanide (Amenable to Chlorination) (mg/L) | 0.2 | | <0.01 U | | | | |
| Total Suspended Solids (TSS) (mg/L) | 350 | | 21 | | | | |
| Non-Polar Material (Oil and Grease 1664-A HEM) (mg/L) | 50 | | 5.6 U | | | | |
| pH | 5.0-12.0 Standard Units | | | 7.76 | 7.71 | 7.76 | 7.63 |
| TKN (mg/L) | NS | 15.4 | | | | | |
| Temperature | Deg. C ( < 65.5 ) | | | 7.00 | 6.16 | 5.99 | 6.52 |

**Notes:**

**< = Less than**

**NS = No Standard**

**U = Not Detected**

**( Blank ) = Parameter not required for analysis**

**Bold = Above Daily Limit**

# LABORATORY REPORTS

# Hampton-Clarke Report Of Analysis

**Client:** TRC Engineering
**HC Project #:** 1122814
**Project:** Brookfield Landfill

**Sample ID:** M-COMP (A-D)-12-27-2021
**Lab#:** AD28091-001
**Matrix:** Aqueous
**Collection Date:** 12/27/2021
**Receipt Date:** 12/28/2021

**SGT-HEM (Non-Polar Material) 1664B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | 1 | mg/l | 5.7 | ND |

**Total Suspended Solids (SM2540D-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Total Suspended Solids @ 103-105 C** | **1** | **mg/l** | **4.0** | **13** |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID: M1-COMP-12-28-2021** **Collection Date: 12/28/2021**
**Lab#: AD28091-002** **Receipt Date: 12/28/2021**
**Matrix: Aqueous**

**Carbonaceous BOD-5 Day (SM5210 B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Carbonaceous Bod, 5 Day** | **1** | **mg/l** | **2.0** | **4.5** |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Chloride** | **20** | **mg/l** | **40** | **340** |

**Cr (Hexavalent) 3500-Cr B11**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cr (Hexavalent) | 1 | mg/l | 0.020 | ND |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Nitrate** | **1** | **mg/l** | **1.0** | **2.9** |

**Nitrite-N (Aqueous) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Nitrite** | **1** | **mg/l** | **1.0** | **1.0** |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |

| Surrogate | Conc. | Spike | Low Limit | High Limit | Recovery | Flags |
|---|---|---|---|---|---|---|
| TCMX-Surrogate | 32.76 | 100 | 39 | 132 | 33 | S8 |
| TCMX-Surrogate | 42.35 | 100 | 39 | 132 | 42 | |
| DCB-Surrogate | 64.99 | 100 | 39 | 142 | 65 | |
| DCB-Surrogate | 67.66 | 100 | 39 | 142 | 68 | |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1 | ug/l | 2.0 | ND |
| Naphthalene | 1 | ug/l | 0.50 | ND |
| **Phenol** | **1** | **ug/l** | **2.0** | **4.8** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Silver | 1 | ug/l | 20 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cadmium | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |

| | |
|---|---|
| **Sample ID:** | **M1-COMP-12-28-2021** |
| **Lab#:** | **AD28091-002** |
| **Matrix:** | **Aqueous** |
| **Collection Date:** | **12/28/2021** |
| **Receipt Date:** | **12/28/2021** |

| | | | | |
|---|---|---|---|---|
| Molybdenum | 1 | ug/l | 2.0 | ND |

**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD28091
Pace Project No.: 70199277

**Sample: AD28091-001** **Lab ID: 70199277001** Collected: 12/27/21 12:15 Received: 12/29/21 11:23 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **SM 4500 CNE Cyanide, Total** | Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C<br>Pace Analytical Services - Melville | | | | | | | |
| Cyanide | **<10.0** | ug/L | 10.0 | 1 | 01/04/22 16:00 | 01/04/22 19:47 | 57-12-5 | |
| **4500CNG Cyanide, Amenable** | Analytical Method: SM22 4500-CN-E Preparation Method: SM22 4500-CN-G<br>Pace Analytical Services - Melville | | | | | | | |
| Amenable Cyanide | **<10.0** | ug/L | 10.0 | 1 | 01/05/22 10:30 | 01/05/22 10:35 | 57-12-5 | |

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD28091
Pace Project No.: 70199277

**Sample: AD28091-002** **Lab ID: 70199277002** Collected: 12/28/21 09:30 Received: 12/29/21 11:23 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **63.7** | mg/L | 2.0 | 20 | 01/04/22 06:34 | 01/06/22 19:40 | 7727-37-9 | |

## REPORT OF LABORATORY ANALYSIS

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# Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992
*A Women-Owned, Disadvantaged, Small Business Enterprise*

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

## CHAIN OF CUSTODY RECORD

1122814

Project# (Lab Use Only): 1092816

Page 01 of 01

### 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | Summary | NJ Hazsite |
| 1 Business Day (100%) * | Results + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%) * | Reduced: | EnviroData |
| 3 Business Days (50%) * | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%) * | [ ] PA [ ] Other | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full / NY ASP CatB | [ ] NYDEC |
| 8 Business Days (Stand.) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: | | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

### Customer Information

1a) Customer: TRC Companies Inc
Address: 1430 Broadway 10th Fl New York NY 10018
1b) Email/Cell/Fax/Ph: abaffletti@trcsolutions.com
1c) Send Invoice to: WLindquist@TRCcompanies.com
1d) Send Report to: abaffletti@TRCcompanies.com

### Project Information

2a) Project: Brookfield Landfill 384968
2b) Project Mgr: Wesley Lindquist
2c) Project Location (City/State): Staten Island
2d) Quote/PO # (If Applicable): 152591

FOR LAB USE ONLY

Batch # AD28091

===> Check If Contingent ===>

**Matrix Codes**

DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

### 7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs (8260) | Cyanide (Total) | Cyanide (Amenable) | Total S. Solids | Nitrate/Nitrite | PCBs | SVOCs (8270) | Copper | Mercury | Chloride | COD, Total | Chloride, TKN | 3) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | M1-A-12-27-2021 | GW | 12/27/21 | 09:15 | | X | X | X | X | X | X | | | | | | | | 1 | | | 2 | 5 | | | | See Note |
| | M1-B-12-27-2021 | | | 10:15 | | X | X | X | X | X | X | | | | | | | | 1 | | | 2 | 5 | | | | |
| | M1-C-12-27-2021 | | | 11:15 | | X | X | X | X | X | X | | | | | | | | 1 | | | 2 | 5 | | | | |
| | M1-D-12-27-2021 | | | 12:15 | | X | X | X | X | X | X | | | | | | | | 1 | | | 2 | 5 | | | | |
| 002 | M1-COMP-12-28-2021 | GW | 12/28 | 9:30 | X | | | | | | | X | X | X | X | X | X | X | 7 | | | | | 1 | 1 | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| | | 12/27/21 | 13:30 |
| | | 12/28/21 | 12:50 |
| | | 12/28/21 | 10:20 |
| | | 12/28/21 | 16:15 |

11) Sampler (print name): 12-27-21 → Sanjay Sharma 12-28-21 → Sanjay Sharma Date:

Additional Notes: Please composite samples M1-A-12-27-2021, M1-B-12-27-2021, M1-C-12-27-2021 & M1-D-12-27-2021 into ONE sample called T.D. M1-COMP-A-D-12-27-2021

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):

- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

Check if applicable:

- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:

- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Cooler Temperature: 2.9, 2.6

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

# Hampton-Clarke Report Of Analysis

**Client:** TRC Engineering
**HC Project #:** 2011410
**Project:** Brookfield Landfill

**Sample ID:** M1-COMP (A-D)-1-13-2022
**Lab#:** AD28331-001
**Matrix:** Aqueous
**Collection Date:** 1/13/2022
**Receipt Date:** 1/14/2022

**SGT-HEM (Non-Polar Material) 1664B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | 1 | mg/l | 5.7 | ND |

**Total Suspended Solids (SM2540D-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Total Suspended Solids @ 103-105 C** | **1** | **mg/l** | **4.0** | **13** |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID: M1-COMP-1-14-2022** **Collection Date: 1/14/2022**
**Lab#: AD28331-002** **Receipt Date: 1/14/2022**
**Matrix: Aqueous**

**Carbonaceous BOD-5 Day (SM5210 B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Carbonaceous Bod, 5 Day** | **1** | **mg/l** | **2.0** | **3.1** |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Chloride** | **10** | **mg/l** | **20** | **340** |

**Cr (Hexavalent) 3500-Cr B11**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cr (Hexavalent) | 1 | mg/l | 0.020 | ND |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.500 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Nitrite-N (Aqueous) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrite | 1 | mg/l | 1.0 | ND |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |

| Surrogate | Conc. | Spike | Low Limit | High Limit | Recovery | Flags |
|---|---|---|---|---|---|---|
| TCMX-Surrogate | 39.80 | 100 | 39 | 132 | 40 | |
| TCMX-Surrogate | 46.31 | 100 | 39 | 132 | 46 | |
| DCB-Surrogate | 54.59 | 100 | 39 | 142 | 55 | |
| DCB-Surrogate | 50.37 | 100 | 39 | 142 | 50 | |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1 | ug/l | 2.0 | ND |
| Naphthalene | 1 | ug/l | 0.50 | ND |
| **Phenol** | **1** | **ug/l** | **2.0** | **8.2** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Silver | 1 | ug/l | 20 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cadmium | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |

**Sample ID: M1-COMP-1-14-2022** | **Collection Date: 1/14/2022**
**Lab#: AD28331-002** | **Receipt Date: 1/14/2022**
**Matrix: Aqueous**

| | | | | |
|---|---|---|---|---|
| Molybdenum | 1 | ug/l | 2.0 | ND |

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD28331
Pace Project No.: 70201004

**Sample: AD28331-001** **Lab ID: 70201004001** Collected: 01/13/22 15:00 Received: 01/17/22 15:19 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **SM 4500 CNE Cyanide, Total** | Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C<br>Pace Analytical Services - Melville | | | | | | | |
| Cyanide | **<10.0** | ug/L | 10.0 | 1 | 01/21/22 12:12 | 01/21/22 15:19 | 57-12-5 | |
| **4500CNG Cyanide, Amenable** | Analytical Method: SM22 4500-CN-E Preparation Method: SM22 4500-CN-G<br>Pace Analytical Services - Melville | | | | | | | |
| Amenable Cyanide | **<10.0** | ug/L | 10.0 | 1 | 01/24/22 12:50 | 01/24/22 15:01 | 57-12-5 | |

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD28331
Pace Project No.: 70201004

**Sample: AD28331-002** **Lab ID: 70201004002** Collected: 01/13/22 15:00 Received: 01/17/22 15:19 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **60.2** | mg/L | 2.5 | 5 | 01/19/22 06:10 | 01/19/22 23:17 | 7727-37-9 | |

## REPORT OF LABORATORY ANALYSIS

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# Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

# CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 2011410

Page 1 of 1

## 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | (Summary) | NJ Hazsite |
| 1 Business Day (100%) * | Results + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%) * | Reduced: | EnviroData |
| 3 Business Days (50%) * | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%) * | [ ] PA [ ] Other | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full / (NY ASP CatB) | [ ] NYDEC |
| 8 Business Days (Stand.) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: | | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

## Customer Information

1a) Customer: TRC Companies
Address: 1430 Broadway, 10th Fl
New York, NY 10018
1b) Email/Cell/Fax/Ph: abartlett@trccompanies.com
1c) Send Invoice to: APinvoiceapproval@trccompanies.com
1d) Send Report to: abartlett@trccompanies.com

## Project Information

2a) Project: Brookfield Avenue Landfill 384908
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): Staten Island, NY
2d) Quote/PO # (If Applicable): 152591

FOR LAB USE ONLY

Batch # AD28331

===> Check If Contingent ===>

<=== Check If Contingent <===

**Matrix Codes**
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs | cVOCs (extended to total) | cyanide (amenable) | total suspended solids | Non-polar material | PCBs | SVOCs | cadmium, chromium (hexavalent), copper, lead, mercury, silver, molybdenum, nickel, zinc | chromium (total), COD, total nitrogen | chloride, TKN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | M1-A-1-13-2022 | GW | 1/13/22 | 1200 | | X | X | X | X | X | X | | | | | |
| | M1-B-1-13-2022 | GW | 1/13/22 | 1300 | | X | X | X | X | X | X | | | | | |
| | M1-C-1-13-2022 | GW | 1/13/22 | 1400 | | X | X | X | X | X | X | | | | | |
| | M1-D-1-13-2022 | GW | 1/13/22 | 1500 | | X | X | X | X | X | X | | | | | |
| 002 | M1-COMP-1-14-2022 | GW | 1/14/22 | 900 | X | | | | | | | X | X | X | X | X | X | X |

8) # of Bottles

| None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|
| 1 | | | 2 | 5 | | | | |
| 1 | | | 2 | 5 | | | | |
| 1 | | | 2 | 5 | | | | |
| 1 | | | 2 | 5 | | | | |
| 7 | | | | | 1 | 1 | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| [signature] | [signature] | 1/14/21 | 11:00 |
| [signature] | [signature] | 1/14/22 | 12:20 |

11) Sampler (print name): Amber Bartlett Date: 1/14/21

**Additional Notes** Please composite M1-A-1-13-2022, M1-B-1-13-2022, M1-C-1-13-2022, and M1-D-1-13-2022 into one sample with sample ID M1-COMP(A-D)-1-13-2022.

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Cooler Temperature: 2.8, 2.6

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

# Hampton-Clarke Report Of Analysis

**Client:** TRC Engineering
**HC Project #:** 2021609
**Project:** Brookfield Landfill

**Sample ID:** M1-COMP (A-D)-02-15-2022
**Lab#:** AD28940-001
**Matrix:** Aqueous
**Collection Date:** 2/15/2022
**Receipt Date:** 2/16/2022

**SGT-HEM (Non-Polar Material) 1664B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| SGT-HEM (Non-Polar Material) | 1 | mg/l | 5.6 | ND |

**Total Suspended Solids (SM2540D-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Total Suspended Solids @ 103-105 C** | **1** | **mg/l** | **4.0** | **21** |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID: M1-COMP-02-16-2022** **Collection Date: 2/15/2022**
**Lab#: AD28940-002** **Receipt Date: 2/16/2022**
**Matrix: Aqueous**

**Carbonaceous BOD-5 Day (SM5210 B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Carbonaceous Bod, 5 Day | 1 | mg/l | 2.0 | ND |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Chloride** | **50** | **mg/l** | **100** | **640** |

**Cr (Hexavalent) 3500-Cr B11**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cr (Hexavalent) | 1 | mg/l | 0.020 | ND |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Nitrite-N (Aqueous) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrite | 1 | mg/l | 1.0 | ND |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

| Surrogate | Conc. | Spike | Low Limit | High Limit | Recovery | Flags |
|---|---|---|---|---|---|---|
| TCMX-Surrogate | 73.43 | 100 | 39 | 132 | 73 | |
| TCMX-Surrogate | 57.57 | 100 | 39 | 132 | 58 | |
| DCB-Surrogate | 109.13 | 100 | 39 | 142 | 109 | |
| DCB-Surrogate | 94.46 | 100 | 39 | 142 | 94 | |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,4-Dichlorobenzene | 1 | ug/l | 2.0 | ND |
| Naphthalene | 1 | ug/l | 0.50 | ND |
| **Phenol** | **1** | **ug/l** | **2.0** | **2.2** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Silver | 1 | ug/l | 20 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cadmium | 1 | ug/l | 2.0 | ND |

| | | | | |
|---|---|---|---|---|
| **Sample ID:** | **M1-COMP-02-16-2022** | | **Collection Date:** | **2/15/2022** |
| **Lab#:** | **AD28940-002** | | **Receipt Date:** | **2/16/2022** |
| **Matrix:** | **Aqueous** | | | |

| | | | | |
|---|---|---|---|---|
| Lead | 1 | ug/l | 3.0 | ND |
| Molybdenum | 1 | ug/l | 2.0 | ND |
| Zinc | 1 | ug/l | 20 | ND |

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

## ANALYTICAL RESULTS

Project: AD28940
Pace Project No.: 70204610

**Sample: AD28940-001** **Lab ID: 70204610001** Collected: 02/15/22 14:30 Received: 02/17/22 11:10 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **SM 4500 CNE Cyanide, Total** | Analytical Method: SM22 4500-CN-E Preparation Method: SM20/22 4500-CN-C<br>Pace Analytical Services - Melville | | | | | | | |
| Cyanide | **<10.0** | ug/L | 10.0 | 1 | 02/25/22 11:30 | 02/25/22 14:02 | 57-12-5 | |
| **4500CNG Cyanide, Amenable** | Analytical Method: SM22 4500-CN-E Preparation Method: SM22 4500-CN-G<br>Pace Analytical Services - Melville | | | | | | | |
| Amenable Cyanide | **<10.0** | ug/L | 10.0 | 1 | 02/28/22 13:45 | 02/28/22 16:55 | 57-12-5 | |

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## ANALYTICAL RESULTS

Project: AD28940
Pace Project No.: 70204610

**Sample: AD28940-002** **Lab ID: 70204610002** Collected: 02/15/22 10:30 Received: 02/17/22 11:10 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2<br>Pace Analytical Services - Melville | | | | | | | |
| Nitrogen, Kjeldahl, Total | **15.4** | mg/L | 0.50 | 5 | 02/25/22 05:49 | 02/25/22 19:34 | 7727-37-9 | |

## REPORT OF LABORATORY ANALYSIS

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175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992
*A Women-Owned, Disadvantaged, Small Business Enterprise*

# CHAIN OF CUSTODY RECORD

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Project# (Lab Use Only): 202160



## Customer Information

1a) Customer: TRC Engineers, Inc.
Address: 1430 Broadway, 10th Fl
New York, NY 10018
1b) Email/Cell/Fax/Ph: abartleff@trcompanies.com
1c) Send Invoice to: wlindemuth@trcompanies.com
1d) Send Report to: abartleff@trcompanies.com; wlindemuth@trcompanies.com

## Project Information

2a) Project: Brookfield Avenue Landfill
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): Staten Island, NY
2d) Quote/PO # (If Applicable): 152541

## 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | (Summary) | NJ Hazsite |
| 1 Business Day (100%) * | Results + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%) * | Reduced: | EnviroData |
| 3 Business Days (50%) * | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%) * | [ ] PA [ ] Other | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full (NY ASP CatB) * | [ ] NYDEC |
| (8 Business Days (Stand.)) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: | | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY

Batch # AD28940

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) **Analysis** *(specify methods & parameter lists)*

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs (8260) | cyanide (total) | cyanide (amenable) | Total suspended solids | Non-polar material | PCBs | SVOCs (8270) | cadmium, chromium, copper, hexavalent chromium, lead, mercury, silver, molybdenum, nickel, | zinc, chromium (total) COD, total nitrogen | chloride, TKN | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | M1-A-02-15-2022 | GW | 2/15/22 | 1130 | | X | X | X | X | X | X | | | | | | | 1 | | | 2 | 5 | | | | |
| | M1-B-02-15-2022 | GW | 2/15/22 | 1230 | | X | X | X | X | X | X | | | | | | | 1 | | | 2 | 5 | | | | |
| | M1-C-02-15-2022 | GW | 2/15/22 | 1330 | | X | X | X | X | X | X | | | | | | | 1 | | | 2 | 5 | | | | |
| | M1-D-02-15-2022 | GW | 2/15/22 | 1430 | | X | X | X | X | X | X | | | | | | | 1 | | | 2 | 5 | | | | |
| 002 | M1-COMP-02-16-2022 | GW | 2/16/22 | 1030 | X | | | | | | | X | X | X | X | X | X | 7 | | | | | 1 | 1 | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| Amber Bartleff | | 2/16/22 | 1120 |
| | | 2/16/22 | 14:30 |

11) Sampler (print name): Amber Bartleff Date: 2/16/22

**Additional Notes** Please composite samples M1-A-02-15-2022, M1-B-02-15-2022, M1-C-02-15-2022, and M1-D-02-15-2022 into one sample with sampleID M1-COMP (A-D)-02-15-2022.

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Cooler Temperature: 2-8, 2.6

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

# APPENDIX C

# LANDFILL GAS MANAGEMENT SYSTEM

**FORM LGM-1**
**FLARE STATION MONTHLY OPERATION SUMMARY**
**LANDFILL GAS MANAGEMENT**
**APRIL 2021**
**BROOKFIELD AVENUE LANDFILL**

| Date | Day | Time | Vac (in. of H20) | Blower 301 (SCFM) | Blower 302 (SCFM) | Total SCFM | % CH4 | % O2 | Temperature (°F) | Blower 301 (hrs) | Blower 302 (hrs) | Blower Frequency (Hz) | Blower 301 (Amps) | Blower 302 (Amps) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/1/2021 | Thursday | 7:17 | -5.5 | 140.6 | 51.4 | 192 | 29.8 | 1.4 | 1571 | 28553 | 28478 | 24.4 | 5.8 | 6.0 | Flare running (changed chart paper) |
| 4/2/2021 | Friday | | | | | | | | | 28568 | 28493 | | | | |
| 4/3/2021 | Saturday | | | | | | | | | 28583 | 28508 | | | | |
| 4/4/2021 | Sunday | | | | | | | | | 28598 | 28523 | | | | |
| 4/5/2021 | Monday | | | | | | | | | 28613 | 28538 | | | | |
| 4/6/2021 | Tuesday | | | | | | | | | 28628 | 28553 | | | | |
| 4/7/2021 | Wednesday | | | | | | | | | 28643 | 28568 | | | | |
| 4/8/2021 | Thursday | | | | | | | | | 28658 | 28583 | | | | |
| 4/9/2021 | Friday | 7:10 | -5.7 | 138 | 50 | 188 | 26.9 | 2.6 | 1607 | 28673 | 28598 | 24.5 | 5.8 | 5.9 | Flare running (changed chart paper) |
| 4/10/2021 | Saturday | | | | | | | | | 28686 | 28611 | | | | |
| 4/11/2021 | Sunday | | | | | | | | | 28699 | 28624 | | | | |
| 4/12/2021 | Monday | | | | | | | | | 28712 | 28637 | | | | |
| 4/13/2021 | Tuesday | | | | | | | | | 28725 | 28650 | | | | |
| 4/14/2021 | Wednesday | | | | | | | | | 28738 | 28663 | | | | |
| 4/15/2021 | Thursday | | | | | | | | | 28751 | 28676 | | | | |
| 4/16/2021 | Friday | 8:39 | -5.7 | 167 | 64 | 231 | 39.2 | 1.2 | 1501 | 28764 | 28689 | 26.7 | 6.3 | 5.9 | Flare running (changed chart paper) |
| 4/17/2021 | Saturday | | | | | | | | | 28777 | 28702 | | | | |
| 4/18/2021 | Sunday | | | | | | | | | 28791 | 28716 | | | | |
| 4/19/2021 | Monday | | | | | | | | | 28804 | 28729 | | | | |
| 4/20/2021 | Tuesday | | | | | | | | | 28818 | 28743 | | | | |
| 4/21/2021 | Wednesday | | | | | | | | | 28831 | 28756 | | | | |
| 4/22/2021 | Thursday | | | | | | | | | 28844 | 28769 | | | | |
| 4/23/2021 | Friday | | | | | | | | | 28858 | 28783 | | | | |
| 4/24/2021 | Saturday | | | | | | | | | 28871 | 28796 | | | | |
| 4/25/2021 | Sunday | | | | | | | | | 28885 | 28810 | | | | |
| 4/26/2021 | Monday | 8:32 | -5.8 | 136 | 66 | 202 | 31.8 | 1.1 | 1582 | 28898 | 28823 | 24.5 | 5.8 | 5.9 | Flare running (changed chart paper) |
| 4/27/2021 | Tuesday | | | | | | | | | 28913 | 28838 | | | | |
| 4/28/2021 | Wednesday | | | | | | | | | 28928 | 28853 | | | | |
| 4/29/2021 | Thursday | | | | | | | | | 28942 | 28867 | | | | |
| 4/30/2021 | Friday | | | | | | | | | 28957 | 28882 | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | AVG | 203 | 31.9 | 1.6 | TOTAL | 375 | 375 | | | | |
| | | | | | | TOTAL MONTHLY SCF | | | | | | | | | |
| | | | | | | 4,567,705 | | | | | | | | | |

**COMMENTS**

DNR - Did Not Run Flare SD shutdown

No Readings on weekends and holidays unless noted

(1) fault alarm CGD-1 repaired reprogrammed (2) shutdown low flare temperature (3) shutdown due to power outage (4) alarm cleared (5) CGD trouble (6) UV/IR in "fault (7) Flame fail (8) MTC fail (9) Thermocouple replaced

# FORM LGM-2
## MONTHLY MONITORING ACTIVITIES CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## APRIL 2021

| | |
|---|---|
| **Date: April 19, 2021** | **Inspected by: M Byk** |
| **Clear** | **Temperature: 55-60 degree. F** |
| **Barometric Pressure (Hg): 29.85** | |

| | MONITORING TASK | INSPECT | REMARKS |
|---|---|---|---|
| **Gauges** | **Blower Vacuum (in. WC)** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Flow Transmitter (SCFM)** | | |
| | FT-301 | √ | Checked Weekly |
| | FT-302 | √ | Checked Weekly |
| | **Field Inlet Temperature (◦F)** | | |
| | TI-301 | √ | Checked Weekly |
| | TI-302 | √ | Checked Weekly |
| | **Pressure Differential Indicator** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-301 | √ | Checked Weekly |
| | PI-302 | √ | Checked Weekly |
| | **Blower Inlet Temperature (◦F)** | | |
| | TI-303 | √ | Checked Weekly |
| | TI-304 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-303 | √ | Checked Weekly |
| | PI-304 | √ | Checked Weekly |
| | **Blower Discharge Temperature (◦F)** | | |
| | TI-305 | √ | Checked Weekly |
| | TI-306 | √ | Checked Weekly |
| | **Flow Transmitter Totalizer (SCFM)** | | |
| | FT-303 | √ | Checked Weekly |
| | **FAU - TDL Gas Analyzer** | √ | Checked Weekly |
| | %CH4 (0-100%) | √ | Checked Weekly |
| | CO2 (0-100%0 | √ | Checked Weekly |
| | O2 (0-25%) | √ | Checked Weekly |
| **CP** | **Control Panel/ PLC Analog Data** | | |
| | Landfill Vacuum (in. WC) | √ | Checked Weekly |
| | Flow (SCFM) | √ | Checked Weekly |
| | Blower 301 hrs. | √ | greased on 4/19/21 |
| | Blower 302 hrs. | √ | greased on 4/19/21 |
| | Flare Temperature (◦F) | √ | Checked Weekly |
| | LFG % Methane | √ | Checked Weekly |
| | LFG % Oxygen | √ | Checked Weekly |
| | Area LEL | √ | Checked Weekly |
| | Blower Frequency (Hz) | √ | Checked Weekly |
| | Blower (Amps) | √ | Checked Weekly |

# FORM LGM-3
## INSPECTION CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

| Date: April 19, 2021 | | | | Inspected By: M. BYK |
|---|---|---|---|---|
| **INSPECTION TASK** | **LOCATION** | | | **REMARKS** |
| **Daily** | **Blower 301** | **Blower 302** | **Flare** | |
| Visibly Inspect the Unit - repair leaks and loose wires | -- | -- | √ | 4/19/2021 |
| Test Lamps by Pushing the Run Lamp and Alarm Shutdown | -- | -- | √ | 4/19/2021 |
| Inspect Power Distribution System | -- | -- | √ | 4/19/2021 |
| **Weekly** | **Blower 301** | **Blower 302** | **Flare** | |
| Rotate Shafts on Blowers | -- | -- | -- | |
| Blowers are running no need to rotate | √ | √ | -- | 4/19/2021 |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| **Monthly** | **Gas Well Vaults No.** | | | |
| Well Casings, Valves, Instruments, Piping | √ | | | 4/19/2021 |
| Odors, High Gas Readings, | √ | | | 4/19/2021 |
| Dead Vegetation, Settlement | √ | | | 4/19/2021 |
| Vandalism, Damage, Destruction | √ | | | 4/19/2021 |
| Settling, Deterioration of Base | √ | | | 4/19/2021 |
| Fading of Labels, Nesting insects | √ | | | 4/19/2021 |
| Check Condensate Drains | √ | | | 4/19/2021 |
| Bolted Lids | √ | | | 4/19/2021 |
| **Quarterly** | **Blower 301** | **Blower 302** | **Flare** | |
| Lubricate Blowers / Check by Testing Hand and Auto Position | √ | √ | -- | 4/19/2021 |
| Inspect Ignitor Gap, Wiring,Pilot, Thermocouple Voltage | -- | -- | √ | 4/19/2021 |
| Shut Down Valve FV-301 | √ | √ | √ | 4/19/2021 |
| Zero out Pressure, Delta Pressure, and Vacuum Gauges | √ | √ | √ | 4/19/2021 |
| Remove Debris in 8" Blind Flange Inspection Port | √ | √ | √ | 4/19/2021 |
| Test Louvers | √ | √ | √ | 4/19/2021 |
| Test Pilot Fail Shutdown | √ | √ | √ | 4/19/2021 |
| Test Flame Fail Shutdown | √ | √ | √ | 4/19/2021 |
| Test Low Temperature Shutdown | √ | √ | √ | 4/19/2021 |
| **Semi- Annual** | **Gas Well Vaults No.** | | | |
| Open Wellhead Vaults Check for Mechanical Issues | | | | |
| Inspect All Fittings | | | | |
| Open Condensate Drain Hatch and Inspect | | | | |
| **Annual** | **Gas Well Vaults No.** | **Flare** | | |
| Open and Close Throttling Valve | | | | |
| Inspect Sampling Port, Quick Connect Fittings | | | | |
| Inspect Air Flow Rates of all Landfill Pipe Sections | | | | |
| Shut Flare Down: | | | | |
| Check for Loose Bolts on Structure and Flanges | | | | |
| Check Chart Recorder Configuration Sheets Against Actual Secttings to Confirm no Alterations | | | | |
| **COMMENTS** | | | | |
| Block valve has been replaced and unit is running normal. | | | | |
| | | | | |

# FORM LFG-1
## INSPECTION CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

| | | | |
|---|---|---|---|
| **April 26, 2021** | | | **Inspected by : M BYK** |
| **Weather : Clear** | | | **Temperature (deg. F): 55-60 deg. F** |
| | | | **Humidity (%): 50** |
| **MONITORING TASK** | | | **75** |
| **1** | **Flare Piping** | | Checked Weekly |
| | Bolts secure | √ | |
| | Paint | √ | |
| **2** | **Manual Valves** | | Checked Weekly |
| | Normally Open | √ | |
| **3** | **Propane Gas** | | Checked Weekly |
| | Available - (regulator open) | √ | |
| **4** | **Nitrogen Gas** | | Checked Weekly |
| | Open Valve- Check Quantity | √ | |
| **5** | **Blowers** | | Checked Daily - Greased 1/19/21 |
| | Turn Manually (≤ 32◦F) | √ | |
| **6** | **Alarms (Clear)** | | Checked Weekly |
| | Combustible Gas Detectors | √ | Checked Weekly FDNY 9/22/20 |
| | Sharp Eye IR/UV | √ | Checked weekly Replaced unit 301 on 10/2/2019 w/FDNY |
| | FACP - System Normal | √ | ( Annual FDNY Inspection by SG 9/22/20 |
| | Power | √ | Checked Weekly |
| **7** | **Gas Analyzer** | | Weekly |
| | % Methane available (25-50%) | √ | Weekly |
| | % Oxygen ( ≤ 5%) | √ | Weekly |
| | check valve | √ | Weekly |
| **8** | **PERIMETER, FENCE, GATES & LOCKS** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Debris | √ | Checked Weekly |
| | Fence Damage | √ | Checked Weekly |
| | Gate Alignment and Swing Action | √ | Checked Weekly |
| | Fire Extinguishers | √ | Checked Weekly |
| | Yard Hydrants (2) | √ | Checked Weekly Tested 9/22/20 |
| | Large Fire Boss | √ | Checked Weekly |
| | Lock Lubrication and Function | √ | Checked Weekly |
| **9** | **PLC Cabinet** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Power Supply | √ | Checked Weekly |
| | Test Lamps | √ | Checked Weekly |
| | Circular Chart | √ | Checked Weekly |
| | Louvers Open | √ | Checked Weekly |
| | "Auto"Start | √ | Checked Weekly |
| | Purge Motor | √ | Checked Weekly |
| | Louvers Close / Pilot | √ | Checked Weekly |
| | Blowers Activated | √ | Checked Weekly |
| | Shutdown Valve Open | √ | Checked Weekly |
| | Manually Adjust Louvers (optional) | √ | Checked Weekly |
| | Autodialer Activated | √ | Checked Weekly |

**FORM DP-1**
**LANDFILL GAS MANAGEMENT SYSTEM**
**APRIL 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 10/21/20 | Well C-29 | Lid hooks bars damaged | New encasement lids to be ordered. |
| 11/25/20 | Well A-9,13,17 | Temp Probe replacement needed | New temp probes to be ordered. |
| 1/4/21 | Flare panel | Chart paper needed | New chart paper to be ordered. |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Date:** 4/26/21

**Inspected By:** R. Bowden

**Signature:** RC Bowden

**FORM LGM-1**
**FLARE STATION MONTHLY OPERATION SUMMARY**
**LANDFILL GAS MANAGEMENT**
**MAY 2021**
**BROOKFIELD AVENUE LANDFILL**

| Date | Day | Time | Vac (in. of H20) | Blower 301 (SCFM) | Blower 302 (SCFM) | Total SCFM | % CH4 | % O2 | Temperature (°F) | Blower 301 (hrs) | Blower 302 (hrs) | Blower Frequency (Hz) | Blower 301 (Amps) | Blower 302 (Amps) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/1/2021 | Saturday | | | | | | | | | 28972 | 28897 | | | | |
| 5/2/2021 | Sunday | | | | | | | | | 28987 | 28912 | | | | |
| 5/3/2021 | Monday | | | | | | | | | 29001 | 28926 | | | | |
| 5/4/2021 | Tuesday | | | | | | | | | 29016 | 28941 | | | | |
| 5/5/2021 | Wednesday | 10:05 | -5.7 | 142 | 55 | 197 | 21.0 | 5.7 | 1572 | 29031 | 28956 | 25.1 | 5.8 | 5.9 | Flare running (changed chart paper) |
| 5/6/2021 | Thursday | | | | | | | | | 29037 | 28962 | | | | |
| 5/7/2021 | Friday | | | | | | | | | 29042 | 28967 | | | | |
| 5/8/2021 | Saturday | | | | | | | | | 29048 | 28973 | | | | |
| 5/9/2021 | Sunday | | | | | | | | | 29054 | 28979 | | | | |
| 5/10/2021 | Monday | | | | | | | | | 29060 | 28985 | | | | |
| 5/11/2021 | Tuesday | | | | | | | | | 29065 | 28990 | | | | |
| 5/12/2021 | Wednesday | 10:33 | -5.2 | 137 | 50 | 187 | 23.7 | 5.2 | 1585 | 29071 | 28996 | 24.6 | 5.7 | 5.8 | Flare running (changed chart paper) |
| 5/13/2021 | Thursday | | | | | | | | | 29094 | 29023 | | | | |
| 5/14/2021 | Friday | | | | | | | | | 29118 | 29051 | | | | |
| 5/15/2021 | Saturday | | | | | | | | | 29141 | 29078 | | | | |
| 5/16/2021 | Sunday | | | | | | | | | 29165 | 29106 | | | | |
| 5/17/2021 | Monday | 7:12 | -5.2 | 130 | 49 | 179 | 24.8 | 2.2 | 1586 | 29188 | 29133 | 24.5 | 5.9 | 5.9 | Flare running (changed chart paper) |
| 5/18/2021 | Tuesday | | | | | | | | | 29200 | 29143 | | | | |
| 5/19/2021 | Wednesday | | | | | | | | | 29213 | 29153 | | | | |
| 5/20/2021 | Thursday | | | | | | | | | 29225 | 29163 | | | | |
| 5/21/2021 | Friday | | | | | | | | | 29237 | 29173 | | | | |
| 5/22/2021 | Saturday | | | | | | | | | 29250 | 29184 | | | | |
| 5/23/2021 | Sunday | | | | | | | | | 29262 | 29194 | | | | |
| 5/24/2021 | Monday | | | | | | | | | 29274 | 29204 | | | | |
| 5/25/2021 | Tuesday | | | | | | | | | 29287 | 29214 | | | | |
| 5/26/2021 | Wednesday | 7:30 | -5.3 | 141 | 54 | 195 | 29.2 | 1.8 | 1586 | 29299 | 29224 | 25.0 | 5.7 | 5.8 | Flare running (changed chart paper) |
| 5/27/2021 | Thursday | | | | | | | | | 29309 | 29234 | | | | |
| 5/28/2021 | Friday | | | | | | | | | 29320 | 29245 | | | | |
| 5/29/2021 | Saturday | | | | | | | | | 29330 | 29255 | | | | |
| 5/30/2021 | Sunday | | | | | | | | | 29341 | 29266 | | | | |
| 5/31/2021 | Monday | | | | | | | | | 29351 | 29276 | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | AVG | 189.5 | 24.7 | 3.7 | TOTAL | 379 | 379 | | | | |
| | | | | | | TOTAL MONTHLY SCF | | | | | | | | | |
| | | | | | | 4,309,072 | | | | | | | | | |

**COMMENTS**

DNR - Did Not Run Flare SD shutdown

No Readings on weekends and holidays unless noted

(1) fault alarm CGD-1 repaired reprogrammed (2) shutdown low flare temperature (3) shutdown due to power outage (4) alarm cleared (5) CGD trouble (6) UV/IR in "fault (7) Flame fail (8) MTC fail (9) Thermocouple replaced

# FORM LGM-2
## MONTHLY MONITORING ACTIVITIES CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## May-21

| | |
|---|---|
| **Date: May 26, 2021** | **Inspected by: M Byk** |
| **Rain** | **Temperature: 55-60 degree. F** |
| **Barometric Pressure (Hg): 29.70** | |

| | MONITORING TASK | INSPECT | REMARKS |
|---|---|---|---|
| **Gauges** | **Blower Vacuum (in. WC)** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Flow Transmitter (SCFM)** | | |
| | FT-301 | √ | Checked Weekly |
| | FT-302 | √ | Checked Weekly |
| | **Field Inlet Temperature (◦F)** | | |
| | TI-301 | √ | Checked Weekly |
| | TI-302 | √ | Checked Weekly |
| | **Pressure Differential Indicator** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-301 | √ | Checked Weekly |
| | PI-302 | √ | Checked Weekly |
| | **Blower Inlet Temperature (◦F)** | | |
| | TI-303 | √ | Checked Weekly |
| | TI-304 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-303 | √ | Checked Weekly |
| | PI-304 | √ | Checked Weekly |
| | **Blower Discharge Temperature (◦F)** | | |
| | TI-305 | √ | Checked Weekly |
| | TI-306 | √ | Checked Weekly |
| | **Flow Transmitter Totalizer (SCFM)** | | |
| | FT-303 | √ | Checked Weekly |
| | **FAU - TDL Gas Analyzer** | √ | Checked Weekly |
| | %CH4 (0-100%) | √ | Checked Weekly |
| | CO2 (0-100%0 | √ | Checked Weekly |
| | O2 (0-25%) | √ | Checked Weekly |
| **CP** | **Control Panel/ PLC Analog Data** | | |
| | Landfill Vacuum (in. WC) | √ | Checked Weekly |
| | Flow (SCFM) | √ | Checked Weekly |
| | Blower 301 hrs. | √ | greased on 5/26/21 |
| | Blower 302 hrs. | √ | greased on 5/26/21 |
| | Flare Temperature (◦F) | √ | Checked Weekly |
| | LFG % Methane | √ | Checked Weekly |
| | LFG % Oxygen | √ | Checked Weekly |
| | Area LEL | √ | Checked Weekly |
| | Blower Frequency (Hz) | √ | Checked Weekly |
| | Blower (Amps) | √ | Checked Weekly |

**FORM LGM-3**
**INSPECTION CHECKLIST**
**LANDFILL GAS MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| **Date: May 26, 2021** | | | | **Inspected By: M. BYK** |
|---|---|---|---|---|
| **INSPECTION TASK** | **LOCATION** | | | **REMARKS** |
| **Daily** | **Blower 301** | **Blower 302** | **Flare** | |
| Visibly Inspect the Unit - repair leaks and loose wires | -- | -- | √ | 526/2021 |
| Test Lamps by Pushing the Run Lamp and Alarm Shutdown | -- | -- | √ | 5/26/2021 |
| Inspect Power Distribution System | -- | -- | √ | 5/26/2021 |
| **Weekly** | **Blower 301** | **Blower 302** | **Flare** | |
| Rotate Shafts on Blowers | -- | -- | -- | |
| Blowers are running no need to rotate | √ | √ | -- | 5/26/2021 |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| **Monthly** | **Gas Well Vaults No.** | | | |
| Well Casings, Valves, Instruments, Piping | √ | | | 5/5/2021 |
| Odors, High Gas Readings, | √ | | | 5/5/2021 |
| Dead Vegetation, Settlement | √ | | | 5/5/2021 |
| Vandalism, Damage, Destruction | √ | | | 5/5/2021 |
| Settling, Deterioration of Base | √ | | | 5/5/2021 |
| Fading of Labels, Nesting insects | √ | | | 5/5/2021 |
| Check Condensate Drains | √ | | | 5/5/2021 |
| Bolted Lids | √ | | | 5/5/2021 |
| **Quarterly** | **Blower 301** | **Blower 302** | **Flare** | |
| Lubricate Blowers / Check by Testing Hand and Auto Position | √ | √ | -- | 5/5/2021 |
| Inspect Ignitor Gap, Wiring,Pilot, Thermocouple Voltage | -- | -- | √ | 5/5/2021 |
| Shut Down Valve FV-301 | √ | √ | √ | 5/5/2021 |
| Zero out Pressure, Delta Pressure, and Vacuum Gauges | √ | √ | √ | 5/5/2021 |
| Remove Debris in 8" Blind Flange Inspection Port | √ | √ | √ | 5/5/2021 |
| Test Louvers | √ | √ | √ | 5/5/2021 |
| Test Pilot Fail Shutdown | √ | √ | √ | 5/5/2021 |
| Test Flame Fail Shutdown | √ | √ | √ | 5/5/2021 |
| Test Low Temperature Shutdown | √ | √ | √ | 5/5/2021 |
| **Semi- Annual** | **Gas Well Vaults No.** | | | |
| Open Wellhead Vaults Check for Mechanical Issues | | | | 5/5/2021 |
| Inspect All Fittings | | | | 5/5/2021 |
| Open Condensate Drain Hatch and Inspect | | | | 5/5/2021 |
| **Annual** | **Gas Well Vaults No.** | **Flare** | | |
| Open and Close Throttling Valve | | | | |
| Inspect Sampling Port, Quick Connect Fittings | | | | |
| Inspect Air Flow Rates of all Landfill Pipe Sections | | | | |
| Shut Flare Down: | | | | |
| Check for Loose Bolts on Structure and Flanges | | | | |
| Check Chart Recorder Configuration Sheets Against Actual Secttings to Confirm no Alterations | | | | |

| **COMMENTS** |
|---|
| On 1-19-21 replaced new hoses from nitrogen tank to block valve. Also replaced heat trace surrounding the block valve due to faulty prior assembly. |
| 5/5/21 Replaced missing bolt in B-10 |
| 5/5/21 Drained low spot at e-hill |
| 5/5/21 Replaced broken valve at B-11 |
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# FORM LFG-1
## INSPECTION CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

| | | | |
|---|---|---|---|
| **May 26, 2021** | | | **Inspected by : M BYK** |
| **Weather : Rain** | | | **Temperature (deg. F): 55-60 deg. F** |
| | | | **Humidity (%): 50** |
| **MONITORING TASK** | | | **75** |
| **1** | **Flare Piping** | | Checked Weekly |
| | Bolts secure | √ | |
| | Paint | √ | |
| **2** | **Manual Valves** | | Checked Weekly |
| | Normally Open | √ | |
| **3** | **Propane Gas** | | Checked Weekly |
| | Available - (regulator open) | √ | |
| **4** | **Nitrogen Gas** | | Checked Weekly |
| | Open Valve- Check Quantity | √ | |
| **5** | **Blowers** | | Checked Daily - Greased 5/26/21 |
| | Turn Manually (≤ 32◦F) | √ | |
| **6** | **Alarms (Clear)** | | Checked Weekly |
| | Combustible Gas Detectors | √ | Checked Weekly FDNY 9/22/20 |
| | Sharp Eye IR/UV | √ | Checked weekly Replaced unit 301 on 10/2/2019 w/FDNY |
| | FACP - System Normal | √ | Annual FDNY Inspection by SG 9/22/20 |
| | Power | √ | Checked Weekly |
| **7** | **Gas Analyzer** | | Weekly |
| | % Methane available (25-50%) | √ | Weekly |
| | % Oxygen ( ≤ 5%) | √ | Weekly |
| | check valve | √ | Weekly |
| **8** | **PERIMETER, FENCE, GATES & LOCKS** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Debris | √ | Checked Weekly |
| | Fence Damage | √ | Checked Weekly |
| | Gate Alignment and Swing Action | √ | Checked Weekly |
| | Fire Extinguishers | √ | Checked Weekly |
| | Yard Hydrants (2) | √ | Checked Weekly Tested 9/22/20 |
| | Large Fire Boss | √ | Checked Weekly |
| | Lock Lubrication and Function | √ | Checked Weekly |
| **9** | **PLC Cabinet** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Power Supply | √ | Checked Weekly |
| | Test Lamps | √ | Checked Weekly |
| | Circular Chart | √ | Checked Weekly |
| | Louvers Open | √ | Checked Weekly |
| | "Auto"Start | √ | Checked Weekly |
| | Purge Motor | √ | Checked Weekly |
| | Louvers Close / Pilot | √ | Checked Weekly |
| | Blowers Activated | √ | Checked Weekly |
| | Shutdown Valve Open | √ | Checked Weekly |
| | Manually Adjust Louvers (optional) | √ | Checked Weekly |
| | Autodialer Activated | √ | Checked Weekly |

**FORM DP-1**
**LANDFILL GAS MANAGEMENT SYSTEM**
**May 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 10/21/20 | Well C-29 | Lid hooks bars damaged | New encasement lids to be ordered. |
| 11/25/20 | Well A-9,13,17 | Temp Probe replacement needed | New temp probes to be ordered. |
| 1/4/21 | Flare panel | Chart paper needed | New chart paper to be ordered. |
| 5/26/21 | Flare station | G.C Calibrated | Replaced Calibrated Device |
| | | | |
| | | | |
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**Date: 5/25/2021**

**Inspected By: R. Bowden**

**Signature:** RC Bowden

**FORM LGM-1**
**FLARE STATION MONTHLY OPERATION SUMMARY**
**LANDFILL GAS MANAGEMENT**
**JUNE 2021**
**BROOKFIELD AVENUE LANDFILL**

| Date | Day | Time | Vac (in. of H20) | Blower 301 (SCFM) | Blower 302 (SCFM) | Total SCFM | % CH4 | % O2 | Temperature (°F) | Blower 301 (hrs) | Blower 302 (hrs) | Blower Frequency (Hz) | Blower 301 (Amps) | Blower 302 (Amps) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/1/2021 | Tuesday | | | | | | | | | 28972 | 28897 | | | | |
| 6/2/2021 | Wednesday | | | | | | | | | 28987 | 28912 | | | | |
| 6/3/2021 | Thursday | 7:46 | -5.5 | 175 | 63 | 238 | 46.3 | 0.2 | 1586 | 29001 | 28926 | 26.9 | 5.9 | 6.2 | |
| 6/4/2021 | Friday | | | | | | | | | 29016 | 28941 | | | | |
| 6/5/2021 | Saturday | | | | | | | | | 29031 | 28956 | | | | |
| 6/6/2021 | Sunday | | | | | | | | | 29037 | 28962 | | | | |
| 6/7/2021 | Monday | | | | | | | | | 29042 | 28967 | | | | |
| 6/8/2021 | Tuesday | 6:53 | -5.5 | 172 | 59 | 231 | 43.3 | 0.2 | 1697 | 29048 | 28973 | 26.8 | 6.3 | 6.4 | |
| 6/9/2021 | Wednesday | | | | | | | | | 29054 | 28979 | | | | |
| 6/10/2021 | Thursday | | | | | | | | | 29060 | 28985 | | | | |
| 6/11/2021 | Friday | | | | | | | | | 29065 | 28990 | | | | |
| 6/12/2021 | Saturday | | | | | | | | | 29071 | 28996 | | | | |
| 6/13/2021 | Sunday | | | | | | | | | 29094 | 29023 | | | | |
| 6/14/2021 | Monday | | | | | | | | | 29118 | 29051 | | | | |
| 6/15/2021 | Tuesday | | | | | | | | | 29141 | 29078 | | | | |
| 6/16/2021 | Wednesday | | | | | | | | | 29165 | 29106 | | | | |
| 6/17/2021 | Thursday | 6:41 | -5.5 | 133 | 50 | 183 | 26.6 | 1.6 | 1593 | 29188 | 29133 | 24.8 | 5.7 | 5.8 | |
| 6/18/2021 | Friday | | | | | | | | | 29200 | 29143 | | | | |
| 6/19/2021 | Saturday | | | | | | | | | 29213 | 29153 | | | | |
| 6/20/2021 | Sunday | | | | | | | | | 29225 | 29163 | | | | |
| 6/21/2021 | Monday | | | | | | | | | 29237 | 29173 | | | | |
| 6/22/2021 | Tuesday | | | | | | | | | 29250 | 29184 | | | | |
| 6/23/2021 | Wednesday | | | | | | | | | 29262 | 29194 | | | | |
| 6/24/2021 | Thursday | | | | | | | | | 29274 | 29204 | | | | |
| 6/25/2021 | Friday | 6:52 | -5.8 | 153 | 63 | 216 | 30.1 | 0.2 | 1577 | 29287 | 29214 | 26.2 | 5.9 | 6.0 | |
| 6/26/2021 | Saturday | | | | | | | | | 29299 | 29224 | | | | |
| 6/27/2021 | Sunday | | | | | | | | | 29309 | 29234 | | | | |
| 6/28/2021 | Monday | | | | | | | | | 29320 | 29245 | | | | |
| 6/29/2021 | Tuesday | | | | | | | | | 29330 | 29255 | | | | |
| 6/30/2021 | Wednesday | | | | | | | | | 29341 | 29266 | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | AVG | 217.0 | 36.6 | 0.6 | TOTAL | 393 | 393 | | | | |
| | | | | | | TOTAL MONTHLY SCF | | | | | | | | | |
| | | | | | | 5,116,860 | | | | | | | | | |

**COMMENTS**

DNR - Did Not Run Flare SD shutdown

No Readings on weekends and holidays unless noted

(1) fault alarm CGD-1 repaired reprogrammed (2) shutdown low flare temperature (3) shutdown due to power outage (4) alarm cleared (5) CGD trouble (6) UV/IR in "fault (7) Flame fail (8) MTC fail (9) Thermocouple replaced

# FORM LGM-2
## MONTHLY MONITORING ACTIVITIES CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## June-21

| | |
|---|---|
| **Date:6-8-21** | **Inspected by: M Byk** |
| **Rain** | **Temperature: 70-75 degree. F** |
| **Barometric Pressure (Hg): 30.07** | |

| | MONITORING TASK | INSPECT | REMARKS |
|---|---|---|---|
| **Gauges** | **Blower Vacuum (in. WC)** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Flow Transmitter (SCFM)** | | |
| | FT-301 | √ | Checked Weekly |
| | FT-302 | √ | Checked Weekly |
| | **Field Inlet Temperature (◦F)** | | |
| | TI-301 | √ | Checked Weekly |
| | TI-302 | √ | Checked Weekly |
| | **Pressure Differential Indicator** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-301 | √ | Checked Weekly |
| | PI-302 | √ | Checked Weekly |
| | **Blower Inlet Temperature (◦F)** | | |
| | TI-303 | √ | Checked Weekly |
| | TI-304 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-303 | √ | Checked Weekly |
| | PI-304 | √ | Checked Weekly |
| | **Blower Discharge Temperature (◦F)** | | |
| | TI-305 | √ | Checked Weekly |
| | TI-306 | √ | Checked Weekly |
| | **Flow Transmitter Totalizer (SCFM)** | | |
| | FT-303 | √ | Checked Weekly |
| | **FAU - TDL Gas Analyzer** | √ | Checked Weekly |
| | %CH4 (0-100%) | √ | Checked Weekly |
| | CO2 (0-100%0 | √ | Checked Weekly |
| | O2 (0-25%) | √ | Checked Weekly |
| **CP** | **Control Panel/ PLC Analog Data** | | |
| | Landfill Vacuum (in. WC) | √ | Checked Weekly |
| | Flow (SCFM) | √ | Checked Weekly |
| | Blower 301 hrs. | √ | greased on 1/19/21 |
| | Blower 302 hrs. | √ | greased on 1/19/21 |
| | Flare Temperature (◦F) | √ | Checked Weekly |
| | LFG % Methane | √ | Checked Weekly |
| | LFG % Oxygen | √ | Checked Weekly |
| | Area LEL | √ | Checked Weekly |
| | Blower Frequency (Hz) | √ | Checked Weekly |
| | Blower (Amps) | √ | Checked Weekly |

**FORM LGM-3**
**INSPECTION CHECKLIST**
**LANDFILL GAS MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| **Date: June 08 2021** | | | | **Inspected By: M. BYK** |
|---|---|---|---|---|
| **INSPECTION TASK** | **LOCATION** | | | **REMARKS** |
| **Daily** | **Blower 301** | **Blower 302** | **Flare** | |
| Visibly Inspect the Unit - repair leaks and loose wires | -- | -- | √ | 6/8/2021 |
| Test Lamps by Pushing the Run Lamp and Alarm Shutdown | -- | -- | √ | 6/8/2021 |
| Inspect Power Distribution System | -- | -- | √ | 6/8/2021 |
| **Weekly** | **Blower 301** | **Blower 302** | **Flare** | |
| Rotate Shafts on Blowers | -- | -- | -- | |
| Blowers are running no need to rotate | √ | √ | -- | 6/8/2021 |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| **Monthly** | **Gas Well Vaults No.** | | | |
| Well Casings, Valves, Instruments, Piping | √ | | | 6/8/2021 |
| Odors, High Gas Readings, | √ | | | 6/8/2021 |
| Dead Vegetation, Settlement | √ | | | 6/8/2021 |
| Vandalism, Damage, Destruction | √ | | | 6/8/2021 |
| Settling, Deterioration of Base | √ | | | 6/8/2021 |
| Fading of Labels, Nesting insects | √ | | | 6/8/2021 |
| Check Condensate Drains | √ | | | 6/8/2021 |
| Bolted Lids | √ | | | 6/8/2021 |
| **Quarterly** | **Blower 301** | **Blower 302** | **Flare** | |
| Lubricate Blowers / Check by Testing Hand and Auto Position | √ | √ | -- | 5/5/2021 |
| Inspect Ignitor Gap, Wiring,Pilot, Thermocouple Voltage | -- | -- | √ | 5/5/2021 |
| Shut Down Valve FV-301 | √ | √ | √ | 5/5/2021 |
| Zero out Pressure, Delta Pressure, and Vacuum Gauges | √ | √ | √ | 5/5/2021 |
| Remove Debris in 8" Blind Flange Inspection Port | √ | √ | √ | 5/5/2021 |
| Test Louvers | √ | √ | √ | 5/5/2021 |
| Test Pilot Fail Shutdown | √ | √ | √ | 5/5/2021 |
| Test Flame Fail Shutdown | √ | √ | √ | 5/5/2021 |
| Test Low Temperature Shutdown | √ | √ | √ | 5/5/2021 |
| **Semi- Annual** | **Gas Well Vaults No.** | | | |
| Open Wellhead Vaults Check for Mechanical Issues | | | | 5/5/2021 |
| Inspect All Fittings | | | | 5/5/2021 |
| Open Condensate Drain Hatch and Inspect | | | | 5/5/2021 |
| **Annual** | **Gas Well Vaults No.** | **Flare** | | |
| Open and Close Throttling Valve | | | | |
| Inspect Sampling Port, Quick Connect Fittings | | | | |
| Inspect Air Flow Rates of all Landfill Pipe Sections | | | | |
| Shut Flare Down: | | | | |
| Check for Loose Bolts on Structure and Flanges | | | | |
| Check Chart Recorder Configuration Sheets Against Actual Secttings to Confirm no Alterations | | | | |

**COMMENTS**

On 1-19-21 replaced new hoses from nitrogen tank to block valve. Also replaced heat trace surrounding the block valve due to faulty prior assembly.

5/5/21 Replaced missing bolt in B-10

5/5/21 Drained low spot at e-hill

5/5/21 Replaced broken valve at B-11

# FORM LFG-1
## INSPECTION CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

| | | | |
|---|---|---|---|
| **6/8/2021** | | | **Inspected by : M BYK** |
| **Weather : Clear** | | | **Temperature (deg. F): 70-75 deg. F** |
| | | | **Humidity (%): 50** |
| **MONITORING TASK** | | | **DATE** |
| **1** | **Flare Piping** | | Checked Weekly |
| | Bolts secure | √ | |
| | Paint | √ | |
| **2** | **Manual Valves** | | Checked Weekly |
| | Normally Open | √ | |
| **3** | **Propane Gas** | | Checked Weekly |
| | Available - (regulator open) | √ | |
| **4** | **Nitrogen Gas** | | Checked Weekly |
| | Open Valve- Check Quantity | √ | |
| **5** | **Blowers** | | Checked Daily - Greased 1/19/21 |
| | Turn Manually (≤ 32◦F) | √ | |
| **6** | **Alarms (Clear)** | | Checked Weekly |
| | Combustible Gas Detectors | √ | Checked Weekly FDNY 9/22/20 |
| | Sharp Eye IR/UV | √ | Checked weekly Replaced unit 301 on 10/2/2019 w/FDNY |
| | FACP - System Normal | √ | ( Annual FDNY Inspection by SG 9/22/20 |
| | Power | √ | Checked Weekly |
| **7** | **Gas Analyzer** | | Weekly |
| | % Methane available (25-50%) | √ | Weekly |
| | % Oxygen ( ≤ 5%) | √ | Weekly |
| | check valve | √ | Weekly |
| **8** | **PERIMETER, FENCE, GATES & LOCKS** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Debris | √ | Checked Weekly |
| | Fence Damage | √ | Checked Weekly |
| | Gate Alignment and Swing Action | √ | Checked Weekly |
| | Fire Extinguishers | √ | Checked Weekly Expired (Inspection scheduled |
| | Yard Hydrants (2) | √ | Checked Weekly Tested 9/22/20 |
| | Large Fire Boss | √ | Checked Weekly |
| | Lock Lubrication and Function | √ | Checked Weekly |
| **9** | **PLC Cabinet** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Power Supply | √ | Checked Weekly |
| | Test Lamps | √ | Checked Weekly |
| | Circular Chart | √ | Checked Weekly |
| | Louvers Open | √ | Checked Weekly |
| | "Auto"Start | √ | Checked Weekly |
| | Purge Motor | √ | Checked Weekly |
| | Louvers Close / Pilot | √ | Checked Weekly |
| | Blowers Activated | √ | Checked Weekly |
| | Shutdown Valve Open | √ | Checked Weekly |
| | Manually Adjust Louvers (optional) | √ | Checked Weekly |
| | Autodialer Activated | √ | Checked Weekly |

# FORM DP-1
## LANDFILL GAS MANAGEMENT SYSTEM
## June 2021
## DESCRIPTION OF DEFICIENCIES AND PROBLEMS
## BROOKFIELD AVENUE LANDFILL

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 10/21/20 | Well C-27 | No bolts on vault | |
| 10/21/20 | Well C-29 | Lid hooks bars damaged | |
| 11/25/20 | Well A-9,13,17 | Temp Probe replacement needed | |
| 12/2/20 | Flare station | Hydrogen tanks needed | (2) Delivered 12/29/20 |
| 1/4/21 | Flare panel | Chart paper needed | |
| 1/25/21 | C-Paper/Nitrogen Tank | Paper needed/Nitrogen Refill | Paper inside cabinet. |
| 2/5/21 | Flare station | Block valve troubleshoot | Solenoid replacement needed. |
| 3/10/21 | Flare station | Replaced Solenoid | Nitrogen leak repaired. |
| 5/26/21 | Flare station | G.C Calibrated | Replaced Calibrated Device |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Date:** 6/29/21

**Inspected By:** R. Bowden

**Signature:** RC Bowden

**FORM LGM-1**
**FLARE STATION MONTHLY OPERATION SUMMARY**
**LANDFILL GAS MANAGEMENT**
**JULY 2021**
**BROOKFIELD AVENUE LANDFILL**

| Date | Day | Time | Vac (in. of H20) | Blower 301 (SCFM) | Blower 302 (SCFM) | Total SCFM | % CH4 | % O2 | Temperature (°F) | Blower 301 (hrs) | Blower 302 (hrs) | Blower Frequency (Hz) | Blower 301 (Amps) | Blower 302 (Amps) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/1/2021 | Thursday | 8:07 | -5.4 | 174 | | 188 | 25.3 | 2.1 | 1570 | 29815 | 29740 | 25.1 | 5.6 | 5.7 | Flare running (changed chart paper) |
| 7/2/2021 | Friday | | | | | | | | | 29839 | 29764 | | | | |
| 7/3/2021 | Saturday | | | | | | | | | 29863 | 29788 | | | | |
| 7/4/2021 | Sunday | | | | | | | | | 29887 | 29712 | | | | |
| 7/5/2021 | Monday | | | | | | | | | 29900 | 29824 | | | | |
| 7/6/2021 | Tuesday | | | | | | | | | 29900 | 29824 | | | | |
| 7/7/2021 | Wednesday | | | | | | | | | 29900 | 29824 | | | | |
| 7/8/2021 | Thursday | | | | | | | | | 29900 | 29824 | | | | |
| 7/9/2021 | Friday | 7:17 | -5.0 | 169 | | 246 | 41.6 | 0.3 | 1726 | 29900 | 29825 | 26.8 | 6.4 | 6.1 | Flare restarted at arrival(changed chart paper) |
| 7/10/2021 | Saturday | | | | | | | | | 29926 | 29850 | | | | |
| 7/11/2021 | Sunday | | | | | | | | | 29949 | 29874 | | | | |
| 7/12/2021 | Monday | | | | | | | | | 29949 | 29874 | | | | |
| 7/13/2021 | Tuesday | | | | | | | | | 29972 | 29897 | | | | |
| 7/14/2021 | Wednesday | | | | | | | | | 29996 | 29921 | | | | |
| 7/15/2021 | Thursday | | | | | | | | | 30020 | 29945 | | | | |
| 7/16/2021 | Friday | 6:54 | -5.2 | 129 | | 183 | 28.1 | 1.2 | 1592 | 30042 | 29967 | 24.8 | 5.8 | 5.8 | Flare running (changed chart paper) |
| 7/17/2021 | Saturday | | | | | | | | | 30068 | 29993 | | | | |
| 7/18/2021 | Sunday | | | | | | | | | 30092 | 30041 | | | | |
| 7/19/2021 | Monday | | | | | | | | | 30116 | 30041 | | | | |
| 7/20/2021 | Tuesday | 6:55 | -5.3 | 128 | | 184 | 26.7 | 1.1 | 1577 | 30138 | 30063 | 24.8 | 5.9 | 5.8 | Flare running (changed chart paper) |
| 7/21/2021 | Wednesday | | | | | | | | | 30164 | 30089 | | | | |
| 7/22/2021 | Thursday | | | | | | | | | 30178 | 30102 | | | | |
| 7/1/1932 | Friday | | | | | | | | | 30178 | 30102 | | | | |
| 7/24/2021 | Saturday | | | | | | | | | 30178 | 30102 | | | | |
| 7/25/2021 | Sunday | | | | | | | | | 30178 | 30102 | | | | |
| 7/26/2021 | Monday | | | | | | | | | 30178 | 30102 | | | | |
| 7/27/2021 | Tuesday | | | | | | | | | 30178 | 30102 | | | | |
| 7/28/2021 | Wednesday | 7:21 | -5.6 | 161 | | 228 | 41.9 | 0.2 | 1569 | 30178 | 30103 | 26.7 | 6.0 | 6.1 | Flare restarted at arrival(changed chart paper) |
| 7/29/2021 | Thursday | | | | | | | | | 30203 | 30128 | | | | |
| 7/30/2021 | Friday | | | | | | | | | 30227 | 30152 | | | | |
| 7/31/2021 | Saturday | | | | | | | | | 30251 | 30176 | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | AVG | 205.8 | 32.7 | 1.0 | TOTAL | 436 | 436 | | | | |
| | | | | | | TOTAL MONTHLY SCF | | | | | | | | | |
| | | | | | | 5,383,728 | | | | | | | | | |

**COMMENTS**

DNR - Did Not Run Flare SD shutdown

No Readings on weekends and holidays unless noted

(1) fault alarm CGD-1 repaired reprogrammed (2) shutdown low flare temperature (3) shutdown due to power outage (4) alarm cleared (5) CGD trouble (6) UV/IR in "fault (7) Flame fail (8) MTC fail (9) Thermocouple replaced

# FORM LGM-2
## MONTHLY MONITORING ACTIVITIES CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## July-21

| | |
|---|---|
| **Date:7-28-21** | **Inspected by: M Byk** |
| **Partly Cloudy** | **Temperature: 70-75 degree. F** |
| **Barometric Pressure (Hg): 30.00** | |

| | MONITORING TASK | INSPECT | REMARKS |
|---|---|---|---|
| **Gauges** | **Blower Vacuum (in. WC)** | | |
| | PDI-301 | √ | Checked Weekly |
| | PD!-302 | √ | Checked Weekly |
| | **Flow Transmitter (SCFM)** | | |
| | FT-301 | √ | Checked Weekly |
| | FT-302 | √ | Checked Weekly |
| | **Field Inlet Temperature (◦F)** | | |
| | TI-301 | √ | Checked Weekly |
| | TI-302 | √ | Checked Weekly |
| | **Pressure Differential Indicator** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-301 | √ | Checked Weekly |
| | PI-302 | √ | Checked Weekly |
| | **Blower Inlet Temperature (◦F)** | | |
| | TI-303 | √ | Checked Weekly |
| | TI-304 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-303 | √ | Checked Weekly |
| | PI-304 | √ | Checked Weekly |
| | **Blower Discharge Temperature (◦F)** | | |
| | TI-305 | √ | Checked Weekly |
| | TI-306 | √ | Checked Weekly |
| | **Flow Transmitter Totalizer (SCFM)** | | |
| | FT-303 | √ | Checked Weekly |
| | **FAU - TDL Gas Analyzer** | √ | Checked Weekly |
| | %CH4 (0-100%) | √ | Checked Weekly |
| | CO2 (0-100%0 | √ | Checked Weekly |
| | O2 (0-25%) | √ | Checked Weekly |
| **CP** | **Control Panel/ PLC Analog Data** | | |
| | Landfill Vacuum (in. WC) | √ | Checked Weekly |
| | Flow (SCFM) | √ | Checked Weekly |
| | Blower 301 hrs. | √ | greased on 1/19/21 |
| | Blower 302 hrs. | √ | greased on 1/19/21 |
| | Flare Temperature (◦F) | √ | Checked Weekly |
| | LFG % Methane | √ | Checked Weekly |
| | LFG % Oxygen | √ | Checked Weekly |
| | Area LEL | √ | Checked Weekly |
| | Blower Frequency (Hz) | √ | Checked Weekly |
| | Blower (Amps) | √ | Checked Weekly |

**FORM LGM-3**
**INSPECTION CHECKLIST**
**LANDFILL GAS MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| **Date: July 28 2021** | | | | **Inspected By: M. BYK** |
|---|---|---|---|---|
| **INSPECTION TASK** | **LOCATION** | | | **REMARKS** |
| **Daily** | **Blower 301** | **Blower 302** | **Flare** | |
| Visibly Inspect the Unit - repair leaks and loose wires | -- | -- | √ | 7/28/2021 |
| Test Lamps by Pushing the Run Lamp and Alarm Shutdown | -- | -- | √ | 7/28/2021 |
| Inspect Power Distribution System | -- | -- | √ | 7/28/2021 |
| **Weekly** | **Blower 301** | **Blower 302** | **Flare** | |
| Rotate Shafts on Blowers | -- | -- | -- | |
| Blowers are running no need to rotate | √ | √ | -- | 7/28/2021 |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| **Monthly** | **Gas Well Vaults No.** | | | |
| Well Casings, Valves, Instruments, Piping | √ | | | 7/28/2021 |
| Odors, High Gas Readings, | √ | | | 7/28/2021 |
| Dead Vegetation, Settlement | √ | | | 7/28/2021 |
| Vandalism, Damage, Destruction | √ | | | 7/28/2021 |
| Settling, Deterioration of Base | √ | | | 7/28/2021 |
| Fading of Labels, Nesting insects | √ | | | 7/28/2021 |
| Check Condensate Drains | √ | | | 7/28/2021 |
| Bolted Lids | √ | | | 7/28/2021 |
| **Quarterly** | **Blower 301** | **Blower 302** | **Flare** | |
| Lubricate Blowers / Check by Testing Hand and Auto Position | √ | √ | -- | 7/28/2021 |
| Inspect Ignitor Gap, Wiring,Pilot, Thermocouple Voltage | -- | -- | √ | 7/28/2021 |
| Shut Down Valve FV-301 | √ | √ | √ | 7/28/2021 |
| Zero out Pressure, Delta Pressure, and Vacuum Gauges | √ | √ | √ | 7/28/2021 |
| Remove Debris in 8" Blind Flange Inspection Port | √ | √ | √ | 7/28/2021 |
| Test Louvers | √ | √ | √ | 7/28/2021 |
| Test Pilot Fail Shutdown | √ | √ | √ | 7/28/2021 |
| Test Flame Fail Shutdown | √ | √ | √ | 7/28/2021 |
| Test Low Temperature Shutdown | √ | √ | √ | 7/28/2021 |
| **Semi- Annual** | **Gas Well Vaults No.** | | | |
| Open Wellhead Vaults Check for Mechanical Issues | | | | 8/4/2021 |
| Inspect All Fittings | | | | 8/4/2021 |
| Open Condensate Drain Hatch and Inspect | | | | 8/4/2021 |
| **Annual** | **Gas Well Vaults No.** | **Flare** | | |
| Open and Close Throttling Valve | | | | |
| Inspect Sampling Port, Quick Connect Fittings | | | | |
| Inspect Air Flow Rates of all Landfill Pipe Sections | | | | |
| Shut Flare Down: | | | | |
| Check for Loose Bolts on Structure and Flanges | | | | |
| Check Chart Recorder Configuration Sheets Against Actual Secttings to Confirm no Alterations | | | | |

| **COMMENTS** |
|---|
| On 1-19-21 replaced new hoses from nitrogen tank to block valve. Also replaced heat trace surrounding the block valve due to faulty prior assembly. |
| 5/5/21 Replaced missing bolt in B-10 |
| 5/5/21 Drained low spot at e-hill |
| 5/5/21 Replaced broken valve at B-11 |
| 8/4/21 Drained low spot at e-hill |
| |
| |
| |
| |

# FORM LFG-1
## INSPECTION CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

| | | | |
|---|---|---|---|
| **7/28/2021** | | | **Inspected by : M BYK** |
| **Weather : Partly Cloudy** | | | **Temperature (deg. F): 70-75 deg. F** |
| | | | **Humidity (%): 50** |
| **MONITORING TASK** | | | **DATE** |
| **1** | **Flare Piping** | | Checked Weekly |
| | Bolts secure | √ | |
| | Paint | √ | |
| **2** | **Manual Valves** | | Checked Weekly |
| | Normally Open | √ | |
| **3** | **Propane Gas** | | Checked Weekly |
| | Available - (regulator open) | √ | |
| **4** | **Nitrogen Gas** | | Checked Weekly |
| | Open Valve- Check Quantity | √ | |
| **5** | **Blowers** | | Checked Daily - Greased 1/19/21 |
| | Turn Manually (≤ 32◦F) | √ | |
| **6** | **Alarms (Clear)** | | Checked Weekly |
| | Combustible Gas Detectors | √ | Checked Weekly FDNY 9/22/20 |
| | Sharp Eye IR/UV | √ | Checked weekly Replaced unit 301 on 10/2/2019 w/FDNY |
| | FACP - System Normal | √ | ( Annual FDNY Inspection by SG 9/22/20 |
| | Power | √ | Checked Weekly |
| **7** | **Gas Analyzer** | | Weekly |
| | % Methane available (25-50%) | √ | Weekly |
| | % Oxygen ( ≤ 5%) | √ | Weekly |
| | check valve | √ | Weekly |
| **8** | **PERIMETER, FENCE, GATES & LOCKS** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Debris | √ | Checked Weekly |
| | Fence Damage | √ | Checked Weekly |
| | Gate Alignment and Swing Action | √ | Checked Weekly |
| | Fire Extinguishers | √ | Checked Weekly Expired (Inspection scheduled |
| | Yard Hydrants (2) | √ | Checked Weekly Tested 9/22/20 |
| | Large Fire Boss | √ | Checked Weekly |
| | Lock Lubrication and Function | √ | Checked Weekly |
| **9** | **PLC Cabinet** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Power Supply | √ | Checked Weekly |
| | Test Lamps | √ | Checked Weekly |
| | Circular Chart | √ | Checked Weekly |
| | Louvers Open | √ | Checked Weekly |
| | "Auto"Start | √ | Checked Weekly |
| | Purge Motor | √ | Checked Weekly |
| | Louvers Close / Pilot | √ | Checked Weekly |
| | Blowers Activated | √ | Checked Weekly |
| | Shutdown Valve Open | √ | Checked Weekly |
| | Manually Adjust Louvers (optional) | √ | Checked Weekly |
| | Autodialer Activated | √ | Checked Weekly |

# FORM DP-1
## LANDFILL GAS MANAGEMENT SYSTEM
## July 2021
## DESCRIPTION OF DEFICIENCIES AND PROBLEMS
## BROOKFIELD AVENUE LANDFILL

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 10/21/20 | Well C-27 | No bolts on vault | |
| 10/21/20 | Well C-29 | Lid hooks bars damaged | |
| 11/25/20 | Well A-9,13,17 | Temp Probe replacement needed | |
| 12/2/20 | Flare station | Hydrogen tanks needed | (2) Delivered 12/29/20 |
| 1/4/21 | Flare panel | Chart paper needed | |
| 1/25/21 | C-Paper/Nitrogen Tank | Paper needed/Nitrogen Refill | Paper inside cabinet. |
| 2/5/21 | Flare station | Block valve troubleshoot | Solenoid replacement needed. |
| 3/10/21 | Flare station | Replaced Solenoid | Nitrogen leak repaired. |
| 5/26/21 | Flare station | G.C Calibrated | Replaced Calibrated Device |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Date: 7/28/21**

**R. Bowden**

**Signature:** RC Bowden

**FORM LGM-1**
**FLARE STATION MONTHLY OPERATION SUMMARY**
**LANDFILL GAS MANAGEMENT**
**AUGUST 2021**
**BROOKFIELD AVENUE LANDFILL**

| Date | Day | Time | Vac (in. of H20) | Blower 301 (SCFM) | Blower 302 (SCFM) | Total SCFM | % CH4 | % O2 | Temperature (°F) | Blower 301 (hrs) | Blower 302 (hrs) | Blower Frequency (Hz) | Blower 301 (Amps) | Blower 302 (Amps) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8/1/2021 | Sunday | | | | | | | | | 30255 | 30180 | | | | |
| 8/2/2021 | Monday | | | | | | | | | 30274 | 30199 | | | | |
| 8/3/2021 | Tuesday | | | | | | | | | 30294 | 30219 | | | | |
| 8/4/2021 | Wednesday | 7:25 | -5.8 | 149 | 71 | 220 | 30.9 | 0.3 | 1591 | 30313 | 30238 | 26.7 | 6.0 | 6.2 | Flare restarted at arrival(changed chart paper) |
| 8/5/2021 | Thursday | | | | | | | | | 30329 | 30254 | | | | |
| 8/6/2021 | Friday | | | | | | | | | 30346 | 30271 | | | | |
| 8/7/2021 | Saturday | | | | | | | | | 30362 | 30287 | | | | |
| 8/8/2021 | Sunday | | | | | | | | | 30378 | 30303 | | | | |
| 8/9/2021 | Monday | | | | | | | | | 30395 | 30320 | | | | |
| 8/10/2021 | Tuesday | 7:25 | -5.7 | 156 | 67 | 223 | 34.3 | 0.1 | 1576 | 30411 | 30336 | 26.7 | 5.9 | 6.0 | Flare restarted at arrival(changed chart paper) |
| 8/11/2021 | Wednesday | | | | | | | | | 30427 | 30352 | | | | |
| 8/12/2021 | Thursday | | | | | | | | | 30443 | 30368 | | | | |
| 8/13/2021 | Friday | | | | | | | | | 30459 | 30384 | | | | |
| 8/14/2021 | Saturday | | | | | | | | | 30474 | 30399 | | | | |
| 8/15/2021 | Sunday | | | | | | | | | 30490 | 30415 | | | | |
| 8/16/2021 | Monday | | | | | | | | | 30506 | 30431 | | | | |
| 8/17/2021 | Tuesday | 7:08 | -5.6 | 160 | 67 | 227 | 36.7 | 0.2 | 1600 | 30522 | 30447 | 26.6 | 5.9 | 6.0 | Flare restarted at arrival(changed chart paper) |
| 8/18/2021 | Wednesday | | | | | | | | | 30546 | 30471 | | | | |
| 8/19/2021 | Thursday | | | | | | | | | 30570 | 30495 | | | | |
| 8/20/2021 | Friday | | | | | | | | | 30594 | 30519 | | | | |
| 8/21/2021 | Saturday | | | | | | | | | 30618 | 30543 | | | | |
| 8/22/2021 | Sunday | | | | | | | | | 30642 | 30567 | | | | |
| 8/23/2021 | Monday | 7:28 | -5.4 | 134 | 61 | 195 | 28.6 | 0.9 | 1588 | 30666 | 30591 | 25.4 | 5.8 | 5.9 | Flare running (changed chart paper) |
| 8/24/2021 | Tuesday | | | | | | | | | 30673 | 30598 | | | | |
| 8/25/2021 | Wednesday | | | | | | | | | 30680 | 30605 | | | | |
| 8/26/2021 | Thursday | | | | | | | | | 30687 | 30612 | | | | |
| 8/27/2021 | Friday | | | | | | | | | 30694 | 30619 | | | | |
| 8/28/2021 | Saturday | | | | | | | | | 30702 | 30627 | | | | |
| 8/29/2021 | Sunday | | | | | | | | | 30709 | 30634 | | | | |
| 8/30/2021 | Monday | | | | | | | | | 30716 | 30641 | | | | |
| 8/31/2021 | Tuesday | | | | | | | | | 30723 | 30648 | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | AVG | 216.3 | 32.6 | 0.4 | TOTAL | 468 | 468 | | | | |
| | | | | | TOTAL MONTHLY SCF | | | | | | | | | | |
| | | | | | | 6,067,851 | | | | | | | | | |

**COMMENTS**

DNR - Did Not Run Flare SD shutdown

No Readings on weekends and holidays unless noted

(1) fault alarm CGD-1 repaired reprogrammed (2) shutdown low flare temperature (3) shutdown due to power outage (4) alarm cleared (5) CGD trouble (6) UV/IR in "fault (7) Flame fail (8) MTC fail (9) Thermocouple replaced

# FORM LGM-2
## MONTHLY MONITORING ACTIVITIES CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## August-21

| | |
|---|---|
| **Date:8-23-21** | **Inspected by: M Byk** |
| **Partly Cloudy** | **Temperature: 70-75 degree. F** |
| **Barometric Pressure (Hg): 30.00** | |

| | MONITORING TASK | INSPECT | REMARKS |
|---|---|---|---|
| **Gauges** | **Blower Vacuum (in. WC)** | | |
| | PDI-301 | √ | Checked Weekly |
| | PD!-302 | √ | Checked Weekly |
| | **Flow Transmitter (SCFM)** | | |
| | FT-301 | √ | Checked Weekly |
| | FT-302 | √ | Checked Weekly |
| | **Field Inlet Temperature (◦F)** | | |
| | TI-301 | √ | Checked Weekly |
| | TI-302 | √ | Checked Weekly |
| | **Pressure Differential Indicator** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-301 | √ | Checked Weekly |
| | PI-302 | √ | Checked Weekly |
| | **Blower Inlet Temperature (◦F)** | | |
| | TI-303 | √ | Checked Weekly |
| | TI-304 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-303 | √ | Checked Weekly |
| | PI-304 | √ | Checked Weekly |
| | **Blower Discharge Temperature (◦F)** | | |
| | TI-305 | √ | Checked Weekly |
| | TI-306 | √ | Checked Weekly |
| | **Flow Transmitter Totalizer (SCFM)** | | |
| | FT-303 | √ | Checked Weekly |
| | **FAU - TDL Gas Analyzer** | √ | Checked Weekly |
| | %CH4 (0-100%) | √ | Checked Weekly |
| | CO2 (0-100%0 | √ | Checked Weekly |
| | O2 (0-25%) | √ | Checked Weekly |
| **CP** | **Control Panel/ PLC Analog Data** | | |
| | Landfill Vacuum (in. WC) | √ | Checked Weekly |
| | Flow (SCFM) | √ | Checked Weekly |
| | Blower 301 hrs. | √ | greased on 8/23/21 |
| | Blower 302 hrs. | √ | greased on 8/23/21 |
| | Flare Temperature (◦F) | √ | Checked Weekly |
| | LFG % Methane | √ | Checked Weekly |
| | LFG % Oxygen | √ | Checked Weekly |
| | Area LEL | √ | Checked Weekly |
| | Blower Frequency (Hz) | √ | Checked Weekly |
| | Blower (Amps) | √ | Checked Weekly |

**FORM LGM-3**
**INSPECTION CHECKLIST**
**LANDFILL GAS MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| **Date: August 23 2021** | | | | **Inspected By: M. BYK** |
|---|---|---|---|---|
| **INSPECTION TASK** | **LOCATION** | | | **REMARKS** |
| **Daily** | **Blower 301** | **Blower 302** | **Flare** | |
| Visibly Inspect the Unit - repair leaks and loose wires | -- | -- | √ | 8/23/2021 |
| Test Lamps by Pushing the Run Lamp and Alarm Shutdown | -- | -- | √ | 8/23/2021 |
| Inspect Power Distribution System | -- | -- | √ | 8/23/2021 |
| **Weekly** | **Blower 301** | **Blower 302** | **Flare** | |
| Rotate Shafts on Blowers | -- | -- | -- | |
| Blowers are running no need to rotate | √ | √ | -- | 8/23/2021 |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| **Monthly** | **Gas Well Vaults No.** | | | |
| Well Casings, Valves, Instruments, Piping | √ | | | 8/23/2021 |
| Odors, High Gas Readings, | √ | | | 8/23/2021 |
| Dead Vegetation, Settlement | √ | | | 8/23/2021 |
| Vandalism, Damage, Destruction | √ | | | 8/23/2021 |
| Settling, Deterioration of Base | √ | | | 8/23/2021 |
| Fading of Labels, Nesting insects | √ | | | 8/23/2021 |
| Check Condensate Drains | √ | | | 8/23/2021 |
| Bolted Lids | √ | | | 8/23/2021 |
| **Quarterly** | **Blower 301** | **Blower 302** | **Flare** | |
| Lubricate Blowers / Check by Testing Hand and Auto Position | √ | √ | -- | 7/28/2021 |
| Inspect Ignitor Gap, Wiring,Pilot, Thermocouple Voltage | -- | -- | √ | 7/28/2021 |
| Shut Down Valve FV-301 | √ | √ | √ | 7/28/2021 |
| Zero out Pressure, Delta Pressure, and Vacuum Gauges | √ | √ | √ | 7/28/2021 |
| Remove Debris in 8" Blind Flange Inspection Port | √ | √ | √ | 7/28/2021 |
| Test Louvers | √ | √ | √ | 7/28/2021 |
| Test Pilot Fail Shutdown | √ | √ | √ | 7/28/2021 |
| Test Flame Fail Shutdown | √ | √ | √ | 7/28/2021 |
| Test Low Temperature Shutdown | √ | √ | √ | 7/28/2021 |
| **Semi- Annual** | **Gas Well Vaults No.** | | | |
| Open Wellhead Vaults Check for Mechanical Issues | | | | 8/4/2021 |
| Inspect All Fittings | | | | 8/4/2021 |
| Open Condensate Drain Hatch and Inspect | | | | 8/4/2021 |
| **Annual** | **Gas Well Vaults No.** | **Flare** | | |
| Open and Close Throttling Valve | | | | |
| Inspect Sampling Port, Quick Connect Fittings | | | | |
| Inspect Air Flow Rates of all Landfill Pipe Sections | | | | |
| Shut Flare Down: | | | | |
| Check for Loose Bolts on Structure and Flanges | | | | |
| Check Chart Recorder Configuration Sheets Against Actual Secttings to Confirm no Alterations | | | | |

| **COMMENTS** |
|---|
| On 1-19-21 replaced new hoses from nitrogen tank to block valve. Also replaced heat trace surrounding the block valve due to faulty prior assembly. |
| 5/5/21 Replaced missing bolt in B-10 |
| 5/5/21 Drained low spot at e-hill |
| 5/5/21 Replaced broken valve at B-11 |
| 8/4/21 Drained low spot at e-hill |
| |
| |
| |
| |

# FORM LFG-1
## INSPECTION CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

| | | | |
|---|---|---|---|
| **8/23/2021** | | | **Inspected by : M BYK** |
| **Weather : Partly Cloudy** | | | **Temperature (deg. F): 70-75 deg. F** |
| | | | **Humidity (%): 50** |
| **MONITORING TASK** | | | **DATE** |
| **1** | **Flare Piping** | | Checked Weekly |
| | Bolts secure | √ | |
| | Paint | √ | |
| **2** | **Manual Valves** | | Checked Weekly |
| | Normally Open | √ | |
| **3** | **Propane Gas** | | Checked Weekly |
| | Available - (regulator open) | √ | |
| **4** | **Nitrogen Gas** | | Checked Weekly |
| | Open Valve- Check Quantity | √ | |
| **5** | **Blowers** | | Checked Daily - Greased 8/23/21 |
| | Turn Manually (≤ 32◦F) | √ | |
| **6** | **Alarms (Clear)** | | Checked Weekly |
| | Combustible Gas Detectors | √ | Checked Weekly FDNY 9/22/20 |
| | Sharp Eye IR/UV | √ | Checked weekly Replaced unit 301 on 10/2/2019 w/FDNY |
| | FACP - System Normal | √ | ( Annual FDNY Inspection by SG 9/22/20 |
| | Power | √ | Checked Weekly |
| **7** | **Gas Analyzer** | | Weekly |
| | % Methane available (25-50%) | √ | Weekly |
| | % Oxygen ( ≤ 5%) | √ | Weekly |
| | check valve | √ | Weekly |
| **8** | **PERIMETER, FENCE, GATES & LOCKS** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Debris | √ | Checked Weekly |
| | Fence Damage | √ | Checked Weekly |
| | Gate Alignment and Swing Action | √ | Checked Weekly |
| | Fire Extinguishers | √ | Checked Weekly Expired (Inspection scheduled |
| | Yard Hydrants (2) | √ | Checked Weekly Tested 9/22/20 |
| | Large Fire Boss | √ | Checked Weekly |
| | Lock Lubrication and Function | √ | Checked Weekly |
| **9** | **PLC Cabinet** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Power Supply | √ | Checked Weekly |
| | Test Lamps | √ | Checked Weekly |
| | Circular Chart | √ | Checked Weekly |
| | Louvers Open | √ | Checked Weekly |
| | "Auto"Start | √ | Checked Weekly |
| | Purge Motor | √ | Checked Weekly |
| | Louvers Close / Pilot | √ | Checked Weekly |
| | Blowers Activated | √ | Checked Weekly |
| | Shutdown Valve Open | √ | Checked Weekly |
| | Manually Adjust Louvers (optional) | √ | Checked Weekly |
| | Autodialer Activated | √ | Checked Weekly |

# FORM DP-1
## LANDFILL GAS MANAGEMENT SYSTEM
## Aug 2021
## DESCRIPTION OF DEFICIENCIES AND PROBLEMS
## BROOKFIELD AVENUE LANDFILL

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 10/21/20 | Well C-27 | No bolts on vault | |
| 10/21/20 | Well C-29 | Lid hooks bars damaged | |
| 11/25/20 | Well A-9,13,17 | Temp Probe replacement needed | |
| 12/2/20 | Flare station | Hydrogen tanks needed | (2) Delivered 12/29/20 |
| 1/4/21 | Flare panel | Chart paper needed | |
| 1/25/21 | C-Paper/Nitrogen Tank | Paper needed/Nitrogen Refill | Paper inside cabinet. |
| 2/5/21 | Flare station | Block valve troubleshoot | Solenoid replacement needed. |
| 3/10/21 | Flare station | Replaced Solenoid | Nitrogen leak repaired. |
| 5/26/21 | Flare station | G.C Calibrated | Replaced Calibrated Device |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Date: ___8/30/2021_____**

**Signature: ___** RC Bowden _____

**FORM LGM-1**
**FLARE STATION MONTHLY OPERATION SUMMARY**
**LANDFILL GAS MANAGEMENT**
**SEPTEMBER 2021**
**BROOKFIELD AVENUE LANDFILL**

| Date | Day | Time | Vac (in. of H20) | Blower 301 (SCFM) | Blower 302 (SCFM) | Total SCFM | % CH4 | % O2 | Temperature (°F) | Blower 301 (hrs) | Blower 302 (hrs) | Blower Frequency (Hz) | Blower 301 (Amps) | Blower 302 (Amps) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/1/2021 | Wednesday | | | | | | | | | 30667 | 30592 | | | | |
| 9/2/2021 | Thursday | 7:24 | -5.7 | 118 | 48 | 166 | 29.6 | 0.7 | 1577 | 30737 | 30662 | 24.4 | 6 | 5.9 | Flare running (changed chart paper) |
| 9/3/2021 | Friday | | | | | | | | | 30682 | 30607 | | | | |
| 9/4/2021 | Saturday | | | | | | | | | 30313 | 30238 | | | | |
| 9/5/2021 | Sunday | | | | | | | | | 30329 | 30254 | | | | |
| 9/6/2021 | Monday | | | | | | | | | 30346 | 30271 | | | | |
| 9/7/2021 | Tuesday | | | | | | | | | 30362 | 30287 | | | | |
| 9/8/2021 | Wendesday | 7:22 | -5.5 | 161 | 71 | 232 | 40.4 | 0.2 | 1562 | 30861 | 30786 | 26.7 | 5.9 | 6.0 | Flare restarted at arrival(changed chart paper) |
| 9/9/2021 | Thursday | | | | | | | | | 30877 | 30802 | | | | |
| 9/10/2021 | Friday | 7:25 | -5.7 | 156 | | | | | | 30411 | 30336 | | | | |
| 9/11/2021 | Saturday | | | | | | | | | 30427 | 30352 | | | | |
| 9/12/2021 | Sunday | | | | | | | | | 30443 | 30368 | | | | |
| 9/13/2021 | Monday | | | | | | | | | 30459 | 30384 | | | | |
| 9/14/2021 | Tuesday | 8:39 | -5.7 | 123 | 106 | 229 | 41.8 | 0.1 | 1569 | 30924 | 30849 | 25.6 | 5.8 | 5.9 | Flare running (changed chart paper) |
| 9/15/2021 | Wednesday | | | | | | | | | 30940 | 30865 | | | | |
| 9/16/2021 | Thursday | | | | | | | | | 30956 | 30881 | | | | |
| 9/17/2021 | Friday | 7:08 | -5.6 | 160 | | | | | | 30522 | 30447 | | | | |
| 9/18/2021 | Saturday | | | | | | | | | 30546 | 30471 | | | | |
| 9/19/2021 | Sunday | | | | | | | | | 30570 | 30495 | | | | |
| 9/20/2021 | Monday | | | | | | | | | 30594 | 30519 | | | | |
| 9/21/2021 | Tuesday | | | | | | | | | 30618 | 30543 | | | | |
| 9/22/2021 | Wednesday | | | | | | | | | 30642 | 30567 | | | | |
| 9/23/2021 | Thursday | | | | | | | | | 30666 | 30591 | | | | |
| 9/24/2021 | Friday | 9:07 | -5.4 | 130 | 57 | 187 | 27.2 | 1.3 | 1584 | 31070 | 30994 | 24.9 | 5.8 | 5.8 | Flare running (changed chart paper) |
| 9/25/2021 | Saturday | | | | | | | | | 31077 | 31001 | | | | |
| 9/26/2021 | Sunday | | | | | | | | | 31084 | 31008 | | | | |
| 9/27/2021 | Monday | | | | | | | | | 31091 | 31015 | | | | |
| 9/28/2021 | Tuesday | | | | | | | | | 31098 | 31022 | | | | |
| 9/29/2021 | Wednesday | | | | | | | | | 31106 | 31030 | | | | |
| 9/30/2021 | Thursday | | | | | | | | | 31113 | 31037 | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | AVG | 203.5 | 34.8 | 0.6 | TOTAL | 445 | 444 | | | | |
| | | | | | | TOTAL MONTHLY SCF | | | | | | | | | |
| | | | | | | 5,424,903 | | | | | | | | | |

**COMMENTS**

DNR - Did Not Run Flare SD shutdown

No Readings on weekends and holidays unless noted

(1) fault alarm CGD-1 repaired reprogrammed (2) shutdown low flare temperature (3) shutdown due to power outage (4) alarm cleared (5) CGD trouble (6) UV/IR in *fault (7) Flame fail (8) MTC fail (9) Thermocouple replaced

# FORM LGM-2
## MONTHLY MONITORING ACTIVITIES CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## SEPTEMBER 2021

| | |
|---|---|
| **Date: 9/24/21** | **Inspected by: M Byk** |
| **Partly Cloudy** | **Temperature: 70-75 degree. F** |
| **Barometric Pressure (Hg): 30.00** | |

| | MONITORING TASK | INSPECT | REMARKS |
|---|---|---|---|
| **Gauges** | **Blower Vacuum (in. WC)** | | |
| | PDI-301 | √ | Checked Weekly |
| | PD!-302 | √ | Checked Weekly |
| | **Flow Transmitter (SCFM)** | | |
| | FT-301 | √ | Checked Weekly |
| | FT-302 | √ | Checked Weekly |
| | **Field Inlet Temperature (◦F)** | | |
| | TI-301 | √ | Checked Weekly |
| | TI-302 | √ | Checked Weekly |
| | **Pressure Differential Indicator** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-301 | √ | Checked Weekly |
| | PI-302 | √ | Checked Weekly |
| | **Blower Inlet Temperature (◦F)** | | |
| | TI-303 | √ | Checked Weekly |
| | TI-304 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-303 | √ | Checked Weekly |
| | PI-304 | √ | Checked Weekly |
| | **Blower Discharge Temperature (◦F)** | | |
| | TI-305 | √ | Checked Weekly |
| | TI-306 | √ | Checked Weekly |
| | **Flow Transmitter Totalizer (SCFM)** | | |
| | FT-303 | √ | Checked Weekly |
| | **FAU - TDL Gas Analyzer** | √ | Checked Weekly |
| | %CH4 (0-100%) | √ | Checked Weekly |
| | CO2 (0-100%0 | √ | Checked Weekly |
| | O2 (0-25%) | √ | Checked Weekly |
| **CP** | **Control Panel/ PLC Analog Data** | | |
| | Landfill Vacuum (in. WC) | √ | Checked Weekly |
| | Flow (SCFM) | √ | Checked Weekly |
| | Blower 301 hrs. | √ | greased on 8/23/21 |
| | Blower 302 hrs. | √ | greased on 8/23/21 |
| | Flare Temperature (◦F) | √ | Checked Weekly |
| | LFG % Methane | √ | Checked Weekly |
| | LFG % Oxygen | √ | Checked Weekly |
| | Area LEL | √ | Checked Weekly |
| | Blower Frequency (Hz) | √ | Checked Weekly |
| | Blower (Amps) | √ | Checked Weekly |

**FORM LGM-3**
**INSPECTION CHECKLIST**
**LANDFILL GAS MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| **Date: 9/24/21** | | | | **Inspected By: M. BYK** |
|---|---|---|---|---|
| **INSPECTION TASK** | **LOCATION** | | | **REMARKS** |
| **Daily** | **Blower 301** | **Blower 302** | **Flare** | |
| Visibly Inspect the Unit - repair leaks and loose wires | -- | -- | √ | 9/24/2021 |
| Test Lamps by Pushing the Run Lamp and Alarm Shutdown | -- | -- | √ | 9/24/2021 |
| Inspect Power Distribution System | -- | -- | √ | 9/24/2021 |
| **Weekly** | **Blower 301** | **Blower 302** | **Flare** | |
| Rotate Shafts on Blowers | -- | -- | -- | |
| Blowers are running no need to rotate | √ | √ | -- | 9/24/2021 |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| **Monthly** | **Gas Well Vaults No.** | | | |
| Well Casings, Valves, Instruments, Piping | √ | | | 9/24/2021 |
| Odors, High Gas Readings, | √ | | | 9/24/2021 |
| Dead Vegetation, Settlement | √ | | | 9/24/2021 |
| Vandalism, Damage, Destruction | √ | | | 9/24/2021 |
| Settling, Deterioration of Base | √ | | | 9/24/2021 |
| Fading of Labels, Nesting insects | √ | | | 9/24/2021 |
| Check Condensate Drains | √ | | | 9/24/2021 |
| Bolted Lids | √ | | | 9/24/2021 |
| **Quarterly** | **Blower 301** | **Blower 302** | **Flare** | |
| Lubricate Blowers / Check by Testing Hand and Auto Position | √ | √ | -- | 7/28/2021 |
| Inspect Ignitor Gap, Wiring,Pilot, Thermocouple Voltage | -- | -- | √ | 7/28/2021 |
| Shut Down Valve FV-301 | √ | √ | √ | 7/28/2021 |
| Zero out Pressure, Delta Pressure, and Vacuum Gauges | √ | √ | √ | 7/28/2021 |
| Remove Debris in 8" Blind Flange Inspection Port | √ | √ | √ | 7/28/2021 |
| Test Louvers | √ | √ | √ | 7/28/2021 |
| Test Pilot Fail Shutdown | √ | √ | √ | 7/28/2021 |
| Test Flame Fail Shutdown | √ | √ | √ | 7/28/2021 |
| Test Low Temperature Shutdown | √ | √ | √ | 7/28/2021 |
| **Semi- Annual** | **Gas Well Vaults No.** | | | |
| Open Wellhead Vaults Check for Mechanical Issues | | | | 8/4/2021 |
| Inspect All Fittings | | | | 8/4/2021 |
| Open Condensate Drain Hatch and Inspect | | | | 8/4/2021 |
| **Annual** | **Gas Well Vaults No.** | **Flare** | | |
| Open and Close Throttling Valve | | | | |
| Inspect Sampling Port, Quick Connect Fittings | | | | |
| Inspect Air Flow Rates of all Landfill Pipe Sections | | | | |
| Shut Flare Down: | | | | |
| Check for Loose Bolts on Structure and Flanges | | | | |
| Check Chart Recorder Configuration Sheets Against Actual Secttings to Confirm no Alterations | | | | |

| **COMMENTS** |
|---|
| On 1-19-21 replaced new hoses from nitrogen tank to block valve. Also replaced heat trace surrounding the block valve due to faulty prior assembly. |
| 5/5/21 Replaced missing bolt in B-10 |
| 5/5/21 Drained low spot at e-hill |
| 5/5/21 Replaced broken valve at B-11 |
| 8/4/21 Drained low spot at e-hill |
| |
| |
| |
| |

# FORM LFG-1
## INSPECTION CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

| | | | |
|---|---|---|---|
| **9/24/2021** | | | **Inspected by : M BYK** |
| **Weather : Cloudy** | | | **Temperature (deg. F): 70-75 deg. F** |
| | | | **Humidity (%): 50** |
| **MONITORING TASK** | | | **DATE** |
| **1** | **Flare Piping** | | Checked Weekly |
| | Bolts secure | √ | |
| | Paint | √ | |
| **2** | **Manual Valves** | | Checked Weekly |
| | Normally Open | √ | |
| **3** | **Propane Gas** | | Checked Weekly |
| | Available - (regulator open) | √ | |
| **4** | **Nitrogen Gas** | | Checked Weekly |
| | Open Valve- Check Quantity | √ | |
| **5** | **Blowers** | | Checked Daily - Greased 8/23/21 |
| | Turn Manually (≤ 32◦F) | √ | |
| **6** | **Alarms (Clear)** | | Checked Weekly |
| | Combustible Gas Detectors | √ | Checked Weekly FDNY 10/06/21 |
| | Sharp Eye IR/UV | √ | Checked weekly Replaced unit 301 on 10/2/2019 w/FDNY |
| | FACP - System Normal | √ | ( Annual FDNY Inspection by SG 10/06/21 |
| | Power | √ | Checked Weekly |
| **7** | **Gas Analyzer** | | Weekly |
| | % Methane available (25-50%) | √ | Weekly |
| | % Oxygen ( ≤ 5%) | √ | Weekly |
| | check valve | √ | Weekly |
| **8** | **PERIMETER, FENCE, GATES & LOCKS** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Debris | √ | Checked Weekly |
| | Fence Damage | √ | Checked Weekly |
| | Gate Alignment and Swing Action | √ | Checked Weekly |
| | Fire Extinguishers | √ | Checked Weekly (Inspected 10/6/21) |
| | Yard Hydrants (2) | √ | Checked Weekly (Tested 10/6/21) |
| | Large Fire Boss | √ | Checked Weekly |
| | Lock Lubrication and Function | √ | Checked Weekly |
| **9** | **PLC Cabinet** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Power Supply | √ | Checked Weekly |
| | Test Lamps | √ | Checked Weekly |
| | Circular Chart | √ | Checked Weekly |
| | Louvers Open | √ | Checked Weekly |
| | "Auto"Start | √ | Checked Weekly |
| | Purge Motor | √ | Checked Weekly |
| | Louvers Close / Pilot | √ | Checked Weekly |
| | Blowers Activated | √ | Checked Weekly |
| | Shutdown Valve Open | √ | Checked Weekly |
| | Manually Adjust Louvers (optional) | √ | Checked Weekly |
| | Autodialer Activated | √ | Checked Weekly |

# FORM DP-1
## LANDFILL GAS MANAGEMENT SYSTEM
## September 2021
## DESCRIPTION OF DEFICIENCIES AND PROBLEMS
## BROOKFIELD AVENUE LANDFILL

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 10/21/20 | Well C-27 | No bolts on vault | |
| 10/21/20 | Well C-29 | Lid hooks bars damaged | |
| 11/25/20 | Well A-9,13,17 | Temp Probe replacement needed | |
| 12/2/20 | Flare station | Hydrogen tanks needed | (2) Delivered 12/29/20 |
| 1/4/21 | Flare panel | Chart paper needed | |
| 1/25/21 | C-Paper/Nitrogen Tank | Paper needed/Nitrogen Refill | Paper inside cabinet. |
| 2/5/21 | Flare station | Block valve troubleshoot | Solenoid replacement needed. |
| 3/10/21 | Flare station | Replaced Solenoid | Nitrogen leak repaired. |
| 5/26/21 | Flare station | G.C Calibrated | Replaced Calibrated Device |
| 10/6/21 | Flare station | FDNY inspect | All systems pasted |
| | | | |
| | | | |
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**Date: 9/24/21**

**Signature:** RC Bowden

**FORM LGM-1**
**FLARE STATION MONTHLY OPERATION SUMMARY**
**LANDFILL GAS MANAGEMENT**
**OCTOBER 2021**
**BROOKFIELD AVENUE LANDFILL**

| Date | Day | Time | Vac (in. of H20) | Blower 301 (SCFM) | Blower 302 (SCFM) | Total SCFM | % CH4 | % O2 | Temperature (°F) | Blower 301 (hrs) | Blower 302 (hrs) | Blower Frequency (Hz) | Blower 301 (Amps) | Blower 302 (Amps) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/1/2021 | Friday | | | | | | | | | 31148 | 31092 | | | | |
| 10/2/2021 | Saturday | | | | | | | | | 31159 | 31106 | | | | |
| 10/3/2021 | Sunday | | | | | | | | | 31170 | 31120 | | | | |
| 10/4/2021 | Monday | | | | | | | | | 31182 | 31134 | | | | |
| 10/5/2021 | Tuesday | | | | | | | | | 31193 | 31148 | | | | |
| 10/6/2021 | Wednesday | | | | | | | | | 31204 | 31162 | | | | |
| 10/7/2021 | Thursday | 7:11 | -5.6 | 145 | 58 | 203 | 29.5 | 0.8 | 1577 | 31215 | 31176 | 26.2 | 6.1 | 5.9 | Flare running (changed chart paper) |
| 10/8/2021 | Friday | | | | | | | | | 31244 | 31200 | | | | |
| 10/9/2021 | Saturday | | | | | | | | | 31273 | 31224 | | | | |
| 10/10/2021 | Sunday | | | | | | | | | 31302 | 31248 | | | | |
| 10/11/2021 | Monday | | | | | | | | | 31332 | 31272 | | | | |
| 10/12/2021 | Tuesday | | | | | | | | | 31361 | 31296 | | | | |
| 10/13/2021 | Wednesday | | | | | | | | | 31390 | 31320 | | | | |
| 10/14/2021 | Thursday | 6:52 | -5.4 | 138 | 55 | 193 | 29.7 | 0.9 | 1580 | 31419 | 31344 | 25.6 | 5.7 | 5.9 | Flare running (changed chart paper) |
| 10/15/2021 | Friday | | | | | | | | | 31437 | 31362 | | | | |
| 10/16/2021 | Saturday | | | | | | | | | 31455 | 31380 | | | | |
| 10/17/2021 | Sunday | | | | | | | | | 31473 | 31398 | | | | |
| 10/18/2021 | Monday | | | | | | | | | 31491 | 31416 | | | | |
| 10/19/2021 | Tuesday | | | | | | | | | 31509 | 31434 | | | | |
| 10/20/2021 | Wednesday | 7:22 | -5.7 | 158 | 75 | 233 | 32.7 | 0.2 | 1664 | 31527 | 31452 | 26.6 | 6.1 | 6.3 | Flare off at arrival (changed chart paper) |
| 10/21/2021 | Thursday | | | | | | | | | 31535 | 31460 | | | | |
| 10/22/2021 | Friday | | | | | | | | | 31542 | 31467 | | | | |
| 10/23/2021 | Saturday | | | | | | | | | 31550 | 31475 | | | | |
| 10/24/2021 | Sunday | | | | | | | | | 31558 | 31483 | | | | |
| 10/25/2021 | Monday | | | | | | | | | 31565 | 31490 | | | | |
| 10/26/2021 | Tuesday | | | | | | | | | 31573 | 31498 | | | | |
| 10/27/2021 | Wednesday | | | | | | | | | 31581 | 31506 | | | | |
| 10/28/2021 | Thursday | | | | | | | | | 31588 | 31513 | | | | |
| 10/29/2021 | Friday | 7:15 | -5.7 | 167 | 78 | 245 | 38.0 | 0.4 | 1600 | 31596 | 31521 | 26.7 | 6.2 | 6.5 | Flare off at arrival (changed chart paper) |
| 10/30/2021 | Saturday | | | | | | | | | 31604 | 31529 | | | | |
| 10/31/2021 | Sunday | | | | | | | | | 31611 | 31536 | | | | |
| | | | | | AVG | 218.5 | 32.5 | 0.6 | TOTAL | 463 | 444 | | | | |
| | | | | | | TOTAL MONTHLY SCF | | | | | | | | | |
| | | | | | | 5,825,210 | | | | | | | | | |

**COMMENTS**

DNR - Did Not Run Flare SD shutdown

No Readings on weekends and holidays unless noted

(1) fault alarm CGD-1 repaired reprogrammed (2) shutdown low flare temperature (3) shutdown due to power outage (4) alarm cleared (5) CGD trouble (6) UV/IR in *fault (7) Flame fail (8) MTC fail (9) Thermocouple replaced

# FORM LGM-2
## MONTHLY MONITORING ACTIVITIES CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## October-21

| | |
|---|---|
| **Date:10-20-21** | **Inspected by: M Byk** |
| **Partly Cloudy** | **Temperature: 70-75 degree. F** |
| **Barometric Pressure (Hg): 30.00** | |

| | MONITORING TASK | INSPECT | REMARKS |
|---|---|---|---|
| **Gauges** | **Blower Vacuum (in. WC)** | | |
| | PDI-301 | √ | Checked Weekly |
| | PD!-302 | √ | Checked Weekly |
| | **Flow Transmitter (SCFM)** | | |
| | FT-301 | √ | Checked Weekly |
| | FT-302 | √ | Checked Weekly |
| | **Field Inlet Temperature (◦F)** | | |
| | TI-301 | √ | Checked Weekly |
| | TI-302 | √ | Checked Weekly |
| | **Pressure Differential Indicator** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-301 | √ | Checked Weekly |
| | PI-302 | √ | Checked Weekly |
| | **Blower Inlet Temperature (◦F)** | | |
| | TI-303 | √ | Checked Weekly |
| | TI-304 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-303 | √ | Checked Weekly |
| | PI-304 | √ | Checked Weekly |
| | **Blower Discharge Temperature (◦F)** | | |
| | TI-305 | √ | Checked Weekly |
| | TI-306 | √ | Checked Weekly |
| | **Flow Transmitter Totalizer (SCFM)** | | |
| | FT-303 | √ | Checked Weekly |
| | **FAU - TDL Gas Analyzer** | √ | Checked Weekly |
| | %CH4 (0-100%) | √ | Checked Weekly |
| | CO2 (0-100%0 | √ | Checked Weekly |
| | O2 (0-25%) | √ | Checked Weekly |
| **CP** | **Control Panel/ PLC Analog Data** | | |
| | Landfill Vacuum (in. WC) | √ | Checked Weekly |
| | Flow (SCFM) | √ | Checked Weekly |
| | Blower 301 hrs. | √ | greased on 8/23/21 |
| | Blower 302 hrs. | √ | greased on 8/23/21 |
| | Flare Temperature (◦F) | √ | Checked Weekly |
| | LFG % Methane | √ | Checked Weekly |
| | LFG % Oxygen | √ | Checked Weekly |
| | Area LEL | √ | Checked Weekly |
| | Blower Frequency (Hz) | √ | Checked Weekly |
| | Blower (Amps) | √ | Checked Weekly |

**FORM LGM-3**
**INSPECTION CHECKLIST**
**LANDFILL GAS MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| **Date: October 20 2021** | | | | **Inspected By: M. BYK** |
|---|---|---|---|---|
| **INSPECTION TASK** | **LOCATION** | | | **REMARKS** |
| **Daily** | **Blower 301** | **Blower 302** | **Flare** | |
| Visibly Inspect the Unit - repair leaks and loose wires | -- | -- | √ | 10/20/2021 |
| Test Lamps by Pushing the Run Lamp and Alarm Shutdown | -- | -- | √ | 10/20/2021 |
| Inspect Power Distribution System | -- | -- | √ | 10/20/2021 |
| **Weekly** | **Blower 301** | **Blower 302** | **Flare** | |
| Rotate Shafts on Blowers | -- | -- | -- | |
| Blowers are running no need to rotate | √ | √ | -- | 10/20/2021 |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| **Monthly** | **Gas Well Vaults No.** | | | |
| Well Casings, Valves, Instruments, Piping | √ | | | 10/20/2021 |
| Odors, High Gas Readings, | √ | | | 10/20/2021 |
| Dead Vegetation, Settlement | √ | | | 10/20/2021 |
| Vandalism, Damage, Destruction | √ | | | 10/20/2021 |
| Settling, Deterioration of Base | √ | | | 10/20/2021 |
| Fading of Labels, Nesting insects | √ | | | 10/20/2021 |
| Check Condensate Drains | √ | | | 10/20/2021 |
| Bolted Lids | √ | | | 10/20/2021 |
| **Quarterly** | **Blower 301** | **Blower 302** | **Flare** | |
| Lubricate Blowers / Check by Testing Hand and Auto Position | √ | √ | -- | 7/28/2021 |
| Inspect Ignitor Gap, Wiring,Pilot, Thermocouple Voltage | -- | -- | √ | 7/28/2021 |
| Shut Down Valve FV-301 | √ | √ | √ | 7/28/2021 |
| Zero out Pressure, Delta Pressure, and Vacuum Gauges | √ | √ | √ | 7/28/2021 |
| Remove Debris in 8" Blind Flange Inspection Port | √ | √ | √ | 7/28/2021 |
| Test Louvers | √ | √ | √ | 7/28/2021 |
| Test Pilot Fail Shutdown | √ | √ | √ | 7/28/2021 |
| Test Flame Fail Shutdown | √ | √ | √ | 7/28/2021 |
| Test Low Temperature Shutdown | √ | √ | √ | 7/28/2021 |
| **Semi- Annual** | **Gas Well Vaults No.** | | | |
| Open Wellhead Vaults Check for Mechanical Issues | | | | 8/4/2021 |
| Inspect All Fittings | | | | 8/4/2021 |
| Open Condensate Drain Hatch and Inspect | | | | 8/4/2021 |
| **Annual** | **Gas Well Vaults No.** | **Flare** | | |
| Open and Close Throttling Valve | | | | |
| Inspect Sampling Port, Quick Connect Fittings | | | | |
| Inspect Air Flow Rates of all Landfill Pipe Sections | | | | |
| Shut Flare Down: | | | | |
| Check for Loose Bolts on Structure and Flanges | | | | |
| Check Chart Recorder Configuration Sheets Against Actual Secttings to Confirm no Alterations | | | | |

| **COMMENTS** |
|---|
| On 1-19-21 replaced new hoses from nitrogen tank to block valve. Also replaced heat trace surrounding the block valve due to faulty prior assembly. |
| 5/5/21 Replaced missing bolt in B-10 |
| 5/5/21 Drained low spot at e-hill |
| 5/5/21 Replaced broken valve at B-11 |
| 8/4/21 Drained low spot at e-hill |
| |
| |
| |
| |

# FORM DP-1
## LANDFILL GAS MANAGEMENT SYSTEM
## October 2021
## DESCRIPTION OF DEFICIENCIES AND PROBLEMS
## BROOKFIELD AVENUE LANDFILL

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 10/21/20 | Well C-27 | No bolts on vault | |
| 10/21/20 | Well C-29 | Lid hooks bars damaged | |
| 11/25/20 | Well A-9,13,17 | Temp Probe replacement needed | |
| 12/2/20 | Flare station | Hydrogen tanks needed | (2) Delivered 12/29/20 |
| 1/4/21 | Flare panel | Chart paper needed | |
| 1/25/21 | C-Paper/Nitrogen Tank | Paper needed/Nitrogen Refill | Paper inside cabinet. |
| 2/5/21 | Flare station | Block valve troubleshoot | Solenoid replacement needed. |
| 3/10/21 | Flare station | Replaced Solenoid | Nitrogen leak repaired. |
| 5/26/21 | Flare station | G.C Calibrated | Replaced Calibrated Device |
| 10/6/21 | Flare station | FDNY inspect | All systems pasted |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Date: 10/29/21**

**Signature:** RC Bowden

# FORM LFG-1
## INSPECTION CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

| | | | |
|---|---|---|---|
| **10/20/2021** | | | **Inspected by : M BYK** |
| **Weather : Cloudy** | | | **Temperature (deg. F): 70-75 deg. F** |
| | | | **Humidity (%): 50** |
| **MONITORING TASK** | | | **DATE** |
| **1** | **Flare Piping** | | Checked Weekly |
| | Bolts secure | √ | |
| | Paint | √ | |
| **2** | **Manual Valves** | | Checked Weekly |
| | Normally Open | √ | |
| **3** | **Propane Gas** | | Checked Weekly |
| | Available - (regulator open) | √ | |
| **4** | **Nitrogen Gas** | | Checked Weekly |
| | Open Valve- Check Quantity | √ | |
| **5** | **Blowers** | | Checked Daily - Greased 8/23/21 |
| | Turn Manually (≤ 32◦F) | √ | |
| **6** | **Alarms (Clear)** | | Checked Weekly |
| | Combustible Gas Detectors | √ | Checked Weekly FDNY 10/06/21 |
| | Sharp Eye IR/UV | √ | Checked weekly Replaced unit 301 on 10/2/2019 w/FDNY |
| | FACP - System Normal | √ | Annual FDNY Inspection by SG 10/06/21 |
| | Power | √ | Checked Weekly |
| **7** | **Gas Analyzer** | | Weekly |
| | % Methane available (25-50%) | √ | Weekly |
| | % Oxygen ( ≤ 5%) | √ | Weekly |
| | check valve | √ | Weekly |
| **8** | **PERIMETER, FENCE, GATES & LOCKS** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Debris | √ | Checked Weekly |
| | Fence Damage | √ | Checked Weekly |
| | Gate Alignment and Swing Action | √ | Checked Weekly |
| | Fire Extinguishers | √ | Checked Weekly (Inspected 10/6/21) |
| | Yard Hydrants (2) | √ | Checked Weekly (Tested 10/6/21) |
| | Large Fire Boss | √ | Checked Weekly |
| | Lock Lubrication and Function | √ | Checked Weekly |
| **9** | **PLC Cabinet** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Power Supply | √ | Checked Weekly |
| | Test Lamps | √ | Checked Weekly |
| | Circular Chart | √ | Checked Weekly |
| | Louvers Open | √ | Checked Weekly |
| | "Auto"Start | √ | Checked Weekly |
| | Purge Motor | √ | Checked Weekly |
| | Louvers Close / Pilot | √ | Checked Weekly |
| | Blowers Activated | √ | Checked Weekly |
| | Shutdown Valve Open | √ | Checked Weekly |
| | Manually Adjust Louvers (optional) | √ | Checked Weekly |
| | Autodialer Activated | √ | Checked Weekly |

**FORM LGM-1**
**FLARE STATION MONTHLY OPERATION SUMMARY**
**LANDFILL GAS MANAGEMENT**
**NOVEMBER 2021**
**BROOKFIELD AVENUE LANDFILL**

| Date | Day | Time | Vac (in. of H20) | Blower 301 (SCFM) | Blower 302 (SCFM) | Total SCFM | % CH4 | % O2 | Temperature (°F) | Blower 301 (hrs) | Blower 302 (hrs) | Blower Frequency (Hz) | Blower 301 (Amps) | Blower 302 (Amps) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/1/2021 | Monday | | | | | | | | | 31626 | 31551 | | | | |
| 11/2/2021 | Tuesday | | | | | | | | | 31636 | 31561 | | | | |
| 11/3/2021 | Wednesday | | | | | | | | | 31646 | 31571 | | | | |
| 11/4/2021 | Thursday | | | | | | | | | 31656 | 31581 | | | | |
| 11/5/2021 | Friday | 7:00 | -6.4 | 180 | 42 | 222 | 25.8 | 0.6 | 1599 | 31666 | 31591 | 26.5 | 6.4 | 6.3 | Flare running (changed chart paper) |
| 11/6/2021 | Saturday | | | | | | | | | 31688 | 31613 | | | | |
| 11/7/2021 | Sunday | | | | | | | | | 31709 | 31634 | | | | |
| 11/8/2021 | Monday | | | | | | | | | 31731 | 31656 | | | | |
| 11/9/2021 | Tuesday | | | | | | | | | 31753 | 31678 | | | | |
| 11/10/2021 | Wednesday | | | | | | | | | 31774 | 31699 | | | | |
| 11/11/2021 | Thursday | 8:30 | -0.2 | 0 | 0 | 0 | 13.5 | 0.9 | 60 | 31796 | 31721 | 0.0 | 0.0 | 0.0 | Flare off at arrival (changed chart paper) |
| 11/12/2021 | Friday | | | | | | | | | 31807 | 31732 | | | | |
| 11/13/2021 | Saturday | | | | | | | | | 31817 | 31742 | | | | |
| 11/14/2021 | Sunday | | | | | | | | | 31828 | 31753 | | | | |
| 11/15/2021 | Monday | | | | | | | | | 31838 | 31763 | | | | |
| 11/16/2021 | Tuesday | | | | | | | | | 31849 | 31774 | | | | |
| 11/17/2021 | Wednesday | | | | | | | | | 31859 | 31784 | | | | |
| 11/18/2021 | Thursday | 10:50 | -5.1 | 155 | 27 | 182 | 26.1 | 1.4 | 1577 | 31870 | 31795 | 26.3 | 6.1 | 6.1 | Flare running (changed chart paper) |
| 11/19/2021 | Friday | | | | | | | | | 31880 | 31809 | | | | |
| 11/20/2021 | Saturday | | | | | | | | | 31891 | 31823 | | | | |
| 11/21/2021 | Sunday | | | | | | | | | 31901 | 31838 | | | | |
| 11/22/2021 | Monday | | | | | | | | | 31912 | 31852 | | | | |
| 11/23/2021 | Tuesday | 8:00 | -5.9 | 160 | 29 | 189 | 27.4 | 0.8 | 1588 | 31922 | 31866 | 26.4 | 6.4 | 6.2 | Flare running (changed chart paper) |
| 11/24/2021 | Wednesday | | | | | | | | | 31939 | 31881 | | | | |
| 11/25/2021 | Thursday | | | | | | | | | 31955 | 31895 | | | | |
| 11/26/2021 | Friday | | | | | | | | | 31972 | 31910 | | | | |
| 11/27/2021 | Saturday | | | | | | | | | 31988 | 31925 | | | | |
| 11/28/2021 | Sunday | | | | | | | | | 32005 | 31940 | | | | |
| 11/29/2021 | Monday | | | | | | | | | 32022 | 31954 | | | | |
| 11/30/2021 | Tuesday | | | | | | | | | 32038 | 31969 | | | | |
| | | | | | AVG | 148.3 | 23.2 | 0.9 | TOTAL | 412 | 418 | | | | |
| | | | | | | TOTAL MONTHLY SCF | | | | | | | | | |
| | | | | | | 3,717,221 | | | | | | | | | |

**COMMENTS**

DNR - Did Not Run Flare SD shutdown

No Readings on weekends and holidays unless noted

(1) fault alarm CGD-1 repaired reprogrammed (2) shutdown low flare temperature (3) shutdown due to power outage (4) alarm cleared (5) CGD trouble (6) UV/IR in "fault (7) Flame fail (8) MTC fail (9) Thermocouple replaced

# FORM LGM-2
## MONTHLY MONITORING ACTIVITIES CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## November-21

| | |
|---|---|
| **Date:11-5-21** | **Inspected by: D Cordisco** |
| **Partly Cloudy** | **Temperature: 50-55 degree. F** |
| **Barometric Pressure (Hg): 30.00** | |

| | MONITORING TASK | INSPECT | REMARKS |
|---|---|---|---|
| **Gauges** | **Blower Vacuum (in. WC)** | | |
| | PDI-301 | √ | Checked Weekly |
| | PD!-302 | √ | Checked Weekly |
| | **Flow Transmitter (SCFM)** | | |
| | FT-301 | √ | Checked Weekly |
| | FT-302 | √ | Checked Weekly |
| | **Field Inlet Temperature (◦F)** | | |
| | TI-301 | √ | Checked Weekly |
| | TI-302 | √ | Checked Weekly |
| | **Pressure Differential Indicator** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-301 | √ | Checked Weekly |
| | PI-302 | √ | Checked Weekly |
| | **Blower Inlet Temperature (◦F)** | | |
| | TI-303 | √ | Checked Weekly |
| | TI-304 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-303 | √ | Checked Weekly |
| | PI-304 | √ | Checked Weekly |
| | **Blower Discharge Temperature (◦F)** | | |
| | TI-305 | √ | Checked Weekly |
| | TI-306 | √ | Checked Weekly |
| | **Flow Transmitter Totalizer (SCFM)** | | |
| | FT-303 | √ | Checked Weekly |
| | **FAU - TDL Gas Analyzer** | √ | Checked Weekly |
| | %CH4 (0-100%) | √ | Checked Weekly |
| | CO2 (0-100%0 | √ | Checked Weekly |
| | O2 (0-25%) | √ | Checked Weekly |
| **CP** | **Control Panel/ PLC Analog Data** | | |
| | Landfill Vacuum (in. WC) | √ | Checked Weekly |
| | Flow (SCFM) | √ | Checked Weekly |
| | Blower 301 hrs. | √ | greased on 8/23/21 |
| | Blower 302 hrs. | √ | greased on 8/23/21 |
| | Flare Temperature (◦F) | √ | Checked Weekly |
| | LFG % Methane | √ | Checked Weekly |
| | LFG % Oxygen | √ | Checked Weekly |
| | Area LEL | √ | Checked Weekly |
| | Blower Frequency (Hz) | √ | Checked Weekly |
| | Blower (Amps) | √ | Checked Weekly |

**FORM LGM-3**
**INSPECTION CHECKLIST**
**LANDFILL GAS MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| **Date: November 5 2021** | | | | **Inspected By: D.cordisco** |
|---|---|---|---|---|
| **INSPECTION TASK** | **LOCATION** | | | **REMARKS** |
| **Daily** | **Blower 301** | **Blower 302** | **Flare** | |
| Visibly Inspect the Unit - repair leaks and loose wires | -- | -- | √ | 11/5/2021 |
| Test Lamps by Pushing the Run Lamp and Alarm Shutdown | -- | -- | √ | 11/5/2021 |
| Inspect Power Distribution System | -- | -- | √ | 11/5/2021 |
| **Weekly** | **Blower 301** | **Blower 302** | **Flare** | |
| Rotate Shafts on Blowers | -- | -- | -- | |
| Blowers are running no need to rotate | √ | √ | -- | 11/5/2021 |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| **Monthly** | **Gas Well Vaults No.** | | | |
| Well Casings, Valves, Instruments, Piping | √ | | | 11/5/2021 |
| Odors, High Gas Readings, | √ | | | 11/5/2021 |
| Dead Vegetation, Settlement | √ | | | 11/5/2021 |
| Vandalism, Damage, Destruction | √ | | | 11/5/2021 |
| Settling, Deterioration of Base | √ | | | 11/5/2021 |
| Fading of Labels, Nesting insects | √ | | | 11/5/2021 |
| Check Condensate Drains | √ | | | 11/5/2021 |
| Bolted Lids | √ | | | 11/5/2021 |
| **Quarterly** | **Blower 301** | **Blower 302** | **Flare** | |
| Lubricate Blowers / Check by Testing Hand and Auto Position | √ | √ | -- | 7/28/2021 |
| Inspect Ignitor Gap, Wiring,Pilot, Thermocouple Voltage | -- | -- | √ | 7/28/2021 |
| Shut Down Valve FV-301 | √ | √ | √ | 7/28/2021 |
| Zero out Pressure, Delta Pressure, and Vacuum Gauges | √ | √ | √ | 7/28/2021 |
| Remove Debris in 8" Blind Flange Inspection Port | √ | √ | √ | 7/28/2021 |
| Test Louvers | √ | √ | √ | 7/28/2021 |
| Test Pilot Fail Shutdown | √ | √ | √ | 7/28/2021 |
| Test Flame Fail Shutdown | √ | √ | √ | 7/28/2021 |
| Test Low Temperature Shutdown | √ | √ | √ | 7/28/2021 |
| **Semi- Annual** | **Gas Well Vaults No.** | | | |
| Open Wellhead Vaults Check for Mechanical Issues | | | | 8/4/2021 |
| Inspect All Fittings | | | | 8/4/2021 |
| Open Condensate Drain Hatch and Inspect | | | | 8/4/2021 |
| **Annual** | **Gas Well Vaults No.** | **Flare** | | |
| Open and Close Throttling Valve | | | | |
| Inspect Sampling Port, Quick Connect Fittings | | | | |
| Inspect Air Flow Rates of all Landfill Pipe Sections | | | | |
| Shut Flare Down: | | | | |
| Check for Loose Bolts on Structure and Flanges | | | | |
| Check Chart Recorder Configuration Sheets Against Actual Secttings to Confirm no Alterations | | | | |

| **COMMENTS** |
|---|
| On 1-19-21 replaced new hoses from nitrogen tank to block valve. Also replaced heat trace surrounding the block valve due to faulty prior assembly. |
| 5/5/21 Replaced missing bolt in B-10 |
| 5/5/21 Drained low spot at e-hill |
| 5/5/21 Replaced broken valve at B-11 |
| 8/4/21 Drained low spot at e-hill |
| 11/5/21 Drained low spot at E-hill |
| |
| |
| |

# FORM LFG-1
## INSPECTION CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

| | | | |
|---|---|---|---|
| **11/5/2021** | | | **Inspected by : D Cordisco** |
| **Weather : Cloudy** | | | **Temperature (deg. F): 50-55 deg. F** |
| | | | **Humidity (%): 50** |
| **MONITORING TASK** | | | **DATE** |
| **1** | **Flare Piping** | | Checked Weekly |
| | Bolts secure | √ | |
| | Paint | √ | |
| **2** | **Manual Valves** | | Checked Weekly |
| | Normally Open | √ | |
| **3** | **Propane Gas** | | Checked Weekly |
| | Available - (regulator open) | √ | |
| **4** | **Nitrogen Gas** | | Checked Weekly |
| | Open Valve- Check Quantity | √ | |
| **5** | **Blowers** | | Checked Daily - Greased 8/23/21 |
| | Turn Manually (≤ 32◦F) | √ | |
| **6** | **Alarms (Clear)** | | Checked Weekly |
| | Combustible Gas Detectors | √ | Checked Weekly FDNY 10/06/21 |
| | Sharp Eye IR/UV | √ | Checked weekly Replaced unit 301 on 10/2/2019 w/FDNY |
| | FACP - System Normal | √ | ( Annual FDNY Inspection by SG 10/06/21 |
| | Power | √ | Checked Weekly |
| **7** | **Gas Analyzer** | | Weekly |
| | % Methane available (25-50%) | √ | Weekly |
| | % Oxygen ( ≤ 5%) | √ | Weekly |
| | check valve | √ | Weekly |
| **8** | **PERIMETER, FENCE, GATES & LOCKS** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Debris | √ | Checked Weekly |
| | Fence Damage | √ | Checked Weekly |
| | Gate Alignment and Swing Action | √ | Checked Weekly |
| | Fire Extinguishers | √ | Checked Weekly (Inspected 10/6/21) |
| | Yard Hydrants (2) | √ | Checked Weekly (Tested 10/6/21) |
| | Large Fire Boss | √ | Checked Weekly |
| | Lock Lubrication and Function | √ | Checked Weekly |
| **9** | **PLC Cabinet** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Power Supply | √ | Checked Weekly |
| | Test Lamps | √ | Checked Weekly |
| | Circular Chart | √ | Checked Weekly |
| | Louvers Open | √ | Checked Weekly |
| | "Auto"Start | √ | Checked Weekly |
| | Purge Motor | √ | Checked Weekly |
| | Louvers Close / Pilot | √ | Checked Weekly |
| | Blowers Activated | √ | Checked Weekly |
| | Shutdown Valve Open | √ | Checked Weekly |
| | Manually Adjust Louvers (optional) | √ | Checked Weekly |
| | Autodialer Activated | √ | Checked Weekly |

# FORM DP-1
## LANDFILL GAS MANAGEMENT SYSTEM
## November 2021
## DESCRIPTION OF DEFICIENCIES AND PROBLEMS
## BROOKFIELD AVENUE LANDFILL

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 10/21/20 | Well C-27 | No bolts on vault | |
| 10/21/20 | Well C-29 | Lid hooks bars damaged | |
| 11/25/20 | Well A-9,13,17 | Temp Probe replacement needed | |
| 12/2/20 | Flare station | Hydrogen tanks needed | (2) Delivered 12/29/20 |
| 1/4/21 | Flare panel | Chart paper needed | |
| 1/25/21 | C-Paper/Nitrogen Tank | Paper needed/Nitrogen Refill | Paper inside cabinet. |
| 2/5/21 | Flare station | Block valve troubleshoot | Solenoid replacement needed. |
| 3/10/21 | Flare station | Replaced Solenoid | Nitrogen leak repaired. |
| 5/26/21 | Flare station | G.C Calibrated | Replaced Calibrated Device |
| 10/6/21 | Flare station | FDNY inspect | All systems pasted |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Date:** _____

**Signature:** _____

**FORM LGM-1**
**FLARE STATION MONTHLY OPERATION SUMMARY**
**LANDFILL GAS MANAGEMENT**
**DECEMBER 2021**
**BROOKFIELD AVENUE LANDFILL**

| Date | Day | Time | Vac (in. of H20) | Blower 301 (SCFM) | Blower 302 (SCFM) | Total SCFM | % CH4 | % O2 | Temperature (°F) | Blower 301 (hrs) | Blower 302 (hrs) | Blower Frequency (Hz) | Blower 301 (Amps) | Blower 302 (Amps) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/1/2021 | Wednesday | | | | | | | | | 32055 | 31984 | | | | |
| 12/2/2021 | Thursday | | | | | | | | | 32071 | 31998 | | | | |
| 12/3/2021 | Friday | 12:09 | -0.5 | 0 | 0 | 0 | 17.4 | 0.9 | 0 | 32088 | 32013 | 0.0 | 0.0 | 0.0 | Flare off at arrival (changed chart paper) |
| 12/4/2021 | Saturday | | | | | | | | | 32091 | 32016 | | | | |
| 12/5/2021 | Sunday | | | | | | | | | 32093 | 32018 | | | | |
| 12/6/2021 | Monday | | | | | | | | | 32096 | 32021 | | | | |
| 12/7/2021 | Tuesday | | | | | | | | | 32098 | 32023 | | | | |
| 12/8/2021 | Wednesday | | | | | | | | | 32101 | 32026 | | | | |
| 12/9/2021 | Thursday | | | | | | | | | 32103 | 32028 | | | | |
| 12/10/2021 | Friday | 8:45 | -6.3 | 183 | 44 | 227 | 28.7 | 0.2 | 1058 | 32106 | 32031 | 26.6 | 6.2 | 6.5 | Flare running (changed chart paper) |
| 12/11/2021 | Saturday | | | | | | | | | 32112 | 32037 | | | | |
| 12/12/2021 | Sunday | | | | | | | | | 32119 | 32044 | | | | |
| 12/13/2021 | Monday | | | | | | | | | 32125 | 32050 | | | | |
| 12/14/2021 | Tuesday | | | | | | | | | 32132 | 32057 | | | | |
| 12/15/2021 | Wednesday | | | | | | | | | 32138 | 32063 | | | | |
| 12/16/2021 | Thursday | | | | | | | | | 32145 | 32070 | | | | |
| 12/17/2021 | Friday | 8:40 | -6.1 | 142 | 70 | 212 | 35.0 | 0.2 | 1563 | 32151 | 32076 | 25.9 | 6.1 | 6.3 | Flare running (changed chart paper) |
| 12/18/2021 | Saturday | | | | | | | | | 32169 | 32094 | | | | |
| 12/19/2021 | Sunday | | | | | | | | | 32187 | 32112 | | | | |
| 12/20/2021 | Monday | | | | | | | | | 32205 | 32130 | | | | |
| 12/21/2021 | Tuesday | 7:40 | -0.1 | 0 | 0 | 0 | 34.5 | 0.4 | 34 | 32223 | 32148 | 0.0 | 0.0 | 0.0 | Flare off at arrival (changed chart paper) |
| 12/22/2021 | Wednesday | | | | | | | | | 32237 | 32245 | | | | |
| 12/23/2021 | Thursday | | | | | | | | | 32251 | 32342 | | | | |
| 12/24/2021 | Friday | | | | | | | | | 32265 | 32439 | | | | |
| 12/25/2021 | Saturday | | | | | | | | | 32279 | 32536 | | | | |
| 12/26/2021 | Sunday | | | | | | | | | 32293 | 32633 | | | | |
| 12/27/2021 | Monday | | | | | | | | | 32307 | 32730 | | | | |
| 12/28/2021 | Tuesday | 12:36 | -5.4 | 104 | 2 | 136 | 27.9 | 1.5 | 1585 | 32321 | 32245 | 26.3 | 6.3 | 6.4 | Flare running (changed chart paper) |
| 12/29/2021 | Wednesday | | | | | | | | | 32332 | 32257 | | | | |
| 12/30/2021 | Thursday | | | | | | | | | 32344 | 32268 | | | | |
| 12/31/2021 | Friday | | | | | | | | | 32355 | 32280 | | | | |
| | | | | | AVG | 115.0 | 28.7 | 0.6 | TOTAL | 301 | 296 | | | | |
| | | | | | TOTAL MONTHLY SCF | | | | | | | | | | |
| | | | | | | 2,042,651 | | | | | | | | | |

**COMMENTS**

DNR - Did Not Run Flare SD shutdown

No Readings on weekends and holidays unless noted

(1) fault alarm CGD-1 repaired reprogrammed (2) shutdown low flare temperature (3) shutdown due to power outage (4) alarm cleared (5) CGD trouble (6) UV/IR in *fault (7) Flame fail (8) MTC fail (9) Thermocouple replaced

# FORM LGM-2
## MONTHLY MONITORING ACTIVITIES CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## December-21

| | |
|---|---|
| **Date:12/31/21** | **Inspected by: D Cordisco** |
| **Partly Cloudy** | **Temperature: 50-55 degree. F** |
| **Barometric Pressure (Hg): 30.00** | |

| | MONITORING TASK | INSPECT | REMARKS |
|---|---|---|---|
| **Gauges** | **Blower Vacuum (in. WC)** | | |
| | PDI-301 | √ | Checked Weekly |
| | PD!-302 | √ | Checked Weekly |
| | **Flow Transmitter (SCFM)** | | |
| | FT-301 | √ | Checked Weekly |
| | FT-302 | √ | Checked Weekly |
| | **Field Inlet Temperature (◦F)** | | |
| | TI-301 | √ | Checked Weekly |
| | TI-302 | √ | Checked Weekly |
| | **Pressure Differential Indicator** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-301 | √ | Checked Weekly |
| | PI-302 | √ | Checked Weekly |
| | **Blower Inlet Temperature (◦F)** | | |
| | TI-303 | √ | Checked Weekly |
| | TI-304 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-303 | √ | Checked Weekly |
| | PI-304 | √ | Checked Weekly |
| | **Blower Discharge Temperature (◦F)** | | |
| | TI-305 | √ | Checked Weekly |
| | TI-306 | √ | Checked Weekly |
| | **Flow Transmitter Totalizer (SCFM)** | | |
| | FT-303 | √ | Checked Weekly |
| | **FAU - TDL Gas Analyzer** | √ | Checked Weekly |
| | %CH4 (0-100%) | √ | Checked Weekly |
| | CO2 (0-100%0 | √ | Checked Weekly |
| | O2 (0-25%) | √ | Checked Weekly |
| **CP** | **Control Panel/ PLC Analog Data** | | |
| | Landfill Vacuum (in. WC) | √ | Checked Weekly |
| | Flow (SCFM) | √ | Checked Weekly |
| | Blower 301 hrs. | √ | greased on 8/23/21 |
| | Blower 302 hrs. | √ | greased on 8/23/21 |
| | Flare Temperature (◦F) | √ | Checked Weekly |
| | LFG % Methane | √ | Checked Weekly |
| | LFG % Oxygen | √ | Checked Weekly |
| | Area LEL | √ | Checked Weekly |
| | Blower Frequency (Hz) | √ | Checked Weekly |
| | Blower (Amps) | √ | Checked Weekly |

**FORM LGM-3**
**INSPECTION CHECKLIST**
**LANDFILL GAS MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| **Date: December 10, 2021** | | | | **Inspected By: D.Cordisco** |
|---|---|---|---|---|
| **INSPECTION TASK** | **LOCATION** | | | **REMARKS** |
| **Daily** | **Blower 301** | **Blower 302** | **Flare** | |
| Visibly Inspect the Unit - repair leaks and loose wires | -- | -- | √ | 12/10/2021 |
| Test Lamps by Pushing the Run Lamp and Alarm Shutdown | -- | -- | √ | 12/10/2021 |
| Inspect Power Distribution System | -- | -- | √ | 12/10/2021 |
| **Weekly** | **Blower 301** | **Blower 302** | **Flare** | |
| Rotate Shafts on Blowers | -- | -- | -- | |
| Blowers are running no need to rotate | √ | √ | -- | 12/10/2021 |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| **Monthly** | **Gas Well Vaults No.** | | | |
| Well Casings, Valves, Instruments, Piping | √ | | | 12/10/2021 |
| Odors, High Gas Readings, | √ | | | 12/10/2021 |
| Dead Vegetation, Settlement | √ | | | 12/10/2021 |
| Vandalism, Damage, Destruction | √ | | | 12/10/2021 |
| Settling, Deterioration of Base | √ | | | 12/10/2021 |
| Fading of Labels, Nesting insects | √ | | | 12/10/2021 |
| Check Condensate Drains | √ | | | 12/10/2021 |
| Bolted Lids | √ | | | 12/10/2021 |
| **Quarterly** | **Blower 301** | **Blower 302** | **Flare** | |
| Lubricate Blowers / Check by Testing Hand and Auto Position | √ | √ | -- | 12/10/2021 |
| Inspect Ignitor Gap, Wiring,Pilot, Thermocouple Voltage | -- | -- | √ | 12/10/2021 |
| Shut Down Valve FV-301 | √ | √ | √ | 12/10/2021 |
| Zero out Pressure, Delta Pressure, and Vacuum Gauges | √ | √ | √ | 12/10/2021 |
| Remove Debris in 8" Blind Flange Inspection Port | √ | √ | √ | 12/10/2021 |
| Test Louvers | √ | √ | √ | 12/10/2021 |
| Test Pilot Fail Shutdown | √ | √ | √ | 12/10/2021 |
| Test Flame Fail Shutdown | √ | √ | √ | 12/10/2021 |
| Test Low Temperature Shutdown | √ | √ | √ | 12/10/2021 |
| **Semi- Annual** | **Gas Well Vaults No.** | | | |
| Open Wellhead Vaults Check for Mechanical Issues | | | | 8/4/2021 |
| Inspect All Fittings | | | | 8/4/2021 |
| Open Condensate Drain Hatch and Inspect | | | | 8/4/2021 |
| **Annual** | **Gas Well Vaults No.** | **Flare** | | |
| Open and Close Throttling Valve | | | | |
| Inspect Sampling Port, Quick Connect Fittings | | | | |
| Inspect Air Flow Rates of all Landfill Pipe Sections | | | | |
| Shut Flare Down: | | | | |
| Check for Loose Bolts on Structure and Flanges | | | | |
| Check Chart Recorder Configuration Sheets Against Actual Secttings to Confirm no Alterations | | | | |

| **COMMENTS** |
|---|
| On 1-19-21 replaced new hoses from nitrogen tank to block valve. Also replaced heat trace surrounding the block valve due to faulty prior assembly. |
| 5/5/21 Replaced missing bolt in B-10 |
| 5/5/21 Drained low spot at e-hill |
| 5/5/21 Replaced broken valve at B-11 |
| 8/4/21 Drained low spot at e-hill |
| 11/5/21 Drained low spot at E-hill |
| 1/6/2022 Drained low spot at E-hill |
| |
| |

# FORM LFG-1
## INSPECTION CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

| | | | |
|---|---|---|---|
| **12/10/2021** | | | **Inspected by : D Cordisco** |
| **Weather : Cloudy** | | | **Temperature (deg. F): 40-45 deg. F** |
| | | | **Humidity (%): 50** |
| **MONITORING TASK** | | | **DATE** |
| **1** | **Flare Piping** | | Checked Weekly |
| | Bolts secure | √ | |
| | Paint | √ | |
| **2** | **Manual Valves** | | Checked Weekly |
| | Normally Open | √ | |
| **3** | **Propane Gas** | | Checked Weekly |
| | Available - (regulator open) | √ | |
| **4** | **Nitrogen Gas** | | Checked Weekly |
| | Open Valve- Check Quantity | √ | |
| **5** | **Blowers** | | Checked Daily - Greased 8/23/21 |
| | Turn Manually (≤ 32◦F) | √ | |
| **6** | **Alarms (Clear)** | | Checked Weekly |
| | Combustible Gas Detectors | √ | Checked Weekly FDNY 10/06/21 |
| | Sharp Eye IR/UV | √ | Checked weekly Replaced unit 301 on 10/2/2019 w/FDNY |
| | FACP - System Normal | √ | ( Annual FDNY Inspection by SG 10/06/21 |
| | Power | √ | Checked Weekly |
| **7** | **Gas Analyzer** | | Weekly |
| | % Methane available (25-50%) | √ | Weekly |
| | % Oxygen ( ≤ 5%) | √ | Weekly |
| | check valve | √ | Weekly |
| **8** | **PERIMETER, FENCE, GATES & LOCKS** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Debris | √ | Checked Weekly |
| | Fence Damage | √ | Checked Weekly |
| | Gate Alignment and Swing Action | √ | Checked Weekly |
| | Fire Extinguishers | √ | Checked Weekly (Inspected 10/6/21) |
| | Yard Hydrants (2) | √ | Checked Weekly (Tested 10/6/21) |
| | Large Fire Boss | √ | Checked Weekly |
| | Lock Lubrication and Function | √ | Checked Weekly |
| **9** | **PLC Cabinet** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Power Supply | √ | Checked Weekly |
| | Test Lamps | √ | Checked Weekly |
| | Circular Chart | √ | Checked Weekly |
| | Louvers Open | √ | Checked Weekly |
| | "Auto"Start | √ | Checked Weekly |
| | Purge Motor | √ | Checked Weekly |
| | Louvers Close / Pilot | √ | Checked Weekly |
| | Blowers Activated | √ | Checked Weekly |
| | Shutdown Valve Open | √ | Checked Weekly |
| | Manually Adjust Louvers (optional) | √ | Checked Weekly |
| | Autodialer Activated | √ | Checked Weekly |

# FORM DP-1
## LANDFILL GAS MANAGEMENT SYSTEM
## December 2021
## DESCRIPTION OF DEFICIENCIES AND PROBLEMS
## BROOKFIELD AVENUE LANDFILL

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 10/21/20 | Well C-27 | No bolts on vault | |
| 10/21/20 | Well C-29 | Lid hooks bars damaged | |
| 11/25/20 | Well A-9,13,17 | Temp Probe replacement needed | |
| 12/2/20 | Flare station | Hydrogen tanks needed | (2) Delivered 12/29/20 |
| 1/4/21 | Flare panel | Chart paper needed | |
| 1/25/21 | C-Paper/Nitrogen Tank | Paper needed/Nitrogen Refill | Paper inside cabinet. |
| 2/5/21 | Flare station | Block valve troubleshoot | Solenoid replacement needed. |
| 3/10/21 | Flare station | Replaced Solenoid | Nitrogen leak repaired. |
| 5/26/21 | Flare station | G.C Calibrated | Replaced Calibrated Device |
| 10/6/21 | Flare station | FDNY inspect | All systems passed |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Date:** _____

**Signature:** _____

**FORM LGM-1**
**FLARE STATION MONTHLY OPERATION SUMMARY**
**LANDFILL GAS MANAGEMENT**
**JANUARY 2022**
**BROOKFIELD AVENUE LANDFILL**

| Date | Day | Time | Vac (in. of H20) | Blower 301 (SCFM) | Blower 302 (SCFM) | Total SCFM | % CH4 | % O2 | Temperature (°F) | Blower 301 (hrs) | Blower 302 (hrs) | Blower Frequency (Hz) | Blower 301 (Amps) | Blower 302 (Amps) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/1/2022 | Saturday | | | | | | | | | 32377 | 32301 | | | | |
| 1/2/2022 | Sunday | | | | | | | | | 32391 | 32316 | | | | |
| 1/3/2022 | Monday | | | | | | | | | 32405 | 32330 | | | | |
| 1/4/2022 | Tuesday | | | | | | | | | 32419 | 32344 | | | | |
| 1/5/2022 | Wednesday | | | | | | | | | 32433 | 32358 | | | | |
| 1/6/2022 | Thursday | 8:28 | -6.4 | 178 | 43 | 221 | 31.0 | 0.4 | 1673 | 32447 | 32372 | 26.6 | 6.4 | 6.5 | Flare running (chart recorder issues) |
| 1/7/2022 | Friday | | | | | | | | | 32452 | 32377 | | | | |
| 1/8/2022 | Saturday | | | | | | | | | 32457 | 32382 | | | | |
| 1/9/2022 | Sunday | | | | | | | | | 32462 | 32387 | | | | |
| 1/10/2022 | Monday | | | | | | | | | 32466 | 32391 | | | | |
| 1/11/2022 | Tuesday | | | | | | | | | 32471 | 32396 | | | | |
| 1/12/2022 | Wednesday | | | | | | | | | 32476 | 32401 | | | | |
| 1/13/2022 | Thursday | 8:28 | -5.9 | 183 | 43 | 226 | 30.8 | 1.3 | 1640 | 32481 | 32406 | 25.8 | 6.2 | 6.4 | Flare running (changed chart paper) |
| 1/14/2022 | Friday | | | | | | | | | 32486 | 32411 | | | | |
| 1/15/2022 | Saturday | | | | | | | | | 32491 | 32417 | | | | |
| 1/16/2022 | Sunday | | | | | | | | | 32496 | 32422 | | | | |
| 1/17/2022 | Monday | | | | | | | | | 32501 | 32428 | | | | |
| 1/18/2022 | Tuesday | | | | | | | | | 32506 | 32433 | | | | |
| 1/19/2022 | Wednesday | | | | | | | | | 32511 | 32438 | | | | |
| 1/20/2022 | Thursday | | | | | | | | | 32516 | 32444 | | | | |
| 1/21/2022 | Friday | 10:00 | -0.2 | 0 | 0 | 0 | 22.3 | 0.7 | 24 | 32521 | 32449 | 0.0 | 0.0 | 0.0 | Flare off due to frozen components (changed chart paper) |
| 1/22/2022 | Saturday | | | | | | | | | 32528 | 32455 | | | | |
| 1/23/2022 | Sunday | | | | | | | | | 32534 | 32461 | | | | |
| 1/24/2022 | Monday | | | | | | | | | 32541 | 32466 | | | | |
| 1/25/2022 | Tuesday | 7:45 | -5.9 | 113 | 28 | 141 | 33.1 | 0.8 | 1580 | 32547 | 32472 | 26.0 | 5.8 | 5.9 | Flare off at arrival (changed chart paper) |
| 1/26/2022 | Wednesday | | | | | | | | | 32558 | 32483 | | | | |
| 1/27/2022 | Thursday | | | | | | | | | 32569 | 32494 | | | | |
| 1/28/2022 | Friday | | | | | | | | | 32580 | 32505 | | | | |
| 1/29/2022 | Saturday | | | | | | | | | 32591 | 32516 | | | | |
| 1/30/2022 | Sunday | | | | | | | | | 32602 | 32527 | | | | |
| 1/31/2022 | Monday | | | | | | | | | 32613 | 32538 | | | | |
| | | | | | AVG | 147.0 | 29.3 | 0.8 | TOTAL | 236 | 237 | | | | |
| | | | | | TOTAL MONTHLY SCF | | | | | | | | | | |
| | | | | | | 2,086,420 | | | | | | | | | |

**COMMENTS**

DNR - Did Not Run Flare SD shutdown

No Readings on weekends and holidays unless noted

(1) fault alarm CGD-1 repaired reprogrammed (2) shutdown low flare temperature (3) shutdown due to power outage (4) alarm cleared (5) CGD trouble (6) UV/IR in "fault (7) Flame fail (8) MTC fail (9) Thermocouple replaced

# FORM LGM-2
## MONTHLY MONITORING ACTIVITIES CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## January-22

| | |
|---|---|
| **Date:2-4-22** | **Inspected by: D Cordisco** |
| **Partly Cloudy** | **Temperature: 50-55 degree. F** |
| **Barometric Pressure (Hg): 29.88** | |

| | MONITORING TASK | INSPECT | REMARKS |
|---|---|---|---|
| **Gauges** | **Blower Vacuum (in. WC)** | | |
| | PDI-301 | √ | Checked Weekly |
| | PD!-302 | √ | Checked Weekly |
| | **Flow Transmitter (SCFM)** | | |
| | FT-301 | √ | Checked Weekly |
| | FT-302 | √ | Checked Weekly |
| | **Field Inlet Temperature (◦F)** | | |
| | TI-301 | √ | Checked Weekly |
| | TI-302 | √ | Checked Weekly |
| | **Pressure Differential Indicator** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-301 | √ | Checked Weekly |
| | PI-302 | √ | Checked Weekly |
| | **Blower Inlet Temperature (◦F)** | | |
| | TI-303 | √ | Checked Weekly |
| | TI-304 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-303 | √ | Checked Weekly |
| | PI-304 | √ | Checked Weekly |
| | **Blower Discharge Temperature (◦F)** | | |
| | TI-305 | √ | Checked Weekly |
| | TI-306 | √ | Checked Weekly |
| | **Flow Transmitter Totalizer (SCFM)** | | |
| | FT-303 | √ | Checked Weekly |
| | **FAU - TDL Gas Analyzer** | √ | Checked Weekly |
| | %CH4 (0-100%) | √ | Checked Weekly |
| | CO2 (0-100%0 | √ | Checked Weekly |
| | O2 (0-25%) | √ | Checked Weekly |
| **CP** | **Control Panel/ PLC Analog Data** | | |
| | Landfill Vacuum (in. WC) | √ | Checked Weekly |
| | Flow (SCFM) | √ | Checked Weekly |
| | Blower 301 hrs. | √ | greased on 2/4/22 |
| | Blower 302 hrs. | √ | greased on 2/4/22 |
| | Flare Temperature (◦F) | √ | Checked Weekly |
| | LFG % Methane | √ | Checked Weekly |
| | LFG % Oxygen | √ | Checked Weekly |
| | Area LEL | √ | Checked Weekly |
| | Blower Frequency (Hz) | √ | Checked Weekly |
| | Blower (Amps) | √ | Checked Weekly |

**FORM LGM-3**
**INSPECTION CHECKLIST**
**LANDFILL GAS MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| **February 4 2022** | | | | **Inspected By: D.Cordisco** |
|---|---|---|---|---|
| **INSPECTION TASK** | **LOCATION** | | | **REMARKS** |
| **Daily** | **Blower 301** | **Blower 302** | **Flare** | |
| Visibly Inspect the Unit - repair leaks and loose wires | -- | -- | √ | 2/4/2022 |
| Test Lamps by Pushing the Run Lamp and Alarm Shutdown | -- | -- | √ | 2/4/2022 |
| Inspect Power Distribution System | -- | -- | √ | 2/4/2022 |
| **Weekly** | **Blower 301** | **Blower 302** | **Flare** | |
| Rotate Shafts on Blowers | -- | -- | -- | |
| Blowers are running no need to rotate | √ | √ | -- | 2/4/2022 |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| **Monthly** | **Gas Well Vaults No.** | | | |
| Well Casings, Valves, Instruments, Piping | √ | | | 2/4/2022 |
| Odors, High Gas Readings, | √ | | | 2/4/2022 |
| Dead Vegetation, Settlement | √ | | | 2/4/2022 |
| Vandalism, Damage, Destruction | √ | | | 2/4/2022 |
| Settling, Deterioration of Base | √ | | | 2/4/2022 |
| Fading of Labels, Nesting insects | √ | | | 2/4/2022 |
| Check Condensate Drains | √ | | | 2/4/2022 |
| Bolted Lids | √ | | | 2/4/2022 |
| **Quarterly** | **Blower 301** | **Blower 302** | **Flare** | |
| Lubricate Blowers / Check by Testing Hand and Auto Position | √ | √ | -- | 12/10/2021 |
| Inspect Ignitor Gap, Wiring,Pilot, Thermocouple Voltage | -- | -- | √ | 12/10/2021 |
| Shut Down Valve FV-301 | √ | √ | √ | 12/10/2021 |
| Zero out Pressure, Delta Pressure, and Vacuum Gauges | √ | √ | √ | 12/10/2021 |
| Remove Debris in 8" Blind Flange Inspection Port | √ | √ | √ | 12/10/2021 |
| Test Louvers | √ | √ | √ | 12/10/2021 |
| Test Pilot Fail Shutdown | √ | √ | √ | 12/10/2021 |
| Test Flame Fail Shutdown | √ | √ | √ | 12/10/2021 |
| Test Low Temperature Shutdown | √ | √ | √ | 12/10/2021 |
| **Semi- Annual** | **Gas Well Vaults No.** | | | |
| Open Wellhead Vaults Check for Mechanical Issues | | | | 2/4/2022 |
| Inspect All Fittings | | | | 2/4/2022 |
| Open Condensate Drain Hatch and Inspect | | | | 2/4/2022 |
| **Annual** | **Gas Well Vaults No.** | **Flare** | | |
| Open and Close Throttling Valve | | | | |
| Inspect Sampling Port, Quick Connect Fittings | | | | |
| Inspect Air Flow Rates of all Landfill Pipe Sections | | | | |
| Shut Flare Down: | | | | |
| Check for Loose Bolts on Structure and Flanges | | | | |
| Check Chart Recorder Configuration Sheets Against Actual Secttings to Confirm no Alterations | | | | |

| **COMMENTS** |
|---|
| On 1-19-21 replaced new hoses from nitrogen tank to block valve. Also replaced heat trace surrounding the block valve due to faulty prior assembly. |
| 5/5/21 Replaced missing bolt in B-10 |
| 5/5/21 Drained low spot at e-hill |
| 5/5/21 Replaced broken valve at B-11 |
| 8/4/21 Drained low spot at e-hill |
| 11/5/21 Drained low spot at E-hill |
| 1/6/2022 Drained low spot at E-hill |
| 2/4/2022 Drained low spot at E-hill |
| |

# FORM LFG-1
## INSPECTION CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

| | | | |
|---|---|---|---|
| **2/4/2022** | | | **Inspected by : D Cordisco** |
| **Weather : Rainy** | | | **Temperature (deg. F): 50-55 deg. F** |
| | | | **Humidity (%): 50** |
| **MONITORING TASK** | | | **DATE** |
| **1** | **Flare Piping** | | Checked Weekly |
| | Bolts secure | √ | |
| | Paint | √ | |
| **2** | **Manual Valves** | | Checked Weekly |
| | Normally Open | √ | |
| **3** | **Propane Gas** | | Checked Weekly |
| | Available - (regulator open) | √ | |
| **4** | **Nitrogen Gas** | | Checked Weekly |
| | Open Valve- Check Quantity | √ | |
| **5** | **Blowers** | | Checked Daily - Greased 2/4/22 |
| | Turn Manually (≤ 32◦F) | √ | |
| **6** | **Alarms (Clear)** | | Checked Weekly |
| | Combustible Gas Detectors | √ | Checked Weekly FDNY 10/06/21 |
| | Sharp Eye IR/UV | √ | Checked weekly Replaced unit 301 on 10/2/2019 w/FDNY |
| | FACP - System Normal | √ | ( Annual FDNY Inspection by SG 10/06/21 |
| | Power | √ | Checked Weekly |
| **7** | **Gas Analyzer** | | Weekly |
| | % Methane available (25-50%) | √ | Weekly |
| | % Oxygen ( ≤ 5%) | √ | Weekly |
| | check valve | √ | Weekly |
| **8** | **PERIMETER, FENCE, GATES & LOCKS** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Debris | √ | Checked Weekly |
| | Fence Damage | √ | Checked Weekly |
| | Gate Alignment and Swing Action | √ | Checked Weekly |
| | Fire Extinguishers | √ | Checked Weekly (Inspected 10/6/21) |
| | Yard Hydrants (2) | √ | Checked Weekly (Tested 10/6/21) |
| | Large Fire Boss | √ | Checked Weekly |
| | Lock Lubrication and Function | √ | Checked Weekly |
| **9** | **PLC Cabinet** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Power Supply | √ | Checked Weekly |
| | Test Lamps | √ | Checked Weekly |
| | Circular Chart | √ | Checked Weekly |
| | Louvers Open | √ | Checked Weekly |
| | "Auto"Start | √ | Checked Weekly |
| | Purge Motor | √ | Checked Weekly |
| | Louvers Close / Pilot | √ | Checked Weekly |
| | Blowers Activated | √ | Checked Weekly |
| | Shutdown Valve Open | √ | Checked Weekly |
| | Manually Adjust Louvers (optional) | √ | Checked Weekly |
| | Autodialer Activated | √ | Checked Weekly |

# FORM DP-1
## LANDFILL GAS MANAGEMENT SYSTEM
## January 2022
## DESCRIPTION OF DEFICIENCIES AND PROBLEMS
## BROOKFIELD AVENUE LANDFILL

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 10/21/20 | Well C-27 | No bolts on vault | |
| 10/21/20 | Well C-29 | Lid hooks bars damaged | |
| 11/25/20 | Well A-9,13,17 | Temp Probe replacement needed | |
| 12/2/20 | Flare station | Hydrogen tanks needed | (2) Delivered 12/29/20 |
| 1/4/21 | Flare panel | Chart paper needed | |
| 1/25/21 | C-Paper/Nitrogen Tank | Paper needed/Nitrogen Refill | Paper inside cabinet. |
| 2/5/21 | Flare station | Block valve troubleshoot | Solenoid replacement needed. |
| 3/10/21 | Flare station | Replaced Solenoid | Nitrogen leak repaired. |
| 5/26/21 | Flare station | G.C Calibrated | Replaced Calibrated Device |
| 10/6/21 | Flare station | FDNY inspect | All systems passed |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Date: 1/28/22**

**Signature:** _____

**FORM LGM-1**
**FLARE STATION MONTHLY OPERATION SUMMARY**
**LANDFILL GAS MANAGEMENT**
**FEBRUARY 2022**
**BROOKFIELD AVENUE LANDFILL**

| Date | Day | Time | Vac (in. of H20) | Blower 301 (SCFM) | Blower 302 (SCFM) | Total SCFM | % CH4 | % O2 | Temperature (°F) | Blower 301 (hrs) | Blower 302 (hrs) | Blower Frequency (Hz) | Blower 301 (Amps) | Blower 302 (Amps) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2/1/2022 | Tuesday | | | | | | | | | 32624 | 32549 | | | | |
| 2/2/2022 | Wednesday | | | | | | | | | 32635 | 32560 | | | | |
| 2/3/2022 | Thursday | | | | | | | | | 32646 | 32571 | | | | |
| 2/4/2022 | Friday | 8:17 | -6.0 | 187 | 37 | 224 | 29.2 | 0.1 | 1526 | 32657 | 32582 | 26.2 | 6.1 | 5.8 | Flare running (changed chart paper) |
| 2/5/2022 | Saturday | | | | | | | | | 32658 | 32583 | | | | |
| 2/6/2022 | Sunday | | | | | | | | | 32660 | 32585 | | | | |
| 2/7/2022 | Monday | | | | | | | | | 32661 | 32586 | | | | |
| 2/8/2022 | Tuesday | | | | | | | | | 32662 | 32587 | | | | |
| 2/9/2022 | Wednesday | | | | | | | | | 32663 | 32588 | | | | |
| 2/10/2022 | Thursday | | | | | | | | | 32665 | 32590 | | | | |
| 2/11/2022 | Friday | 7:41 | -5.8 | 124 | 0 | 169 | 37.5 | 1.2 | 1572 | 32666 | 32591 | 26.5 | 6.3 | 6.2 | Flare off at arrival (changed chart paper) |
| 2/12/2022 | Saturday | | | | | | | | | 32672 | 32593 | | | | |
| 2/13/2022 | Sunday | | | | | | | | | 32678 | 32594 | | | | |
| 2/14/2022 | Monday | | | | | | | | | 32684 | 32596 | | | | |
| 2/15/2022 | Tuesday | | | | | | | | | 32689 | 32598 | | | | |
| 2/16/2022 | Wednesday | | | | | | | | | 32695 | 32599 | | | | |
| 2/17/2022 | Thursday | 7:41 | 0.1 | 0 | 0 | 0 | 34.0 | 2.3 | 45 | 32701 | 32601 | 0.0 | 0.0 | 0.0 | Flare off |
| 2/18/2022 | Friday | | | | | | | | | 32701 | 32601 | | | | |
| 2/19/2022 | Saturday | | | | | | | | | 32701 | 32601 | | | | |
| 2/20/2022 | Sunday | | | | | | | | | 32701 | 32601 | | | | |
| 2/21/2022 | Monday | | | | | | | | | 32701 | 32601 | | | | |
| 2/22/2022 | Tuesday | | | | | | | | | 32701 | 32601 | | | | |
| 2/23/2022 | Wednesday | | | | | | | | | 32701 | 32601 | | | | |
| 2/24/2022 | Thursday | 8:32 | 0.0 | 0 | 0 | 0 | 0.0 | 0.0 | 0 | 32701 | 32601 | 0.0 | 0 | 0.0 | Flare off |
| 2/25/2022 | Friday | | | | | | | | | 32716 | 32619 | | | | |
| 2/26/2022 | Saturday | | | | | | | | | 32732 | 32638 | | | | |
| 2/27/2022 | Sunday | | | | | | | | | 32747 | 32656 | | | | |
| 2/28/2022 | Monday | | | | | | | | | 32762 | 32675 | | | | |
| | | | | | AVG | 98.3 | 25.2 | 0.9 | TOTAL | 138 | 126 | | | | |
| | | | | | | TOTAL MONTHLY SCF | | | | | | | | | |
| | | | | | | 739,823 | | | | | | | | | |

**COMMENTS**

DNR - Did Not Run Flare SD shutdown

No Readings on weekends and holidays unless noted

(1) fault alarm CGD-1 repaired reprogrammed (2) shutdown low flare temperature (3) shutdown due to power outage (4) alarm cleared (5) CGD trouble (6) UV/IR in "fault (7) Flame fail (8) MTC fail (9) Thermocouple replaced

**FORM LGM-1**
**FLARE STATION MONTHLY OPERATION SUMMARY**
**LANDFILL GAS MANAGEMENT**
**MARCH 2022**
**BROOKFIELD AVENUE LANDFILL**

| Date | Day | Time | Vac (in. of H20) | Blower 301 (SCFM) | Blower 302 (SCFM) | Total SCFM | % CH4 | % O2 | Temperature (°F) | Blower 301 (hrs) | Blower 302 (hrs) | Blower Frequency (Hz) | Blower 301 (Amps) | Blower 302 (Amps) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/1/2022 | Tuesday | | | | | | | | | 32777 | 32693 | | | | |
| 3/2/2022 | Wednesday | | | | | | | | | 32793 | 32711 | | | | |
| 3/3/2022 | Thursday | | | | | | | | | 32808 | 32730 | | | | |
| 3/4/2022 | Friday | 9:50 | -6.0 | 171 | 45 | 216 | 28.2 | 1.5 | 1553 | 32823 | 32748 | 25.9 | 6.1 | 6.4 | Flare off at arrival (changed chart paper) |
| 3/5/2022 | Saturday | | | | | | | | | 32842 | 32765 | | | | |
| 3/6/2022 | Sunday | | | | | | | | | 32861 | 32783 | | | | |
| 3/7/2022 | Monday | | | | | | | | | 32880 | 32800 | | | | |
| 3/8/2022 | Tuesday | | | | | | | | | 32898 | 32817 | | | | |
| 3/9/2022 | Wednesday | | | | | | | | | 32917 | 32835 | | | | |
| 3/10/2022 | Thursday | 7:32 | -5.4 | 130 | 2 | 132 | 26.5 | 0.9 | 1543 | 32936 | 32852 | 25.7 | 6.0 | 5.9 | Flare running (changed chart paper) |
| 3/11/2022 | Friday | | | | | | | | | 32943 | 32860 | | | | |
| 3/12/2022 | Saturday | | | | | | | | | 32949 | 32868 | | | | |
| 3/13/2022 | Sunday | | | | | | | | | 32956 | 32877 | | | | |
| 3/14/2022 | Monday | | | | | | | | | 32963 | 32885 | | | | |
| 3/15/2022 | Tuesday | | | | | | | | | 32969 | 32893 | | | | |
| 3/16/2022 | Wednesday | 7:04 | -6.0 | 155 | 69 | 224 | 27.5 | 0.3 | 1580 | 32976 | 32901 | 26.9 | 6.0 | 6.0 | Flare off at arrival (changed chart paper) |
| 3/17/2022 | Thursday | | | | | | | | | 33001 | 32925 | | | | |
| 3/18/2022 | Friday | | | | | | | | | 33025 | 32949 | | | | |
| 3/19/2022 | Saturday | | | | | | | | | 33050 | 32973 | | | | |
| 3/20/2022 | Sunday | | | | | | | | | 33074 | 32996 | | | | |
| 3/21/2022 | Monday | | | | | | | | | 33099 | 33020 | | | | |
| 3/22/2022 | Tuesday | 6:37 | -5.5 | 129 | 44 | 173 | 27.1 | 2.1 | 1694 | 33123 | 33044 | 23.8 | 5.7 | 5.8 | Flare off at arrival (changed chart paper) |
| 3/23/2022 | Wednesday | | | | | | | | | 33140 | 33061 | | | | |
| 3/24/2022 | Thursday | | | | | | | | | 33156 | 33078 | | | | |
| 3/25/2022 | Friday | | | | | | | | | 33173 | 33095 | | | | |
| 3/26/2022 | Saturday | | | | | | | | | 33189 | 33112 | | | | |
| 3/27/2022 | Sunday | | | | | | | | | 33206 | 33128 | | | | |
| 3/28/2022 | Monday | | | | | | | | | 33222 | 33145 | | | | |
| 3/29/2022 | Tuesday | | | | | | | | | 33239 | 33162 | | | | |
| 3/30/2022 | Wednesday | 6:53 | 0.0 | 0 | 0 | 0 | 16.0 | 3.4 | 0 | 33255 | 33179 | 0.0 | 0.0 | 0.0 | Flare off quality |
| 3/31/2022 | Thursday | | | | | | | | | 33258 | 33183 | | | | |
| | | | | | AVG | 149.0 | 20.9 | 1.6 | TOTAL | 445 | 452 | | | | |
| | | | | | TOTAL MONTHLY SCF | | | | | | | | | | |
| | | | | | | 4,044,233 | | | | | | | | | |

**COMMENTS**

DNR - Did Not Run Flare SD shutdown

No Readings on weekends and holidays unless noted

(1) fault alarm CGD-1 repaired reprogrammed (2) shutdown low flare temperature (3) shutdown due to power outage (4) alarm cleared (5) CGD trouble (6) UV/IR in *fault (7) Flame fail (8) MTC fail (9) Thermocouple replaced

# FORM LGM-2
## MONTHLY MONITORING ACTIVITIES CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL
## March-22

| | |
|---|---|
| **Date:3-4-2022** | **Inspected by: D Cordisco** |
| **Partly Cloudy** | **Temperature: 25-35 degree. F** |
| **Barometric Pressure (Hg): 30.57** | |

| | MONITORING TASK | INSPECT | REMARKS |
|---|---|---|---|
| **Gauges** | **Blower Vacuum (in. WC)** | | |
| | PDI-301 | √ | Checked Weekly |
| | PD!-302 | √ | Checked Weekly |
| | **Flow Transmitter (SCFM)** | | |
| | FT-301 | √ | Checked Weekly |
| | FT-302 | √ | Checked Weekly |
| | **Field Inlet Temperature (◦F)** | | |
| | TI-301 | √ | Checked Weekly |
| | TI-302 | √ | Checked Weekly |
| | **Pressure Differential Indicator** | | |
| | PDI-301 | √ | Checked Weekly |
| | PDI-302 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-301 | √ | Checked Weekly |
| | PI-302 | √ | Checked Weekly |
| | **Blower Inlet Temperature (◦F)** | | |
| | TI-303 | √ | Checked Weekly |
| | TI-304 | √ | Checked Weekly |
| | **Pressure Indicator** | | |
| | PI-303 | √ | Checked Weekly |
| | PI-304 | √ | Checked Weekly |
| | **Blower Discharge Temperature (◦F)** | | |
| | TI-305 | √ | Checked Weekly |
| | TI-306 | √ | Checked Weekly |
| | **Flow Transmitter Totalizer (SCFM)** | | |
| | FT-303 | √ | Checked Weekly |
| | **FAU - TDL Gas Analyzer** | √ | Checked Weekly |
| | %CH4 (0-100%) | √ | Checked Weekly |
| | CO2 (0-100%0 | √ | Checked Weekly |
| | O2 (0-25%) | √ | Checked Weekly |
| **CP** | **Control Panel/ PLC Analog Data** | | |
| | Landfill Vacuum (in. WC) | √ | Checked Weekly |
| | Flow (SCFM) | √ | Checked Weekly |
| | Blower 301 hrs. | √ | greased on 2/4/22 |
| | Blower 302 hrs. | √ | greased on 2/4/22 |
| | Flare Temperature (◦F) | √ | Checked Weekly |
| | LFG % Methane | √ | Checked Weekly |
| | LFG % Oxygen | √ | Checked Weekly |
| | Area LEL | √ | Checked Weekly |
| | Blower Frequency (Hz) | √ | Checked Weekly |
| | Blower (Amps) | √ | Checked Weekly |

**FORM LGM-3**
**INSPECTION CHECKLIST**
**LANDFILL GAS MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| **March 4 2022** | | | | **Inspected By: D.Cordisco** |
|---|---|---|---|---|
| **INSPECTION TASK** | **LOCATION** | | | **REMARKS** |
| **Daily** | **Blower 301** | **Blower 302** | **Flare** | |
| Visibly Inspect the Unit - repair leaks and loose wires | -- | -- | √ | 3/4/2022 |
| Test Lamps by Pushing the Run Lamp and Alarm Shutdown | -- | -- | √ | 3/4/2022 |
| Inspect Power Distribution System | -- | -- | √ | 3/4/2022 |
| **Weekly** | **Blower 301** | **Blower 302** | **Flare** | |
| Rotate Shafts on Blowers | -- | -- | -- | |
| Blowers are running no need to rotate | √ | √ | -- | 3/4/2022 |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| | | | -- | |
| **Monthly** | **Gas Well Vaults No.** | | | |
| Well Casings, Valves, Instruments, Piping | √ | | | 3/4/2022 |
| Odors, High Gas Readings, | √ | | | 3/4/2022 |
| Dead Vegetation, Settlement | √ | | | 3/4/2022 |
| Vandalism, Damage, Destruction | √ | | | 3/4/2022 |
| Settling, Deterioration of Base | √ | | | 3/4/2022 |
| Fading of Labels, Nesting insects | √ | | | 3/4/2022 |
| Check Condensate Drains | √ | | | 3/4/2022 |
| Bolted Lids | √ | | | 3/4/2022 |
| **Quarterly** | **Blower 301** | **Blower 302** | **Flare** | |
| Lubricate Blowers / Check by Testing Hand and Auto Position | √ | √ | -- | 3/4/2022 |
| Inspect Ignitor Gap, Wiring,Pilot, Thermocouple Voltage | -- | -- | √ | 3/4/2022 |
| Shut Down Valve FV-301 | √ | √ | √ | 3/4/2022 |
| Zero out Pressure, Delta Pressure, and Vacuum Gauges | √ | √ | √ | 3/4/2022 |
| Remove Debris in 8" Blind Flange Inspection Port | √ | √ | √ | 3/4/2022 |
| Test Louvers | √ | √ | √ | 3/4/2022 |
| Test Pilot Fail Shutdown | √ | √ | √ | 3/4/2022 |
| Test Flame Fail Shutdown | √ | √ | √ | 3/4/2022 |
| Test Low Temperature Shutdown | √ | √ | √ | 3/4/2022 |
| **Semi- Annual** | **Gas Well Vaults No.** | | | |
| Open Wellhead Vaults Check for Mechanical Issues | | | | 2/4/2022 |
| Inspect All Fittings | | | | 2/4/2022 |
| Open Condensate Drain Hatch and Inspect | | | | 2/4/2022 |
| **Annual** | **Gas Well Vaults No.** | **Flare** | | |
| Open and Close Throttling Valve | | | | |
| Inspect Sampling Port, Quick Connect Fittings | | | | |
| Inspect Air Flow Rates of all Landfill Pipe Sections | | | | |
| Shut Flare Down: | | | | |
| Check for Loose Bolts on Structure and Flanges | | | | |
| Check Chart Recorder Configuration Sheets Against Actual Secttings to Confirm no Alterations | | | | |

| **COMMENTS** |
|---|
| On 1-19-21 replaced new hoses from nitrogen tank to block valve. Also replaced heat trace surrounding the block valve due to faulty prior assembly. |
| 5/5/21 Replaced missing bolt in B-10 |
| 5/5/21 Drained low spot at e-hill |
| 5/5/21 Replaced broken valve at B-11 |
| 8/4/21 Drained low spot at e-hill |
| 11/5/21 Drained low spot at E-hill |
| 1/6/2022 Drained low spot at E-hill |
| 2/4/2022 Drained low spot at E-hill |
| |

# FORM LFG-1
## INSPECTION CHECKLIST
## LANDFILL GAS MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

| | | | |
|---|---|---|---|
| **3/4/2022** | | | **Inspected by : D Cordisco** |
| **Weather : Clear** | | | **Temperature (deg. F): 25-35 deg. F** |
| | | | **Humidity (%): 50** |
| **MONITORING TASK** | | | **DATE** |
| **1** | **Flare Piping** | | Checked Weekly |
| | Bolts secure | √ | |
| | Paint | √ | |
| **2** | **Manual Valves** | | Checked Weekly |
| | Normally Open | √ | |
| **3** | **Propane Gas** | | Checked Weekly |
| | Available - (regulator open) | √ | |
| **4** | **Nitrogen Gas** | | Checked Weekly |
| | Open Valve- Check Quantity | √ | |
| **5** | **Blowers** | | Checked Daily - Greased 2/4/22 |
| | Turn Manually (≤ 32◦F) | √ | |
| **6** | **Alarms (Clear)** | | Checked Weekly |
| | Combustible Gas Detectors | √ | Checked Weekly FDNY 10/06/21 |
| | Sharp Eye IR/UV | √ | Checked weekly Replaced unit 301 on 10/2/2019 w/FDNY |
| | FACP - System Normal | √ | ( Annual FDNY Inspection by SG 10/06/21 |
| | Power | √ | Checked Weekly |
| **7** | **Gas Analyzer** | | Weekly |
| | % Methane available (25-50%) | √ | Weekly |
| | % Oxygen ( ≤ 5%) | √ | Weekly |
| | check valve | √ | Weekly |
| **8** | **PERIMETER, FENCE, GATES & LOCKS** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Debris | √ | Checked Weekly |
| | Fence Damage | √ | Checked Weekly |
| | Gate Alignment and Swing Action | √ | Checked Weekly |
| | Fire Extinguishers | √ | Checked Weekly (Inspected 10/6/21) |
| | Yard Hydrants (2) | √ | Checked Weekly (Tested 10/6/21) |
| | Large Fire Boss | √ | Checked Weekly |
| | Lock Lubrication and Function | √ | Checked Weekly |
| **9** | **PLC Cabinet** | | Checked Weekly |
| | Vandalism | √ | Checked Weekly |
| | Power Supply | √ | Checked Weekly |
| | Test Lamps | √ | Checked Weekly |
| | Circular Chart | √ | Checked Weekly |
| | Louvers Open | √ | Checked Weekly |
| | "Auto"Start | √ | Checked Weekly |
| | Purge Motor | √ | Checked Weekly |
| | Louvers Close / Pilot | √ | Checked Weekly |
| | Blowers Activated | √ | Checked Weekly |
| | Shutdown Valve Open | √ | Checked Weekly |
| | Manually Adjust Louvers (optional) | √ | Checked Weekly |
| | Autodialer Activated | √ | Checked Weekly |

# FORM DP-1
## LANDFILL GAS MANAGEMENT SYSTEM
## March 2022
## DESCRIPTION OF DEFICIENCIES AND PROBLEMS
## BROOKFIELD AVENUE LANDFILL

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 10/21/20 | Well C-27 | No bolts on vault | |
| 10/21/20 | Well C-29 | Lid hooks bars damaged | |
| 11/25/20 | Well A-9,13,17 | Temp Probe replacement needed | |
| 12/2/20 | Flare station | Hydrogen tanks needed | (2) Delivered 12/29/20 |
| 1/4/21 | Flare panel | Chart paper needed | |
| 1/25/21 | C-Paper/Nitrogen Tank | Paper needed/Nitrogen Refill | Paper inside cabinet. |
| 2/5/21 | Flare station | Block valve troubleshoot | Solenoid replacement needed. |
| 3/10/21 | Flare station | Replaced Solenoid | Nitrogen leak repaired. |
| 5/26/21 | Flare station | G.C Calibrated | Replaced Calibrated Device |
| 10/6/21 | Flare station | FDNY inspect | All systems passed |
| | | | |
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**Date:** _____

**Signature:** _____

APPENDIX D

FINAL COVER SYSTEM

# FORM FCS-1
## QUARTERLY INSPECTION CHECKLIST
## FINAL COVER SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: April 26, 2021** | **Inspected By: R. Bowden, J. Menniti**

| INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4A | 4B | 5 | 6 | |
| Surface Cracks | √ | √ | √ | √ | √ | √ | √ | |
| Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| Vector Penetration | √ | √ | √ | √ | √ | √ | √ | |
| Settlement | √ | √ | √ | √ | √ | √ | √ | |
| Erosion | √ | √ | √ | √ | √ | √ | √ | |
| Slope Stability | √ | √ | √ | √ | √ | √ | √ | |
| Seepage | √ | √ | √ | √ | √ | √ | √ | |
| Vandalism (Debris) | √ | √ | √ | √ | √ | √ | √ | |
| Vegetation Islands | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

**FORM DP-1**
**FINAL COVER SYSTEM: FCS-1**
**2ND QUARTER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| | | | |
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**Date:** 4/26/21

**Inspected By:** R. Bowden

**Signature:** RC Bowden

# FORM FCS-1
## QUARTERLY INSPECTION CHECKLIST
## FINAL COVER SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: May 25, 2021** | **Inspected By: C. Lambert, J. Menniti**

| INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4A | 4B | 5 | 6 | |
| Surface Cracks | √ | √ | √ | √ | √ | √ | √ | |
| Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| Vector Penetration | √ | √ | √ | √ | √ | √ | √ | |
| Settlement | √ | √ | √ | √ | √ | √ | √ | |
| Erosion | √ | √ | √ | √ | √ | √ | √ | |
| Slope Stability | √ | √ | √ | √ | √ | √ | √ | |
| Seepage | √ | √ | √ | √ | √ | √ | √ | |
| Vandalism (Debris) | √ | √ | √ | √ | √ | √ | √ | |
| Vegetation Islands | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

**FORM DP-1**
**FINAL COVER SYSTEM: FCS-1**
**2ND QUARTER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
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**Date:** 5/25/21

**Inspected By:** C. Lambert & J. Menitti

**Signature:** RC Bowden

# FORM FCS-1
## QUARTERLY INSPECTION CHECKLIST
## FINAL COVER SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: June 29, 2021** | **Inspected By: C. Lambert, J. Menniti**

| INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4A | 4B | 5 | 6 | |
| Surface Cracks | √ | √ | √ | √ | √ | √ | √ | |
| Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| Vector Penetration | √ | √ | √ | √ | √ | √ | √ | |
| Settlement | √ | √ | √ | √ | √ | √ | √ | |
| Erosion | √ | √ | √ | √ | √ | √ | √ | |
| Slope Stability | √ | √ | √ | √ | √ | √ | √ | |
| Seepage | √ | √ | √ | √ | √ | √ | √ | |
| Vandalism (Debris) | √ | √ | √ | √ | √ | √ | √ | |
| Vegetation Islands | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

**FORM DP-1**
**FINAL COVER SYSTEM: FCS-1**
**2ND QUARTER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| | | | |
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**Date:** 6/29/21

**Inspected By:** C. Lambert & J. Menitti

**Signature:** RC Bowden

# FORM FCS-1
## QUARTERLY INSPECTION CHECKLIST
## FINAL COVER SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: July 28, 2021** | **Inspected By: R. Bowden, J. Menniti**

| INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4A | 4B | 5 | 6 | |
| Surface Cracks | √ | √ | √ | √ | √ | √ | √ | |
| Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| Vector Penetration | √ | √ | √ | √ | √ | √ | √ | |
| Settlement | √ | √ | √ | √ | √ | √ | √ | |
| Erosion | √ | √ | √ | √ | √ | √ | √ | |
| Slope Stability | √ | √ | √ | √ | √ | √ | √ | |
| Seepage | √ | √ | √ | √ | √ | √ | √ | |
| Vandalism (Debris) | √ | √ | √ | √ | √ | √ | √ | |
| Vegetation Islands | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

**FORM DP-1**
**FINAL COVER SYSTEM: FCS-1**
**3RD QUARTER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| | | | |
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**Date:** 7/28/21

**Inspected By:** R. Bowden & J. Menitti

**Signature:** R C Bowden

# FORM FCS-1
## QUARTERLY INSPECTION CHECKLIST
## FINAL COVER SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 8/26/2021** | **Inspected By: Charles Lambert**

| INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4A | 4B | 5 | 6 | |
| Surface Cracks | √ | √ | √ | √ | √ | √ | √ | |
| Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| Vector Penetration | √ | √ | √ | √ | √ | √ | √ | |
| Settlement | √ | √ | √ | √ | √ | √ | √ | |
| Erosion | √ | √ | √ | √ | √ | √ | √ | |
| Slope Stability | √ | √ | √ | √ | √ | √ | √ | |
| Seepage | √ | √ | √ | √ | √ | √ | √ | |
| Vandalism (Debris) | √ | √ | √ | √ | √ | √ | √ | |
| Vegetation Islands | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

**FORM DP-1**
**FINAL COVER SYSTEM: FCS-1**
**4TH QUARTER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
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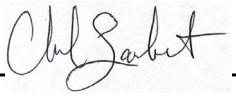
**Date: _8/26/2021_____**

**Inspected By: __Charles Lambert_____**

**Signature: _____**  **_____**

# FORM FCS-1
## QUARTERLY INSPECTION CHECKLIST
## FINAL COVER SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 9/27/2021** | **Inspected By: Charles Lambert**

| INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4A | 4B | 5 | 6 | |
| Surface Cracks | √ | √ | √ | √ | √ | √ | √ | |
| Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| Vector Penetration | √ | √ | √ | √ | √ | √ | √ | |
| Settlement | √ | √ | √ | √ | √ | √ | √ | |
| Erosion | √ | √ | √ | √ | √ | √ | √ | |
| Slope Stability | √ | √ | √ | √ | √ | √ | √ | |
| Seepage | √ | √ | √ | √ | √ | √ | √ | |
| Vandalism (Debris) | √ | √ | √ | √ | √ | √ | √ | |
| Vegetation Islands | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

**FORM DP-1**
**FINAL COVER SYSTEM: FCS-1**
**4TH QUARTER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
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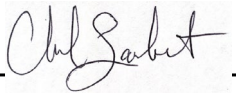
**Date: _9/27/2021_____**

**Inspected By: __Charles Lambert_____**

**Signature: _____**  **_____**

# FORM FCS-1
## QUARTERLY INSPECTION CHECKLIST
## FINAL COVER SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 10/29/2021** | **Inspected By: Charles Lambert**

| INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4A | 4B | 5 | 6 | |
| Surface Cracks | √ | √ | √ | √ | √ | √ | √ | |
| Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| Vector Penetration | √ | √ | √ | √ | √ | √ | √ | |
| Settlement | √ | √ | √ | √ | √ | √ | √ | |
| Erosion | √ | √ | √ | √ | √ | √ | √ | |
| Slope Stability | √ | √ | √ | √ | √ | √ | √ | |
| Seepage | √ | √ | √ | √ | √ | √ | √ | |
| Vandalism (Debris) | √ | √ | √ | √ | √ | √ | √ | |
| Vegetation Islands | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

**FORM DP-1**
**FINAL COVER SYSTEM: FCS-1**
**4TH QUARTER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
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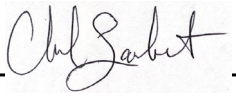
**Date: __10/29/2021_____**

**Inspected By: __Charles Lambert_____**

**Signature: _____**  **_____**

# FORM FCS-1
## QUARTERLY INSPECTION CHECKLIST
## FINAL COVER SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 11/24/2021** | **Inspected By: Amber Bartlett**

| INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4A | 4B | 5 | 6 | |
| Surface Cracks | NS | √ | √ | NS | √ | √ | √ | Cracks in pavement surface. |
| Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| Vector Penetration | √ | √ | √ | √ | √ | √ | √ | |
| Settlement | √ | √ | √ | √ | √ | √ | √ | |
| Erosion | √ | √ | √ | √ | √ | √ | √ | |
| Slope Stability | √ | √ | √ | √ | √ | √ | √ | |
| Seepage | √ | √ | √ | √ | √ | √ | √ | |
| Vandalism (Debris) | √ | √ | √ | √ | √ | √ | √ | |
| Vegetation Islands | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

**FORM DP-1**
**FINAL COVER SYSTEM: FCS-1**
**4TH QUARTER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 11/24/21 | Zones 1 and 4A | Cracks in surface pavement. | None, continued monitoring size of cracks. |
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**Date: 11/24/2021**

**Inspected By: Amber Bartlett**

**Signature:** Amber Bartlett

# FORM FCS-1
## QUARTERLY INSPECTION CHECKLIST
## FINAL COVER SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 12/28/2021** | **Inspected By: Amber Bartlett**

| INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4A | 4B | 5 | 6 | |
| Surface Cracks | NS | √ | √ | NS | √ | √ | √ | Cracks in pavement surface. |
| Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| Vector Penetration | √ | √ | √ | √ | √ | √ | √ | |
| Settlement | √ | √ | √ | √ | √ | √ | √ | |
| Erosion | √ | √ | √ | √ | √ | √ | √ | |
| Slope Stability | √ | √ | √ | √ | √ | √ | √ | |
| Seepage | √ | √ | √ | √ | √ | √ | √ | |
| Vandalism (Debris) | √ | √ | √ | √ | √ | √ | √ | |
| Vegetation Islands | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

**FORM DP-1**
**FINAL COVER SYSTEM: FCS-1**
**4TH QUARTER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 12/28/21 | Zones 1 and 4A | Cracks in surface pavement. | None, continued monitoring size of cracks. |
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**Date: 12/28/2021**

**Inspected By: Amber Bartlett**

**Signature:** Amber Bartlett

# FORM FCS-1
## QUARTERLY INSPECTION CHECKLIST
## FINAL COVER SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 1/28/2022** | **Inspected By: Bob Bowden**

| INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4A | 4B | 5 | 6 | |
| Surface Cracks | NS | √ | √ | NS | √ | √ | √ | Cracks in pavement surface. |
| Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| Vector Penetration | √ | √ | √ | √ | √ | √ | √ | |
| Settlement | √ | √ | √ | √ | √ | √ | √ | |
| Erosion | √ | √ | √ | √ | √ | √ | √ | |
| Slope Stability | √ | √ | √ | √ | √ | √ | √ | |
| Seepage | √ | √ | √ | √ | √ | √ | √ | |
| Vandalism (Debris) | √ | √ | √ | √ | √ | √ | √ | |
| Vegetation Islands | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

**FORM DP-1**
**FINAL COVER SYSTEM: FCS-1**
**1ST QUARTER 2022**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 1/28/22 | Zones 1 and 4A | Cracks in surface pavement. | None, continued monitoring size of cracks. |
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**Date: 1/28/2022**

**Inspected By: Bob Bowden**

**Signature:** RC Bowden

# FORM FCS-1
## QUARTERLY INSPECTION CHECKLIST
## FINAL COVER SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 2/25/2022** | **Inspected By: Bob Bowden**

| INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4A | 4B | 5 | 6 | |
| Surface Cracks | NS | √ | √ | NS | √ | √ | √ | Cracks in pavement surface. |
| Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| Vector Penetration | √ | √ | √ | √ | √ | √ | √ | |
| Settlement | √ | √ | √ | √ | √ | √ | √ | |
| Erosion | √ | √ | √ | √ | √ | √ | √ | |
| Slope Stability | √ | √ | √ | √ | √ | √ | √ | |
| Seepage | √ | √ | √ | √ | √ | √ | √ | |
| Vandalism (Debris) | √ | √ | √ | √ | √ | √ | √ | |
| Vegetation Islands | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

**FORM DP-1**
**FINAL COVER SYSTEM: FCS-1**
**1ST QUARTER 2022**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 2/25/22 | Zones 1 and 4A | Cracks in surface pavement. | None, continued monitoring size of cracks. |
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**Date: 2/25/2022**

**Inspected By: Bob Bowden**

**Signature:** RC Bowden

# FORM FCS-1
## QUARTERLY INSPECTION CHECKLIST
## FINAL COVER SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 3/29/2022** | **Inspected By: Bob Bowden**

| INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4A | 4B | 5 | 6 | |
| Surface Cracks | NS | √ | √ | NS | √ | √ | √ | Cracks in pavement surface. |
| Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| Vector Penetration | √ | √ | √ | √ | √ | √ | √ | |
| Settlement | √ | √ | √ | √ | √ | √ | √ | |
| Erosion | √ | √ | √ | √ | √ | √ | √ | |
| Slope Stability | √ | √ | √ | √ | √ | √ | √ | |
| Seepage | √ | √ | √ | √ | √ | √ | √ | |
| Vandalism (Debris) | √ | √ | √ | √ | √ | √ | √ | |
| Vegetation Islands | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

**FORM DP-1**
**FINAL COVER SYSTEM: FCS-1**
**1ST QUARTER 2022**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 3/29/22 | Zones 1 and 4A | Cracks in surface pavement. | None, continued monitoring size of cracks. |
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**Date: 3/29/2022**

**Inspected By: Bob Bowden**

**Signature:** RC Bowden

# APPENDIX E

# STORMWATER MANAGEMENT SYSTEM

# FORM SWM-1
## MONTHLY INSPECTION CHECKLIST
## DRAINAGE CHANNELS AND DRAINS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

Date: April 26, 2021 | **Inspected By: R. Bowden, J. Menniti**

| | INSPECTION TASK | CHANNEL / DRAIN NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **V-SHAPED w/ PATH** | **1-1** | **2-1** | **3-1** | **3-2** | **3-3** | **4** | **5-4** | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion/Washouts | √ | √ | **NS** | √ | √ | √ | √ | Erosion control fabric visible at Channel 3-1 |
| | Sinkholes | √ | √ | √ | √ | √ | √ | √ | |
| | Cleanouts | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Toe Drains | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Damage at Drains/Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **V-SHAPED CHANNEL** | **6** | **8A** | **8B** | **11A** | **11B** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| 3 | **V-SHAPED w/ BERM** | **1-2** | | | | | | | |
| | Overgrown Vegetation | √ | | | | | | | |
| | Standing Water | √ | | | | | | | |
| | Sediments and Debris | √ | | | | | | | |
| | Erosion/Washouts | √ | | | | | | | |
| | Settlement and Sinkholes | √ | | | | | | | |
| 4 | **TRAPEZOIDAL CHANNEL** | **7** | **9** | **10** | | | | | |
| | Overgrown Vegetation | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediments and Debris | √ | √ | √ | | | | | |
| | Erosion/Washouts | √ | √ | √ | | | | | |
| | Settlement and Sinkholes | √ | √ | √ | | | | | |
| 5 | **TRAPEZOIDAL w/ RIPRAP** | **2-2** | **3-4** | **5-1** | **5-2** | **5-3** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| | Loss of Riprap | √ | √ | √ | √ | √ | | | |

**COMMENTS**

**FORM SWM-2 EAST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: April 26, 2021** | **Inspected By: R. Bowden, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **EAST CELL NORTH OUTLETS** | **1EN** | **2EN** | **3EN** | **4EN** | **5EN** | **6EN** | **7EN** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | **NS** | **NS** | √ | 5EN, 6EN - Debris build up at outfall structure. |
| | I/O Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **EAST CELL NORTH OUTLETS** | **8EN** | **9EN** | **10EN** | **11EN** | **12EN** | **13EN** | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | |
| | I/O Sediments and Debris | √ | **NS** | √ | √ | √ | √ | | 9EN - Debris build up at outfall structure. |
| | I/O Vegetative Growth | √ | √ | √ | √ | √ | √ | | |
| 3 | **EAST CELL EAST OUTLETS** | **1EE** | **2EE** | **3EE** | **4EE** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | | | | |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | **NS** | √ | | | | 3EE - Debris build up at outfall structure. |
| | I/O Vegetative Growth | √ | √ | √ | √ | | | | |
| 4 | **EAST CELL SOUTH OUTLETS** | **1ES** | **2ES** | **3ES** | **4ES** | **5ES** | **6ES** | **7ES** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Debris build up at outfall structure. |
| | I/O Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| 5 | **EAST CELL SOUTH OUTLETS** | **8ES** | **9ES** | **10ES** | **11ES** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | | | | 10ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | **NS** | **NS** | | | | 10ES, 11ES - Debris build up at outfall structure. |
| | I/O Vegetative Growth | √ | √ | √ | √ | | | | |
| 6 | **EAST CELL WEST OUTLETS** | **1EW** | **2EW** | **3EW** | **4EW** | **5EW** | | | |
| | Damage (Spalling, Cracking, etc.) | **NS** | √ | √ | √ | √ | | | 1EW - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | **NS** | | | 5EW - Standing water at outfall structure. |
| | Sediment/Debris in Pipe | **NS** | √ | √ | √ | √ | | | 1EW - Sediment build up inside outfall pipe. |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | **NS** | √ | √ | √ | **NS** | | | 1EW, 5EW - Debris build up at outfall structure. |
| | I/O Vegetative Growth | √ | √ | √ | √ | **NS** | | | 5EW - Excess vegitation growth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

**FORM SWM-2 WEST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: April 26, 2021** | **Inspected By: R. Bowden, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **WEST CELL NORTH OUTLETS** | **1WN** | **2WN** | **3WN** | | | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | **NS** | √ | | | | | | 2WN - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | | | | | | |
| | Settlement Along Structure | √ | √ | √ | | | | | | |
| | Standing Water | √ | √ | **NS** | | | | | | 3WN - Standing water at outfall structure. |
| | Sediment/Debris in Pipe | √ | √ | √ | | | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | | | | | | |
| | I/O Sediments and Debris | **NS** | **NS** | **NS** | | | | | | 1WN, 2WN, 3WN - Debris build up at outfall structure. |
| | I/O Vegetative Growth | √ | √ | √ | | | | | | |
| 2 | **WEST CELL EAST OUTLETS** | **1WE** | **2WE** | **3WE** | **4WE** | **5WE** | **6WE** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | √ | √ | | | 3WE - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | **NS** | √ | **NS** | √ | √ | √ | | | 1WE, 3WE - Debris build up at outfall structure. |
| | I/O Vegetative Growth | √ | √ | √ | √ | √ | **NS** | | | 6WE - Vegitation overgrowth at outfall structure. |
| 3 | **WEST CELL SOUTH OUTLETS** | **1WS** | **2WS** | **3WS** | **4WS** | **5WS** | **6WS** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | **NS** | √ | √ | √ | | | 3WS - Standing water at outfall structure. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | √ | √ | √ | √ | √ | √ | | | |
| 4 | **WEST CELL WEST OUTLETS** | **1WW** | **2WW** | **3WW** | **4WW** | **5WW** | **6WW** | **7WW** | **8WW** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Erosion around exposed outfall structure pipe. |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | **NS** | √ | √ | √ | √ | √ | 3WW - Debris build up at outfall structure. |
| | I/O Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Removed debris and trash as necessary

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## CPP DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: April 26, 2021** | **Inspected By: R. Bowden, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Downdrains** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrains** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | | | | | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | | | | | |
| | Erosion Around Pipe | √ | √ | √ | | | | | |
| | Pipe Settlement | √ | √ | √ | | | | | |
| | Damaged Pipe Trench Connections | √ | √ | √ | | | | | |
| | **Downdrains** | **DDWl** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2 | **Downdrain Flared End Section (FES)** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Flared End Section (FES)** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Structural Damage | √ | √ | √ | | | | | |
| | Seperation of the FES from Pipe | √ | √ | √ | | | | | |
| | Sediment Accumulation in FES | √ | √ | √ | | | | | |
| | Damaged Pipe Connections | √ | √ | √ | | | | | |
| | Erosion Around FES | √ | √ | √ | | | | | |
| | Settlement Under FES | √ | √ | √ | | | | | |
| | **Downdrain Flared End Section (FES)** | **DDWl** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: April 26, 2021** | **Inspected By: R. Bowden, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 3 | **Downdrain Pipe Trenches** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Pipe Trenches** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Damaged Pipe Trenches | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation | √ | √ | √ | | | | | |
| | Pipe Trench Settlement | √ | √ | √ | | | | | |
| | Erosion Around Pipe Trench | √ | √ | √ | | | | | |
| | Damaged Downdrain Connections | √ | √ | √ | | | | | |
| | **Downdrain Pipe Trenches** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 4 | **Downdrain Outlet Protection** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Outlet Protection** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Riprap Displacement | √ | √ | √ | | | | | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | | | | | |
| | Vegetative Growth | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation and Debris | √ | √ | √ | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | |
| | Structure Settlement | √ | √ | √ | | | | | |
| | **Downdrain Outlet Protection** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

**FORM DP-1**
**STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3**
**APRIL 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 4/26/21 | 5EN, 6EN, 9EN, 3EE, 6ES, 10ES, 11ES, 1EW, 5EW, 1WN, 2WN, 3WN, 1WE, 3WE, 3WW | Leaf and debris build up at infall and/or outfall | Leaves and debris cleared from structures. |
| 4/26/21 | 1EW | Leaf and debris build up within outfall pipe | Leaves and debris cleared from piping. 1EW remains partially clogged. |
| 4/26/21 | 6ES, 10ES, 1EW, 2WN, 3WE | Damage to outfall stucture | None |
| 4/26/21 | 5EW, 6WE | Excess vegetation at outfall | None |
| 4/26/21 | 5EW, 3WN, 3WS | Standing water at outfall | None |
| 4/26/21 | Channel 3-1 | Exposed erosion control fabric | None |
| 4/26/21 | 4WW | Erosion around outfall structure | None |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Date:** 4/26/21

**Inspected By:** R. Bowden

**Signature:** RC Bowden

# FORM SWM-1
## MONTHLY INSPECTION CHECKLIST
## DRAINAGE CHANNELS AND DRAINS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

Date: May 25, 2021 | **Inspected By: C. Lambert, J. Menniti**

| | INSPECTION TASK | CHANNEL / DRAIN NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **V-SHAPED w/ PATH** | **1-1** | **2-1** | **3-1** | **3-2** | **3-3** | **4** | **5-4** | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion/Washouts | √ | √ | **NS** | √ | √ | √ | √ | Erosion control fabric visible at Channel 3-1 |
| | Sinkholes | √ | √ | √ | √ | √ | √ | √ | |
| | Cleanouts | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Toe Drains | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Damage at Drains/Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **V-SHAPED CHANNEL** | **6** | **8A** | **8B** | **11A** | **11B** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| 3 | **V-SHAPED w/ BERM** | **1-2** | | | | | | | |
| | Overgrown Vegetation | √ | | | | | | | |
| | Standing Water | √ | | | | | | | |
| | Sediments and Debris | √ | | | | | | | |
| | Erosion/Washouts | √ | | | | | | | |
| | Settlement and Sinkholes | √ | | | | | | | |
| 4 | **TRAPEZOIDAL CHANNEL** | **7** | **9** | **10** | | | | | |
| | Overgrown Vegetation | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediments and Debris | √ | √ | √ | | | | | |
| | Erosion/Washouts | √ | √ | √ | | | | | |
| | Settlement and Sinkholes | √ | √ | √ | | | | | |
| 5 | **TRAPEZOIDAL w/ RIPRAP** | **2-2** | **3-4** | **5-1** | **5-2** | **5-3** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| | Loss of Riprap | √ | √ | √ | √ | √ | | | |

**COMMENTS**

**FORM SWM-2 EAST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: May 25, 2021** | **Inspected By: C. Lambert, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **EAST CELL NORTH OUTLETS** | **1EN** | **2EN** | **3EN** | **4EN** | **5EN** | **6EN** | **7EN** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **EAST CELL NORTH OUTLETS** | **8EN** | **9EN** | **10EN** | **11EN** | **12EN** | **13EN** | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | |
| | I/O Vegetative Growth | √ | √ | √ | √ | √ | √ | | |
| 3 | **EAST CELL EAST OUTLETS** | **1EE** | **2EE** | **3EE** | **4EE** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | | | | |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | | | | |
| | I/O Vegetative Growth | √ | √ | √ | √ | | | | |
| 4 | **EAST CELL SOUTH OUTLETS** | **1ES** | **2ES** | **3ES** | **4ES** | **5ES** | **6ES** | **7ES** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | √ | √ | √ | **NS** | √ | **NS** | **NS** | 4ES, 6ES, 7ES - Excess vegetation growth at outfall structure. |
| 5 | **EAST CELL SOUTH OUTLETS** | **8ES** | **9ES** | **10ES** | **11ES** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | **NS** | | | | 10ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | **NS** | | | | 11ES - Debris build up at outfall structure. |
| | I/O Vegetative Growth | **NS** | √ | **NS** | √ | | | | 8ES, 10ES - Excess vegetation growth at outfall structure. |
| 6 | **EAST CELL WEST OUTLETS** | **1EW** | **2EW** | **3EW** | **4EW** | **5EW** | | | |
| | Damage (Spalling, Cracking, etc.) | **NS** | √ | √ | √ | √ | | | 1EW - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | √ | √ | √ | √ | **NS** | | | 5EW - Excess vegetation growth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

**FORM SWM-2 WEST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: May 25, 2021** | **Inspected By: C. Lambert, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **WEST CELL NORTH OUTLETS** | **1WN** | **2WN** | **3WN** | | | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | **NS** | √ | | | | | | 2WN - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | | | | | | |
| | Settlement Along Structure | √ | √ | √ | | | | | | |
| | Standing Water | √ | √ | √ | | | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | | | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | | | | | | |
| | I/O Sediments and Debris | √ | √ | √ | | | | | | |
| | I/O Vegetative Growth | √ | √ | √ | | | | | | |
| 2 | **WEST CELL EAST OUTLETS** | **1WE** | **2WE** | **3WE** | **4WE** | **5WE** | **6WE** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | √ | √ | | | 3WE - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | √ | √ | √ | √ | √ | √ | | | 6WE - Vegetation overgrowth at outfall structure. |
| 3 | **WEST CELL SOUTH OUTLETS** | **1WS** | **2WS** | **3WS** | **4WS** | **5WS** | **6WS** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | 3WS - Standing water at outfall structure. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | √ | √ | √ | √ | √ | √ | | | |
| 4 | **WEST CELL WEST OUTLETS** | **1WW** | **2WW** | **3WW** | **4WW** | **5WW** | **6WW** | **7WW** | **8WW** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Erosion around exposed outfall structure pipe. |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Debris build up at outfall structure. |
| | I/O Vegetative Growth | √ | √ | **NS** | √ | √ | √ | √ | √ | 3WW - Vegetation overgrowth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## CPP DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: May 25, 2021** | **Inspected By: C. Lambert, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Downdrains** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrains** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | | | | | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | | | | | |
| | Erosion Around Pipe | √ | √ | √ | | | | | |
| | Pipe Settlement | √ | √ | √ | | | | | |
| | Damaged Pipe Trench Connections | √ | √ | √ | | | | | |
| | **Downdrains** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2 | **Downdrain Flared End Section (FES)** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Flared End Section (FES)** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Structural Damage | √ | √ | √ | | | | | |
| | Seperation of the FES from Pipe | √ | √ | √ | | | | | |
| | Sediment Accumulation in FES | √ | √ | √ | | | | | |
| | Damaged Pipe Connections | √ | √ | √ | | | | | |
| | Erosion Around FES | √ | √ | √ | | | | | |
| | Settlement Under FES | √ | √ | √ | | | | | |
| | **Downdrain Flared End Section (FES)** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: May 25, 2021** | **Inspected By: C. Lambert, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 3 | **Downdrain Pipe Trenches** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Pipe Trenches** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Damaged Pipe Trenches | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation | √ | √ | √ | | | | | |
| | Pipe Trench Settlement | √ | √ | √ | | | | | |
| | Erosion Around Pipe Trench | √ | √ | √ | | | | | |
| | Damaged Downdrain Connections | √ | √ | √ | | | | | |
| | **Downdrain Pipe Trenches** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 4 | **Downdrain Outlet Protection** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Outlet Protection** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Riprap Displacement | √ | √ | √ | | | | | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | | | | | |
| | Vegetative Growth | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation and Debris | √ | √ | √ | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | |
| | Structure Settlement | √ | √ | √ | | | | | |
| | **Downdrain Outlet Protection** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

**FORM DP-1**
**STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3**
**MAY 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 5/25/21 | 4ES, 6ES, 7ES, 8ES, 10ES, 11ES | Leaf and debris build up at infall and/or outfall | Leaves and debris cleared from structures. |
| 5/25/21 | 5EW | Leaf and debris build up within outfall pipe | Leaves and debris cleared from piping. 1EW remains partially clogged. |
| 5/25/21 | 6ES, 10ES, 11ES, 1EW, 2WN, 3WE | Damage to outfall stucture | None |
| 5/25/21 | 5EW | Excess vegetation at outfall | None |
| | | | |
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**Date: 5/25/21**

**Inspected By:** C. Lambert & J. Menniti

**Signature:** RC Bowden

# FORM SWM-1
## MONTHLY INSPECTION CHECKLIST
## DRAINAGE CHANNELS AND DRAINS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

Date: June 29, 2021 | **Inspected By: C. Lambert, J. Menniti**

| | INSPECTION TASK | CHANNEL / DRAIN NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **V-SHAPED w/ PATH** | **1-1** | **2-1** | **3-1** | **3-2** | **3-3** | **4** | **5-4** | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion/Washouts | √ | √ | **NS** | √ | √ | √ | √ | Erosion control fabric visible at Channel 3-1 |
| | Sinkholes | √ | √ | √ | √ | √ | √ | √ | |
| | Cleanouts | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Toe Drains | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Damage at Drains/Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **V-SHAPED CHANNEL** | **6** | **8A** | **8B** | **11A** | **11B** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| 3 | **V-SHAPED w/ BERM** | **1-2** | | | | | | | |
| | Overgrown Vegetation | √ | | | | | | | |
| | Standing Water | √ | | | | | | | |
| | Sediments and Debris | √ | | | | | | | |
| | Erosion/Washouts | √ | | | | | | | |
| | Settlement and Sinkholes | √ | | | | | | | |
| 4 | **TRAPEZOIDAL CHANNEL** | **7** | **9** | **10** | | | | | |
| | Overgrown Vegetation | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediments and Debris | √ | √ | √ | | | | | |
| | Erosion/Washouts | √ | √ | √ | | | | | |
| | Settlement and Sinkholes | √ | √ | √ | | | | | |
| 5 | **TRAPEZOIDAL w/ RIPRAP** | **2-2** | **3-4** | **5-1** | **5-2** | **5-3** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| | Loss of Riprap | √ | √ | √ | √ | √ | | | |

**COMMENTS**

**FORM SWM-2 EAST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: June 29, 2021** | **Inspected By: C. Lambert, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **EAST CELL NORTH OUTLETS** | **1EN** | **2EN** | **3EN** | **4EN** | **5EN** | **6EN** | **7EN** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | √ | √ | **NS** | **NS** | √ | √ | √ | 3EN, 4EN - Excess vegetation growth at outfall structure. |
| 2 | **EAST CELL NORTH OUTLETS** | **8EN** | **9EN** | **10EN** | **11EN** | **12EN** | **13EN** | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | |
| | I/O Vegetative Growth | √ | √ | √ | √ | √ | √ | | |
| 3 | **EAST CELL EAST OUTLETS** | **1EE** | **2EE** | **3EE** | **4EE** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | | | | |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | | | | |
| | I/O Vegetative Growth | √ | √ | √ | √ | | | | |
| 4 | **EAST CELL SOUTH OUTLETS** | **1ES** | **2ES** | **3ES** | **4ES** | **5ES** | **6ES** | **7ES** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | √ | √ | √ | **NS** | √ | **NS** | **NS** | 4ES, 6ES, 7ES - Excess vegetation growth at outfall structure. |
| 5 | **EAST CELL SOUTH OUTLETS** | **8ES** | **9ES** | **10ES** | **11ES** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | **NS** | | | | 10ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | **NS** | | | | 11ES - Debris build up at outfall structure. |
| | I/O Vegetative Growth | **NS** | √ | **NS** | √ | | | | 8ES, 10ES - Excess vegetation growth at outfall structure. |
| 6 | **EAST CELL WEST OUTLETS** | **1EW** | **2EW** | **3EW** | **4EW** | **5EW** | | | |
| | Damage (Spalling, Cracking, etc.) | **NS** | **NS** | √ | √ | √ | | | 1EW, 2EW - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | √ | √ | √ | **NS** | | | 1EW, 2EW, 5EW - Excess vegetation growth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

**FORM SWM-2 WEST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: June 29, 2021** | **Inspected By: C. Lambert, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **WEST CELL NORTH OUTLETS** | **1WN** | **2WN** | **3WN** | | | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | **NS** | √ | | | | | | 2WN - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | | | | | | |
| | Settlement Along Structure | √ | √ | √ | | | | | | |
| | Standing Water | √ | √ | √ | | | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | | | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | | | | | | |
| | I/O Sediments and Debris | √ | √ | √ | | | | | | |
| | I/O Vegetative Growth | √ | √ | √ | | | | | | |
| 2 | **WEST CELL EAST OUTLETS** | **1WE** | **2WE** | **3WE** | **4WE** | **5WE** | **6WE** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | √ | √ | | | 3WE - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | √ | √ | √ | √ | √ | √ | | | 6WE - Vegetation overgrowth at outfall structure. |
| 3 | **WEST CELL SOUTH OUTLETS** | **1WS** | **2WS** | **3WS** | **4WS** | **5WS** | **6WS** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | 3WS - Standing water at outfall structure. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | √ | √ | √ | √ | √ | √ | | | |
| 4 | **WEST CELL WEST OUTLETS** | **1WW** | **2WW** | **3WW** | **4WW** | **5WW** | **6WW** | **7WW** | **8WW** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Erosion around exposed outfall structure pipe. |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Debris build up at outfall structure. |
| | I/O Vegetative Growth | √ | √ | **NS** | √ | √ | √ | √ | √ | 3WW - Vegetation overgrowth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## CPP DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: June 29, 2021** | **Inspected By: C. Lambert, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Downdrains** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrains** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | | | | | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | | | | | |
| | Erosion Around Pipe | √ | √ | √ | | | | | |
| | Pipe Settlement | √ | √ | √ | | | | | |
| | Damaged Pipe Trench Connections | √ | √ | √ | | | | | |
| | **Downdrains** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2 | **Downdrain Flared End Section (FES)** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Flared End Section (FES)** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Structural Damage | √ | √ | √ | | | | | |
| | Seperation of the FES from Pipe | √ | √ | √ | | | | | |
| | Sediment Accumulation in FES | √ | √ | √ | | | | | |
| | Damaged Pipe Connections | √ | √ | √ | | | | | |
| | Erosion Around FES | √ | √ | √ | | | | | |
| | Settlement Under FES | √ | √ | √ | | | | | |
| | **Downdrain Flared End Section (FES)** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: June 29, 2021** | **Inspected By: C. Lambert, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 3 | **Downdrain Pipe Trenches** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Pipe Trenches** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Damaged Pipe Trenches | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation | √ | √ | √ | | | | | |
| | Pipe Trench Settlement | √ | √ | √ | | | | | |
| | Erosion Around Pipe Trench | √ | √ | √ | | | | | |
| | Damaged Downdrain Connections | √ | √ | √ | | | | | |
| | **Downdrain Pipe Trenches** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 4 | **Downdrain Outlet Protection** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Outlet Protection** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Riprap Displacement | √ | √ | √ | | | | | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | | | | | |
| | Vegetative Growth | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation and Debris | √ | √ | √ | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | |
| | Structure Settlement | √ | √ | √ | | | | | |
| | **Downdrain Outlet Protection** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

**FORM DP-1**
**STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3**
**JUNE 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 6/29/21 | 1EW, 2EW, 3EN, 4EN | Excess vegetation at outfall | Leaves and debris cleared from piping. |
| 6/29/21 | 6ES, 10ES, 11ES, 1EW, 2WN, 3WE, 2EW | Damage to outfall stucture | None |
| | | | |
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**Date: 6/29/21**

**Inspected By:** C. Lambert & J. Menniti

**Signature:** RC Bowden

# FORM SWM-1
## MONTHLY INSPECTION CHECKLIST
## DRAINAGE CHANNELS AND DRAINS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

Date: July 28, 2021 | **Inspected By: R. Bowden, J. Menniti**

| | INSPECTION TASK | CHANNEL / DRAIN NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **V-SHAPED w/ PATH** | **1-1** | **2-1** | **3-1** | **3-2** | **3-3** | **4** | **5-4** | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion/Washouts | √ | √ | **NS** | √ | √ | √ | √ | Erosion control fabric visible at Channel 3-1 |
| | Sinkholes | √ | √ | √ | √ | √ | √ | √ | |
| | Cleanouts | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Toe Drains | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Damage at Drains/Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **V-SHAPED CHANNEL** | **6** | **8A** | **8B** | **11A** | **11B** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| 3 | **V-SHAPED w/ BERM** | **1-2** | | | | | | | |
| | Overgrown Vegetation | √ | | | | | | | |
| | Standing Water | √ | | | | | | | |
| | Sediments and Debris | √ | | | | | | | |
| | Erosion/Washouts | √ | | | | | | | |
| | Settlement and Sinkholes | √ | | | | | | | |
| 4 | **TRAPEZOIDAL CHANNEL** | **7** | **9** | **10** | | | | | |
| | Overgrown Vegetation | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediments and Debris | √ | √ | √ | | | | | |
| | Erosion/Washouts | √ | √ | √ | | | | | |
| | Settlement and Sinkholes | √ | √ | √ | | | | | |
| 5 | **TRAPEZOIDAL w/ RIPRAP** | **2-2** | **3-4** | **5-1** | **5-2** | **5-3** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| | Loss of Riprap | √ | √ | √ | √ | √ | | | |

**COMMENTS**

**FORM SWM-2 EAST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: July 28, 2021** | **Inspected By: R. Bowden, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **EAST CELL NORTH OUTLETS** | **1EN** | **2EN** | **3EN** | **4EN** | **5EN** | **6EN** | **7EN** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | **NS** | √ | √ | **NS** | **NS** | √ | 2EN, 5EN, 6EN - Debris build up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | 1EN through 7EN - Excess vegetation growth at outfall structure. |
| 2 | **EAST CELL NORTH OUTLETS** | **8EN** | **9EN** | **10EN** | **11EN** | **12EN** | **13EN** | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | |
| | I/O Sediments and Debris | √ | **NS** | **NS** | √ | **NS** | √ | | 9EN, 10EN, 12EN - Debris build up at outfall structure. |
| | I/O Vegetative Growth | √ | √ | **NS** | **NS** | **NS** | **NS** | | 10EN, 11EN, 12EN, 13EN - Excess vegetation growth at outfall structure. |
| 3 | **EAST CELL EAST OUTLETS** | **1EE** | **2EE** | **3EE** | **4EE** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | | | | |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | **NS** | **NS** | √ | √ | | | | 1EE, 2EE - Debris build up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | | | | 1EE, 2EE, 3EE, 4EE - Excess vegetation growth at outfall structure. |
| 4 | **EAST CELL SOUTH OUTLETS** | **1ES** | **2ES** | **3ES** | **4ES** | **5ES** | **6ES** | **7ES** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | **NS** | √ | √ | √ | √ | √ | √ | 1ES - Debris build up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | 1ES through 7ES - Excess vegetation growth at outfall structure. |
| 5 | **EAST CELL SOUTH OUTLETS** | **8ES** | **9ES** | **10ES** | **11ES** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | | | | 10ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | **NS** | √ | | | | |
| | I/O Sediments and Debris | √ | **NS** | √ | √ | | | | 9ES - Debris build up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | √ | √ | | | | 8ES, 9ES - Excess vegetation growth at outfall structure. |
| 6 | **EAST CELL WEST OUTLETS** | **1EW** | **2EW** | **3EW** | **4EW** | **5EW** | | | |
| | Damage (Spalling, Cracking, etc.) | **NS** | √ | √ | √ | √ | | | 1EW - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | **NS** | √ | √ | √ | √ | | | 1EW - Debris build up in piping. |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | **NS** | √ | √ | √ | **NS** | | | 1EW, 5EW - Debris build up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | | | 1EW through 5EW - Excess vegetation growth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

**FORM SWM-2 WEST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| Date: July 28, 2021 | | Inspected By: R. Bowden, J. Menniti | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **STRUCTURE NUMBER** | | | | | | | | **REMARKS** |
| 1 | **WEST CELL NORTH OUTLETS** | **1WN** | **2WN** | **3WN** | | | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | | |
| | Settlement Along Structure | √ | √ | √ | | | | | | |
| | Standing Water | √ | √ | √ | | | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | | | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | | | | | | |
| | I/O Sediments and Debris | √ | √ | √ | | | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | | | | | | 1WN, 2WN, 3WN - Vegetation overgrowth at outfall structure. |
| 2 | **WEST CELL EAST OUTLETS** | **1WE** | **2WE** | **3WE** | **4WE** | **5WE** | **6WE** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | √ | √ | | | 3WE - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | √ | **NS** | | | 1WE, 2WE, 3WE, 4WE, 6WE - Vegetation overgrowth at outfall structure. |
| 3 | **WEST CELL SOUTH OUTLETS** | **1WS** | **2WS** | **3WS** | **4WS** | **5WS** | **6WS** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | √ | **NS** | **NS** | **NS** | **NS** | | | 1WS, 3WS, 4WS, 5WS, 6WS - Vegetation overgrowth at outfall structure. |
| 4 | **WEST CELL WEST OUTLETS** | **1WW** | **2WW** | **3WW** | **4WW** | **5WW** | **6WW** | **7WW** | **8WW** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Erosion around exposed outfall structure pipe. |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | **NS** | **NS** | √ | √ | √ | 4WW, 5WW - Debris build up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | √ | **NS** | √ | √ | **NS** | 1WW, 2WW, 3WW, 5WW, 8WW - Vegetation overgrowth at outfall structure. |
| **COMMENTS** | | | | | | | | | | |
| Removed debris and trash as necessary | | | | | | | | | | |

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## CPP DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: July 28, 2021** | **Inspected By: R. Bowden, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Downdrains** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrains** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | | | | | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | | | | | |
| | Erosion Around Pipe | √ | √ | √ | | | | | |
| | Pipe Settlement | √ | √ | √ | | | | | |
| | Damaged Pipe Trench Connections | √ | √ | √ | | | | | |
| | **Downdrains** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2 | **Downdrain Flared End Section (FES)** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Flared End Section (FES)** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Structural Damage | √ | √ | √ | | | | | |
| | Seperation of the FES from Pipe | √ | √ | √ | | | | | |
| | Sediment Accumulation in FES | √ | √ | √ | | | | | |
| | Damaged Pipe Connections | √ | √ | √ | | | | | |
| | Erosion Around FES | √ | √ | √ | | | | | |
| | Settlement Under FES | √ | √ | √ | | | | | |
| | **Downdrain Flared End Section (FES)** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: July 28, 2021** | **Inspected By: R. Bowden, J. Menniti**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 3 | **Downdrain Pipe Trenches** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Pipe Trenches** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Damaged Pipe Trenches | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation | √ | √ | √ | | | | | |
| | Pipe Trench Settlement | √ | √ | √ | | | | | |
| | Erosion Around Pipe Trench | √ | √ | √ | | | | | |
| | Damaged Downdrain Connections | √ | √ | √ | | | | | |
| | **Downdrain Pipe Trenches** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 4 | **Downdrain Outlet Protection** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Outlet Protection** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Riprap Displacement | √ | √ | √ | | | | | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | | | | | |
| | Vegetative Growth | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation and Debris | √ | √ | √ | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | |
| | Structure Settlement | √ | √ | √ | | | | | |
| | **Downdrain Outlet Protection** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

**FORM DP-1**
**STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3**
**JULY 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 7/28/21 | 1EN, 2EN, 3EN, 4EN, 5EN, 6EN, 7EN, 10EN, 11EN, 12EN, 13EN, 1EE, 2EE, 3EE, 4EE, 1ES, 2ES, 3ES, 4ES, 5ES, 6ES, 7ES, 8ES, 9ES, 1EW, 2EW, 3EW, 4EW, 5EW, 1WN, 2WN, 3WN, 1WE, 2WE, 3WE, 4WE, 6WE, 1WS, 3WS, 4WS, 5WS, 6WS, 1WW, 2WW, 3WW, 5WW, 8WW | Excess vegetation at outfall | Leaves and debris cleared from piping. |
| 7/28/21 | 6ES, 10ES, 11ES, 1EW, 2WN, 3WE, 2EW | Damage to outfall stucture | None |
| 7/28/21 | 2EN, 5EN, 6EN, 9EN, 10EN, 12EN, 1EE, 2EE, 1ES, 9ES, 1EW, 5EW, 4WW, 5WW | Excess sediments and debris at outfall | Debris cleared from outfall |
| 7/28/21 | 1EW | Sediments and debris in pipe | Debris cleared from piping |
| | | | |
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**Date: 7/28/21**

**Inspected By:** R. Bowden & J. Menniti

**Signature:** RC Bowden

# FORM SWM-1
## MONTHLY INSPECTION CHECKLIST
## DRAINAGE CHANNELS AND DRAINS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 8/26/2021** | **Inspected By: Charles Lambert**

| | INSPECTION TASK | CHANNEL / DRAIN NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **V-SHAPED w/ PATH** | **1-1** | **2-1** | **3-1** | **3-2** | **3-3** | **4** | **5-4** | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion/Washouts | √ | √ | **NS** | √ | √ | √ | √ | Erosion control fabric visible at Channel 3-1 |
| | Sinkholes | √ | √ | √ | √ | √ | √ | √ | |
| | Cleanouts | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Toe Drains | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Damage at Drains/Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **V-SHAPED CHANNEL** | **6** | **8A** | **8B** | **11A** | **11B** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| 3 | **V-SHAPED w/ BERM** | **1-2** | | | | | | | |
| | Overgrown Vegetation | √ | | | | | | | |
| | Standing Water | √ | | | | | | | |
| | Sediments and Debris | √ | | | | | | | |
| | Erosion/Washouts | √ | | | | | | | |
| | Settlement and Sinkholes | √ | | | | | | | |
| 4 | **TRAPEZOIDAL CHANNEL** | **7** | **9** | **10** | | | | | |
| | Overgrown Vegetation | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediments and Debris | √ | √ | √ | | | | | |
| | Erosion/Washouts | √ | √ | √ | | | | | |
| | Settlement and Sinkholes | √ | √ | √ | | | | | |
| 5 | **TRAPEZOIDAL w/ RIPRAP** | **2-2** | **3-4** | **5-1** | **5-2** | **5-3** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| | Loss of Riprap | √ | √ | √ | √ | √ | | | |

**COMMENTS**

**FORM SWM-2 EAST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: 8/26/2021** | **Inspected By: Charles Lambert**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **EAST CELL NORTH OUTLETS** | **1EN** | **2EN** | **3EN** | **4EN** | **5EN** | **6EN** | **7EN** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Rip-rap displaced. |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Outfall structure cracked. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | 1EN through 7EN - Excess vegetation growth at outfall structure. |
| 2 | **EAST CELL NORTH OUTLETS** | **8EN** | **9EN** | **10EN** | **11EN** | **12EN** | **13EN** | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | |
| | I/O Vegetative Growth | √ | √ | **NS** | **NS** | **NS** | **NS** | | 10EN, 11EN, 12EN, 13EN - Excess vegetation growth at outfall structure. |
| 3 | **EAST CELL EAST OUTLETS** | **1EE** | **2EE** | **3EE** | **4EE** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | | | | |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | | | | 1EE, 2EE, 3EE, 4EE - Excess vegetation growth at outfall structure. |
| 4 | **EAST CELL SOUTH OUTLETS** | **1ES** | **2ES** | **3ES** | **4ES** | **5ES** | **6ES** | **7ES** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | 1ES through 7ES - Excess vegetation growth at outfall structure. |
| 5 | **EAST CELL SOUTH OUTLETS** | **8ES** | **9ES** | **10ES** | **11ES** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | | | | 10ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | √ | √ | | | | 8ES, 9ES - Excess vegetation growth at outfall structure. |
| 6 | **EAST CELL WEST OUTLETS** | **1EW** | **2EW** | **3EW** | **4EW** | **5EW** | | | |
| | Damage (Spalling, Cracking, etc.) | **NS** | √ | √ | √ | √ | | | 1EW - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | | | 1EW through 5EW - Excess vegetation growth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

**FORM SWM-2 WEST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| Date: 8/26/2021 | | Inspected By: Charles Lambert | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **STRUCTURE NUMBER** | | | | | | | | **REMARKS** |
| 1 | **WEST CELL NORTH OUTLETS** | **1WN** | **2WN** | **3WN** | | | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | | |
| | Settlement Along Structure | √ | √ | √ | | | | | | |
| | Standing Water | √ | √ | √ | | | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | | | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | | | | | | |
| | I/O Sediments and Debris | √ | √ | √ | | | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | | | | | | 1WN, 2WN, 3WN - Vegetation overgrowth at outfall structure. |
| 2 | **WEST CELL EAST OUTLETS** | **1WE** | **2WE** | **3WE** | **4WE** | **5WE** | **6WE** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | √ | √ | | | 3WE - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | √ | **NS** | | | 1WE, 2WE, 3WE, 4WE, 6WE - Vegetation overgrowth at outfall structure. |
| 3 | **WEST CELL SOUTH OUTLETS** | **1WS** | **2WS** | **3WS** | **4WS** | **5WS** | **6WS** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | √ | **NS** | **NS** | **NS** | **NS** | | | 1WS, 3WS, 4WS, 5WS, 6WS - Vegetation overgrowth at outfall structure. |
| 4 | **WEST CELL WEST OUTLETS** | **1WW** | **2WW** | **3WW** | **4WW** | **5WW** | **6WW** | **7WW** | **8WW** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Erosion around exposed outfall structure pipe. |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | √ | **NS** | √ | √ | **NS** | 1WW, 2WW, 3WW, 5WW, 8WW - Vegetation overgrowth at outfall structure. |
| **COMMENTS** | | | | | | | | | | |
| Removed debris and trash as necessary | | | | | | | | | | |

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## CPP DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 8/26/2021** | **Inspected By: Charles Lambert**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Downdrains** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrains** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | | | | | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | | | | | |
| | Erosion Around Pipe | √ | √ | √ | | | | | |
| | Pipe Settlement | √ | √ | √ | | | | | |
| | Damaged Pipe Trench Connections | √ | √ | √ | | | | | |
| | **Downdrains** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2 | **Downdrain Flared End Section (FES)** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Flared End Section (FES)** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Structural Damage | √ | √ | √ | | | | | |
| | Seperation of the FES from Pipe | √ | √ | √ | | | | | |
| | Sediment Accumulation in FES | √ | √ | √ | | | | | |
| | Damaged Pipe Connections | √ | √ | √ | | | | | |
| | Erosion Around FES | √ | √ | √ | | | | | |
| | Settlement Under FES | √ | √ | √ | | | | | |
| | **Downdrain Flared End Section (FES)** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 8/26/2021** | **Inspected By: Charles Lambert**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 3 | **Downdrain Pipe Trenches** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Pipe Trenches** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Damaged Pipe Trenches | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation | √ | √ | √ | | | | | |
| | Pipe Trench Settlement | √ | √ | √ | | | | | |
| | Erosion Around Pipe Trench | √ | √ | √ | | | | | |
| | Damaged Downdrain Connections | √ | √ | √ | | | | | |
| | **Downdrain Pipe Trenches** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 4 | **Downdrain Outlet Protection** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Outlet Protection** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Riprap Displacement | √ | √ | √ | | | | | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | | | | | |
| | Vegetative Growth | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation and Debris | √ | √ | √ | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | |
| | Structure Settlement | √ | √ | √ | | | | | |
| | **Downdrain Outlet Protection** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

**FORM DP-1**
**STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3**
**AUGUST 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 8/26/21 | 1EN, 2EN, 3EN, 4EN, 5EN, 6EN, 7EN, 10EN, 11EN, 12EN, 13EN, 1EE, 2EE, 3EE, 4EE, 1ES, 2ES, 3ES, 4ES, 5ES, 6ES, 7ES, 8ES, 9ES, 1EW, 2EW, 3EW, 4EW, 5EW, 1WN, 2WN, 3WN, 1WE, 2WE, 3WE, 4WE, 6WE, 1WS, 3WS, 4WS, 5WS, 6WS, 1WW, 2WW, 3WW, 5WW, 8WW | Excess vegetation at outfall | Leaves and debris cleared from piping. |
| 8/26/21 | 6ES, 10ES, 11ES, 1EW, 2WN, 3WE, 2EW | Damage to outfall stucture | None |
| | | | |
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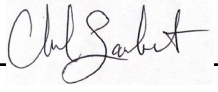
**Date: 8/26/2021**

**Inspected By:** C. Lambert

**Signature:** 

# FORM SWM-1
## MONTHLY INSPECTION CHECKLIST
## DRAINAGE CHANNELS AND DRAINS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 9/27/2021** | **Inspected By: Charles Lambert**

| | INSPECTION TASK | CHANNEL / DRAIN NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **V-SHAPED w/ PATH** | **1-1** | **2-1** | **3-1** | **3-2** | **3-3** | **4** | **5-4** | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion/Washouts | √ | **NS** | **NS** | √ | √ | √ | √ | Erosion control fabric visible at Channel 3-1. |
| | Sinkholes | √ | √ | √ | √ | √ | √ | √ | |
| | Cleanouts | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Toe Drains | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Damage at Drains/Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **V-SHAPED CHANNEL** | **6** | **8A** | **8B** | **11A** | **11B** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| 3 | **V-SHAPED w/ BERM** | **1-2** | | | | | | | |
| | Overgrown Vegetation | √ | | | | | | | |
| | Standing Water | √ | | | | | | | |
| | Sediments and Debris | √ | | | | | | | |
| | Erosion/Washouts | √ | | | | | | | |
| | Settlement and Sinkholes | √ | | | | | | | |
| 4 | **TRAPEZOIDAL CHANNEL** | **7** | **9** | **10** | | | | | |
| | Overgrown Vegetation | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediments and Debris | √ | √ | √ | | | | | |
| | Erosion/Washouts | √ | √ | √ | | | | | |
| | Settlement and Sinkholes | √ | √ | √ | | | | | |
| 5 | **TRAPEZOIDAL w/ RIPRAP** | **2-2** | **3-4** | **5-1** | **5-2** | **5-3** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| | Loss of Riprap | √ | √ | √ | √ | √ | | | |

**COMMENTS**

**FORM SWM-2 EAST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: 9/27/2021** | **Inspected By: Charles Lambert**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **EAST CELL NORTH OUTLETS** | **1EN** | **2EN** | **3EN** | **4EN** | **5EN** | **6EN** | **7EN** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | **NS** | √ | 6EN - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | 1EN through 7EN - Excess vegetation growth at outfall structure. |
| 2 | **EAST CELL NORTH OUTLETS** | **8EN** | **9EN** | **10EN** | **11EN** | **12EN** | **13EN** | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | |
| | I/O Vegetative Growth | √ | √ | **NS** | **NS** | **NS** | **NS** | | 10EN, 11EN, 12EN, 13EN - Excess vegetation growth at outfall structure. |
| 3 | **EAST CELL EAST OUTLETS** | **1EE** | **2EE** | **3EE** | **4EE** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | | | | |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | | | | 1EE, 2EE, 3EE, 4EE - Excess vegetation growth at outfall structure. |
| 4 | **EAST CELL SOUTH OUTLETS** | **1ES** | **2ES** | **3ES** | **4ES** | **5ES** | **6ES** | **7ES** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | 1ES through 7ES - Excess vegetation growth at outfall structure. |
| 5 | **EAST CELL SOUTH OUTLETS** | **8ES** | **9ES** | **10ES** | **11ES** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | | | | 10ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | √ | √ | | | | 8ES, 9ES - Excess vegetation growth at outfall structure. |
| 6 | **EAST CELL WEST OUTLETS** | **1EW** | **2EW** | **3EW** | **4EW** | **5EW** | | | |
| | Damage (Spalling, Cracking, etc.) | **NS** | **NS** | √ | √ | √ | | | 1EW, 2EW - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | | | 1EW through 5EW - Excess vegetation growth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

**FORM SWM-2 WEST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| Date: 9/27/2021 | | Inspected By: Charles Lambert | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **STRUCTURE NUMBER** | | | | | | | | **REMARKS** |
| 1 | **WEST CELL NORTH OUTLETS** | **1WN** | **2WN** | **3WN** | | | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | | |
| | Settlement Along Structure | √ | √ | √ | | | | | | |
| | Standing Water | √ | √ | √ | | | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | | | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | | | | | | |
| | I/O Sediments and Debris | √ | √ | √ | | | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | | | | | | 1WN, 2WN, 3WN - Vegetation overgrowth at outfall structure. |
| 2 | **WEST CELL EAST OUTLETS** | **1WE** | **2WE** | **3WE** | **4WE** | **5WE** | **6WE** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | √ | √ | | | 3WE - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | √ | **NS** | | | 1WE, 2WE, 3WE, 4WE, 6WE - Vegetation overgrowth at outfall structure. |
| 3 | **WEST CELL SOUTH OUTLETS** | **1WS** | **2WS** | **3WS** | **4WS** | **5WS** | **6WS** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | √ | **NS** | **NS** | **NS** | **NS** | | | 1WS, 3WS, 4WS, 5WS, 6WS - Vegetation overgrowth at outfall structure. |
| 4 | **WEST CELL WEST OUTLETS** | **1WW** | **2WW** | **3WW** | **4WW** | **5WW** | **6WW** | **7WW** | **8WW** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Erosion around exposed outfall structure pipe. |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | √ | **NS** | √ | √ | **NS** | 1WW, 2WW, 3WW, 5WW, 8WW - Vegetation overgrowth at outfall structure. |
| **COMMENTS** | | | | | | | | | | |
| Removed debris and trash as necessary | | | | | | | | | | |

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## CPP DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 9/27/2021** | **Inspected By: Charles Lambert**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Downdrains** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrains** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | | | | | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | | | | | |
| | Erosion Around Pipe | √ | √ | √ | | | | | |
| | Pipe Settlement | √ | √ | √ | | | | | |
| | Damaged Pipe Trench Connections | √ | √ | √ | | | | | |
| | **Downdrains** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2 | **Downdrain Flared End Section (FES)** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Flared End Section (FES)** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Structural Damage | √ | √ | √ | | | | | |
| | Seperation of the FES from Pipe | √ | √ | √ | | | | | |
| | Sediment Accumulation in FES | √ | √ | √ | | | | | |
| | Damaged Pipe Connections | √ | √ | √ | | | | | |
| | Erosion Around FES | √ | √ | √ | | | | | |
| | Settlement Under FES | √ | √ | √ | | | | | |
| | **Downdrain Flared End Section (FES)** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 9/27/2021** | **Inspected By: Charles Lambert**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 3 | **Downdrain Pipe Trenches** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Pipe Trenches** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Damaged Pipe Trenches | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation | √ | √ | √ | | | | | |
| | Pipe Trench Settlement | √ | √ | √ | | | | | |
| | Erosion Around Pipe Trench | √ | √ | √ | | | | | |
| | Damaged Downdrain Connections | √ | √ | √ | | | | | |
| | **Downdrain Pipe Trenches** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 4 | **Downdrain Outlet Protection** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Outlet Protection** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Riprap Displacement | √ | √ | √ | | | | | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | | | | | |
| | Vegetative Growth | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation and Debris | √ | √ | √ | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | |
| | Structure Settlement | √ | √ | √ | | | | | |
| | **Downdrain Outlet Protection** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

**FORM DP-1**
**STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3**
**SEPTEMBER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 9/27/21 | 1EN, 2EN, 3EN, 4EN, 5EN, 6EN, 7EN, 10EN, 11EN, 12EN, 13EN, 1EE, 2EE, 3EE, 4EE, 1ES, 2ES, 3ES, 4ES, 5ES, 6ES, 7ES, 8ES, 9ES, 1EW, 2EW, 3EW, 4EW, 5EW, 1WN, 2WN, 3WN, 1WE, 2WE, 3WE, 4WE, 6WE, 1WS, 3WS, 4WS, 5WS, 6WS, 1WW, 2WW, 3WW, 5WW, 8WW | Excess vegetation at outfall | None |
| 9/27/21 | 6ES, 10ES, 11ES, 1EW, 2WN, 3WE, 2EW | Damage to outfall stucture | None |
| 9/27/21 | Channel 2-1 and 3-1 | Erosion control fabric visible - erosion/ washout | None |
| 9/27/21 | 6EN | Sediment build-up at outfall structure | Leaves and debris cleared from piping. |
| | | | |
| | | | |
| | | | |
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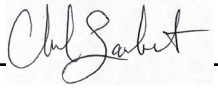
| | | | |
| | | | |

**Date: 9/27/2021**

**Inspected By:** C. Lambert

**Signature:** 

# FORM SWM-1
## MONTHLY INSPECTION CHECKLIST
## DRAINAGE CHANNELS AND DRAINS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 10/29/2021** | **Inspected By: Charles Lambert**

| | INSPECTION TASK | CHANNEL / DRAIN NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **V-SHAPED w/ PATH** | **1-1** | **2-1** | **3-1** | **3-2** | **3-3** | **4** | **5-4** | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion/Washouts | √ | **NS** | **NS** | √ | √ | √ | √ | Erosion control fabric visible at Channel 3-1. |
| | Sinkholes | √ | √ | √ | √ | √ | √ | √ | |
| | Cleanouts | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Toe Drains | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Damage at Drains/Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **V-SHAPED CHANNEL** | **6** | **8A** | **8B** | **11A** | **11B** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| 3 | **V-SHAPED w/ BERM** | **1-2** | | | | | | | |
| | Overgrown Vegetation | √ | | | | | | | |
| | Standing Water | √ | | | | | | | |
| | Sediments and Debris | √ | | | | | | | |
| | Erosion/Washouts | √ | | | | | | | |
| | Settlement and Sinkholes | √ | | | | | | | |
| 4 | **TRAPEZOIDAL CHANNEL** | **7** | **9** | **10** | | | | | |
| | Overgrown Vegetation | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediments and Debris | √ | √ | √ | | | | | |
| | Erosion/Washouts | √ | √ | √ | | | | | |
| | Settlement and Sinkholes | √ | √ | √ | | | | | |
| 5 | **TRAPEZOIDAL w/ RIPRAP** | **2-2** | **3-4** | **5-1** | **5-2** | **5-3** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| | Loss of Riprap | √ | √ | √ | √ | √ | | | |

**COMMENTS**

**FORM SWM-2 EAST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: 10/29/2021** | **Inspected By: Charles Lambert**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **EAST CELL NORTH OUTLETS** | **1EN** | **2EN** | **3EN** | **4EN** | **5EN** | **6EN** | **7EN** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | **NS** | √ | 6EN - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | 1EN through 7EN - Excess vegetation growth at outfall structure. |
| 2 | **EAST CELL NORTH OUTLETS** | **8EN** | **9EN** | **10EN** | **11EN** | **12EN** | **13EN** | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | |
| | I/O Vegetative Growth | √ | √ | **NS** | **NS** | **NS** | **NS** | | 10EN, 11EN, 12EN, 13EN - Excess vegetation growth at outfall structure. |
| 3 | **EAST CELL EAST OUTLETS** | **1EE** | **2EE** | **3EE** | **4EE** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | | | | |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | | | | 1EE, 2EE, 3EE, 4EE - Excess vegetation growth at outfall structure. |
| 4 | **EAST CELL SOUTH OUTLETS** | **1ES** | **2ES** | **3ES** | **4ES** | **5ES** | **6ES** | **7ES** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | 1ES through 7ES - Excess vegetation growth at outfall structure. |
| 5 | **EAST CELL SOUTH OUTLETS** | **8ES** | **9ES** | **10ES** | **11ES** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | | | | 10ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | √ | √ | | | | 8ES, 9ES - Excess vegetation growth at outfall structure. |
| 6 | **EAST CELL WEST OUTLETS** | **1EW** | **2EW** | **3EW** | **4EW** | **5EW** | | | |
| | Damage (Spalling, Cracking, etc.) | **NS** | **NS** | √ | √ | √ | | | 1EW, 2EW - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | | | 1EW through 5EW - Excess vegetation growth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

**FORM SWM-2 WEST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| Date: 10/29/2021 | | Inspected By: Charles Lambert | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **STRUCTURE NUMBER** | | | | | | | | **REMARKS** |
| 1 | **WEST CELL NORTH OUTLETS** | **1WN** | **2WN** | **3WN** | | | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | | |
| | Settlement Along Structure | √ | √ | √ | | | | | | |
| | Standing Water | √ | √ | √ | | | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | | | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | | | | | | |
| | I/O Sediments and Debris | √ | √ | √ | | | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | | | | | | 1WN, 2WN, 3WN - Vegetation overgrowth at outfall structure. |
| 2 | **WEST CELL EAST OUTLETS** | **1WE** | **2WE** | **3WE** | **4WE** | **5WE** | **6WE** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | √ | √ | | | 3WE - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | √ | **NS** | | | 1WE, 2WE, 3WE, 4WE, 6WE - Vegetation overgrowth at outfall structure. |
| 3 | **WEST CELL SOUTH OUTLETS** | **1WS** | **2WS** | **3WS** | **4WS** | **5WS** | **6WS** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | √ | **NS** | **NS** | **NS** | **NS** | | | 1WS, 3WS, 4WS, 5WS, 6WS - Vegetation overgrowth at outfall structure. |
| 4 | **WEST CELL WEST OUTLETS** | **1WW** | **2WW** | **3WW** | **4WW** | **5WW** | **6WW** | **7WW** | **8WW** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Erosion around exposed outfall structure pipe. |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | √ | **NS** | √ | √ | **NS** | 1WW, 2WW, 3WW, 5WW, 8WW - Vegetation overgrowth at outfall structure. |
| **COMMENTS** | | | | | | | | | | |
| Removed debris and trash as necessary | | | | | | | | | | |

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## CPP DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 10/29/2021** | **Inspected By: Charles Lambert**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Downdrains** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrains** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | | | | | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | | | | | |
| | Erosion Around Pipe | √ | √ | √ | | | | | |
| | Pipe Settlement | √ | √ | √ | | | | | |
| | Damaged Pipe Trench Connections | √ | √ | √ | | | | | |
| | **Downdrains** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2 | **Downdrain Flared End Section (FES)** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Flared End Section (FES)** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Structural Damage | √ | √ | √ | | | | | |
| | Seperation of the FES from Pipe | √ | √ | √ | | | | | |
| | Sediment Accumulation in FES | √ | √ | √ | | | | | |
| | Damaged Pipe Connections | √ | √ | √ | | | | | |
| | Erosion Around FES | √ | √ | √ | | | | | |
| | Settlement Under FES | √ | √ | √ | | | | | |
| | **Downdrain Flared End Section (FES)** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 10/29/2021** | **Inspected By: Charles Lambert**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 3 | **Downdrain Pipe Trenches** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Pipe Trenches** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Damaged Pipe Trenches | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation | √ | √ | √ | | | | | |
| | Pipe Trench Settlement | √ | √ | √ | | | | | |
| | Erosion Around Pipe Trench | √ | √ | √ | | | | | |
| | Damaged Downdrain Connections | √ | √ | √ | | | | | |
| | **Downdrain Pipe Trenches** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 4 | **Downdrain Outlet Protection** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Outlet Protection** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Riprap Displacement | √ | √ | √ | | | | | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | | | | | |
| | Vegetative Growth | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation and Debris | √ | √ | √ | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | |
| | Structure Settlement | √ | √ | √ | | | | | |
| | **Downdrain Outlet Protection** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

**FORM DP-1**
**STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3**
**OCTOBER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 10/29/21 | 1EN, 2EN, 3EN, 4EN, 5EN, 6EN, 7EN, 10EN, 11EN, 12EN, 13EN, 1EE, 2EE, 3EE, 4EE, 1ES, 2ES, 3ES, 4ES, 5ES, 6ES, 7ES, 8ES, 9ES, 1EW, 2EW, 3EW, 4EW, 5EW, 1WN, 2WN, 3WN, 1WE, 2WE, 3WE, 4WE, 6WE, 1WS, 3WS, 4WS, 5WS, 6WS, 1WW, 2WW, 3WW, 5WW, 8WW | Excess vegetation at outfall | None |
| 10/29/21 | 6ES, 10ES, 11ES, 1EW, 2WN, 3WE, 2EW | Damage to outfall stucture | None |
| 10/29/21 | Channel 2-1 and 3-1 | Erosion control fabric visible - erosion/ washout | None |
| 10/29/21 | 6EN | Sediment build-up at outfall structure | Leaves and debris cleared from piping. |
| | | | |
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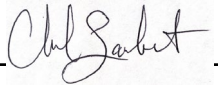
**Date: 10/29/2021**

**Inspected By:** C. Lambert

**Signature:** 

# FORM SWM-1
## MONTHLY INSPECTION CHECKLIST
## DRAINAGE CHANNELS AND DRAINS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 11/24/2021** | **Inspected By: Amber Bartlett**

| | INSPECTION TASK | CHANNEL / DRAIN NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **V-SHAPED w/ PATH** | **1-1** | **2-1** | **3-1** | **3-2** | **3-3** | **4** | **5-4** | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion/Washouts | √ | **NS** | **NS** | √ | √ | √ | √ | Erosion control fabric visible at Channel 3-1. |
| | Sinkholes | √ | √ | √ | √ | √ | √ | √ | |
| | Cleanouts | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Toe Drains | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Damage at Drains/Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **V-SHAPED CHANNEL** | **6** | **8A** | **8B** | **11A** | **11B** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| 3 | **V-SHAPED w/ BERM** | **1-2** | | | | | | | |
| | Overgrown Vegetation | √ | | | | | | | |
| | Standing Water | √ | | | | | | | |
| | Sediments and Debris | √ | | | | | | | |
| | Erosion/Washouts | √ | | | | | | | |
| | Settlement and Sinkholes | √ | | | | | | | |
| 4 | **TRAPEZOIDAL CHANNEL** | **7** | **9** | **10** | | | | | |
| | Overgrown Vegetation | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediments and Debris | √ | √ | √ | | | | | |
| | Erosion/Washouts | √ | √ | √ | | | | | |
| | Settlement and Sinkholes | √ | √ | √ | | | | | |
| 5 | **TRAPEZOIDAL w/ RIPRAP** | **2-2** | **3-4** | **5-1** | **5-2** | **5-3** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| | Loss of Riprap | √ | √ | √ | √ | √ | | | |

**COMMENTS**

**FORM SWM-2 EAST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: 11/24/2021** | **Inspected By: Amber Bartlett**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **EAST CELL NORTH OUTLETS** | **1EN** | **2EN** | **3EN** | **4EN** | **5EN** | **6EN** | **7EN** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | **NS** | √ | 6EN - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | 1EN through 7EN - Excess vegetation growth at outfall structure. |
| 2 | **EAST CELL NORTH OUTLETS** | **8EN** | **9EN** | **10EN** | **11EN** | **12EN** | **13EN** | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | |
| | I/O Vegetative Growth | √ | √ | **NS** | **NS** | **NS** | **NS** | | 10EN, 11EN, 12EN, 13EN - Excess vegetation growth at outfall structure. |
| 3 | **EAST CELL EAST OUTLETS** | **1EE** | **2EE** | **3EE** | **4EE** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | | | | |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | | | | 1EE, 2EE, 3EE, 4EE - Excess vegetation growth at outfall structure. |
| 4 | **EAST CELL SOUTH OUTLETS** | **1ES** | **2ES** | **3ES** | **4ES** | **5ES** | **6ES** | **7ES** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | 1ES through 7ES - Excess vegetation growth at outfall structure. |
| 5 | **EAST CELL SOUTH OUTLETS** | **8ES** | **9ES** | **10ES** | **11ES** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | | | | 10ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | √ | √ | | | | 8ES, 9ES - Excess vegetation growth at outfall structure. |
| 6 | **EAST CELL WEST OUTLETS** | **1EW** | **2EW** | **3EW** | **4EW** | **5EW** | | | |
| | Damage (Spalling, Cracking, etc.) | **NS** | **NS** | √ | √ | √ | | | 1EW, 2EW - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | | | 1EW through 5EW - Excess vegetation growth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

**FORM SWM-2 WEST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| Date: 11/24/2021 | | Inspected By: Amber Bartlett | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **STRUCTURE NUMBER** | | | | | | | | **REMARKS** |
| 1 | **WEST CELL NORTH OUTLETS** | **1WN** | **2WN** | **3WN** | | | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | | |
| | Settlement Along Structure | √ | √ | √ | | | | | | |
| | Standing Water | √ | √ | √ | | | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | | | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | | | | | | |
| | I/O Sediments and Debris | **NS** | √ | √ | | | | | | 1WN - Debris at outfall structure; removed debris. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | | | | | | 1WN, 2WN, 3WN - Vegetation overgrowth at outfall structure. |
| 2 | **WEST CELL EAST OUTLETS** | **1WE** | **2WE** | **3WE** | **4WE** | **5WE** | **6WE** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | √ | √ | | | 3WE - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | **NS** | √ | √ | √ | √ | √ | | | 1WE - Debris at outfall structure; removed debris. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | √ | **NS** | | | 1WE, 2WE, 3WE, 4WE, 6WE - Vegetation overgrowth at outfall structure. |
| 3 | **WEST CELL SOUTH OUTLETS** | **1WS** | **2WS** | **3WS** | **4WS** | **5WS** | **6WS** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | **NS** | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | **NS** | √ | **NS** | √ | √ | √ | | | 1WS, 3WS - Sediment and debris at outfall structure. Removed debris. |
| | I/O Vegetative Growth | **NS** | √ | **NS** | **NS** | **NS** | **NS** | | | 1WS, 3WS, 4WS, 5WS, 6WS - Vegetation overgrowth at outfall structure. |
| 4 | **WEST CELL WEST OUTLETS** | **1WW** | **2WW** | **3WW** | **4WW** | **5WW** | **6WW** | **7WW** | **8WW** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Erosion around exposed outfall structure pipe. |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | √ | √ | **NS** | 1WW, 2WW, 3WW, 5WW, 8WW - Vegetation overgrowth at outfall structure. |
| **COMMENTS** | | | | | | | | | | |
| Removed debris and trash as necessary | | | | | | | | | | |

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## CPP DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 11/24/2021** | **Inspected By: Amber Bartlett**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Downdrains** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrains** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | | | | | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | | | | | |
| | Erosion Around Pipe | √ | √ | √ | | | | | |
| | Pipe Settlement | √ | √ | √ | | | | | |
| | Damaged Pipe Trench Connections | √ | √ | √ | | | | | |
| | **Downdrains** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2 | **Downdrain Flared End Section (FES)** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Flared End Section (FES)** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Structural Damage | √ | √ | √ | | | | | |
| | Seperation of the FES from Pipe | √ | √ | √ | | | | | |
| | Sediment Accumulation in FES | √ | √ | √ | | | | | |
| | Damaged Pipe Connections | √ | √ | √ | | | | | |
| | Erosion Around FES | √ | √ | √ | | | | | |
| | Settlement Under FES | √ | √ | √ | | | | | |
| | **Downdrain Flared End Section (FES)** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 11/24/2021** | **Inspected By: Amber Bartlett**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 3 | **Downdrain Pipe Trenches** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Pipe Trenches** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Damaged Pipe Trenches | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation | √ | √ | √ | | | | | |
| | Pipe Trench Settlement | √ | √ | √ | | | | | |
| | Erosion Around Pipe Trench | √ | √ | √ | | | | | |
| | Damaged Downdrain Connections | √ | √ | √ | | | | | |
| | **Downdrain Pipe Trenches** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 4 | **Downdrain Outlet Protection** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Outlet Protection** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Riprap Displacement | √ | √ | √ | | | | | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | | | | | |
| | Vegetative Growth | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation and Debris | √ | √ | √ | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | |
| | Structure Settlement | √ | √ | √ | | | | | |
| | **Downdrain Outlet Protection** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

**FORM DP-1**
**STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3**
**OCTOBER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 11/24/21 | 1EN, 2EN, 3EN, 4EN, 5EN, 6EN, 7EN, 10EN, 11EN, 12EN, 13EN, 1EE, 2EE, 3EE, 4EE, 1ES, 2ES, 3ES, 4ES, 5ES, 6ES, 7ES, 8ES, 9ES, 1EW, 2EW, 3EW, 4EW, 5EW, 1WN, 2WN, 3WN, 1WE, 2WE, 3WE, 4WE, 6WE, 1WS, 3WS, 4WS, 5WS, 6WS, 1WW, 2WW, 3WW, 5WW, 8WW | Excess vegetation at outfall | None |
| 11/24/21 | 6ES, 10ES, 11ES, 1EW, 2WN, 3WE, 2EW | Damage to outfall stucture | None |
| 11/24/21 | Channel 2-1 and 3-1 | Erosion control fabric visible - erosion/ washout | None |
| 11/24/21 | 1WN, 1WE, 1WS, 3WS, 6EN | Sediment build-up at outfall structure | Leaves and debris cleared from piping. |
| | | | |
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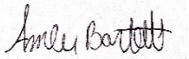
**Date: 11/24/2021**

**Inspected By:** A. Bartlett

**Signature:** 

# FORM SWM-1
## MONTHLY INSPECTION CHECKLIST
## DRAINAGE CHANNELS AND DRAINS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 12/28/2021** | **Inspected By: Amber Bartlett**

| | INSPECTION TASK | CHANNEL / DRAIN NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **V-SHAPED w/ PATH** | **1-1** | **2-1** | **3-1** | **3-2** | **3-3** | **4** | **5-4** | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion/Washouts | √ | **NS** | **NS** | √ | √ | √ | √ | Erosion control fabric visible at Channel 3-1. |
| | Sinkholes | √ | √ | √ | √ | √ | √ | √ | |
| | Cleanouts | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Toe Drains | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Damage at Drains/Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **V-SHAPED CHANNEL** | **6** | **8A** | **8B** | **11A** | **11B** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| 3 | **V-SHAPED w/ BERM** | **1-2** | | | | | | | |
| | Overgrown Vegetation | √ | | | | | | | |
| | Standing Water | √ | | | | | | | |
| | Sediments and Debris | √ | | | | | | | |
| | Erosion/Washouts | √ | | | | | | | |
| | Settlement and Sinkholes | √ | | | | | | | |
| 4 | **TRAPEZOIDAL CHANNEL** | **7** | **9** | **10** | | | | | |
| | Overgrown Vegetation | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediments and Debris | √ | √ | √ | | | | | |
| | Erosion/Washouts | √ | √ | √ | | | | | |
| | Settlement and Sinkholes | √ | √ | √ | | | | | |
| 5 | **TRAPEZOIDAL w/ RIPRAP** | **2-2** | **3-4** | **5-1** | **5-2** | **5-3** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| | Loss of Riprap | √ | √ | √ | √ | √ | | | |

**COMMENTS**

**FORM SWM-2 EAST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: 12/28/2021** | **Inspected By: Amber Bartlett**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **EAST CELL NORTH OUTLETS** | **1EN** | **2EN** | **3EN** | **4EN** | **5EN** | **6EN** | **7EN** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | **NS** | √ | 6EN - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | 1EN through 7EN - Excess vegetation growth at outfall structure. |
| 2 | **EAST CELL NORTH OUTLETS** | **8EN** | **9EN** | **10EN** | **11EN** | **12EN** | **13EN** | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | |
| | I/O Vegetative Growth | √ | √ | **NS** | **NS** | **NS** | **NS** | | 10EN, 11EN, 12EN, 13EN - Excess vegetation growth at outfall structure. |
| 3 | **EAST CELL EAST OUTLETS** | **1EE** | **2EE** | **3EE** | **4EE** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | | | | |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | | | | 1EE, 2EE, 3EE, 4EE - Excess vegetation growth at outfall structure. |
| 4 | **EAST CELL SOUTH OUTLETS** | **1ES** | **2ES** | **3ES** | **4ES** | **5ES** | **6ES** | **7ES** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | **NS** | 1ES through 7ES - Excess vegetation growth at outfall structure. |
| 5 | **EAST CELL SOUTH OUTLETS** | **8ES** | **9ES** | **10ES** | **11ES** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | | | | 10ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | | | | |
| | I/O Vegetative Growth | **NS** | **NS** | √ | √ | | | | 8ES, 9ES - Excess vegetation growth at outfall structure. |
| 6 | **EAST CELL WEST OUTLETS** | **1EW** | **2EW** | **3EW** | **4EW** | **5EW** | | | |
| | Damage (Spalling, Cracking, etc.) | **NS** | **NS** | √ | √ | √ | | | 1EW, 2EW - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | | | 1EW through 5EW - Excess vegetation growth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

**FORM SWM-2 WEST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| Date: 12/28/2021 | | Inspected By: Amber Bartlett | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **STRUCTURE NUMBER** | | | | | | | | **REMARKS** |
| 1 | **WEST CELL NORTH OUTLETS** | **1WN** | **2WN** | **3WN** | | | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | | |
| | Settlement Along Structure | √ | √ | √ | | | | | | |
| | Standing Water | √ | √ | √ | | | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | | | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | | | | | | |
| | I/O Sediments and Debris | **NS** | √ | √ | | | | | | 1WN - Debris at outfall structure; removed debris. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | | | | | | 1WN, 2WN, 3WN - Vegetation overgrowth at outfall structure. |
| 2 | **WEST CELL EAST OUTLETS** | **1WE** | **2WE** | **3WE** | **4WE** | **5WE** | **6WE** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | √ | √ | | | 3WE - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | **NS** | √ | √ | √ | √ | √ | | | 1WE - Debris at outfall structure; removed debris. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | √ | **NS** | | | 1WE, 2WE, 3WE, 4WE, 6WE - Vegetation overgrowth at outfall structure. |
| 3 | **WEST CELL SOUTH OUTLETS** | **1WS** | **2WS** | **3WS** | **4WS** | **5WS** | **6WS** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | **NS** | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | **NS** | √ | **NS** | √ | √ | √ | | | 1WS, 3WS - Sediment and debris at outfall structure. Removed debris. |
| | I/O Vegetative Growth | **NS** | √ | **NS** | **NS** | **NS** | **NS** | | | 1WS, 3WS, 4WS, 5WS, 6WS - Vegetation overgrowth at outfall structure. |
| 4 | **WEST CELL WEST OUTLETS** | **1WW** | **2WW** | **3WW** | **4WW** | **5WW** | **6WW** | **7WW** | **8WW** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Erosion around exposed outfall structure pipe. |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | **NS** | **NS** | √ | √ | **NS** | 1WW, 2WW, 3WW, 5WW, 8WW - Vegetation overgrowth at outfall structure. |
| **COMMENTS** | | | | | | | | | | |
| Removed debris and trash as necessary | | | | | | | | | | |

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## CPP DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 12/28/2021** | **Inspected By: Amber Bartlett**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Downdrains** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrains** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | | | | | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | | | | | |
| | Erosion Around Pipe | √ | √ | √ | | | | | |
| | Pipe Settlement | √ | √ | √ | | | | | |
| | Damaged Pipe Trench Connections | √ | √ | √ | | | | | |
| | **Downdrains** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2 | **Downdrain Flared End Section (FES)** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Flared End Section (FES)** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Structural Damage | √ | √ | √ | | | | | |
| | Seperation of the FES from Pipe | √ | √ | √ | | | | | |
| | Sediment Accumulation in FES | √ | √ | √ | | | | | |
| | Damaged Pipe Connections | √ | √ | √ | | | | | |
| | Erosion Around FES | √ | √ | √ | | | | | |
| | Settlement Under FES | √ | √ | √ | | | | | |
| | **Downdrain Flared End Section (FES)** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 12/28/2021** | **Inspected By: Amber Bartlett**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 3 | **Downdrain Pipe Trenches** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Pipe Trenches** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Damaged Pipe Trenches | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation | √ | √ | √ | | | | | |
| | Pipe Trench Settlement | √ | √ | √ | | | | | |
| | Erosion Around Pipe Trench | √ | √ | √ | | | | | |
| | Damaged Downdrain Connections | √ | √ | √ | | | | | |
| | **Downdrain Pipe Trenches** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 4 | **Downdrain Outlet Protection** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Outlet Protection** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Riprap Displacement | √ | √ | √ | | | | | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | | | | | |
| | Vegetative Growth | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation and Debris | √ | √ | √ | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | |
| | Structure Settlement | √ | √ | √ | | | | | |
| | **Downdrain Outlet Protection** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

**FORM DP-1**
**STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3**
**DECEMBER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 12/28/21 | 1EN, 2EN, 3EN, 4EN, 5EN, 6EN, 7EN, 10EN, 11EN, 12EN, 13EN, 1EE, 2EE, 3EE, 4EE, 1ES, 2ES, 3ES, 4ES, 5ES, 6ES, 7ES, 8ES, 9ES, 1EW, 2EW, 3EW, 4EW, 5EW, 1WN, 2WN, 3WN, 1WE, 2WE, 3WE, 4WE, 6WE, 1WS, 3WS, 4WS, 5WS, 6WS, 1WW, 2WW, 3WW, 5WW, 8WW | Excess vegetation at outfall | None |
| 12/28/21 | 6ES, 10ES, 11ES, 1EW, 2WN, 3WE, 2EW | Damage to outfall stucture | None |
| 12/28/21 | Channel 2-1 and 3-1 | Erosion control fabric visible - erosion/ washout | None |
| 12/28/21 | 1WN, 1WE, 1WS, 3WS, 6EN | Sediment build-up at outfall structure | Leaves and debris cleared from piping. |
| | | | |
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**Date: 12/28/2021**

**Inspected By:** A. Bartlett

**Signature:** Amber Bartlett

# FORM SWM-1
## MONTHLY INSPECTION CHECKLIST
## DRAINAGE CHANNELS AND DRAINS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 1/28/2022** | **Inspected By: Bob Bowden**

| | INSPECTION TASK | CHANNEL / DRAIN NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **V-SHAPED w/ PATH** | **1-1** | **2-1** | **3-1** | **3-2** | **3-3** | **4** | **5-4** | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion/Washouts | √ | **NS** | **NS** | √ | √ | √ | √ | Erosion control fabric visible at Channel 3-1. |
| | Sinkholes | √ | √ | √ | √ | √ | √ | √ | |
| | Cleanouts | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Toe Drains | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Damage at Drains/Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **V-SHAPED CHANNEL** | **6** | **8A** | **8B** | **11A** | **11B** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| 3 | **V-SHAPED w/ BERM** | **1-2** | | | | | | | |
| | Overgrown Vegetation | √ | | | | | | | |
| | Standing Water | √ | | | | | | | |
| | Sediments and Debris | √ | | | | | | | |
| | Erosion/Washouts | √ | | | | | | | |
| | Settlement and Sinkholes | √ | | | | | | | |
| 4 | **TRAPEZOIDAL CHANNEL** | **7** | **9** | **10** | | | | | |
| | Overgrown Vegetation | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediments and Debris | √ | √ | √ | | | | | |
| | Erosion/Washouts | √ | √ | √ | | | | | |
| | Settlement and Sinkholes | √ | √ | √ | | | | | |
| 5 | **TRAPEZOIDAL w/ RIPRAP** | **2-2** | **3-4** | **5-1** | **5-2** | **5-3** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| | Loss of Riprap | √ | √ | √ | √ | √ | | | |

**COMMENTS**

**FORM SWM-2 EAST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: 1/28/2022** | **Inspected By: Bob Bowden**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **EAST CELL NORTH OUTLETS** | **1EN** | **2EN** | **3EN** | **4EN** | **5EN** | **6EN** | **7EN** | |
| | Damage (Spalling, Cracking, etc.) | √ | **NS** | √ | √ | √ | √ | **NS** | 2EN, 7EN, - Damaged outfall structures |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | **NS** | **NS** | √ | √ | **NS** | **NS** | **NS** | 1EN, 2EN, 5EN, 6EN, 7EN - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | √ | √ | √ | √ | √ | **NS** | 1EN, 7EN - Excess vegetation growth at outfall structure. |
| 2 | **EAST CELL NORTH OUTLETS** | **8EN** | **9EN** | **10EN** | **11EN** | **12EN** | **13EN** | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | |
| | I/O Sediments and Debris | √ | **NS** | √ | √ | **NS** | **NS** | | 9EN, 12EN, 13EN - Sediment build-up at outfall structure |
| | I/O Vegetative Growth | √ | √ | √ | **NS** | **NS** | √ | | 10EN, 11EN, 12EN, 13EN - Excess vegetation growth at outfall structure. |
| 3 | **EAST CELL EAST OUTLETS** | **1EE** | **2EE** | **3EE** | **4EE** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | | | | |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | | | | |
| | I/O Vegetative Growth | **NS** | √ | √ | √ | | | | 1EE- Excess vegetation growth at outfall structure. |
| 4 | **EAST CELL SOUTH OUTLETS** | **1ES** | **2ES** | **3ES** | **4ES** | **5ES** | **6ES** | **7ES** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | **NS** | √ | √ | **NS** | √ | √ | **NS** | 1ES, 4ES, 7ES - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | √ | √ | **NS** | √ | √ | √ | 1ES, 4ES - Excess vegetation growth at outfall structure. |
| 5 | **EAST CELL SOUTH OUTLETS** | **8ES** | **9ES** | **10ES** | **11ES** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | | | | 10ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | **NS** | √ | √ | √ | | | | 8ES - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | √ | √ | √ | | | | 8ES - Excess vegetation growth at outfall structure. |
| 6 | **EAST CELL WEST OUTLETS** | **1EW** | **2EW** | **3EW** | **4EW** | **5EW** | | | |
| | Damage (Spalling, Cracking, etc.) | **NS** | **NS** | √ | √ | √ | | | 1EW, 2EW - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | **NS** | | | 5EW - Standing water in outfall structure. |
| | Sediment/Debris in Pipe | **NS** | √ | √ | √ | √ | | | 1EW - Sediment build-up in pipe. |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | **NS** | √ | **NS** | √ | **NS** | | | 1EW, 3EW, 5EW - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | | **NS** | **NS** | | | 1EW, 2EW, 4EW, 5EW - Excess vegetation growth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

**FORM SWM-2 WEST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| Date: 1/28/2022 | | Inspected By: Bob Bowden | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **STRUCTURE NUMBER** | | | | | | | | **REMARKS** |
| 1 | **WEST CELL NORTH OUTLETS** | **1WN** | **2WN** | **3WN** | | | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | **NS** | √ | | | | | | 2WN - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | | | | | | |
| | Settlement Along Structure | √ | √ | √ | | | | | | |
| | Standing Water | √ | √ | √ | | | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | | | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | | | | | | |
| | I/O Sediments and Debris | **NS** | **NS** | √ | | | | | | 1WN, 2WN - Debris at outfall structure; removed debris. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | | | | | | 1WN, 2WN, 3WN - Vegetation overgrowth at outfall structure. |
| 2 | **WEST CELL EAST OUTLETS** | **1WE** | **2WE** | **3WE** | **4WE** | **5WE** | **6WE** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | √ | √ | **NS** | | | 1WE, 2WE, 3WE, 6WE - Vegetation overgrowth at outfall structure. |
| 3 | **WEST CELL SOUTH OUTLETS** | **1WS** | **2WS** | **3WS** | **4WS** | **5WS** | **6WS** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | **NS** | √ | √ | **NS** | √ | | | 2WS, 5WS - Sediment and debris at outfall structure. Removed debris. |
| | I/O Vegetative Growth | √ | **NS** | √ | √ | √ | √ | | | 2WS - Vegetation overgrowth at outfall structure. |
| 4 | **WEST CELL WEST OUTLETS** | **1WW** | **2WW** | **3WW** | **4WW** | **5WW** | **6WW** | **7WW** | **8WW** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Erosion around exposed outfall structure pipe. |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | **NS** | 8WW - Standing water in pipe. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | **NS** | √ | √ | √ | √ | √ | √ | **NS** | 1WW, 8WW - Sediment and Debris in outfall structure. |
| | I/O Vegetative Growth | **NS** | √ | **NS** | √ | √ | √ | √ | √ | 1WW, 3WW, - Vegetation overgrowth at outfall structure. |
| **COMMENTS** | | | | | | | | | | |
| Removed debris and trash as necessary | | | | | | | | | | |

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## CPP DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 1/28/2022** | **Inspected By: Bob Bowden**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Downdrains** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrains** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | | | | | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | | | | | |
| | Erosion Around Pipe | √ | √ | √ | | | | | |
| | Pipe Settlement | √ | √ | √ | | | | | |
| | Damaged Pipe Trench Connections | √ | √ | √ | | | | | |
| | **Downdrains** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2 | **Downdrain Flared End Section (FES)** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Flared End Section (FES)** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Structural Damage | √ | √ | √ | | | | | |
| | Seperation of the FES from Pipe | √ | √ | √ | | | | | |
| | Sediment Accumulation in FES | √ | √ | √ | | | | | |
| | Damaged Pipe Connections | √ | √ | √ | | | | | |
| | Erosion Around FES | √ | √ | √ | | | | | |
| | Settlement Under FES | √ | √ | √ | | | | | |
| | **Downdrain Flared End Section (FES)** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 1/28/2022** | **Inspected By: Bob Bowden**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 3 | **Downdrain Pipe Trenches** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Pipe Trenches** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Damaged Pipe Trenches | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation | √ | √ | √ | | | | | |
| | Pipe Trench Settlement | √ | √ | √ | | | | | |
| | Erosion Around Pipe Trench | √ | √ | √ | | | | | |
| | Damaged Downdrain Connections | √ | √ | √ | | | | | |
| | **Downdrain Pipe Trenches** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 4 | **Downdrain Outlet Protection** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Outlet Protection** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Riprap Displacement | √ | √ | √ | | | | | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | | | | | |
| | Vegetative Growth | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation and Debris | √ | √ | √ | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | |
| | Structure Settlement | √ | √ | √ | | | | | |
| | **Downdrain Outlet Protection** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

**FORM DP-1**
**STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3**
**JANUARY 2022**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 1/28/22 | 1EN, 7EN, 10EN, 11EN, 12EN, 13EN, 1EE, 1ES, 4ES, 8ES, 1EW, 2EW, 4EW, 5EW, 1WN, 2WN, 3WN, 1WE, 2WE, 3WE, 6WE, 2WS, 1WW, 3WW | Excess vegetation at outfall | None |
| 1/28/22 | 2EN, 7 EN, 6ES, 10ES, 1EW, 2EW, 2WN | Damage to outfall stucture | None |
| 1/28/22 | Channel 2-1 and 3-1 | Erosion control fabric visible - erosion/ washout | None |
| 1/28/22 | 1EN, 2EN, 5EN, 6EN, 7EN, 9EN, 12EN, 13EN, 1ES, 4ES, 7ES, 8ES, 1EW, 3EW, 5EW, 1WN, 2WN, 2WS, 5WS, 1WW, 8WW | Sediment build-up at outfall structure | Leaves and debris cleared from piping. |
| 1/28/22 | 5EW, 8WW | Standing water in pipe at outfall structure. | None |
| 1/28/22 | 4WW | Erosion around outfall pipe. | None |
| | | | |
| | | | |
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**Date: 1/28/2022**

**Inspected By:** B. Bowden

**Signature:** RC Bowden

# FORM SWM-1
## MONTHLY INSPECTION CHECKLIST
## DRAINAGE CHANNELS AND DRAINS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 2/25/2022** | **Inspected By: Bob Bowden**

| | INSPECTION TASK | CHANNEL / DRAIN NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **V-SHAPED w/ PATH** | **1-1** | **2-1** | **3-1** | **3-2** | **3-3** | **4** | **5-4** | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion/Washouts | √ | **NS** | **NS** | √ | √ | √ | √ | Erosion control fabric visible at Channel 3-1. |
| | Sinkholes | √ | √ | √ | √ | √ | √ | √ | |
| | Cleanouts | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Toe Drains | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Damage at Drains/Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **V-SHAPED CHANNEL** | **6** | **8A** | **8B** | **11A** | **11B** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| 3 | **V-SHAPED w/ BERM** | **1-2** | | | | | | | |
| | Overgrown Vegetation | √ | | | | | | | |
| | Standing Water | √ | | | | | | | |
| | Sediments and Debris | √ | | | | | | | |
| | Erosion/Washouts | √ | | | | | | | |
| | Settlement and Sinkholes | √ | | | | | | | |
| 4 | **TRAPEZOIDAL CHANNEL** | **7** | **9** | **10** | | | | | |
| | Overgrown Vegetation | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediments and Debris | √ | √ | √ | | | | | |
| | Erosion/Washouts | √ | √ | √ | | | | | |
| | Settlement and Sinkholes | √ | √ | √ | | | | | |
| 5 | **TRAPEZOIDAL w/ RIPRAP** | **2-2** | **3-4** | **5-1** | **5-2** | **5-3** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| | Loss of Riprap | √ | √ | √ | √ | √ | | | |

**COMMENTS**

**FORM SWM-2 EAST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: 2/25/2022** | **Inspected By: Bob Bowden**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **EAST CELL NORTH OUTLETS** | **1EN** | **2EN** | **3EN** | **4EN** | **5EN** | **6EN** | **7EN** | |
| | Damage (Spalling, Cracking, etc.) | √ | **NS** | √ | √ | √ | √ | **NS** | 2EN, 7EN, - Damaged outfall structures |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | **NS** | √ | √ | √ | √ | √ | 2EN - Standing water in pipe. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | **NS** | **NS** | √ | √ | **NS** | **NS** | **NS** | 1EN, 2EN, 5EN, 6EN, 7EN - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | √ | √ | √ | √ | √ | **NS** | 1EN, 7EN - Excess vegetation growth at outfall structure. |
| 2 | **EAST CELL NORTH OUTLETS** | **8EN** | **9EN** | **10EN** | **11EN** | **12EN** | **13EN** | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | |
| | Standing Water | √ | √ | √ | **NS** | √ | √ | | 11EN - Standing water in pipe. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | |
| | I/O Sediments and Debris | √ | **NS** | **NS** | **NS** | **NS** | **NS** | | 9EN, 10EN, 11EN, 12EN, 13EN - Sediment build-up at outfall structure |
| | I/O Vegetative Growth | √ | √ | √ | **NS** | **NS** | √ | | 11EN, 12EN - Excess vegetation growth at outfall structure. |
| 3 | **EAST CELL EAST OUTLETS** | **1EE** | **2EE** | **3EE** | **4EE** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | | | | |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | **NS** | **NS** | **NS** | √ | | | | 1EE, 2EE, 3EE - Standing water in pipes. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | √ | √ | **NS** | √ | | | | 3EE - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | √ | √ | √ | | | | 1EE- Excess vegetation growth at outfall structure. |
| 4 | **EAST CELL SOUTH OUTLETS** | **1ES** | **2ES** | **3ES** | **4ES** | **5ES** | **6ES** | **7ES** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | **NS** | **NS** | **NS** | √ | √ | √ | 2ES, 3ES, 4ES - Standing water in pipes. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | **NS** | √ | √ | **NS** | √ | √ | **NS** | 1ES, 4ES, 7ES - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | √ | √ | **NS** | √ | √ | √ | 1ES, 4ES - Excess vegetation growth at outfall structure. |
| 5 | **EAST CELL SOUTH OUTLETS** | **8ES** | **9ES** | **10ES** | **11ES** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | | | | 10ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | **NS** | **NS** | √ | √ | | | | 8ES, 98ES - Standing water in pipes. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | **NS** | √ | √ | √ | | | | 8ES - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | √ | √ | √ | | | | 8ES - Excess vegetation growth at outfall structure. |
| 6 | **EAST CELL WEST OUTLETS** | **1EW** | **2EW** | **3EW** | **4EW** | **5EW** | | | |
| | Damage (Spalling, Cracking, etc.) | **NS** | **NS** | √ | √ | √ | | | 1EW, 2EW - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | **NS** | **NS** | | | 4EW, 5EW - Standing water in outfall structure. |
| | Sediment/Debris in Pipe | **NS** | √ | √ | √ | √ | | | 1EW - Sediment build-up in pipe. |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | **NS** | √ | **NS** | √ | **NS** | | | 1EW, 3EW, 5EW - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | | **NS** | **NS** | | | 1EW, 2EW, 4EW, 5EW - Excess vegetation growth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

**FORM SWM-2 WEST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| Date: 2/25/2022 | | Inspected By: Bob Bowden | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | | REMARKS |
| 1 | **WEST CELL NORTH OUTLETS** | **1WN** | **2WN** | **3WN** | | | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | **NS** | √ | | | | | | 2WN - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | | | | | | |
| | Settlement Along Structure | √ | √ | √ | | | | | | |
| | Standing Water | **NS** | **NS** | **NS** | | | | | | 1WN, 2WN, 3WN - Standing water in pipes. |
| | Sediment/Debris in Pipe | √ | √ | √ | | | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | | | | | | |
| | I/O Sediments and Debris | **NS** | **NS** | √ | | | | | | 1WN, 2WN - Debris at outfall structure; removed debris. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | | | | | | 1WN, 2WN, 3WN - Vegetation overgrowth at outfall structure. |
| 2 | **WEST CELL EAST OUTLETS** | **1WE** | **2WE** | **3WE** | **4WE** | **5WE** | **6WE** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | **NS** | **NS** | **NS** | √ | √ | √ | | | 1WE, 2WE, 3WE - Standing water in pipes. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | √ | √ | **NS** | | | 1WE, 2WE, 3WE, 6WE - Vegetation overgrowth at outfall structure. |
| 3 | **WEST CELL SOUTH OUTLETS** | **1WS** | **2WS** | **3WS** | **4WS** | **5WS** | **6WS** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | **NS** | **NS** | √ | **NS** | √ | | | 2WS, 3WS, 5WS - Standing water in pipes. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | **NS** | **NS** | √ | **NS** | √ | | | 2WS, 3WS, 5WS - Sediment and debris at outfall structure. Removed debris. |
| | I/O Vegetative Growth | √ | **NS** | √ | √ | √ | √ | | | 2WS - Vegetation overgrowth at outfall structure. |
| 4 | **WEST CELL WEST OUTLETS** | **1WW** | **2WW** | **3WW** | **4WW** | **5WW** | **6WW** | **7WW** | **8WW** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Erosion around exposed outfall structure pipe. |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | **NS** | **NS** | **NS** | √ | √ | √ | √ | **NS** | 1WW, 2WW, 3WW, 8WW - Standing water in pipe. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | **NS** | √ | **NS** | **NS** | √ | √ | √ | **NS** | 1WW, 3WW, 4WW, 8WW - Sediment and Debris in outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | √ | √ | √ | √ | √ | 1WW, 2WW, 3WW - Vegetation overgrowth at outfall structure. |
| **COMMENTS** | | | | | | | | | | |
| Removed debris and trash as necessary | | | | | | | | | | |

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## CPP DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 2/25/2022** | **Inspected By: Bob Bowden**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Downdrains** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrains** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | | | | | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | | | | | |
| | Erosion Around Pipe | √ | √ | √ | | | | | |
| | Pipe Settlement | √ | √ | √ | | | | | |
| | Damaged Pipe Trench Connections | √ | √ | √ | | | | | |
| | **Downdrains** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2 | **Downdrain Flared End Section (FES)** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Flared End Section (FES)** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Structural Damage | √ | √ | √ | | | | | |
| | Seperation of the FES from Pipe | √ | √ | √ | | | | | |
| | Sediment Accumulation in FES | √ | √ | √ | | | | | |
| | Damaged Pipe Connections | √ | √ | √ | | | | | |
| | Erosion Around FES | √ | √ | √ | | | | | |
| | Settlement Under FES | √ | √ | √ | | | | | |
| | **Downdrain Flared End Section (FES)** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 2/25/2022** | **Inspected By: Bob Bowden**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 3 | **Downdrain Pipe Trenches** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Pipe Trenches** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Damaged Pipe Trenches | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation | √ | √ | √ | | | | | |
| | Pipe Trench Settlement | √ | √ | √ | | | | | |
| | Erosion Around Pipe Trench | √ | √ | √ | | | | | |
| | Damaged Downdrain Connections | √ | √ | √ | | | | | |
| | **Downdrain Pipe Trenches** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 4 | **Downdrain Outlet Protection** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Outlet Protection** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Riprap Displacement | √ | √ | √ | | | | | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | | | | | |
| | Vegetative Growth | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation and Debris | √ | √ | √ | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | |
| | Structure Settlement | √ | √ | √ | | | | | |
| | **Downdrain Outlet Protection** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

**FORM DP-1**
**STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3**
**FEBRUARY 2022**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 2/25/22 | 1EN, 7EN, 11EN, 12EN, 1EE, 1ES, 4ES, 8ES, 1EW, 2EW, 4EW, 5EW, 1WN, 2WN, 3WN, 1WE, 2WE, 3WE, 6WE, 2WS, 1WW, 2WW 3WW | Excess vegetation at outfall | None |
| 2/25/22 | 2EN, 7 EN, 6ES, 10ES, 1EW, 2EW, 2WN | Damage to outfall stucture | None |
| 2/25/22 | Channel 2-1 and 3-1 | Erosion control fabric visible - erosion/ washout | None |
| 2/25/22 | 1EN, 2EN, 5EN, 6EN, 7EN, 9EN, 10EN, 11EN, 12EN, 13EN, 3EE, 1ES, 4ES, 7ES, 8ES, 1EW, 3EW, 5EW, 1WN, 2WN, 2WS, 3WS, 5WS, 1WW, 3WW, 4WW, 8WW | Sediment build-up at outfall structure | Leaves and debris cleared from piping. |
| 2/25/22 | 2EN, 11EN, 1EE, 2EE, 3EE, 2ES, 3ES, 4ES, 8ES, 9ES, 4EW, 5EW, 1WN, 2WN, 3WN, 1WE, 2WE, 3WE, 2WS, 3WS, 5WS, 1WW, 2WW, 3WW, 8WW | Standing water in pipe at outfall structure. | None |
| 2/25/22 | 4WW | Erosion around outfall pipe. | None |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Date: 2/25/2022**

**Inspected By:** B. Bowden

**Signature:** RC Bowden

# FORM SWM-1
## MONTHLY INSPECTION CHECKLIST
## DRAINAGE CHANNELS AND DRAINS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 3/29/2022** | **Inspected By: Bob Bowden**

| | INSPECTION TASK | CHANNEL / DRAIN NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **V-SHAPED w/ PATH** | **1-1** | **2-1** | **3-1** | **3-2** | **3-3** | **4** | **5-4** | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediments and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion/Washouts | √ | **NS** | **NS** | √ | √ | √ | √ | Erosion control fabric visible at Channel 3-1. |
| | Sinkholes | √ | √ | √ | √ | √ | √ | √ | |
| | Cleanouts | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Toe Drains | √ | √ | √ | √ | √ | √ | √ | |
| | Flow at Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Damage at Drains/Culverts | √ | √ | √ | √ | √ | √ | √ | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 2 | **V-SHAPED CHANNEL** | **6** | **8A** | **8B** | **11A** | **11B** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| 3 | **V-SHAPED w/ BERM** | **1-2** | | | | | | | |
| | Overgrown Vegetation | √ | | | | | | | |
| | Standing Water | √ | | | | | | | |
| | Sediments and Debris | √ | | | | | | | |
| | Erosion/Washouts | √ | | | | | | | |
| | Settlement and Sinkholes | √ | | | | | | | |
| 4 | **TRAPEZOIDAL CHANNEL** | **7** | **9** | **10** | | | | | |
| | Overgrown Vegetation | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediments and Debris | √ | √ | √ | | | | | |
| | Erosion/Washouts | √ | √ | √ | | | | | |
| | Settlement and Sinkholes | √ | √ | √ | | | | | |
| 5 | **TRAPEZOIDAL w/ RIPRAP** | **2-2** | **3-4** | **5-1** | **5-2** | **5-3** | | | |
| | Overgrown Vegetation | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediments and Debris | √ | √ | √ | √ | √ | | | |
| | Erosion/Washouts | √ | √ | √ | √ | √ | | | |
| | Settlement and Sinkholes | √ | √ | √ | √ | √ | | | |
| | Loss of Riprap | √ | √ | √ | √ | √ | | | |

**COMMENTS**

**FORM SWM-2 EAST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

**Date: 3/29/2022** | **Inspected By: Bob Bowden**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **EAST CELL NORTH OUTLETS** | **1EN** | **2EN** | **3EN** | **4EN** | **5EN** | **6EN** | **7EN** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | **NS** | 6EN, 7EN, - Damaged outfall structures |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | **NS** | √ | **NS** | **NS** | **NS** | **NS** | **NS** | 1EN, 3EN, 4EN, 5EN, 6EN, 7EN - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | √ | **NS** | **NS** | √ | √ | **NS** | **NS** | 2EN, 3EN, 6EN, 7EN - Excess vegetation growth at outfall structure. |
| 2 | **EAST CELL NORTH OUTLETS** | **8EN** | **9EN** | **10EN** | **11EN** | **12EN** | **13EN** | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | |
| | Standing Water | √ | √ | √ | √ | √ | √ | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | |
| | I/O Sediments and Debris | √ | √ | **NS** | √ | **NS** | **NS** | | 10EN, 12EN, 13EN - Sediment build-up at outfall structure |
| | I/O Vegetative Growth | √ | √ | √ | **NS** | **NS** | √ | | 11EN, 12EN - Excess vegetation growth at outfall structure. |
| 3 | **EAST CELL EAST OUTLETS** | **1EE** | **2EE** | **3EE** | **4EE** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | | | | |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | **NS** | **NS** | **NS** | √ | | | | 1EE, 2EE, 3EE - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | √ | √ | √ | | | | 1EE - Excess vegetation growth at outfall structure. |
| 4 | **EAST CELL SOUTH OUTLETS** | **1ES** | **2ES** | **3ES** | **4ES** | **5ES** | **6ES** | **7ES** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | **NS** | √ | 6ES - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | **NS** | **NS** | √ | √ | √ | √ | **NS** | 1ES, 2ES, 7ES - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | √ | √ | √ | √ | √ | 1ES, 2ES - Excess vegetation growth at outfall structure. |
| 5 | **EAST CELL SOUTH OUTLETS** | **8ES** | **9ES** | **10ES** | **11ES** | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | **NS** | √ | | | | 10ES - Dislodged grate cover |
| | Erosion Around Structure | √ | √ | √ | √ | | | | |
| | Settlement Along Structure | √ | √ | √ | √ | | | | |
| | Standing Water | √ | √ | √ | √ | | | | |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | | | | |
| | I/O Sediments and Debris | **NS** | **NS** | √ | √ | | | | 8ES, 9ES - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | √ | √ | √ | | | | 8ES - Excess vegetation growth at outfall structure. |
| 6 | **EAST CELL WEST OUTLETS** | **1EW** | **2EW** | **3EW** | **4EW** | **5EW** | | | |
| | Damage (Spalling, Cracking, etc.) | **NS** | **NS** | √ | √ | √ | | | 1EW, 2EW - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | √ | √ | √ | √ | | | |
| | Sediment/Debris in Pipe | **NS** | √ | √ | √ | **NS** | | | 1EW, 5EW - Sediment build-up in pipe. |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | **NS** | **NS** | **NS** | √ | √ | | | 1EW, 2EW, 3EW - Sediment build-up at outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | | **NS** | **NS** | | | 1EW, 2EW, 4EW, 5EW - Excess vegetation growth at outfall structure. |

**COMMENTS**

Removed debris and trash as necessary

**FORM SWM-2 WEST**
**MONTHLY INSPECTION CHECKLIST**
**PERIMETER ROAD DRAINAGE OUTLETS**
**STORMWATER MANAGEMENT SYSTEM**
**BROOKFIELD AVENUE LANDFILL**

| Date: 3/29/2022 | | Inspected By: Bob Bowden | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **STRUCTURE NUMBER** | | | | | | | | **REMARKS** |
| 1 | **WEST CELL NORTH OUTLETS** | **1WN** | **2WN** | **3WN** | | | | | | |
| | Damage (Spalling, Cracking, etc.) | √ | **NS** | √ | | | | | | 2WN - Outfall structure cracked. |
| | Erosion Around Structure | √ | √ | √ | | | | | | |
| | Settlement Along Structure | √ | √ | √ | | | | | | |
| | Standing Water | √ | √ | **NS** | | | | | | 2WN, 3WN - Standing water in pipes. |
| | Sediment/Debris in Pipe | √ | √ | √ | | | | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | | | | | | |
| | I/O Sediments and Debris | **NS** | **NS** | **NS** | | | | | | 1WN, 2WN, 3WN - Debris at outfall structure; removed debris. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | | | | | | 1WN, 2WN, 3WN - Vegetation overgrowth at outfall structure. |
| 2 | **WEST CELL EAST OUTLETS** | **1WE** | **2WE** | **3WE** | **4WE** | **5WE** | **6WE** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | **NS** | **NS** | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | **NS** | √ | √ | √ | √ | √ | | | 1WE - Standing water in pipes. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | **NS** | √ | √ | √ | √ | √ | | | |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | √ | √ | **NS** | | | 1WE, 2WE, 3WE, 6WE - Vegetation overgrowth at outfall structure. |
| 3 | **WEST CELL SOUTH OUTLETS** | **1WS** | **2WS** | **3WS** | **4WS** | **5WS** | **6WS** | | | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | | | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | | | |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | | | |
| | Standing Water | √ | **NS** | **NS** | √ | √ | √ | | | 2WS, 3WS - Standing water in pipes. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | | | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | | | |
| | I/O Sediments and Debris | √ | **NS** | **NS** | √ | **NS** | √ | | | 2WS, 3WS, 5WS - Sediment and debris at outfall structure. Removed debris. |
| | I/O Vegetative Growth | √ | **NS** | √ | √ | **NS** | **NS** | | | 2WS, 5WS, 6WS - Vegetation overgrowth at outfall structure. |
| 4 | **WEST CELL WEST OUTLETS** | **1WW** | **2WW** | **3WW** | **4WW** | **5WW** | **6WW** | **7WW** | **8WW** | |
| | Damage (Spalling, Cracking, etc.) | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | **NS** | √ | √ | √ | √ | 4WW - Erosion around exposed outfall structure pipe. |
| | Settlement Along Structure | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | **NS** | 8WW - Standing water in pipe. |
| | Sediment/Debris in Pipe | √ | √ | √ | √ | √ | √ | √ | √ | |
| | Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement | √ | √ | √ | √ | √ | √ | √ | √ | |
| | I/O Sediments and Debris | **NS** | **NS** | **NS** | **NS** | √ | √ | √ | **NS** | 1WW, 2WW, 3WW, 4WW, 8WW - Sediment and Debris in outfall structure. |
| | I/O Vegetative Growth | **NS** | **NS** | **NS** | √ | √ | √ | √ | √ | 1WW, 2WW, 3WW - Vegetation overgrowth at outfall structure. |
| **COMMENTS** | | | | | | | | | | |
| Removed debris and trash as necessary | | | | | | | | | | |

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## CPP DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 3/29/2022** | **Inspected By: Bob Bowden**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Downdrains** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrains** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | | | | | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | | | | | |
| | Erosion Around Pipe | √ | √ | √ | | | | | |
| | Pipe Settlement | √ | √ | √ | | | | | |
| | Damaged Pipe Trench Connections | √ | √ | √ | | | | | |
| | **Downdrains** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Pipe /Fitting Damage (Cracking etc.) | √ | √ | √ | √ | √ | √ | √ | |
| | Debris / Sediment Blockage In Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Trench Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2 | **Downdrain Flared End Section (FES)** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Flared End Section (FES)** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Structural Damage | √ | √ | √ | | | | | |
| | Seperation of the FES from Pipe | √ | √ | √ | | | | | |
| | Sediment Accumulation in FES | √ | √ | √ | | | | | |
| | Damaged Pipe Connections | √ | √ | √ | | | | | |
| | Erosion Around FES | √ | √ | √ | | | | | |
| | Settlement Under FES | √ | √ | √ | | | | | |
| | **Downdrain Flared End Section (FES)** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Structural Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Seperation of the FES from Pipe | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation in FES | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Pipe Connections | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around FES | √ | √ | √ | √ | √ | √ | √ | |
| | Settlement Under FES | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site appurtenances are stable and functional

# FORM SWM-3
## MONTHLY INSPECTION CHECKLIST
## DOWNDRAINS, FLARED END SECTIONS, PIPE TRENCHES, AND ENERGY DISSIPATORS
## STORMWATER MANAGEMENT SYSTEM
## BROOKFIELD AVENUE LANDFILL

**Date: 3/29/2022** | **Inspected By: Bob Bowden**

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 3 | **Downdrain Pipe Trenches** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Pipe Trenches** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Damaged Pipe Trenches | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation | √ | √ | √ | | | | | |
| | Pipe Trench Settlement | √ | √ | √ | | | | | |
| | Erosion Around Pipe Trench | √ | √ | √ | | | | | |
| | Damaged Downdrain Connections | √ | √ | √ | | | | | |
| | **Downdrain Pipe Trenches** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Damaged Pipe Trenches | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation | √ | √ | √ | √ | √ | √ | √ | |
| | Pipe Trench Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Pipe Trench | √ | √ | √ | √ | √ | √ | √ | |
| | Damaged Downdrain Connections | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

| | INSPECTION TASK | STRUCTURE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 4 | **Downdrain Outlet Protection** | **DDE1** | **DDE2** | **DDE3** | **DDE4** | **DDE5** | **DDE6** | **DDE7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | **Downdrain Outlet Protection** | **DDE8** | **DDE9** | **DDE10** | | | | | |
| | Riprap Displacement | √ | √ | √ | | | | | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | | | | | |
| | Vegetative Growth | √ | √ | √ | | | | | |
| | Standing Water | √ | √ | √ | | | | | |
| | Sediment Accumulation and Debris | √ | √ | √ | | | | | |
| | Erosion Around Structure | √ | √ | √ | | | | | |
| | Structure Settlement | √ | √ | √ | | | | | |
| | **Downdrain Outlet Protection** | **DDWI** | **DDW2** | **DDW3** | **DDW4** | **DDW5** | **DDW6** | **DDW7** | |
| | Riprap Displacement | √ | √ | √ | √ | √ | √ | √ | |
| | Flow from CPP Discharge Pipes | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetative Growth | √ | √ | √ | √ | √ | √ | √ | |
| | Standing Water | √ | √ | √ | √ | √ | √ | √ | |
| | Sediment Accumulation and Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Erosion Around Structure | √ | √ | √ | √ | √ | √ | √ | |
| | Structure Settlement | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Site outlets are stable and functional

**FORM DP-1**
**STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3**
**MARCH 2022**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 3/29/22 | 2EN, 3EN, 6EN, 7EN, 11EN, 12EN, 1EE, 1ES, 2ES, 8ES, 1EW, 2EW, 4EW, 5EW, 1WN, 2WN, 3WN, 1WE, 2WE, 3WE, 6WE, 2WS, 5WS, 6WS, 1WW, 2WW, 3WW | Excess vegetation at outfall | None |
| 3/29/22 | 6EN, 7EN, 6ES, 10ES, 1EW, 2EW, 2WN | Damage to outfall stucture | None |
| 3/29/22 | Channel 2-1 and 3-1 | Erosion control fabric visible - erosion/ washout | None |
| 3/29/22 | 1EN, 3EN, 4EN, 5EN, 6EN, 7EN, 10EN, 12EN, 13EN, 1EE, 2EE, 3EE, 1ES, 2ES, 7ES, 8ES, 9ES, 1EW, 2EW, 3EW, 1WN, 2WN, 3WN, 2WS, 3WS, 5WS, 1WW, 2WW, 3WW, 4WW, 8WW | Sediment build-up at outfall structure | Leaves and debris cleared from piping. |
| 3/29/22 | 2WN, 3WN, 1WE, 2WS, 3WS, 8WW | Standing water in pipe at outfall structure. | None |
| 3/29/22 | 4WW | Erosion around outfall pipe. | None |
| 3/29/22 | 1EW, 5EW | Sediment build-up in pipe. | None |
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**Date: 3/29/2022**

**Inspected By:** B. Bowden

**Signature:** RC Bowden

# APPENDIX F

# ANCILLARY SYSTEMS

**FORM ANS-1**
**MONTHLY INSPECTION CHECKLIST**
**ANCILLARY SYSTEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date: April 26, 2021 | | Inspected By: R. Bowden, J. Menniti | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **INSPECTION ZONE NUMBER** | | | | | | | **REMARKS** |
| 1 | **ROADS** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | √ | √ | √ | √ | √ | √ | |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | √ | √ | √ | √ | |
| | Roadway Pavement Condition | **NS** | √ | √ | **NS** | √ | √ | √ | Surface cracks observed in roadway pavement in Zone 1 and Zone 4A. |
| 2 | **Walking Trails** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | **NS** | √ | **NS** | **NS** | **NS** | **NS** | Rutting observed along walking trails in Zones 2, 4A, 4B, 5, and 6. |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | **NS** | √ | **NS** | √ | Exposed erosion control fabric in Zones 4A and 5. |
| | Trail Stone Condition | √ | √ | √ | √ | √ | √ | √ | |
| 3 | **Fencing , Locks, Gates** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Vandalism | √ | √ | √ | √ | √ | √ | √ | |
| | Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Gate Alignment and Swing Action | √ | √ | √ | √ | √ | √ | √ | |
| | Lock Lubrication and Function | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 4 | **Site Lighting** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Outage | √ | √ | √ | √ | √ | √ | √ | |
| 5 | **LMS Confined Space Entry Signs** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | | √ | √ | | √ | √ | |
| 6 | **Litter** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Illegal Dumping | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Surface cracks in Zone 1 measure 0.5" to 1" wide - no change since July 2020.

Surface cracks in Zone 4A measure 0.25" to 0.5" wide no change since July 2020.

**FORM DP-1**
**ANCILLARY SYSTEMS: ANS-1**
**APRIL 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 4/26/21 | Zone 1 and 4A | Surface pavement cracking | None |
| 4/26/21 | Zones 2, 4A, 4B, 5, and 6 | Minor rutting at walking paths | None |
| 4/26/21 | Zones 4A and 5 | Exposed erosion control fabric | None |
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**Date:** 4/26/21

**Inspected By:** R. Bowden

**Signature:** RC Bowden

**FORM ANS-1**
**MONTHLY INSPECTION CHECKLIST**
**ANCILLARY SYSTEMS**
**BROOKFIELD AVENUE LANDFILL**

**Date: May 25, 2021** | **Inspected By: C. Lambert, J. Menniti**

| | INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **ROADS** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | √ | √ | √ | √ | √ | √ | |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | √ | √ | √ | √ | |
| | Roadway Pavement Condition | **NS** | √ | √ | **NS** | √ | √ | √ | Surface cracks observed in roadway pavement in Zone 1 and Zone 4A. |
| 2 | **Walking Trails** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | **NS** | √ | **NS** | **NS** | **NS** | **NS** | Rutting observed along walking trails in Zones 2, 4A, 4B, 5, and 6. |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | **NS** | √ | **NS** | √ | Exposed erosion control fabric in Zones 4A and 5. |
| | Trail Stone Condition | √ | √ | √ | √ | √ | √ | √ | |
| 3 | **Fencing , Locks, Gates** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Vandalism | √ | √ | √ | √ | √ | √ | √ | |
| | Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Gate Alignment and Swing Action | √ | √ | √ | √ | √ | √ | √ | |
| | Lock Lubrication and Function | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 4 | **Site Lighting** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Outage | √ | √ | √ | √ | √ | √ | √ | |
| 5 | **LMS Confined Space Entry Signs** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | | √ | √ | | √ | √ | |
| 6 | **Litter** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Illegal Dumping | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Surface cracks in Zone 1 measure 0.5" to 1" wide - no change since July 2020.

Surface cracks in Zone 4A measure 0.25" to 0.5" wide no change since July 2020.

**FORM DP-1**
**ANCILLARY SYSTEMS: ANS-1**
**MAY 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 5/25/21 | Zone 1 and 4A | Surface pavement cracking | None |
| 5/25/21 | Zones 2, 4A, 4B, 5, and 6 | Minor rutting at walking paths | None |
| 5/25/21 | Zones 4A and 5 | Exposed erosion control fabric | None |
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**Date:** 5/25/21

**Inspected By:** C. Lambert & J. Menitti

**Signature:** RC Bowden

**FORM ANS-1**
**MONTHLY INSPECTION CHECKLIST**
**ANCILLARY SYSTEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date: June 29, 2021 | | Inspected By: C. Lambert, J. Menniti | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **INSPECTION ZONE NUMBER** | | | | | | | **REMARKS** |
| 1 | **ROADS** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | √ | √ | √ | √ | √ | √ | |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | √ | √ | √ | √ | |
| | Roadway Pavement Condition | **NS** | √ | √ | **NS** | √ | √ | √ | Surface cracks observed in roadway pavement in Zone 1 and Zone 4A. |
| 2 | **Walking Trails** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | **NS** | √ | **NS** | **NS** | **NS** | **NS** | Rutting observed along walking trails in Zones 2, 4A, 4B, 5, and 6. |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | **NS** | √ | **NS** | √ | Exposed erosion control fabric in Zones 4A and 5. |
| | Trail Stone Condition | √ | √ | √ | √ | √ | √ | √ | |
| 3 | **Fencing , Locks, Gates** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Vandalism | √ | √ | √ | √ | √ | √ | √ | |
| | Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Gate Alignment and Swing Action | √ | √ | √ | √ | √ | √ | √ | |
| | Lock Lubrication and Function | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 4 | **Site Lighting** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Outage | √ | √ | √ | √ | √ | √ | √ | |
| 5 | **LMS Confined Space Entry Signs** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | | √ | √ | | √ | √ | |
| 6 | **Litter** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Illegal Dumping | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Surface cracks in Zone 1 measure 0.5" to 1" wide - no change since July 2020.

Surface cracks in Zone 4A measure 0.25" to 0.5" wide no change since July 2020.

**FORM DP-1**
**ANCILLARY SYSTEMS: ANS-1**
**JUNE 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 6/29/21 | Zone 1 and 4A | Surface pavement cracking | None |
| 6/29/21 | Zones 2, 4A, 4B, 5, and 6 | Minor rutting at walking paths | None |
| 6/29/21 | Zones 4A and 5 | Exposed erosion control fabric | None |
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**Date:** 6/29/21

**Inspected By:** C. Lambert & J. Menitti

**Signature:** RC Bowden

**FORM ANS-1**
**MONTHLY INSPECTION CHECKLIST**
**ANCILLARY SYSTEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date: July 28, 2021 | | Inspected By: R. Bowden, J. Menniti | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **INSPECTION ZONE NUMBER** | | | | | | | **REMARKS** |
| 1 | **ROADS** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | √ | √ | √ | √ | √ | √ | |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | √ | √ | √ | √ | |
| | Roadway Pavement Condition | **NS** | √ | √ | **NS** | √ | √ | √ | Surface cracks observed in roadway pavement in Zone 1 and Zone 4A. |
| 2 | **Walking Trails** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | **NS** | √ | **NS** | **NS** | **NS** | **NS** | Rutting observed along walking trails in Zones 2, 4A, 4B, 5, and 6. |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | **NS** | √ | **NS** | √ | Exposed erosion control fabric in Zones 4A and 5. |
| | Trail Stone Condition | √ | √ | √ | √ | √ | √ | √ | |
| 3 | **Fencing , Locks, Gates** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Vandalism | √ | √ | √ | √ | √ | √ | √ | |
| | Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Gate Alignment and Swing Action | √ | √ | √ | √ | √ | √ | √ | |
| | Lock Lubrication and Function | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 4 | **Site Lighting** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Outage | √ | √ | √ | √ | √ | √ | √ | |
| 5 | **LMS Confined Space Entry Signs** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | | √ | √ | | √ | √ | |
| 6 | **Litter** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Illegal Dumping | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Surface cracks in Zone 1 measure 0.5" to 1" wide - no change since July 2020.

Surface cracks in Zone 4A measure 0.25" to 0.5" wide no change since July 2020.

**FORM DP-1**
**ANCILLARY SYSTEMS: ANS-1**
**JULY 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 7/28/21 | Zone 1 and 4A | Surface pavement cracking | None |
| 7/28/21 | Zones 2, 4A, 4B, 5, and 6 | Minor rutting at walking paths | None |
| 7/28/21 | Zones 4A and 5 | Exposed erosion control fabric | None |
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**Date:** 7/28/21

**Inspected By:** R. Bowden & J. Menitti

**Signature:** RC Bowden

**FORM ANS-1**
**MONTHLY INSPECTION CHECKLIST**
**ANCILLARY SYSTEMS**
**BROOKFIELD AVENUE LANDFILL**

**Date: 8/26/2021** | **Inspected By: Charles Lambert**

| | INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **ROADS** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | √ | √ | √ | √ | √ | √ | |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | √ | √ | √ | √ | |
| | Roadway Pavement Condition | **NS** | √ | √ | **NS** | √ | √ | √ | Surface cracks observed in roadway pavement in Zone 1 and Zone 4A. |
| 2 | **Walking Trails** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | **NS** | √ | **NS** | **NS** | **NS** | **NS** | Rutting observed along walking trails in Zones 2, 4A, 4B, 5, and 6. |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | **NS** | √ | **NS** | √ | Exposed erosion control fabric in Zones 4A and 5. |
| | Trail Stone Condition | √ | √ | √ | √ | √ | √ | √ | |
| 3 | **Fencing , Locks, Gates** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Vandalism | √ | √ | √ | √ | √ | √ | √ | |
| | Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Gate Alignment and Swing Action | √ | √ | √ | √ | √ | √ | √ | |
| | Lock Lubrication and Function | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 4 | **Site Lighting** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Outage | √ | √ | √ | √ | √ | √ | √ | |
| 5 | **LMS Confined Space Entry Signs** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | | √ | √ | | √ | √ | |
| 6 | **Litter** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Illegal Dumping | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Surface cracks in Zone 1 measure 0.5" to 1" wide - no change since July 2020.

Surface cracks in Zone 4A measure 0.25" to 0.5" wide no change since July 2020.

**FORM DP-1**
**ANCILLARY SYSTEMS: ANS-1**
**AUGUST 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 8/26/21 | Zone 1 and 4A | Surface pavement cracking | None |
| 8/26/21 | Zones 2, 4A, 4B, 5, and 6 | Minor rutting at walking paths | None |
| 8/26/21 | Zones 4A and 5 | Exposed erosion control fabric | None |
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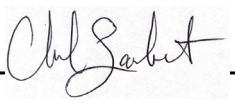
**Date: ___8/26/2021_____**

**Inspected By: Charles Lambert**

**Signature: _____**  **_____**

**FORM ANS-1**
**MONTHLY INSPECTION CHECKLIST**
**ANCILLARY SYSTEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date: 9/27/2021 | | Inspected By: Charles Lambert | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **INSPECTION ZONE NUMBER** | | | | | | | **REMARKS** |
| 1 | **ROADS** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | √ | √ | √ | √ | √ | √ | |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | √ | √ | √ | √ | |
| | Roadway Pavement Condition | **NS** | √ | √ | **NS** | √ | √ | √ | Surface cracks observed in roadway pavement in Zone 1 and Zone 4A. |
| 2 | **Walking Trails** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | **NS** | √ | **NS** | **NS** | **NS** | **NS** | Rutting observed along walking trails in Zones 2, 4A, 4B, 5, and 6. |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | **NS** | √ | **NS** | √ | Exposed erosion control fabric in Zones 4A and 5. |
| | Trail Stone Condition | √ | √ | √ | √ | √ | √ | √ | |
| 3 | **Fencing , Locks, Gates** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Vandalism | √ | √ | √ | √ | √ | √ | √ | |
| | Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Gate Alignment and Swing Action | √ | √ | √ | √ | √ | √ | √ | |
| | Lock Lubrication and Function | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 4 | **Site Lighting** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Outage | √ | √ | √ | √ | √ | √ | √ | |
| 5 | **LMS Confined Space Entry Signs** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | | √ | √ | | √ | √ | |
| 6 | **Litter** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Illegal Dumping | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Surface cracks in Zone 1 measure 0.5" to 1" wide - no change since July 2020.

Surface cracks in Zone 4A measure 0.25" to 0.5" wide no change since July 2020.

**FORM DP-1**
**ANCILLARY SYSTEMS: ANS-1**
**SEPTEMBER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 9/27/21 | Zone 1 and 4A | Surface pavement cracking | None |
| 9/27/21 | Zones 2, 4A, 4B, 5, and 6 | Minor rutting at walking paths | None |
| 9/27/21 | Zones 4A and 5 | Exposed erosion control fabric | None |
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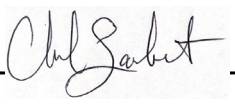
**Date: ___9/27/2021_____**

**Inspected By: Charles Lambert**

**Signature: _____**  **_____**

**FORM ANS-1**
**MONTHLY INSPECTION CHECKLIST**
**ANCILLARY SYSTEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date: 10/29/2021 | | Inspected By: Charles Lambert | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **INSPECTION ZONE NUMBER** | | | | | | | **REMARKS** |
| 1 | **ROADS** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | √ | √ | √ | √ | √ | √ | |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | √ | √ | √ | √ | |
| | Roadway Pavement Condition | **NS** | √ | √ | **NS** | √ | √ | √ | Surface cracks observed in roadway pavement in Zone 1 and Zone 4A. |
| 2 | **Walking Trails** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | **NS** | √ | **NS** | **NS** | **NS** | **NS** | Rutting observed along walking trails in Zones 2, 4A, 4B, 5, and 6. |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | **NS** | √ | **NS** | √ | Exposed erosion control fabric in Zones 4A and 5. |
| | Trail Stone Condition | √ | √ | √ | √ | √ | √ | √ | |
| 3 | **Fencing , Locks, Gates** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Vandalism | √ | √ | √ | √ | √ | √ | √ | |
| | Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Gate Alignment and Swing Action | √ | √ | √ | √ | √ | √ | √ | |
| | Lock Lubrication and Function | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 4 | **Site Lighting** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Outage | √ | √ | √ | √ | √ | √ | √ | |
| 5 | **LMS Confined Space Entry Signs** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | | √ | √ | | √ | √ | |
| 6 | **Litter** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Illegal Dumping | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Surface cracks in Zone 1 measure 0.5" to 1" wide - no change since July 2020.

Surface cracks in Zone 4A measure 0.25" to 0.5" wide no change since July 2020.

**FORM DP-1**
**ANCILLARY SYSTEMS: ANS-1**
**OCTOBER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 9/27/21 | Zone 1 and 4A | Surface pavement cracking | None |
| 9/27/21 | Zones 2, 4A, 4B, 5, and 6 | Minor rutting at walking paths | None |
| 9/27/21 | Zones 4A and 5 | Exposed erosion control fabric | None |
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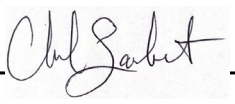
**Date: __10/29/2021_____**

**Inspected By: Charles Lambert**

**Signature: _____**  **_____**

**FORM ANS-1**
**MONTHLY INSPECTION CHECKLIST**
**ANCILLARY SYSTEMS**
**BROOKFIELD AVENUE LANDFILL**

**Date: 11/24/2021** | **Inspected By: Amber Bartlett**

| | INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **ROADS** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | √ | √ | √ | √ | √ | √ | |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | **NS** | √ | √ | √ | √ | √ | √ | Washout observed, black demarcation fabric visible. |
| | Roadway Pavement Condition | **NS** | √ | √ | **NS** | √ | √ | √ | Surface cracks observed in roadway pavement in Zone 1 and Zone 4A. |
| 2 | **Walking Trails** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | **NS** | √ | **NS** | **NS** | **NS** | **NS** | Rutting observed along walking trails in Zones 2, 4A, 4B, 5, and 6. |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | **NS** | √ | **NS** | √ | Exposed erosion control fabric in Zones 4A and 5. |
| | Trail Stone Condition | √ | √ | √ | √ | √ | √ | √ | |
| 3 | **Fencing , Locks, Gates** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Vandalism | √ | √ | √ | √ | √ | √ | √ | |
| | Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Gate Alignment and Swing Action | √ | √ | √ | √ | √ | √ | √ | |
| | Lock Lubrication and Function | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 4 | **Site Lighting** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Outage | √ | √ | √ | √ | √ | √ | √ | |
| 5 | **LMS Confined Space Entry Signs** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | | √ | √ | | √ | √ | |
| 6 | **Litter** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Illegal Dumping | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Surface cracks in Zone 1 measure 0.5" to 1" wide - no change since July 2020.

Surface cracks in Zone 4A measure 0.25" to 0.5" wide no change since July 2020.

**FORM DP-1**
**ANCILLARY SYSTEMS: ANS-1**
**NOVEMBER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 11/24/21 | Zone 1 and 4A | Surface pavement cracking | None |
| 11/24/21 | Zones 2, 4A, 4B, 5, and 6 | Minor rutting at walking paths | None |
| 11/24/21 | Zones 4A and 5 | Exposed erosion control fabric | None |
| 11/24/21 | Zone 1 and 4A | Washout, demarcation fabric exposed | Cone placed in area |
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**Date: 11/24/2021**

**Inspected By: Amber Bartlett**

**Signature:** Amber Bartlett

**FORM ANS-1**
**MONTHLY INSPECTION CHECKLIST**
**ANCILLARY SYSTEMS**
**BROOKFIELD AVENUE LANDFILL**

**Date: 12/28/2021** | **Inspected By: Amber Bartlett**

| | INSPECTION TASK | INSPECTION ZONE NUMBER | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **ROADS** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | √ | √ | √ | √ | √ | √ | |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | **NS** | √ | √ | √ | √ | √ | √ | Washout observed, black demarcation fabric visible. |
| | Roadway Pavement Condition | **NS** | √ | √ | **NS** | √ | √ | √ | Surface cracks observed in roadway pavement in Zone 1 and Zone 4A. |
| 2 | **Walking Trails** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | **NS** | √ | **NS** | **NS** | **NS** | **NS** | Rutting observed along walking trails in Zones 2, 4A, 4B, 5, and 6. |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | **NS** | √ | **NS** | √ | Exposed erosion control fabric in Zones 4A and 5. |
| | Trail Stone Condition | √ | √ | √ | √ | √ | √ | √ | |
| 3 | **Fencing , Locks, Gates** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Vandalism | √ | √ | √ | √ | √ | √ | √ | |
| | Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Gate Alignment and Swing Action | √ | √ | √ | √ | √ | √ | √ | |
| | Lock Lubrication and Function | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 4 | **Site Lighting** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Outage | √ | √ | √ | √ | √ | √ | √ | |
| 5 | **LMS Confined Space Entry Signs** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | | √ | √ | | √ | √ | |
| 6 | **Litter** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Illegal Dumping | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Surface cracks in Zone 1 measure 0.5" to 1" wide - no change since July 2020.

Surface cracks in Zone 4A measure 0.25" to 0.5" wide no change since July 2020.

**FORM DP-1**
**ANCILLARY SYSTEMS: ANS-1**
**NOVEMBER 2021**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 12/28/21 | Zone 1 and 4A | Surface pavement cracking | None |
| 12/28/21 | Zones 2, 4A, 4B, 5, and 6 | Minor rutting at walking paths | None |
| 12/28/21 | Zones 4A and 5 | Exposed erosion control fabric | None |
| 12/28/21 | Zone 1 and 4A | Washout, demarcation fabric exposed | Cone placed in area |
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**Date: 12/28/2021**

**Inspected By: Amber Bartlett**

**Signature:** Amber Bartlett

**FORM ANS-1**
**MONTHLY INSPECTION CHECKLIST**
**ANCILLARY SYSTEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date: 1/28/2022 | | Inspected By: Bob Bowden | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **INSPECTION ZONE NUMBER** | | | | | | | **REMARKS** |
| 1 | **ROADS** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | √ | √ | √ | √ | √ | √ | |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | **NS** | √ | √ | √ | √ | √ | √ | Washout observed, black demarcation fabric visible. |
| | Roadway Pavement Condition | **NS** | √ | √ | **NS** | √ | √ | √ | Surface cracks observed in roadway pavement in Zone 1 and Zone 4A. |
| 2 | **Walking Trails** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | **NS** | √ | **NS** | **NS** | **NS** | **NS** | Rutting observed along walking trails in Zones 2, 4A, 4B, 5, and 6. |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | **NS** | √ | **NS** | √ | Exposed erosion control fabric in Zones 4A and 5. |
| | Trail Stone Condition | √ | √ | √ | √ | √ | √ | √ | |
| 3 | **Fencing , Locks, Gates** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Vandalism | √ | √ | √ | √ | √ | √ | √ | |
| | Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Gate Alignment and Swing Action | √ | √ | √ | √ | √ | √ | √ | |
| | Lock Lubrication and Function | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 4 | **Site Lighting** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Outage | √ | √ | √ | √ | √ | √ | √ | |
| 5 | **LMS Confined Space Entry Signs** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | | √ | √ | | √ | √ | |
| 6 | **Litter** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Illegal Dumping | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Surface cracks in Zone 1 measure 0.5" to 1" wide - no change since July 2020.

Surface cracks in Zone 4A measure 0.25" to 0.5" wide no change since July 2020.

**FORM DP-1**
**ANCILLARY SYSTEMS: ANS-1**
**JANUARY 2022**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 1/28/22 | Zone 1 and 4A | Surface pavement cracking | None |
| 1/28/22 | Zones 2, 4A, 4B, 5, and 6 | Minor rutting at walking paths | None |
| 1/28/22 | Zones 4A and 5 | Exposed erosion control fabric | None |
| 1/28/22 | Zone 1 and 4A | Washout, demarcation fabric exposed | Cone placed in area |
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**Date: 1/28/2022**

**Inspected By: Bob Bowden**

**Signature:** RC Bowden

**FORM ANS-1**
**MONTHLY INSPECTION CHECKLIST**
**ANCILLARY SYSTEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date: 2/25/2022 | | Inspected By: Bob Bowden | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **INSPECTION ZONE NUMBER** | | | | | | | **REMARKS** |
| **1** | **ROADS** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | √ | √ | √ | √ | √ | √ | |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | **NS** | √ | √ | √ | √ | √ | √ | Washout observed, black demarcation fabric visible. |
| | Roadway Pavement Condition | **NS** | √ | √ | **NS** | √ | √ | √ | Surface cracks observed in roadway pavement in Zone 1 and Zone 4A. |
| **2** | **Walking Trails** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | **NS** | √ | **NS** | **NS** | **NS** | **NS** | Rutting observed along walking trails in Zones 2, 4A, 4B, 5, and 6. |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | **NS** | √ | **NS** | √ | Exposed erosion control fabric in Zones 4A and 5. |
| | Trail Stone Condition | √ | √ | √ | √ | √ | √ | √ | |
| **3** | **Fencing , Locks, Gates** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Vandalism | √ | √ | √ | √ | √ | √ | √ | |
| | Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Gate Alignment and Swing Action | √ | √ | √ | √ | √ | √ | √ | |
| | Lock Lubrication and Function | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| **4** | **Site Lighting** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Outage | √ | √ | √ | √ | √ | √ | √ | |
| **5** | **LMS Confined Space Entry Signs** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | | √ | √ | | √ | √ | |
| **6** | **Litter** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Illegal Dumping | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Surface cracks in Zone 1 measure 0.5" to 1" wide - no change since July 2020.

Surface cracks in Zone 4A measure 0.25" to 0.5" wide no change since July 2020.

**FORM DP-1**
**ANCILLARY SYSTEMS: ANS-1**
**FEBRUARY 2022**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 2/25/22 | Zone 1 and 4A | Surface pavement cracking | None |
| 2/25/22 | Zones 2, 4A, 4B, 5, and 6 | Minor rutting at walking paths | None |
| 2/25/22 | Zones 4A and 5 | Exposed erosion control fabric | None |
| 2/25/22 | Zone 1 and 4A | Washout, demarcation fabric exposed | Cone placed in area |
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**Date: 2/25/2022**

**Inspected By: Bob Bowden**

**Signature:** RC Bowden

**FORM ANS-1**
**MONTHLY INSPECTION CHECKLIST**
**ANCILLARY SYSTEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date: 3/29/2022 | | Inspected By: Bob Bowden | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **INSPECTION TASK** | **INSPECTION ZONE NUMBER** | | | | | | | **REMARKS** |
| 1 | **ROADS** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | √ | √ | √ | √ | √ | √ | |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | **NS** | √ | √ | √ | √ | √ | √ | Washout observed, black demarcation fabric visible. |
| | Roadway Pavement Condition | **NS** | √ | √ | **NS** | √ | √ | √ | Surface cracks observed in roadway pavement in Zone 1 and Zone 4A. |
| 2 | **Walking Trails** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Rutting | √ | **NS** | √ | **NS** | **NS** | **NS** | **NS** | Rutting observed along walking trails in Zones 2, 4A, 4B, 5, and 6. |
| | Depression/Settlement | √ | √ | √ | √ | √ | √ | √ | |
| | Washout | √ | √ | √ | **NS** | √ | **NS** | √ | Exposed erosion control fabric in Zones 4A and 5. |
| | Trail Stone Condition | √ | √ | √ | √ | √ | √ | √ | |
| 3 | **Fencing , Locks, Gates** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Vandalism | √ | √ | √ | √ | √ | √ | √ | |
| | Debris | √ | √ | √ | √ | √ | √ | √ | |
| | Gate Alignment and Swing Action | √ | √ | √ | √ | √ | √ | √ | |
| | Lock Lubrication and Function | √ | √ | √ | √ | √ | √ | √ | |
| | Vegetation | √ | √ | √ | √ | √ | √ | √ | |
| 4 | **Site Lighting** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | √ | √ | √ | √ | √ | √ | |
| | Outage | √ | √ | √ | √ | √ | √ | √ | |
| 5 | **LMS Confined Space Entry Signs** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Damage | √ | | √ | √ | | √ | √ | |
| 6 | **Litter** | **1** | **2** | **3** | **4A** | **4B** | **5** | **6** | |
| | Illegal Dumping | √ | √ | √ | √ | √ | √ | √ | |

**COMMENTS**

Surface cracks in Zone 1 measure 0.5" to 1" wide - no change since July 2020.

Surface cracks in Zone 4A measure 0.25" to 0.5" wide no change since July 2020.

**FORM DP-1**
**ANCILLARY SYSTEMS: ANS-1**
**MARCH 2022**
**DESCRIPTION OF DEFICIENCIES AND PROBLEMS**
**BROOKFIELD AVENUE LANDFILL**

| Date | Location | Description | Corrective Action Taken |
|---|---|---|---|
| 3/29/22 | Zone 1 and 4A | Surface pavement cracking | None |
| 3/29/22 | Zones 2, 4A, 4B, 5, and 6 | Minor rutting at walking paths | None |
| 3/29/22 | Zones 4A and 5 | Exposed erosion control fabric | None |
| 3/29/22 | Zone 1 and 4A | Washout, demarcation fabric exposed | Cone placed in area |
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**Date: 3/29/2022**

**Inspected By: Bob Bowden**

**Signature:** RC Bowden

# APPENDIX G

# LANDFILL SURFACE EMISSIONS MONITORING

December 10, 2021
File No. 07215056.00

Mr. Wes Lindemuth
TRC
575 Arthur Kill Road
Staten Island, NY 10308

Subject: Brookfield Avenue Landfill

Surface Emissions Monitoring Report October 2021

Dear Wes:

On October 22, 2021, SCS Field Services (SCS-FS) conducted semi-annual surface emissions monitoring (SEM) at the Brookfield Avenue Landfill (Landfill). This monitoring was performed in order to satisfy the requirements of the NYC Department of Environmental Protection's Operation, Maintenance, and Monitoring Services Contract, section 2.4.2.B. – Surface Emission Monitoring. Although the monitoring was not performed for compliance with the Environmental Protection Agency's New Source Performance Standards (NSPS) for landfills, SCS-FS performed the SEM according to the procedures stipulated by the NSPS, as specified in 40 CFR 60.755 (c) and (d), and 40 CFR 60, Appendix A, Method 21.

SEM took place over a monitoring route on the landfill as shown on the attached Landfill Gas Collection Record Drawing, dated July 23, 2015, supplied by Layout, Inc. and attached to this report in ***Attachment 1***. A total of 477 points on the landfill were tested for emissions of volatile organic compounds (VOC), as methane, using a Foxboro TVA-1000B flame ionization detector. The TVA was calibrated using zero air and 500 parts per million (ppm) methane calibration gas. Upwind and downwind locations were monitored and recorded on the Calibration and Pertinent Data Form, provided in ***Attachment 2***. The monitoring data are presented in ***Table 1***, ***Attachment 3***.

## Observations

None of the monitoring points over the area surveyed had an emission level exceeding 500 parts per million above background. No further monitoring is required for this SEM event.

SCS-FS appreciates the opportunity to provide our services. Please contact either of the undersigned should you require further information or assistance.

Sincerely,

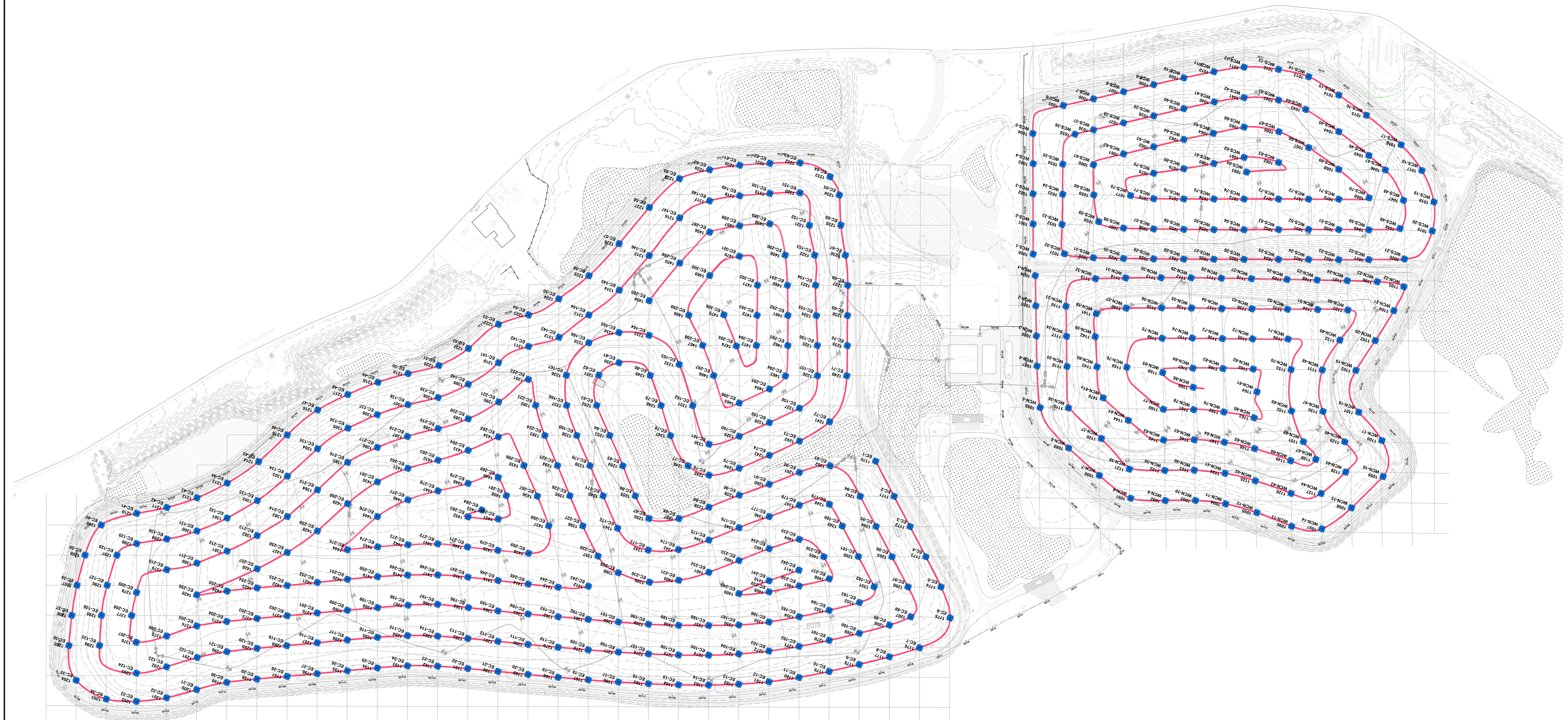
Mike Marks
Project Superintendent
SCS Field Services

Scott Schoffner
Project Manager
SCS Field Services

Attachments

ATTACHMENT 1

SEM ROUTE


SURFACE EMISSIONS MONITORING PLAN
BROOKFIELD AVENUE LANDFILL REMEDIATION
CITY OF NEW YORK CITY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BROOKFIELD CONSTRUCTION ASSOCIATES, LLC
136 CENTRAL AVENUE
CLARK, NJ 07066
Drawn By: MP
Checked: JPL
Scale: 1" = 150'
Date: 07-23-15
Proj. No.: 2857
Page: 1 of 1
CONTRACT NO. LF-BAL-1G
Paul Emilius Jr.
Professional Land Surveyor
N.Y. License No. 50203
Date
Layout Inc.
PROFESSIONAL LAND SURVEYORS
CONSTRUCTION SURVEYING SPECIALISTS
GPS CONSULTANTS
1 Emin Road, Unit 8
Clifton, N.J. 07014
Ph: 973-249-0900 Fax: 973-249-0988
0 75 150 300 450
( IN FEET )
1 inch = 150 ft.
BROOKFIELD AVENUE
Brookfield Avenue Landfill
Brookfield Avenue
Brookfield Avenue
Brookfield Avenue

# ATTACHMENT 2

# CALIBRATION AND PERTINENT DATA FORMS

**SCS FIELD SERVICES**

## NSPS Surface Emissions Monitoring
## Calibration and Pertinent Data Form

Date: 10/22/21 Site: Brookfield Landfill Job Number: 07220079.00

Technician(s): Doug Cordisco

### Weather Observations

Wind Speed: 10 MPH Wind Direction: West Barometric Pressure: 29.96 "Hg

Air Temperature: 61 °F General Weather Conditions: Fair

### Calibration Information

Instrument Info Make/Model: TVA1000B Serial No: 414006484

| Cal Gas Info | Manufacturer | Lot # | Expiration Date | Concentration |
|---|---|---|---|---|
| Span Gas: | GASCO | 304-402042371-1 | 4/10/2025 | 500 ppm |
| Zero Gas: | GASCO | IBJ-1-15 | 11/15/2023 | 0 ppm |

Pre-monitoring Calibration Precision Check

*Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage.* ***The calibration precision must be less than or equal to 10% of the calibration gas value.***

| Trial | Zero Air Reading (ppm) | Cal Gas Reading (ppm) | \|Cal Gas Conc. – Cal Gas Reading\| |
|---|---|---|---|
| 1 | 0.1 | 501 | 1 |
| 2 | 0.1 | 503 | 3 |
| 3 | 0.1 | 501 | 1 |
| | | **Average Difference:** | 2 |

Calibration Precision = Average Difference / Cal. Gas Conc. X 100%

= 2 / 500 X 100%

= 0.33 %

Pre-monitoring Response Time Check

*Procedure: Introduce zero concentration methane/H2S into the instrument. Quickly change to the calibration gas and record stabilized reading. Record the amount of time it took the instrument to read 90% of the stabilized reading.* ***This average response time must be less than or equal to 30 seconds.***

| Trial | Stabilized Reading on Cal Gas | 90% of Stabilized Reading | Time to Reach 90% of Stabilized Reading (Seconds) |
|---|---|---|---|
| 1 | 501 | 451 | 5 |
| 2 | 503 | 453 | 5 |
| 3 | 501 | 451 | 5 |
| | | **Average Response Time:** | 5 |

Background Concentration Checks

Upwind Location Description: West of site on perimeter road Reading: 1.92 ppm

Downwind Location Description: East of site on perimeter road Reading: 2.06 ppm

Average Background Reading: 1.99 ppm

Post-monitoring Calibration Precision Check

Zero Air Reading: 0.6 ppm Cal Gas Reading: 511 ppm

**Notes/Comments:**

**GASCO AFFILIATES, LLC.**

320 Scarlet Blvd.
Oldsmar, FL 34677
(800) 910-0051
fax: (866) 755-8920
www.gascogas.com

# CERTIFICATE OF ANALYSIS

**Date:** September 30, 2021
**Customer:** Pine Environmental Services LLC
**Order Number:** 6061463
**Lot Number:** 304-402042371-1
**Use Before:** 04/10/2025

| Component | Requested Concentration | Analytical Result (+/- 2%) |
|---|---|---|
| Methane | 500 PPM | 500 PPM |
| Air | Balance | Balance |

**Cylinder Size:** 1.2 Cu. Ft.
**Contents:** 34 Liter
**Valve:** CGA 600
**Pressure:** 500 psig

Product composition verified by direct comparison to calibration standards traceable to N.I.S.T. weights and/ or N.I.S.T. Gas Mixture reference materials.

**Analyst**:

Matthew Creighton
MATTHEW CREIGHTON

**GASCO AFFILIATES, LLC.**

320 Scarlet Blvd.
Oldsmar, FL 34677
(800) 910-0051
fax: (866) 755-8920
www.gascogas.com

# CERTIFICATE OF ANALYSIS

**Date:** September 30, 2021
**Order Number:** 6047220
**Lot Number:** IBJ-1-15
**Part Number:** AI UZP34

**Customer:** Pine Environmental

**Use Before:** 11/15/2023

| Component | Specification | Analytical Result (+/- 2%) |
|---|---|---|
| Oxygen | 20.9% vol. | 20.9% vol. THC <0.1 PPM |
| Nitrogen | Balance | Balance |

**Cylinder Size:** 1.2 Cu. Ft.
**Contents:** 34 Liter

**Valve:** CGA 600
**Pressure:** 500 psig

The calibration gas prepared by Gasco is considered a certified standard. It is prepared by gravimetric, or partial pressure techniques. The calibration standard provided is certified against Gasco's G.M.I.S. (Gas Manufacturer's Intermediate Standard) which is either prepared by weights traceable to the National Institute of Standards and Technology (NIST) or by using NIST Standard Reference Materials where available.

**Analyst:**

Glenn Velez

ATTACHMENT 3

SEM DATA

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| EC-1 | 3 | Start of route; East Cell |
| EC-2 | 3 | |
| EC-3 | 3 | |
| EC-4 | 3 | |
| EC-5 | 3 | |
| EC-6 | 4 | |
| EC-7 | 4 | |
| EC-8 | 4 | |
| EC-9 | 4 | |
| EC-10 | 3 | |
| EC-11 | 4 | |
| EC-12 | 4 | |
| EC-13 | 4 | |
| EC-14 | 4 | |
| EC-15 | 4 | |
| EC-16 | 5 | |
| EC-17 | 5 | |
| EC-18 | 5 | |
| EC-19 | 5 | |
| EC-20 | 4 | |
| EC-21 | 5 | |
| EC-22 | 5 | |
| EC-23 | 4 | |
| EC-24 | 4 | |
| EC-25 | 5 | |
| EC-26 | 5 | |
| EC-27 | 5 | |
| EC-28 | 4 | |
| EC-29 | 5 | |
| EC-30 | 5 | |
| EC-31 | 4 | |
| EC-32 | 4 | |
| EC-33 | 5 | |
| EC-34 | 5 | |
| EC-35 | 4 | |

ppm - parts per million
nd - not detected
<1 - less than 1

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| EC-36 | 4 | |
| EC-37 | 4 | |
| EC-38 | 4 | |
| EC-39 | 4 | |
| EC-40 | 5 | |
| EC-41 | 5 | |
| EC-42 | 5 | |
| EC-43 | 5 | |
| EC-44 | 5 | |
| EC-45 | 5 | |
| EC-46 | 5 | |
| EC-47 | 5 | |
| EC-48 | 5 | |
| EC-49 | 5 | |
| EC-50 | 5 | |
| EC-51 | 5 | |
| EC-52 | 5 | |
| EC-53 | 5 | |
| EC-54 | 6 | |
| EC-55 | 5 | |
| EC-56 | 6 | |
| EC-57 | 5 | |
| EC-58 | 5 | |
| EC-59 | 5 | |
| EC-60 | 5 | |
| EC-61 | 5 | |
| EC-62 | 6 | |
| EC-63 | 5 | |
| EC-64 | 6 | |
| EC-65 | 5 | |
| EC-66 | 5 | |
| EC-67 | 5 | |
| EC-68 | 5 | |
| EC-69 | 5 | |
| EC-70 | 6 | |

ppm - parts per million
nd - not detected
<1 - less than 1

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| EC-71 | 6 | |
| EC-72 | 6 | |
| EC-73 | 6 | |
| EC-74 | 6 | |
| EC-75 | 6 | |
| EC-76 | 6 | |
| EC-77 | 6 | |
| EC-78 | 6 | |
| EC-79 | 6 | |
| EC-80 | 6 | |
| EC-81 | 6 | |
| EC-82 | 6 | |
| EC-83 | 6 | |
| EC-84 | 6 | |
| EC-85 | 5 | |
| EC-86 | 5 | |
| EC-87 | 6 | |
| EC-88 | 5 | |
| EC-89 | 5 | |
| EC-90 | 5 | |
| EC-91 | 5 | |
| EC-92 | 5 | |
| EC-93 | 5 | |
| EC-94 | 7 | |
| EC-95 | 6 | |
| EC-96 | 7 | |
| EC-97 | 6 | |
| EC-98 | 5 | |
| EC-99 | 5 | |
| EC-100 | 6 | |
| EC-101 | 5 | |
| EC-102 | 5 | |
| EC-103 | 5 | |
| EC-104 | 6 | |
| EC-105 | 5 | |

ppm - parts per million
nd - not detected
<1 - less than 1

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| EC-106 | 5 | |
| EC-107 | 5 | |
| EC-108 | 5 | |
| EC-109 | 5 | |
| EC-110 | 5 | |
| EC-111 | 6 | |
| EC-112 | 6 | |
| EC-113 | 5 | |
| EC-114 | 6 | |
| EC-115 | 6 | |
| EC-116 | 7 | |
| EC-117 | 6 | |
| EC-118 | 6 | |
| EC-119 | 6 | |
| EC-120 | 6 | |
| EC-121 | 6 | |
| EC-122 | 6 | |
| EC-123 | 6 | |
| EC-124 | 7 | |
| EC-125 | 7 | |
| EC-126 | 7 | |
| EC-127 | 7 | |
| EC-128 | 7 | |
| EC-129 | 6 | |
| EC-130 | 6 | |
| EC-131 | 6 | |
| EC-132 | 6 | |
| EC-133 | 7 | |
| EC-134 | 6 | |
| EC-135 | 6 | |
| EC-136 | 7 | |
| EC-137 | 6 | |
| EC-138 | 6 | |
| EC-139 | 6 | |
| EC-140 | 6 | |

ppm - parts per million
nd - not detected
<1 - less than 1

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| EC-141 | 6 | |
| EC-142 | 5 | |
| EC-143 | 6 | |
| EC-144 | 6 | |
| EC-145 | 7 | |
| EC-146 | 7 | |
| EC-147 | 7 | |
| EC-148 | 7 | |
| EC-149 | 7 | |
| EC-150 | 7 | |
| EC-151 | 7 | |
| EC-152 | 7 | |
| EC-153 | 7 | |
| EC-154 | 7 | |
| EC-155 | 7 | |
| EC-156 | 6 | |
| EC-157 | 7 | |
| EC-158 | 7 | |
| EC-159 | 7 | |
| EC-160 | 6 | |
| EC-161 | 6 | |
| EC-162 | 6 | |
| EC-163 | 6 | |
| EC-164 | 7 | |
| EC-165 | 7 | |
| EC-166 | 7 | |
| EC-167 | 8 | |
| EC-168 | 7 | |
| EC-169 | 7 | |
| EC-170 | 7 | |
| EC-171 | 7 | |
| EC-172 | 7 | |
| EC-173 | 7 | |
| EC-174 | 7 | |
| EC-175 | 7 | |

ppm - parts per million
nd - not detected
<1 - less than 1

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| EC-176 | 7 | |
| EC-177 | 7 | |
| EC-178 | 8 | |
| EC-179 | 7 | |
| EC-180 | 7 | |
| EC-181 | 7 | |
| EC-182 | 7 | |
| EC-183 | 7 | |
| EC-184 | 8 | |
| EC-185 | 8 | |
| EC-186 | 7 | |
| EC-187 | 7 | |
| EC-188 | 7 | |
| EC-189 | 8 | |
| EC-190 | 7 | |
| EC-191 | 8 | |
| EC-192 | 7 | |
| EC-193 | 8 | |
| EC-194 | 8 | |
| EC-195 | 7 | |
| EC-196 | 7 | |
| EC-197 | 7 | |
| EC-198 | 6 | |
| EC-199 | 7 | |
| EC-200 | 7 | |
| EC-201 | 7 | |
| EC-202 | 7 | |
| EC-203 | 7 | |
| EC-204 | 7 | |
| EC-205 | 7 | |
| EC-206 | 7 | |
| EC-207 | 7 | |
| EC-208 | 8 | |
| EC-209 | 9 | |
| EC-210 | 8 | |

ppm - parts per million
nd - not detected
<1 - less than 1

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| EC-211 | 7 | |
| EC-212 | 8 | |
| EC-213 | 8 | |
| EC-214 | 8 | |
| EC-215 | 8 | |
| EC-216 | 8 | |
| EC-217 | 8 | |
| EC-218 | 8 | |
| EC-219 | 9 | |
| EC-220 | 7 | |
| EC-221 | 8 | |
| EC-222 | 7 | |
| EC-223 | 7 | |
| EC-224 | 7 | |
| EC-225 | 8 | |
| EC-226 | 8 | |
| EC-227 | 9 | |
| EC-228 | 9 | |
| EC-229 | 8 | |
| EC-230 | 8 | |
| EC-231 | 8 | |
| EC-232 | 8 | |
| EC-233 | 9 | |
| EC-234 | 8 | |
| EC-235 | 7 | |
| EC-236 | 8 | |
| EC-237 | 8 | |
| EC-238 | 9 | |
| EC-239 | 8 | |
| EC-240 | 8 | |
| EC-241 | 8 | |
| EC-242 | 8 | |
| EC-243 | 8 | |
| EC-244 | 8 | |
| EC-245 | 8 | |

ppm - parts per million
nd - not detected
<1 - less than 1

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| EC-246 | 8 | |
| EC-247 | 8 | |
| EC-248 | 8 | |
| EC-249 | 8 | |
| EC-250 | 8 | |
| EC-251 | 8 | |
| EC-252 | 8 | |
| EC-253 | 8 | |
| EC-254 | 8 | |
| EC-255 | 9 | |
| EC-256 | 8 | |
| EC-257 | 9 | |
| EC-258 | 9 | |
| EC-259 | 9 | |
| EC-260 | 9 | |
| EC-261 | 9 | |
| EC-262 | 8 | |
| EC-263 | 8 | |
| EC-264 | 8 | |
| EC-265 | 8 | |
| EC-266 | 8 | |
| EC-267 | 8 | |
| EC-268 | 8 | |
| EC-269 | 8 | |
| EC-270 | 9 | |
| EC-271 | 8 | |
| EC-272 | 8 | |
| EC-273 | 10 | |
| EC-274 | 8 | |
| EC-275 | 9 | |
| EC-276 | 9 | |
| EC-277 | 8 | |
| EC-278 | 9 | |
| EC-279 | 8 | |
| EC-280 | 9 | |

ppm - parts per million
nd - not detected
<1 - less than 1

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| EC-281 | 8 | |
| EC-282 | 8 | |
| EC-283 | 8 | |
| EC-284 | 8 | |
| EC-285 | 8 | |
| EC-286 | 8 | |
| EC-287 | 8 | |
| EC-288 | 8 | |
| EC-289 | 9 | |
| EC-290 | 9 | |
| EC-291 | 8 | |
| EC-292 | 8 | |
| EC-293 | 9 | |
| EC-294 | 9 | |
| EC-295 | 8 | |
| EC-296 | 8 | |
| EC-297 | 8 | |
| EC-298 | 8 | |
| EC-299 | 8 | |
| EC-300 | 8 | |
| EC-301 | 8 | |
| EC-302 | 9 | |
| EC-303 | 8 | |
| EC-304 | 8 | |
| EC-305 | 8 | |
| EC-306 | 8 | End of East Cell route |
| WCS-1 | 8 | Start of West Cell South route |
| WCS-2 | 8 | |
| WCS-3 | 8 | |
| WCS-4 | 8 | |
| WCS-5 | 9 | |
| WCS-6 | 9 | |
| WCS-7 | 9 | |
| WCS-8 | 8 | |
| WCS-9 | 9 | |

ppm - parts per million
nd - not detected
<1 - less than 1

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| WCS-10 | 8 | |
| WCS-11 | 8 | |
| WCS-12 | 8 | |
| WCS-13 | 8 | |
| WCS-14 | 9 | |
| WCS-15 | 8 | |
| WCS-16 | 8 | |
| WCS-17 | 8 | |
| WCS-18 | 8 | |
| WCS-19 | 8 | |
| WCS-20 | 9 | |
| WCS-21 | 9 | |
| WCS-22 | 9 | |
| WCS-23 | 9 | |
| WCS-24 | 9 | |
| WCS-25 | 8 | |
| WCS-26 | 8 | |
| WCS-27 | 8 | |
| WCS-28 | 8 | |
| WCS-29 | 8 | |
| WCS-30 | 9 | |
| WCS-31 | 9 | |
| WCS-32 | 9 | |
| WCS-33 | 9 | |
| WCS-34 | 19 | |
| WCS-35 | 9 | |
| WCS-36 | 9 | |
| WCS-37 | 8 | |
| WCS-38 | 8 | |
| WCS-39 | 9 | |
| WCS-40 | 9 | |
| WCS-41 | 9 | |
| WCS-42 | 10 | |
| WCS-43 | 9 | |
| WCS-44 | 9 | |

ppm - parts per million
nd - not detected
<1 - less than 1

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| WCS-45 | 9 | |
| WCS-46 | 9 | |
| WCS-47 | 9 | |
| WCS-48 | 10 | |
| WCS-49 | 10 | |
| WCS-50 | 10 | |
| WCS-51 | 10 | |
| WCS-52 | 10 | |
| WCS-53 | 9 | |
| WCS-54 | 9 | |
| WCS-55 | 10 | |
| WCS-56 | 9 | |
| WCS-57 | 9 | |
| WCS-58 | 10 | |
| WCS-59 | 9 | |
| WCS-60 | 9 | |
| WCS-61 | 9 | |
| WCS-62 | 9 | |
| WCS-63 | 10 | |
| WCS-64 | 10 | |
| WCS-65 | 9 | |
| WCS-66 | 9 | |
| WCS-67 | 10 | |
| WCS-68 | 9 | |
| WCS-69 | 9 | |
| WCS-70 | 9 | |
| WCS-71 | 10 | |
| WCS-72 | 9 | |
| WCS-73 | 9 | |
| WCS-74 | 9 | |
| WCS-75 | 9 | |
| WCS-76 | 9 | |
| WCS-77 | 9 | |
| WCS-78 | 10 | |
| WCS-79 | 9 | |

ppm - parts per million
nd - not detected
<1 - less than 1

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| WCS-80 | 9 | |
| WCS-81 | 9 | |
| WCS-82 | 9 | |
| WCS-83 | 9 | |
| WCS-84 | 9 | End of West Cell South route |
| WCN-1 | 4 | West Cell North route |
| WCN-2 | 4 | |
| WCN-3 | 4 | |
| WCN-4 | 5 | |
| WCN-5 | 5 | |
| WCN-6 | 5 | |
| WCN-7 | 6 | |
| WCN-8 | 6 | |
| WCN-9 | 6 | |
| WCN-10 | 6 | |
| WCN-11 | 6 | |
| WCN-12 | 6 | |
| WCN-13 | 5 | |
| WCN-14 | 6 | |
| WCN-15 | 5 | |
| WCN-16 | 5 | |
| WCN-17 | 5 | |
| WCN-18 | 5 | |
| WCN-19 | 5 | |
| WCN-20 | 6 | |
| WCN-21 | 5 | |
| WCN-22 | 6 | |
| WCN-23 | 6 | |
| WCN-24 | 6 | |
| WCN-25 | 6 | |
| WCN-26 | 6 | |
| WCN-27 | 6 | |
| WCN-28 | 6 | |
| WCN-29 | 6 | |
| WCN-30 | 6 | |

ppm - parts per million
nd - not detected
<1 - less than 1

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| WCN-31 | 6 | |
| WCN-32 | 6 | |
| WCN-33 | 6 | |
| WCN-34 | 6 | |
| WCN-35 | 7 | |
| WCN-36 | 7 | |
| WCN-37 | 7 | |
| WCN-38 | 7 | |
| WCN-39 | 7 | |
| WCN-40 | 8 | |
| WCN-41 | 7 | |
| WCN-42 | 7 | |
| WCN-43 | 6 | |
| WCN-44 | 7 | |
| WCN-45 | 7 | |
| WCN-46 | 7 | |
| WCN-47 | 7 | |
| WCN-48 | 7 | |
| WCN-49 | 7 | |
| WCN-50 | 7 | |
| WCN-51 | 7 | |
| WCN-52 | 8 | |
| WCN-53 | 7 | |
| WCN-54 | 7 | |
| WCN-55 | 8 | |
| WCN-56 | 7 | |
| WCN-57 | 8 | |
| WCN-58 | 7 | |
| WCN-59 | 7 | |
| WCN-60 | 7 | |
| WCN-61a | 7 | |
| WCN-61 | 7 | |
| WCN-62 | 7 | |
| WCN-63 | 7 | |
| WCN-64 | 7 | |

ppm - parts per million
nd - not detected
<1 - less than 1

**TABLE 1. SURFACE EMISSIONS TESTING RESULTS**
**Brookfield Avenue Landfill, Staten Island, New York**

**October 22, 2021**

| Tag | FID Conc. (ppm) | Notes |
|---|---|---|
| WCN-65 | 7 | |
| WCN-66 | 7 | |
| WCN-67 | 7 | |
| WCN-68 | 7 | |
| WCN-69 | 7 | |
| WCN-70 | 7 | |
| WCN-71 | 7 | |
| WCN-72 | 7 | |
| WCN-73 | 7 | |
| WCN-74 | 7 | |
| WCN-75 | 7 | |
| WCN-76 | 7 | |
| WCN-77 | 7 | |
| WCN-78 | 8 | |
| WCN-79 | 7 | |
| WCN-80 | 8 | |
| WCN-81 | 8 | |
| WCN-82 | 7 | |
| WCN-83 | 7 | |
| WCN-84 | 7 | |
| WCN-85 | 8 | |
| WCN-86 | 4 | End of West Cell North route |

ppm - parts per million
nd - not detected
<1 - less than 1

# APPENDIX H

# ONCE EVERY FIFTH QUARTER GROUND WATER-MONITORING EVENT REPORT

1430 Broadway, 10th Floor
New York, NY 10018
T 212.221.7822
TRCcompanies.com

November 23, 2021

Ms. Arsheen Ehtesham
Project Manager
Environmental Remediation Unit
The City of New York Department of Parks & Recreation
Olmsted Center
Flushing Meadows-Corona Park
Flushing, NY 11368

**RE:** Once Every Fifth Quarter Groundwater Monitoring Event
Brookfield Landfill/Park
575 Arthur Kill Road, Staten Island, NY 10308
TRC Project No. 384968

Dear Ms. Ehtesham:

Please find attached the laboratory analytical results and tabulated data tables for the Once Every Fifth Quarter Groundwater Monitoring Event at the Brookfield Avenue Landfill in Staten Island, New York performed by TRC Engineers, Inc. (TRC) from September 10 through 16, 2021. The sampling was performed in accordance with the existing Post-Closure Monitoring and Maintenance Operations Manual.

A total of 23 groundwater samples, two (2) duplicate samples, two (2) matrix spike/matrix spike duplicate (MS/MSD) samples, four (4) trip blank samples, and two (2) field blank samples were collected from existing monitoring wells as part of the sampling event. One (1) monitoring well, LTMW-20, was inaccessible due to dense vegetation and poison ivy. The 23 accessible monitoring wells were gauged with an oil/water interface probe to determine the depth to water prior to purging/sampling activities. Subsequent to recording the depth to water at the well points, the well points were purged using dedicated disposable Teflon-lined polyethylene tubing and either a bladder pump for deeper wells or a peristaltic pump for shallower wells. The monitoring wells were purged via low flow/low stress method following the United States Environmental Protection Agency (USEPA) standard operating procedures. The depth of the pump intake was placed within the screen intervals, and at least 2 feet above the bottom of the screen. Water quality parameters were measured and recorded every five minutes using a Horiba U-52 Water Quality Meter.

Groundwater samples were collected following stabilization of the groundwater parameters. If the turbidity at the time of sampling was greater than 10 NTUs, a filtered metal sample was collected. Sampling equipment were properly decontaminated prior to sampling each well following the Post-Closure Monitoring and Maintenance Operations Manual. Groundwater sampling logs are presented in Appendix A.

No visual or olfactory indications of contamination were observed in the purge water or any of the groundwater samples collected. The groundwater samples were collected in pre-preserved laboratory-supplied containers. Each container was properly labeled and placed in an iced cooler for transport via courier to Hampton-Clarke, Inc., of Fairfield, New Jersey. Hampton-Clarke is a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Protocol (ELAP)-certified analytical laboratory. Standard chain-of-custody procedures were followed.

The groundwater samples were collected and analyzed for the following compounds:

- Target Compound List (TCL) Semi-volatile Organic Compounds (SVOCs) via USEPA Method 8270;
- TCL Volatile Organic Compounds (VOCs) via USEPA Method 8260;
- Target Analyte List (TAL) Metals via USEPA Methods 6010/6020;
- TCL Pesticides via USEPA Method 8081;
- TCL Polychlorinated Biphenyls (PCBs) via USEPA Method 8082;
- Cyanide via USEPA Method 9012;
- Nitrate, Sulfate, Chloride, and Bromide via USEPA Method 300;
- Ammonia via Standard Method 4500;
- Total Organic Carbon via Standard Method 5310;
- Total Dissolved Solids via Standard Method 2540;
- Alkalinity via Standard Method 2320; and,
- Total Hardness via Standard Method 2340.

The results of the laboratory analysis are presented in Tables 1 through 6. The depth to water measurements recorded on September 10, 2021 are provided as Table 7. The laboratory analytical reports and the New York State Department of Environmental Conservation (NYSDEC) Equis Electronic Data Deliverables (EDDs) are presented in Appendix B.

The laboratory results were sent for data validation and the results of the data validation are summarized in the Data Usability Summary Report (DUSR) which was performed by Environmental Data Services, Inc. in accordance with 6 NYCRR Part 363 requirements., which include a discussion on each qualified result, the potential bias, and the effects on data usability. During the usability assessment, no data was rejected and the data was found to be acceptable for the intended purposes. A copy of the DUSR is presented in Appendix C.

Please do not hesitate to contact me in the office at (917) 794-3107 or via email at wlindemuth@trccompanies.com if you have any questions.

Sincerely,
**TRC Engineers, Inc.**

Wes Lindemuth
Senior Project Manager, CHMM, CSP

cc: K. Myers, A. Bartlett, TRC

Enclosures:

Table 1 – Summary of Groundwater Sampling Analytical Results for Volatile Organic Compounds
Table 2 – Summary of Groundwater Sampling Analytical Results for Semivolatile Organic Compounds
Table 3 – Summary of Groundwater Sampling Analytical Results for Metals and Cyanide
Table 4 – Summary of Groundwater Sampling Analytical Results for Polychlorinated Biphenyls

Table 5 – Summary of Groundwater Sampling Analytical Results for Pesticides
Table 6 – Summary of Groundwater Sampling Analytical Results for Wet Chemistry
Table 7 – Depth to Water Measurements

Appendix A – Groundwater Sampling Logs
Appendix B – Laboratory Analytical Data Report and NYSDEC Equis EDDs
Appendix C – Data Validation Reports

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Volatile Organic Compounds

| SAMPLE ID: | | LTMW-1-20210916 | | LTMW-1-20210916-MS | | LTMW-1-20210916-MSD | | LTMW-2-20210916 | | LTMW-3-20210915 | | LTMW-4-20210915 | | LTMW-5A-20210915 | | LTMW-5B-20210914 | | DUP-02-20210914 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-040 | | AD26083-042 | | AD26083-044 | | AD26083-036 | | AD26083-032 | | AD26083-028 | | AD26083-026 | | AD26083-021 | | AD26083-023 | |
| DATE SAMPLE COLLECTED: | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/15/2021 | | 9/15/2021 | | 9/15/2021 | | 9/14/2021 | | 9/14/2021 | |
| VOLATILE ORGANIC COMPOUNDS (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| 1,1,1-Trichloroethane | 5 | 1.0 | U | **18** | | **17** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 | U | **16** | | **17** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5 | 1.0 | U | **16** | | **15** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1,2-Trichloroethane | 1 | 1.0 | U | **16** | | **15** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1-Dichloroethane | 5 | 1.0 | U | **20** | | **19** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1-Dichloroethene | 5 | 1.0 | U | **19** | | **18** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2,3-Trichlorobenzene | NC | 1.0 | U | 15 | | 15 | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2,4-Trichlorobenzene | 5 | 1.0 | U | **14** | | **14** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2-Dibromo-3-chloropropane | 0.04 | 1.0 | U | **16** | | **16** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2-Dibromoethane | NC | 1.0 | U | 15 | | 15 | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2-Dichlorobenzene | 3 | 1.0 | U | **14** | | **14** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2-Dichloroethane | 0.6 | 0.64 | U | **19** | | **17** | | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U |
| 1,2-Dichloropropane | 1 | 1.0 | U | **19** | | **18** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,3-Dichlorobenzene | 3 | 1.0 | U | **14** | | **14** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,4-Dichlorobenzene | 3 | 1.0 | U | **14** | | **14** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,4-Dioxane | NC | 100 | | 1,000 | | 1,100 | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| 2-Butanone | NC | 1.0 | U | 29 | | 22 | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-Hexanone | NC | 1.0 | U | 21 | | 22 | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 4-Methyl-2-pentanone | NC | 1.0 | U | 21 | | 21 | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Acetone | 50 | 25 | | **150** | | **72** | | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Benzene | 1 | 0.50 | U | **17** | | **16** | | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| Bromochloromethane | 5 | 1.0 | U | **22** | | **20** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Bromodichloromethane | 50 | 1.0 | U | **17** | | **16** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Bromoform | 50 | 1.0 | U | **14** | | **13** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Bromomethane | 5 | 1.0 | U | **5.8** | | **6.0** | | 1.0 | UJ | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Carbon disulfide | NC | 1.0 | U | 28 | | 26 | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Carbon tetrachloride | 5 | 1.0 | U | **15** | | **14** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Chlorobenzene | 5 | 1.0 | U | **15** | | **15** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Chloroethane | 5 | 1.0 | U | **13** | | **22** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Chloroform | 7 | 2.0 | U | **18** | | **17** | | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Chloromethane | 5 | 1.0 | U | **26** | | **25** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| cis-1,2-Dichloroethene | 5 | 1.0 | U | **19** | | **17** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| cis-1,3-Dichloropropene | 0.4 | 1.0 | U | **14** | | **13** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Cyclohexane | NC | 1.0 | U | 18 | | 17 | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Dibromochloromethane | 50 | 1.0 | U | **15** | | **14** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Dichlorodifluoromethane | 5 | 1.0 | U | **34** | | **31** | | 1.0 | UJ | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Ethylbenzene | 5 | 1.0 | U | **15** | | **15** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Volatile Organic Compounds

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 5 | 1.0 | U | **15** | | **15** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| m&p-Xylenes | 5 | 1.0 | U | **30** | | **29** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Methyl Acetate | NC | 1.0 | U | 23 | | 22 | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Methylcyclohexane | NC | 1.0 | U | 13 | | 12 | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Methylene chloride | 5 | 1.0 | U | **17** | | **16** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Methyl-t-butyl ether | NC | 1.0 | | 20 | | 19 | | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| o-Xylene | 5 | 1.0 | U | **15** | | **15** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Styrene | 5 | 1.0 | U | **14** | | **14** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Tetrachloroethene | 5 | 1.0 | U | **15** | | **14** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Toluene | 5 | 1.0 | U | **16** | | **15** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| trans-1,2-Dichloroethene | 5 | 1.0 | U | **17** | | **16** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| trans-1,3-Dichloropropene | 0.4 | 1.0 | U | **13** | | **13** | | 1.0 | UJ | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Trichloroethene | 5 | 1.0 | U | **16** | | **15** | | 1.0 | UJ | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Trichlorofluoromethane | 5 | 1.0 | U | **20** | | **18** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Vinyl chloride | 2 | 1.0 | U | **15** | | **23** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Xylenes (Total) | 5 | 1.0 | U | **45** | | **44** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |

Notes

(1) - There is no GA value for total xylenes.
The standards for o-xylene, m-xylene, and p-xylene is 5 µg/L.

(2) - 0.4 µg/L applies to the sum of
of cis- and trans-1,3-dichloropropene.

µg/L - micrograms per liter

J - Estimated value

NC - No criterion

U - Non-detect

Shaded and **bold** results
the corresponding Class GA Value.

Sample DUP-01-20210913 is a duplicate
of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate
of LTMW-5B-20210914

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Volatile Organic Compounds

| SAMPLE ID: | | LTMW-6-20210914 | | LTMW-7-20210913 | | LTMW-8-20210913 | | LTMW-9-20210913 | | LTMW-10-20210913 | | LTMW-11-20210913 | | DUP-01-20210913 | | LTMW-12-20210914 | | LTMW-13-20210914 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-016 | | AD26083-011 | | AD26083-002 | | AD26083-006 | | AD26083-003 | | AD26083-004 | | AD26083-009 | | AD26083-014 | | AD26083-018 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/14/2021 | | 9/14/2021 | |
| VOLATILE ORGANIC COMPOUNDS (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| 1,1,1-Trichloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1,2-Trichloroethane | 1 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1-Dichloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1-Dichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2,3-Trichlorobenzene | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2,4-Trichlorobenzene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2-Dibromo-3-chloropropane | 0.04 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2-Dibromoethane | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2-Dichlorobenzene | 3 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2-Dichloroethane | 0.6 | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U |
| 1,2-Dichloropropane | 1 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,3-Dichlorobenzene | 3 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,4-Dichlorobenzene | 3 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,4-Dioxane | NC | 50 | U | 50 | U | 130 | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| 2-Butanone | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-Hexanone | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 4-Methyl-2-pentanone | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Acetone | 50 | 5.0 | U | 5.0 | U | 24 | | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Benzene | 1 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| Bromochloromethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Bromodichloromethane | 50 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Bromoform | 50 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Bromomethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | UJ | 1.0 | U | 1.0 | U |
| Carbon disulfide | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Carbon tetrachloride | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Chlorobenzene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Chloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | UJ | 1.0 | U | 1.0 | U |
| Chloroform | 7 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Chloromethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | UJ | 1.0 | U | 1.0 | U |
| cis-1,2-Dichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| cis-1,3-Dichloropropene | 0.4 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Cyclohexane | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Dibromochloromethane | 50 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Dichlorodifluoromethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | UJ | 1.0 | U | 1.0 | U |
| Ethylbenzene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Volatile Organic Compounds

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| m&p-Xylenes | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Methyl Acetate | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Methylcyclohexane | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Methylene chloride | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Methyl-t-butyl ether | NC | 0.50 | U | 0.50 | U | 0.69 | | 0.50 | U | 0.76 | | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| o-Xylene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Styrene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Tetrachloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Toluene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| trans-1,2-Dichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| trans-1,3-Dichloropropene | 0.4 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Trichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Trichlorofluoromethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | UJ | 1.0 | U | 1.0 | U |
| Vinyl chloride | 2 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | UJ | 1.0 | U | 1.0 | U |
| Xylenes (Total) | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |

Notes

(1) - There is no GA value for total xylenes.
The standards for o-xylene, m-xylene, and p-xylene is 5 µg/L.

(2) - 0.4 µg/L applies to the sum of
of cis- and trans-1,3-dichloropropene.

µg/L - micrograms per liter

J - Estimated value

NC - No criterion

U - Non-detect

Shaded and **bold** results
the corresponding Class GA Value.

Sample DUP-01-20210913 is a duplicate
of LTMW-11-20210913

Sample DUP-02-20210914 is a duplicate
of LTMW-5B-20210914

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Volatile Organic Compounds

| SAMPLE ID: | | LTMW-15-20210914 | | LTMW-16-20210915 | | LTMW-17-20210915 | | LTMW-18C-20210916 | | LTMW-18UG-20210916 | | LTMW-19-20210916 | | LTMW-19-20210916 MS | | LTMW-19-20210916 MSD | | LTMW-21-20210914 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-019 | | AD26083-30 | | AD26083-027 | | AD26083-035 | | AD26083-038 | | AD26083-048 | | AD26083-049 | | AD26083-050 | | AD26083-013 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/15/2021 | | 9/15/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/14/2021 | |
| VOLATILE ORGANIC COMPOUNDS (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| 1,1,1-Trichloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **20** | | **18** | | 1.0 | U |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **13** | | **11** | | 1.0 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **19** | | **19** | | 1.0 | U |
| 1,1,2-Trichloroethane | 1 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **15** | | **15** | | 1.0 | U |
| 1,1-Dichloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **16** | | **15** | | 1.0 | U |
| 1,1-Dichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **16** | | **15** | | 1.0 | U |
| 1,2,3-Trichlorobenzene | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 15 | | 17 | | 1.0 | U |
| 1,2,4-Trichlorobenzene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **16** | | **17** | | 1.0 | U |
| 1,2-Dibromo-3-chloropropane | 0.04 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **14** | | **15** | | 1.0 | U |
| 1,2-Dibromoethane | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 16 | | 15 | | 1.0 | U |
| 1,2-Dichlorobenzene | 3 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **15** | | **15** | | 1.0 | U |
| 1,2-Dichloroethane | 0.6 | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | **16** | | **15** | | 0.64 | U |
| 1,2-Dichloropropane | 1 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **17** | | **16** | | 1.0 | U |
| 1,3-Dichlorobenzene | 3 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **15** | | **15** | | 1.0 | U |
| 1,4-Dichlorobenzene | 3 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **15** | | **15** | | 1.0 | U |
| 1,4-Dioxane | NC | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 880 | | 970 | | 50 | U |
| 2-Butanone | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 14 | | 14 | | 1.0 | U |
| 2-Hexanone | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 13 | | 13 | | 1.0 | U |
| 4-Methyl-2-pentanone | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 13 | | 13 | | 1.0 | U |
| Acetone | 50 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | **75** | | **75** | | 5.0 | U |
| Benzene | 1 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | **17** | | **16** | | 0.50 | U |
| Bromochloromethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **17** | | **16** | | 1.0 | U |
| Bromodichloromethane | 50 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **17** | | **17** | | 1.0 | U |
| Bromoform | 50 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **14** | | **13** | | 1.0 | U |
| Bromomethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **5.4** | | **5.3** | | 1.0 | U |
| Carbon disulfide | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 17 | | 15 | | 1.0 | U |
| Carbon tetrachloride | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **19** | | **18** | | 1.0 | U |
| Chlorobenzene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **17** | | **16** | | 1.0 | U |
| Chloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **18** | | **19** | | 1.0 | U |
| Chloroform | 7 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | **18** | | **17** | | 2.0 | U |
| Chloromethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **18** | | **18** | | 1.0 | U |
| cis-1,2-Dichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **15** | | **14** | | 1.0 | U |
| cis-1,3-Dichloropropene | 0.4 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **12** | | **11** | | 1.0 | U |
| Cyclohexane | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 16 | | 16 | | 1.0 | U |
| Dibromochloromethane | 50 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **17** | | **16** | | 1.0 | U |
| Dichlorodifluoromethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **38** | | **36** | | 1.0 | U |
| Ethylbenzene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **13** | | **13** | | 1.0 | U |

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Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Volatile Organic Compounds

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **14** | | **14** | | 1.0 | U |
| m&p-Xylenes | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **27** | | **26** | | 1.0 | U |
| Methyl Acetate | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 13 | | 12 | | 1.0 | U |
| Methylcyclohexane | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 17 | | 17 | | 1.0 | U |
| Methylene chloride | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **17** | | **16** | | 1.0 | U |
| Methyl-t-butyl ether | NC | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 15 | | 15 | | 0.50 | U |
| o-Xylene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **14** | | **13** | | 1.0 | U |
| Styrene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **13** | | **12** | | 1.0 | U |
| Tetrachloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **21** | | **20** | | 1.0 | U |
| Toluene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **16** | | **15** | | 1.0 | U |
| trans-1,2-Dichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **18** | | **17** | | 1.0 | U |
| trans-1,3-Dichloropropene | 0.4 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **12** | | **11** | | 1.0 | U |
| Trichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **22** | | **21** | | 1.0 | U |
| Trichlorofluoromethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **20** | | **20** | | 1.0 | U |
| Vinyl chloride | 2 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **20** | | **19** | | 1.0 | U |
| Xylenes (Total) | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | **41** | | **39** | | 1.0 | U |

Notes

(1) - There is no GA value for total xylenes.
The standards for o-xylene, m-xylene, and p-xylene is 5 µg/L.

(2) - 0.4 µg/L applies to the sum of
of cis- and trans-1,3-dichloropropene.

µg/L - micrograms per liter

J - Estimated value

NC - No criterion

U - Non-detect

Shaded and **bold** results
the corresponding Class GA Value.

Sample DUP-01-20210913 is a duplicate
of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate
of LTMW-5B-20210914

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Volatile Organic Compounds

| SAMPLE ID: | | LTMW-22-20210913 | | LTMW-23-20210916 | | TB-01-20210913 | | TB-02-20210914 | | TB-03-20210915 | | TB-04-20210916 | | FB-20210913 | | FB-20210915 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-001 | | AD26083-046 | | AD26083-010 | | AD26083-025 | | AD26083-034 | | AD26083-051 | | AD26083-005 | | AD26083-33 | |
| DATE SAMPLE COLLECTED: | | 9/13/2021 | | 9/16/2021 | | 9/13/2021 | | 9/14/2021 | | 9/15/2021 | | 9/16/2021 | | 9/13/2021 | | 9/15/2021 | |
| VOLATILE ORGANIC COMPOUNDS (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| 1,1,1-Trichloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1,2-Trichloroethane | 1 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1-Dichloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1-Dichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2,3-Trichlorobenzene | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2,4-Trichlorobenzene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2-Dibromo-3-chloropropane | 0.04 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2-Dibromoethane | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2-Dichlorobenzene | 3 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2-Dichloroethane | 0.6 | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U | 0.64 | U |
| 1,2-Dichloropropane | 1 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,3-Dichlorobenzene | 3 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,4-Dichlorobenzene | 3 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,4-Dioxane | NC | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| 2-Butanone | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 2-Hexanone | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 4-Methyl-2-pentanone | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Acetone | 50 | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Benzene | 1 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| Bromochloromethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Bromodichloromethane | 50 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Bromoform | 50 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Bromomethane | 5 | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U |
| Carbon disulfide | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Carbon tetrachloride | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Chlorobenzene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Chloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U |
| Chloroform | 7 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Chloromethane | 5 | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U |
| cis-1,2-Dichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| cis-1,3-Dichloropropene | 0.4 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Cyclohexane | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Dibromochloromethane | 50 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Dichlorodifluoromethane | 5 | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U |
| Ethylbenzene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |

Table 1
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Volatile Organic Compounds

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Isopropylbenzene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| m&p-Xylenes | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Methyl Acetate | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Methylcyclohexane | NC | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Methylene chloride | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Methyl-t-butyl ether | NC | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| o-Xylene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Styrene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Tetrachloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Toluene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| trans-1,2-Dichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| trans-1,3-Dichloropropene | 0.4 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Trichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Trichlorofluoromethane | 5 | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U |
| Vinyl chloride | 2 | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U |
| Xylenes (Total) | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |

Notes

(1) - There is no GA value for total xylenes.
The standards for o-xylene, m-xylene, and p-xylene is 5 µg/L.

(2) - 0.4 µg/L applies to the sum of
of cis- and trans-1,3-dichloropropene.

µg/L - micrograms per liter

J - Estimated value

NC - No criterion

U - Non-detect

Shaded and **bold** results
the corresponding Class GA Value.

Sample DUP-01-20210913 is a duplicate
of LTMW-11-20210913

Sample DUP-02-20210914 is a duplicate
of LTMW-5B-20210914

Table 2
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Semivolatile Organic Compounds

| SAMPLE ID: | | LTMW-1-20210916 | | LTMW-1-20210916-MS | | LTMW-1-20210916-MSD | | LTMW-2-20210916 | | LTMW-3-20210915 | | LTMW-4-20210915 | | LTMW-5A-20210915 | | LTMW-5B-20210914 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-040 | | AD26083-042 | | AD26083-044 | | AD26083-036 | | AD26083-032 | | AD26083-028 | | AD26083-026 | | AD26083-021 | |
| DATE SAMPLE COLLECTED: | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/15/2021 | | 9/15/2021 | | 9/15/2021 | | 9/14/2021 | |
| SEMIVOLATILE ORGANIC COMPOUNDS (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| 1,1'-Biphenyl | 5 | 0.0020 | U | 0.12 | | 0.12 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 1,2,4,5-Tetrachlorobenzene | 5 | 0.0020 | U | 0.11 | | 0.12 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 1,4-Dioxane | NC | 0.031 | | 0.12 | | 0.12 | | 0.00060 | | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| 2,3,4,6-Tetrachlorophenol | NC | 0.0020 | U | 0.12 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2,4,5-Trichlorophenol | NC | 0.0020 | U | 0.13 | | 0.12 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2,4,6-Trichlorophenol | NC | 0.0020 | U | 0.13 | | 0.13 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2,4-Dichlorophenol | 5 | 0.00050 | U | 0.11 | | 0.11 | | 0.00053 | U | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| 2,4-Dimethylphenol | 50 | 0.00055 | U | 0.13 | | 0.13 | | 0.00058 | U | 0.00058 | U | 0.00055 | U | 0.00055 | U | 0.00055 | U |
| 2,4-Dinitrophenol | 10 | 0.010 | U | 0.098 | | 0.041 | | 0.011 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| 2,4-Dinitrotoluene | 5 | 0.0020 | U | 0.11 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2,6-Dinitrotoluene | 5 | 0.0020 | U | 0.11 | | 0.12 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2-Chloronaphthalene | 10 | 0.0020 | U | 0.10 | | 0.10 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2-Chlorophenol | NC | 0.0020 | U | 0.10 | | 0.10 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2-Methylnaphthalene | NC | 0.0020 | U | 0.11 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2-Methylphenol | NC | 0.00050 | U | 0.099 | | 0.097 | | 0.00053 | U | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| 2-Nitroaniline | 5 | 0.0020 | U | 0.12 | | 0.12 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2-Nitrophenol | NC | 0.0020 | U | 0.12 | | 0.12 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 3&4-Methylphenol | NC | 0.00050 | U | 0.099 | | 0.097 | | 0.00053 | U | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| 3,3'-Dichlorobenzidine | 5 | 0.0020 | U | 0.0020 | | 0.0029 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 3-Nitroaniline | 5 | 0.0020 | U | 0.086 | | 0.098 | | 0.0021 | UJ | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 4,6-Dinitro-2-methylphenol | NC | 0.010 | U | 0.10 | | 0.072 | | 0.011 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| 4-Bromophenyl-phenylether | NC | 0.0020 | U | 0.12 | | 0.12 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 4-Chloro-3-methylphenol | NC | 0.0020 | U | 0.13 | | 0.13 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 4-Chloroaniline | 5 | 0.00050 | U | 0.078 | | 0.092 | | 0.00053 | UJ | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| 4-Chlorophenyl-phenylether | NC | 0.0020 | U | 0.11 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 4-Nitroaniline | 5 | 0.0020 | U | 0.092 | | 0.10 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 4-Nitrophenol | NC | 0.0020 | U | 0.060 | | 0.056 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Acenaphthene | NC | 0.0020 | U | 0.11 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Acenaphthylene | NC | 0.0020 | U | 0.11 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Acetophenone | NC | 0.0020 | U | 0.11 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Anthracene | 50 | 0.0020 | U | 0.11 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Atrazine | 7.5 | 0.0020 | U | 0.072 | | 0.088 | | 0.0021 | UJ | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Benzaldehyde | NC | 0.0020 | U | 0.044 | | 0.052 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Benzo[a]anthracene | 0.002 | 0.0020 | U | **0.11** | | **0.10** | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Benzo[a]pyrene | ND* | 0.0020 | U | **0.12** | | **0.11** | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Benzo[b]fluoranthene | 0.002 | 0.0020 | U | **0.12** | | **0.12** | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Benzo[g,h,i]perylene | NC | 0.0020 | U | 0.12 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Benzo[k]fluoranthene | 0.002 | 0.0020 | U | **0.12** | | **0.11** | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| bis(2-Chloroethoxy)methane | 5 | 0.0020 | U | 0.11 | | 0.10 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| bis(2-Chloroethyl)ether | 1 | 0.00050 | U | 0.089 | | 0.082 | | 0.00053 | U | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| bis(2-Chloroisopropyl)ether | 5 | 0.0020 | U | 0.063 | | 0.059 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| bis(2-Ethylhexyl)phthalate | 5 | 0.0020 | U | 0.13 | | 0.12 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Butylbenzylphthalate | 50 | 0.0020 | U | 0.12 | | 0.12 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |

Table 2
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Semivolatile Organic Compounds

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Caprolactam | NC | 0.0020 | U | 0.053 | | 0.053 | | 0.0021 | U | 0.0021 | U | 0.022 | | 0.0020 | U | 0.0020 | U |
| Carbazole | NC | 0.0020 | U | 0.12 | | 0.12 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Chrysene | 0.002 | 0.0020 | U | **0.12** | | **0.11** | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Dibenzo[a,h]anthracene | NC | 0.0020 | U | 0.12 | | 0.12 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Dibenzofuran | NC | 0.00068 | U | 0.11 | | 0.11 | | 0.00072 | U | 0.00072 | U | 0.00068 | U | 0.00068 | U | 0.00068 | U |
| Diethylphthalate | 50 | 0.0020 | U | 0.11 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Dimethylphthalate | 50 | 0.0020 | U | 0.11 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Di-n-butylphthalate | 50 | 0.0011 | U | 0.12 | | 0.11 | | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U |
| Di-n-octylphthalate | NC | 0.0020 | U | 0.13 | | 0.12 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Fluoranthene | 50 | 0.0020 | U | 0.11 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Fluorene | 50 | 0.0020 | U | 0.11 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Hexachlorobenzene | 0.04 | 0.0020 | U | **0.11** | | **0.11** | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Hexachlorobutadiene | 0.5 | 0.0020 | U | 0.050 | | 0.050 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Hexachlorocyclopentadiene | 5 | 0.0020 | U | 0.084 | | 0.080 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Hexachloroethane | 5 | 0.0020 | U | 0.018 | | 0.019 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Indeno[1,2,3-cd]pyrene | 0.002 | 0.0020 | U | **0.12** | | **0.12** | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Isophorone | 50 | 0.0020 | U | 0.10 | | 0.10 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Naphthalene | 10 | 0.00050 | U | 0.073 | | 0.072 | | 0.00053 | U | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| Nitrobenzene | 0.4 | 0.0020 | U | 0.095 | | 0.091 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| N-Nitroso-di-n-propylamine | NC | 0.00064 | U | 0.10 | | 0.10 | | 0.00068 | U | 0.00068 | U | 0.00064 | U | 0.00064 | U | 0.00064 | U |
| N-Nitrosodiphenylamine | 50 | 0.0020 | U | 0.095 | | 0.094 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Pentachlorophenol | 1 | 0.010 | U | 0.15 | | 0.12 | | 0.011 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Phenanthrene | 50 | 0.0020 | U | 0.11 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Phenol | 1 | 0.0020 | U | 0.051 | | 0.051 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Pyrene | 50 | 0.0020 | U | 0.11 | | 0.11 | | 0.0021 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |

Notes
µg/L - micrograms per liter
J - Estimated value
NC - No criterion
U - Non-detect
ND* - Any detection is considered above the Class GA Stanard
Shaded and **bold** results exceed the corresponding Class GA Value.
Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 2
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Semivolatile Organic Compounds

| SAMPLE ID: | | DUP-02-20210914 | | LTMW-6-20210914 | | LTMW-7-20210913 | | LTMW-8-20210913 | | LTMW-9-20210913 | | LTMW-10-20210913 | | LTMW-11-20210913 | | DUP-01-20210913 | | LTMW-12-20210914 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-023 | | AD26083-016 | | AD26083-011 | | AD26083-002 | | AD26083-006 | | AD26083-003 | | AD26083-004 | | AD26083-009 | | AD26083-014 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/14/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/14/2021 | |
| SEMIVOLATILE ORGANIC COMPOUNDS (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| 1,1'-Biphenyl | 5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 1,2,4,5-Tetrachlorobenzene | 5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 1,4-Dioxane | NC | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.054 | | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| 2,3,4,6-Tetrachlorophenol | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2,4,5-Trichlorophenol | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2,4,6-Trichlorophenol | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2,4-Dichlorophenol | 5 | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| 2,4-Dimethylphenol | 50 | 0.00055 | U | 0.00055 | U | 0.00055 | U | 0.00055 | U | 0.00055 | U | 0.00055 | U | 0.00055 | U | 0.00055 | U | 0.00055 | U |
| 2,4-Dinitrophenol | 10 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| 2,4-Dinitrotoluene | 5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2,6-Dinitrotoluene | 5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2-Chloronaphthalene | 10 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2-Chlorophenol | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2-Methylnaphthalene | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2-Methylphenol | NC | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| 2-Nitroaniline | 5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 2-Nitrophenol | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 3&4-Methylphenol | NC | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| 3,3'-Dichlorobenzidine | 5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 3-Nitroaniline | 5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 4,6-Dinitro-2-methylphenol | NC | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| 4-Bromophenyl-phenylether | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 4-Chloro-3-methylphenol | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 4-Chloroaniline | 5 | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| 4-Chlorophenyl-phenylether | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 4-Nitroaniline | 5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| 4-Nitrophenol | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Acenaphthene | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Acenaphthylene | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Acetophenone | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Anthracene | 50 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Atrazine | 7.5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Benzaldehyde | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Benzo[a]anthracene | 0.002 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Benzo[a]pyrene | ND* | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Benzo[b]fluoranthene | 0.002 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Benzo[g,h,i]perylene | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Benzo[k]fluoranthene | 0.002 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| bis(2-Chloroethoxy)methane | 5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| bis(2-Chloroethyl)ether | 1 | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| bis(2-Chloroisopropyl)ether | 5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| bis(2-Ethylhexyl)phthalate | 5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Butylbenzylphthalate | 50 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |

Table 2
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Semivolatile Organic Compounds

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Caprolactam | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Carbazole | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Chrysene | 0.002 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Dibenzo[a,h]anthracene | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Dibenzofuran | NC | 0.00068 | U | 0.00068 | U | 0.00068 | U | 0.00068 | U | 0.00068 | U | 0.00068 | U | 0.00068 | U | 0.00068 | U | 0.00068 | U |
| Diethylphthalate | 50 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Dimethylphthalate | 50 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Di-n-butylphthalate | 50 | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U |
| Di-n-octylphthalate | NC | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Fluoranthene | 50 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Fluorene | 50 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Hexachlorobenzene | 0.04 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Hexachlorobutadiene | 0.5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Hexachlorocyclopentadiene | 5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Hexachloroethane | 5 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Indeno[1,2,3-cd]pyrene | 0.002 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Isophorone | 50 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Naphthalene | 10 | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U | 0.00050 | U |
| Nitrobenzene | 0.4 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| N-Nitroso-di-n-propylamine | NC | 0.00064 | U | 0.00064 | U | 0.00064 | U | 0.00064 | U | 0.00064 | U | 0.00064 | U | 0.00064 | U | 0.00064 | U | 0.00064 | U |
| N-Nitrosodiphenylamine | 50 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Pentachlorophenol | 1 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Phenanthrene | 50 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Phenol | 1 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |
| Pyrene | 50 | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U | 0.0020 | U |

Notes
µg/L - micrograms per liter
J - Estimated value
NC - No criterion
U - Non-detect
ND* - Any detection is considered above the Class GA Stanard
Shaded and **bold** results exceed the corresponding Class GA Value.
Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 2
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Semivolatile Organic Compounds

| SAMPLE ID: | | LTMW-13-20210914 | | LTMW-15-20210914 | | LTMW-16-20210915 | | LTMW-17-20210915 | | LTMW-18C-20210916 | | LTMW-18UG-20210916 | | LTMW-19-20210916 | | LTMW-19-20210916 MS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-018 | | AD26083-019 | | AD26083-30 | | AD26083-027 | | AD26083-035 | | AD26083-038 | | AD26083-048 | | AD26083-049 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/14/2021 | | 9/15/2021 | | 9/15/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | |
| SEMIVOLATILE ORGANIC COMPOUNDS (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| 1,1'-Biphenyl | 5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.061 | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.059 | |
| 1,4-Dioxane | NC | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00053 | U | 0.00052 | U | 0.041 | |
| 2,3,4,6-Tetrachlorophenol | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.059 | |
| 2,4,5-Trichlorophenol | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.067 | |
| 2,4,6-Trichlorophenol | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.066 | |
| 2,4-Dichlorophenol | 5 | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00053 | U | 0.00052 | U | 0.059 | |
| 2,4-Dimethylphenol | 50 | 0.00055 | U | 0.00058 | U | 0.00055 | U | 0.00055 | U | 0.00058 | U | 0.00058 | U | 0.00057 | U | 0.061 | |
| 2,4-Dinitrophenol | 10 | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.011 | U | 0.011 | U | 0.010 | U | 0.011 | |
| 2,4-Dinitrotoluene | 5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.058 | |
| 2,6-Dinitrotoluene | 5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.062 | |
| 2-Chloronaphthalene | 10 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.057 | |
| 2-Chlorophenol | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.052 | |
| 2-Methylnaphthalene | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.057 | |
| 2-Methylphenol | NC | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00053 | U | 0.00052 | U | 0.050 | |
| 2-Nitroaniline | 5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.070 | |
| 2-Nitrophenol | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.058 | |
| 3&4-Methylphenol | NC | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00053 | U | 0.00052 | U | 0.051 | |
| 3,3'-Dichlorobenzidine | 5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.053 | |
| 3-Nitroaniline | 5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.085 | |
| 4,6-Dinitro-2-methylphenol | NC | 0.010 | U | 0.0085 | U | 0.010 | U | 0.010 | U | 0.011 | U | 0.011 | U | 0.010 | U | 0.027 | |
| 4-Bromophenyl-phenylether | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.061 | |
| 4-Chloro-3-methylphenol | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.063 | |
| 4-Chloroaniline | 5 | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00053 | U | 0.00052 | U | 0.083 | |
| 4-Chlorophenyl-phenylether | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.059 | |
| 4-Nitroaniline | 5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.077 | |
| 4-Nitrophenol | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.030 | |
| Acenaphthene | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.057 | |
| Acenaphthylene | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.059 | |
| Acetophenone | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.061 | |
| Anthracene | 50 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.061 | |
| Atrazine | 7.5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.036 | |
| Benzaldehyde | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.033 | |
| Benzo[a]anthracene | 0.002 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | **0.058** | |
| Benzo[a]pyrene | ND* | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | **0.064** | |
| Benzo[b]fluoranthene | 0.002 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | **0.068** | |
| Benzo[g,h,i]perylene | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.062 | |
| Benzo[k]fluoranthene | 0.002 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | **0.067** | |
| bis(2-Chloroethoxy)methane | 5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.057 | |
| bis(2-Chloroethyl)ether | 1 | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00053 | U | 0.00052 | U | 0.053 | |
| bis(2-Chloroisopropyl)ether | 5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.047 | |
| bis(2-Ethylhexyl)phthalate | 5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.068 | |
| Butylbenzylphthalate | 50 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.065 | |

Table 2
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Semivolatile Organic Compounds

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Caprolactam | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.039 | | 0.0021 | U | 0.0021 | U | 0.035 | |
| Carbazole | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.068 | |
| Chrysene | 0.002 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | **0.063** | |
| Dibenzo[a,h]anthracene | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.063 | |
| Dibenzofuran | NC | 0.00068 | U | 0.00072 | U | 0.00068 | U | 0.00068 | U | 0.00072 | U | 0.00072 | U | 0.00070 | U | 0.061 | |
| Diethylphthalate | 50 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.060 | |
| Dimethylphthalate | 50 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.061 | |
| Di-n-butylphthalate | 50 | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.063 | |
| Di-n-octylphthalate | NC | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.067 | |
| Fluoranthene | 50 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.063 | |
| Fluorene | 50 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.058 | |
| Hexachlorobenzene | 0.04 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | **0.059** | |
| Hexachlorobutadiene | 0.5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.051 | |
| Hexachlorocyclopentadiene | 5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.049 | |
| Hexachloroethane | 5 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.049 | |
| Indeno[1,2,3-cd]pyrene | 0.002 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | **0.064** | |
| Isophorone | 50 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.055 | |
| Naphthalene | 10 | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00053 | U | 0.00052 | U | 0.050 | |
| Nitrobenzene | 0.4 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.057 | |
| N-Nitroso-di-n-propylamine | NC | 0.00064 | U | 0.00068 | U | 0.00064 | U | 0.00064 | U | 0.00068 | U | 0.00068 | U | 0.00066 | U | 0.057 | |
| N-Nitrosodiphenylamine | 50 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.051 | |
| Pentachlorophenol | 1 | 0.010 | U | 0.0080 | U | 0.010 | U | 0.010 | U | 0.011 | U | 0.011 | U | 0.010 | U | 0.065 | |
| Phenanthrene | 50 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.062 | |
| Phenol | 1 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.031 | |
| Pyrene | 50 | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0021 | U | 0.0021 | U | 0.061 | |

Notes
µg/L - micrograms per liter
J - Estimated value
NC - No criterion
U - Non-detect
ND* - Any detection is considered above the Class GA Stanard
Shaded and **bold** results exceed the corresponding Class GA Value.
Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 2
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Semivolatile Organic Compounds

| SAMPLE ID: | | LTMW-19-20210916 MSD | | LTMW-21-20210914 | | LTMW-22-20210913 | | LTMW-23-20210916 | | FB-20210913 | | FB-20210915 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-050 | | AD26083-013 | | AD26083-001 | | AD26083-046 | | AD26083-005 | | AD26083-33 | |
| DATE SAMPLE COLLECTED: | | 9/16/2021 | | 9/14/2021 | | 9/13/2021 | | 9/16/2021 | | 9/13/2021 | | 9/15/2021 | |
| SEMIVOLATILE ORGANIC COMPOUNDS (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| 1,1'-Biphenyl | 5 | 0.099 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 1,2,4,5-Tetrachlorobenzene | 5 | 0.098 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 1,4-Dioxane | NC | 0.060 | | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00053 | U |
| 2,3,4,6-Tetrachlorophenol | NC | 0.094 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 2,4,5-Trichlorophenol | NC | 0.10 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 2,4,6-Trichlorophenol | NC | 0.10 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 2,4-Dichlorophenol | 5 | 0.089 | | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00053 | U |
| 2,4-Dimethylphenol | 50 | 0.092 | | 0.00055 | U | 0.00055 | U | 0.00058 | U | 0.00055 | U | 0.00058 | U |
| 2,4-Dinitrophenol | 10 | 0.052 | | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.011 | U |
| 2,4-Dinitrotoluene | 5 | 0.092 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 2,6-Dinitrotoluene | 5 | 0.096 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 2-Chloronaphthalene | 10 | 0.092 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 2-Chlorophenol | NC | 0.080 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 2-Methylnaphthalene | NC | 0.095 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 2-Methylphenol | NC | 0.075 | | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00053 | U |
| 2-Nitroaniline | 5 | 0.11 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 2-Nitrophenol | NC | 0.093 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 3&4-Methylphenol | NC | 0.073 | | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00053 | U |
| 3,3'-Dichlorobenzidine | 5 | 0.074 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 3-Nitroaniline | 5 | 0.11 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 4,6-Dinitro-2-methylphenol | NC | 0.070 | | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.011 | U |
| 4-Bromophenyl-phenylether | NC | 0.098 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 4-Chloro-3-methylphenol | NC | 0.094 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 4-Chloroaniline | 5 | 0.10 | | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00053 | U |
| 4-Chlorophenyl-phenylether | NC | 0.097 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 4-Nitroaniline | 5 | 0.10 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| 4-Nitrophenol | NC | 0.046 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Acenaphthene | NC | 0.093 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Acenaphthylene | NC | 0.094 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Acetophenone | NC | 0.096 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Anthracene | 50 | 0.097 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Atrazine | 7.5 | 0.078 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Benzaldehyde | NC | 0.052 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Benzo[a]anthracene | 0.002 | **0.090** | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Benzo[a]pyrene | ND* | **0.10** | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Benzo[b]fluoranthene | 0.002 | **0.10** | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Benzo[g,h,i]perylene | NC | 0.097 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Benzo[k]fluoranthene | 0.002 | **0.10** | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| bis(2-Chloroethoxy)methane | 5 | 0.091 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| bis(2-Chloroethyl)ether | 1 | 0.083 | | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00053 | U |
| bis(2-Chloroisopropyl)ether | 5 | 0.076 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| bis(2-Ethylhexyl)phthalate | 5 | 0.11 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Butylbenzylphthalate | 50 | 0.10 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |

Table 2
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Semivolatile Organic Compounds

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Caprolactam | NC | 0.045 | | 0.096 | | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Carbazole | NC | 0.11 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Chrysene | 0.002 | **0.098** | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Dibenzo[a,h]anthracene | NC | 0.10 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Dibenzofuran | NC | 0.10 | | 0.00068 | U | 0.00068 | U | 0.00072 | U | 0.00068 | U | 0.00072 | U |
| Diethylphthalate | 50 | 0.095 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Dimethylphthalate | 50 | 0.095 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Di-n-butylphthalate | 50 | 0.098 | | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U | 0.0011 | U |
| Di-n-octylphthalate | NC | 0.10 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Fluoranthene | 50 | 0.099 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Fluorene | 50 | 0.093 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Hexachlorobenzene | 0.04 | 0.094 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Hexachlorobutadiene | 0.5 | 0.085 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Hexachlorocyclopentadiene | 5 | 0.087 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Hexachloroethane | 5 | 0.082 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Indeno[1,2,3-cd]pyrene | 0.002 | 0.10 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Isophorone | 50 | 0.086 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Naphthalene | 10 | 0.087 | | 0.00050 | U | 0.00050 | U | 0.00053 | U | 0.00050 | U | 0.00053 | U |
| Nitrobenzene | 0.4 | 0.089 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| N-Nitroso-di-n-propylamine | NC | 0.088 | | 0.00064 | U | 0.00064 | U | 0.00068 | U | 0.00064 | U | 0.00068 | U |
| N-Nitrosodiphenylamine | 50 | 0.081 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Pentachlorophenol | 1 | 0.11 | | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.011 | U |
| Phenanthrene | 50 | 0.097 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Phenol | 1 | 0.045 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |
| Pyrene | 50 | 0.097 | | 0.0020 | U | 0.0020 | U | 0.0021 | U | 0.0020 | U | 0.0021 | U |

Notes
µg/L - micrograms per liter
J - Estimated value
NC - No criterion
U - Non-detect
ND* - Any detection is considered above the Class GA Stanard
Shaded and **bold** results exceed the corresponding Class GA Value.
Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 3
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Metals

| | SAMPLE ID: | LTMW-1-20210916 | | LTMW-1-20210916-MS | | LTMW-1-20210916-MSD | | LTMW-2-20210916 | | LTMW-3-20210915 | | LTMW-4-20210915 | | LTMW-5A-20210915 | | LTMW-5B-20210914 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LABORATORY SAMPLE ID: | AD26083-040 | | AD26083-042 | | AD26083-044 | | AD26083-036 | | AD26083-032 | | AD26083-028 | | AD26083-026 | | AD26083-021 | |
| | DATE SAMPLE COLLECTED: | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/15/2021 | | 9/15/2021 | | 9/15/2021 | | 9/14/2021 | |
| METALS (UNFILTERED) (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| Aluminum | 2,000 | 200 | U | **4,700** | | **4,600** | | 520 | | 200 | U | **7,600** | | 200 | U | 930 | |
| Antimony | 3 | 3.0 | U | **460** | | **430** | | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U |
| Arsenic | 25 | 2.2 | | **490** | | **460** | | 7.0 | | 4.2 | | 5.0 | | 2.1 | | 2.0 | U |
| Barium | 1,000 | **2,400** | | **2,900** | | **2,900** | | 53 | | 76 | | **1,600** | | 430 | | 200 | |
| Beryllium | 3 | 1.0 | U | **440** | | **410** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Cadmium | 5 | 2.0 | U | **460** | | **430** | | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Calcium | NC | 100,000 | | 150,000 | | 150,000 | | 1,000,000 | | 580,000 | | 230,000 | | 60,000 | | 36,000 | |
| Chromium | 50 | 50 | U | **500** | | **500** | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Cobalt | NC | 7.7 | | 480 | | 440 | | 7.3 | | 2.0 | U | 7.5 | | 2.0 | U | 2.0 | U |
| Copper | 200 | 50 | U | **510** | | **510** | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Iron | 300 | **12,000** | | **17,000** | | **17,000** | | **5,000** | | 25,000 | | **15,000** | | 300 | U | **1,900** | |
| Lead | 25 | 3.0 | U | **420** | | **400** | | ND | U | 3.0 | U | 7.8 | | 3.0 | U | 3.0 | U |
| Magnesium | 35,000 | **150,000** | | **200,000** | | **200,000** | | **350,000** | | **580,000** | | **73,000** | | 13,000 | | 12,000 | |
| Manganese | 300 | **570** | | **1,100** | | **1,100** | | **6,700** | | **2,900** | | **1,100** | | 78 | | 240 | |
| Mercury | 0.7 | 0.50 | U | **5.2** | | **5.2** | | 0.50 | UJ | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| Nickel | 100 | 50 | U | **540** | | **530** | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Potassium | NC | 110,000 | | 160,000 | | 160,000 | | 36,000 | | 76,000 | | 8,500 | | 5,000 | U | 5,000 | U |
| Selenium | 10 | 10 | U | **480** | | **450** | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Silver | 50 | 20 | U | **100** | | **100** | | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U |
| Sodium | 20,000 | **1,300,000** | | **1,400,000** | | **1,400,000** | | **2,500,000** | | **4,700,000** | | **190,000** | | **39,000** | | 20,000 | |
| Thallium | 0.5 | 2.0 | U | **420** | | **400** | | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Vanadium | NC | 50 | U | 520 | | 510 | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Zinc | 2,000 | 50 | U | **530** | | **520** | | 50 | U | 50 | U | 87 | | 72 | | 50 | U |

| | SAMPLE ID: | LTMW-1-20210916 | | LTMW-1-20210916-MS | | LTMW-1-20210916-MSD | | LTMW-2-20210916 | | LTMW-3-20210915 | | LTMW-4-20210915 | | LTMW-5A-20210915 | | LTMW-5B-20210914 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LABORATORY SAMPLE ID: | AD26083-040 | | AD26083-042 | | AD26083-044 | | AD26083-036 | | AD26083-032 | | AD26083-028 | | AD26083-026 | | AD26083-021 | |
| | DATE SAMPLE COLLECTED: | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/15/2021 | | 9/15/2021 | | 9/15/2021 | | 9/14/2021 | |
| METALS (FILTERED) (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| Aluminum | 2,000 | 200 | U | **4,900** | | **5,000** | | 200 | U | NA | | 200 | U | NA | | 200 | U |
| Antimony | 3 | 3.0 | U | **450** | | **460** | | 3.0 | U | NA | | 3.0 | U | NA | | 3.0 | U |
| Arsenic | 25 | 2.0 | U | **460** | | **480** | | 3.2 | | NA | | 2.0 | U | NA | | 2.0 | U |
| Barium | 1,000 | **2,000** | | **2,200** | | **2,200** | | 50 | U | NA | | **1,300** | | NA | | 160 | |
| Beryllium | 3 | 1.0 | U | **450** | | **470** | | 1.0 | U | NA | | 1.0 | U | NA | | 1.0 | U |
| Cadmium | 5 | 2.0 | U | **450** | | **460** | | 2.0 | U | NA | | 2.0 | U | NA | | 2.0 | U |
| Calcium | NC | 83,000 | | 120,000 | | 120,000 | | 830,000 | | NA | | 200,000 | | NA | | 31,000 | |
| Chromium | 50 | 50 | U | **490** | | **490** | | 50 | U | NA | | 50 | U | NA | | 50 | U |
| Cobalt | NC | 7.0 | | 450 | | 460 | | 4.7 | | NA | | 2.0 | U | NA | | 2.0 | U |
| Copper | 200 | 50 | U | **500** | | **500** | | 50 | U | NA | | 50 | U | NA | | 50 | U |
| Iron | 300 | **9,400** | | **13,000** | | **13,000** | | 2,300 | | NA | | **410** | | NA | | 300 | U |
| Lead | 25 | 3.0 | U | **420** | | **440** | | 3.0 | U | NA | | 3.0 | U | NA | | 3.0 | U |
| Magnesium | 35,000 | **120,000** | | **150,000** | | **160,000** | | **280,000** | | NA | | **59,000** | | NA | | 9,400 | |
| Manganese | 300 | **470** | | **880** | | **890** | | **5,100** | | NA | | **660** | | NA | | 170 | |
| Mercury | 0.7 | 0.50 | U | **7.2** | | **7.0** | | 0.50 | U | NA | | 0.50 | U | NA | | 0.50 | U |
| Nickel | 100 | 50 | U | **510** | | **510** | | 50 | U | NA | | 50 | U | NA | | 50 | U |
| Potassium | NC | 86,000 | | 140,000 | | 140,000 | | 31,000 | | NA | | 6,200 | | NA | | 5,000 | U |
| Selenium | 10 | 10 | U | **450** | | **470** | | 10 | U | NA | | 10 | U | NA | | 10 | U |
| Silver | 50 | 20 | U | **100** | | **100** | | 20 | U | NA | | 20 | U | NA | | 20 | U |
| Sodium | 20,000 | **990,000** | | **1,100,000** | | **1,100,000** | | **2,000,000** | | NA | | **170,000** | | NA | | 17,000 | |
| Thallium | 0.5 | 2.0 | U | **430** | | **450** | | 2.0 | U | NA | | 2.0 | U | NA | | 2.0 | U |
| Vanadium | NC | 50 | U | 500 | | 500 | | 50 | U | NA | | 50 | U | NA | | 50 | U |
| Zinc | 2,000 | 50 | U | **500** | | **500** | | 50 | U | NA | | 50 | U | NA | | 50 | U |

Notes
µg/L - micrograms per liter
J - Estimated value
NC - No criterion
U - Non-detect
Shaded and **bold** results exceed corresponding Class GA Value.
NA - Not analyzed
Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 3
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Metals

| SAMPLE ID: | | DUP-02-20210914 | | LTMW-6-20210914 | | LTMW-7-20210913 | | LTMW-8-20210913 | | LTMW-9-20210913 | | LTMW-10-20210913 | | LTMW-11-20210913 | | DUP-01-20210913 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-023 | | AD26083-016 | | AD26083-011 | | AD26083-002 | | AD26083-006 | | AD26083-003 | | AD26083-004 | | AD26083-009 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/14/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | |
| METALS (UNFILTERED) (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| Aluminum | 2,000 | 870 | | 200 | U | 200 | U | 260 | | 680 | | 420 | | 200 | U | 200 | U |
| Antimony | 3 | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U |
| Arsenic | 25 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Barium | 1,000 | 200 | | 180 | | 300 | | 290 | | 340 | | 310 | | 120 | | 120 | |
| Beryllium | 3 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U |
| Cadmium | 5 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Calcium | NC | 35,000 | | 42,000 | | 78,000 | | 190,000 | | 61,000 | | 70,000 | | 140,000 | J | 130,000 | J |
| Chromium | 50 | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Cobalt | NC | 2.0 | U | 2.0 | U | 2.0 | U | 13 | | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Copper | 200 | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Iron | 300 | **1,700** | | 300 | U | 300 | U | **920** | | **1,100** | | **1,100** | | **1,700** | | **1,700** | |
| Lead | 25 | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U |
| Magnesium | 35,000 | 11,000 | | 11,000 | | 16,000 | | **75,000** | | 24,000 | | 28,000 | | **60,000** | | **60,000** | |
| Manganese | 300 | 230 | | 260 | | 620 | | **5,400** | | **480** | | 130 | | **430** | | **430** | |
| Mercury | 0.7 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | UJ | 0.50 | UJ |
| Nickel | 100 | 50 | U | 50 | U | 50 | U | 83 | | 50 | U | 50 | U | 50 | U | 50 | U |
| Potassium | NC | 5,000 | U | 5,000 | U | 5,000 | U | 5,200 | | 5,000 | U | 5,000 | U | 7,100 | | 6,900 | |
| Selenium | 10 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Silver | 50 | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U |
| Sodium | 20,000 | 19,000 | | 13,000 | | 20,000 | | **800,000** | | 11,000 | | 15,000 | | **39,000** | | **39,000** | |
| Thallium | 0.5 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Vanadium | NC | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Zinc | 2,000 | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |

| SAMPLE ID: | | DUP-02-20210914 | | LTMW-6-20210914 | | LTMW-7-20210913 | | LTMW-8-20210913 | | LTMW-9-20210913 | | LTMW-10-20210913 | | LTMW-11-20210913 | | DUP-01-20210913 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-023 | | AD26083-016 | | AD26083-011 | | AD26083-003 | | AD26083-006 | | AD26083-003 | | AD26083-004 | | AD26083-009 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/14/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | |
| METALS (FILTERED) (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| Aluminum | 2,000 | 200 | U | 200 | U | NA | | NA | | 200 | U | NA | | NA | | NA | |
| Antimony | 3 | 3.0 | U | 3.0 | U | NA | | NA | | 3.0 | U | NA | | NA | | NA | |
| Arsenic | 25 | 2.0 | U | 2.0 | U | NA | | NA | | 2.0 | U | NA | | NA | | NA | |
| Barium | 1,000 | 150 | | 150 | | NA | | NA | | 250 | | NA | | NA | | NA | |
| Beryllium | 3 | 1.0 | U | 1.0 | U | NA | | NA | | 1.0 | U | NA | | NA | | NA | |
| Cadmium | 5 | 2.0 | U | 2.0 | U | NA | | NA | | 2.0 | U | NA | | NA | | NA | |
| Calcium | NC | 29,000 | | 33,000 | | NA | | NA | | 46,000 | | NA | | NA | | NA | |
| Chromium | 50 | 50 | U | 50 | U | NA | | NA | | 50 | U | NA | | NA | | NA | |
| Cobalt | NC | 2.0 | U | 2.0 | U | NA | | NA | | 2.0 | U | NA | | NA | | NA | |
| Copper | 200 | 50 | U | 50 | U | NA | | NA | | 50 | U | NA | | NA | | NA | |
| Iron | 300 | 300 | U | 300 | U | NA | | NA | | 300 | U | NA | | NA | | NA | |
| Lead | 25 | 3.0 | U | 3.0 | U | NA | | NA | | 3.0 | U | NA | | NA | | NA | |
| Magnesium | 35,000 | 8,800 | | 8,600 | | NA | | NA | | 18,000 | | NA | | NA | | NA | |
| Manganese | 300 | 160 | | 150 | | NA | | NA | | **350** | | NA | | NA | | NA | |
| Mercury | 0.7 | 0.50 | U | 0.50 | U | NA | | NA | | 0.50 | U | NA | | NA | | NA | |
| Nickel | 100 | 50 | U | 50 | U | NA | | NA | | 50 | U | NA | | NA | | NA | |
| Potassium | NC | 5,000 | U | 5,000 | U | NA | | NA | | 5,000 | U | NA | | NA | | NA | |
| Selenium | 10 | 10 | U | 10 | U | NA | | NA | | 10 | U | NA | | NA | | NA | |
| Silver | 50 | 20 | U | 20 | U | NA | | NA | | 20 | U | NA | | NA | | NA | |
| Sodium | 20,000 | 16,000 | | 11,000 | | NA | | NA | | 8,900 | | NA | | NA | | NA | |
| Thallium | 0.5 | 2.0 | U | 2.0 | U | NA | | NA | | 2.0 | U | NA | | NA | | NA | |
| Vanadium | NC | 50 | U | 50 | U | NA | | NA | | 50 | U | NA | | NA | | NA | |
| Zinc | 2,000 | 50 | U | 50 | U | NA | | NA | | 50 | U | NA | | NA | | NA | |

Notes
µg/L - micrograms per liter
J - Estimated value
NC - No criterion
U - Non-detect
Shaded and **bold** results exceed corresponding Class GA Value.
NA - Not analyzed
Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 3
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Metals

| SAMPLE ID: | | LTMW-12-20210914 | | LTMW-13-20210914 | | LTMW-15-20210914 | | LTMW-16-20210915 | | LTMW-17-20210915 | | LTMW-18C-20210916 | | LTMW-18UG-20210916 | | LTMW-19-20210916 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-014 | | AD26083-018 | | AD26083-019 | | AD26083-30 | | AD26083-027 | | AD26083-035 | | AD26083-038 | | AD26083-048 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/14/2021 | | 9/14/2021 | | 9/15/2021 | | 9/15/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | |
| METALS (UNFILTERED) (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| Aluminum | 2,000 | 280 | | 1,400 | | 250 | | 200 | U | 200 | U | 200 | U | 200 | U | 200 | U |
| Antimony | 3 | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U |
| Arsenic | 25 | 14 | | 2.7 | | 8.1 | | 2.0 | U | 9.1 | | 2.0 | U | 2.0 | U | 7.0 | |
| Barium | 1,000 | 120 | | 120 | | 79 | | 110 | | 96 | | 240 | | 57 | | 340 | |
| Beryllium | 3 | 1.0 | UJ | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Cadmium | 5 | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Calcium | NC | 20,000 | | 14,000 | | 32,000 | | 6,800 | | 6,400 | | 20,000 | | 20,000 | | 170,000 | |
| Chromium | 50 | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Cobalt | NC | 2.0 | U | 2.8 | | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.4 | |
| Copper | 200 | 50 | U | 69 | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Iron | 300 | **860** | | **4,200** | | **1,400** | | 300 | U | **400** | | 300 | U | 300 | U | **27,000** | |
| Lead | 25 | 3.0 | U | 11 | | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 50 | U |
| Magnesium | 35,000 | 9,800 | | 16,000 | | 43,000 | | 6,300 | | 6,900 | | 22,000 | | 6,600 | | **270,000** | |
| Manganese | 300 | 110 | | 180 | | 120 | | 51 | | 48 | | 40 | U | 40 | U | **2,500** | |
| Mercury | 0.7 | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | U |
| Nickel | 100 | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Potassium | NC | 5,000 | U | 5,000 | U | 31,000 | | 7,600 | | 15,000 | | 33,000 | | 5,000 | U | 110,000 | |
| Selenium | 10 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Silver | 50 | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U |
| Sodium | 20,000 | **100,000** | | **86,000** | | **560,000** | | **80,000** | | **340,000** | | **270,000** | | 17,000 | | **2,700,000** | |
| Thallium | 0.5 | 2.0 | U | 2.0 | | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Vanadium | NC | 50 | U | 50 | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Zinc | 2,000 | 50 | U | 72 | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |

| SAMPLE ID: | | LTMW-12-20210914 | | LTMW-13-20210914 | | LTMW-15-20210914 | | LTMW-16-20210915 | | LTMW-17-20210915 | | LTMW-18C-20210916 | | LTMW-18UG-20210916 | | LTMW-19-20210916 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-014 | | AD26083-018 | | AD26083-019 | | AD26083-30 | | AD26083-027 | | AD26083-035 | | AD26083-038 | | AD26083-048 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/14/2021 | | 9/14/2021 | | 9/15/2021 | | 9/15/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | |
| METALS (FILTERED) (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| Aluminum | 2,000 | 200 | U | NA | | 200 | U | 200 | U | NA | | NA | | 200 | U | NA | |
| Antimony | 3 | 3.0 | U | NA | | 3.0 | U | 3.0 | U | NA | | NA | | 3.0 | U | NA | |
| Arsenic | 25 | 11 | | NA | | 6.1 | | 2.0 | U | NA | | NA | | 2.0 | U | NA | |
| Barium | 1,000 | 97 | | NA | | 64 | | 87 | | NA | | NA | | 50 | U | NA | |
| Beryllium | 3 | 1.0 | U | NA | | 1.0 | U | 1.0 | U | NA | | NA | | 1.0 | U | NA | |
| Cadmium | 5 | 2.0 | U | NA | | 2.0 | U | 2.0 | U | NA | | NA | | 2.0 | U | NA | |
| Calcium | NC | 17,000 | | NA | | 27,000 | | 5,200 | | NA | | NA | | 20,000 | | NA | |
| Chromium | 50 | 50 | U | NA | | 50 | U | 50 | U | NA | | NA | | 50 | U | NA | |
| Cobalt | NC | 2.0 | U | NA | | 2.0 | U | 2.0 | U | NA | | NA | | 2.0 | U | NA | |
| Copper | 200 | 50 | U | NA | | 50 | U | 50 | U | NA | | NA | | 50 | U | NA | |
| Iron | 300 | 300 | U | NA | | **600** | | 300 | U | NA | | NA | | 300 | U | NA | |
| Lead | 25 | 3.0 | U | NA | | 3.0 | U | 3.0 | U | NA | | NA | | 3.0 | U | NA | |
| Magnesium | 35,000 | 8,100 | | NA | | 35,000 | | 5,000 | U | NA | | NA | | 7,100 | | NA | |
| Manganese | 300 | 79 | | NA | | 94 | | 40 | U | NA | | NA | | 40 | U | NA | |
| Mercury | 0.7 | 0.50 | U | NA | | 0.50 | U | 0.50 | U | NA | | NA | | 0.50 | U | NA | |
| Nickel | 100 | 50 | U | NA | | 50 | U | 50 | U | NA | | NA | | 50 | U | NA | |
| Potassium | NC | 5,000 | U | NA | | 25,000 | | 6,500 | | NA | | NA | | 5,000 | U | NA | |
| Selenium | 10 | 10 | U | NA | | 10 | U | 10 | U | NA | | NA | | 10 | U | NA | |
| Silver | 50 | 20 | U | NA | | 20 | U | 20 | U | NA | | NA | | 20 | U | NA | |
| Sodium | 20,000 | **88,000** | | NA | | **440,000** | | **66,000** | | NA | | NA | | 16,000 | | NA | |
| Thallium | 0.5 | 2.0 | U | NA | | 2.0 | U | 2.0 | U | NA | | NA | | 2.0 | U | NA | |
| Vanadium | NC | 50 | U | NA | | 50 | U | 50 | U | NA | | NA | | 50 | U | NA | |
| Zinc | 2,000 | 50 | U | NA | | 50 | U | 50 | U | NA | | NA | | 50 | U | NA | |

Notes
µg/L - micrograms per liter
J - Estimated value
NC - No criterion
U - Non-detect
Shaded and **bold** results exceed corresponding Class GA Value.
NA - Not analyzed
Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 3
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Metals

| SAMPLE ID: | | LTMW-19-20210916 MS | | LTMW-19-20210916 MSD | | LTMW-21-20210914 | | LTMW-22-20210913 | | LTMW-23-20210916 | | FB-20210913 | | FB-20210915 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-049 | | AD26083-050 | | AD26083-013 | | AD26083-001 | | AD26083-046 | | AD26083-005 | | AD26083-033 | |
| DATE SAMPLE COLLECTED: | | 9/16/2021 | | 9/16/2021 | | 9/14/2021 | | 9/13/2021 | | 9/16/2021 | | 9/13/2021 | | 9/15/2021 | |
| METALS (UNFILTERED) (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| Aluminum | 2,000 | **23,000** | | **32,000** | | 320 | | 200 | U | 200 | U | 200 | U | 200 | U |
| Antimony | 3 | **400** | | **390** | | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U |
| Arsenic | 25 | **460** | | **450** | | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Barium | 1,000 | **800** | | **810** | | 110 | | 50 | U | 53 | | 50 | U | 50 | U |
| Beryllium | 3 | **360** | | **340** | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | UJ | 1.0 | U |
| Cadmium | 5 | **400** | | **390** | | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Calcium | NC | 260,000 | | 280,000 | | 8,800 | | 11,000 | | 12,000 | | 5,000 | U | 5,000 | U |
| Chromium | 50 | **480** | | **500** | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Cobalt | NC | 420 | | 420 | | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Copper | 200 | **480** | | **490** | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Iron | 300 | **40,000** | | **52,000** | | **20,000** | | **1,000** | | **710** | | 300 | U | 300 | U |
| Lead | 25 | **390** | | **390** | | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U |
| Magnesium | 35,000 | **340,000** | | **350,000** | | 5,800 | | 5,000 | U | 5,000 | U | 5,000 | U | 5,000 | U |
| Manganese | 300 | **3,200** | | **3,500** | | **750** | | 41 | | 120 | | 40 | U | 40 | U |
| Mercury | 0.7 | **6.4** | | **6.4** | | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 | UJ | 0.50 | U |
| Nickel | 100 | **500** | | **530** | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Potassium | NC | 160,000 | | 150,000 | | 5,000 | U | 5,000 | U | 27,000 | | 5,000 | U | 5,000 | U |
| Selenium | 10 | **420** | | **420** | | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Silver | 50 | **93** | | **92** | | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U |
| Sodium | 20,000 | **2,800,000** | | **2,700,000** | | 7,400 | | 14,000 | | 29,000 | | 5,000 | U | 5,000 | U |
| Thallium | 0.5 | **390** | | **380** | | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U | 2.0 | U |
| Vanadium | NC | 500 | | 520 | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |
| Zinc | 2,000 | **580** | | **630** | | 50 | U | 50 | U | 50 | U | 50 | U | 50 | U |

| SAMPLE ID: | | LTMW-19-20210916 MS | | LTMW-19-20210916 MSD | | LTMW-21-20210914 | | LTMW-22-20210913 | | LTMW-23-20210916 | | FB-20210913 | | FB-20210915 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-049 | | AD26083-050 | | AD26083-012 | | AD26083-001 | | AD26083-046 | | AD26083-005 | | AD26083-033 | |
| DATE SAMPLE COLLECTED: | | 9/16/2021 | | 9/16/2021 | | 9/14/2021 | | 9/13/2021 | | 9/16/2021 | | 9/13/2021 | | 9/15/2021 | |
| METALS (FILTERED) (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| Aluminum | 2,000 | NA | | NA | | 200 | U | NA | | 200 | U | NA | | NA | |
| Antimony | 3 | NA | | NA | | 3.0 | U | NA | | 3.0 | U | NA | | NA | |
| Arsenic | 25 | NA | | NA | | 2.0 | U | NA | | 2.0 | U | NA | | NA | |
| Barium | 1,000 | NA | | NA | | 84 | | NA | | 50 | U | NA | | NA | |
| Beryllium | 3 | NA | | NA | | 1.0 | U | NA | | 1.0 | U | NA | | NA | |
| Cadmium | 5 | NA | | NA | | 2.0 | U | NA | | 2.0 | U | NA | | NA | |
| Calcium | NC | NA | | NA | | 7,300 | | NA | | 9,100 | | NA | | NA | |
| Chromium | 50 | NA | | NA | | 50 | U | NA | | 50 | U | NA | | NA | |
| Cobalt | NC | NA | | NA | | 2.0 | U | NA | | 2.0 | U | NA | | NA | |
| Copper | 200 | NA | | NA | | 50 | U | NA | | 50 | U | NA | | NA | |
| Iron | 300 | NA | | NA | | **15,000** | | NA | | 300 | U | NA | | NA | |
| Lead | 25 | NA | | NA | | 3.0 | U | NA | | 3.0 | U | NA | | NA | |
| Magnesium | 35,000 | NA | | NA | | 5,000 | U | NA | | 5,000 | U | NA | | NA | |
| Manganese | 300 | NA | | NA | | **570** | | NA | | 40 | U | NA | | NA | |
| Mercury | 0.7 | NA | | NA | | 0.50 | U | NA | | 0.50 | U | NA | | NA | |
| Nickel | 100 | NA | | NA | | 50 | U | NA | | 50 | U | NA | | NA | |
| Potassium | NC | NA | | NA | | 5,000 | U | NA | | 22,000 | | NA | | NA | |
| Selenium | 10 | NA | | NA | | 10 | U | NA | | 10 | U | NA | | NA | |
| Silver | 50 | NA | | NA | | 20 | U | NA | | 20 | U | NA | | NA | |
| Sodium | 20,000 | NA | | NA | | 6,600 | | NA | | 25,000 | | NA | | NA | |
| Thallium | 0.5 | NA | | NA | | 2.0 | U | NA | | 2.0 | U | NA | | NA | |
| Vanadium | NC | NA | | NA | | 50 | U | NA | | 50 | U | NA | | NA | |
| Zinc | 2,000 | NA | | NA | | 50 | U | NA | | 50 | U | NA | | NA | |

Notes
µg/L - micrograms per liter
J - Estimated value
NC - No criterion
U - Non-detect
Shaded and **bold** results exceed corresponding Class GA Value.
NA - Not analyzed
Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 4
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for PCBs

| SAMPLE ID: | | LTMW-1-20210916 | | LTMW-1-20210916-MS | | LTMW-1-20210916-MSD | | LTMW-2-20210916 | | LTMW-3-20210915 | | LTMW-4-20210915 | | LTMW-5A-20210915 | | LTMW-5B-20210914 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-040 | | AD26083-042 | | AD26083-044 | | AD26083-036 | | AD26083-032 | | AD26083-028 | | AD26083-026 | | AD26083-021 | |
| DATE SAMPLE COLLECTED: | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/15/2021 | | 9/15/2021 | | 9/15/2021 | | 9/14/2021 | |
| POLYCHLORINATED BIPHENYLS (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| Aroclor-1016 | NC | 0.25 | U | 4.1 | | 3.8 | | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Aroclor-1221 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Aroclor-1232 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Aroclor-1242 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Aroclor-1248 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Aroclor-1254 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Aroclor-1260 | NC | 0.25 | U | 4.9 | | 4.4 | | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Araclor-1262 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Araclor-1268 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Total PCBs | 0.09 | 0.25 | U | **9.0** | | **8.2** | | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |

Notes
µg/L - micrograms per liter
NC - No criterion
U - Non-detect
Shaded and **bold** results exceed corresponding Class GA Value.
Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 4
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for PCBs

| SAMPLE ID: | | DUP-02-20210914 | | LTMW-6-20210914 | | LTMW-7-20210913 | | LTMW-8-20210913 | | LTMW-9-20210913 | | LTMW-10-20210913 | | LTMW-11-20210913 | | DUP-01-20210913 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-023 | | AD26083-016 | | AD26083-011 | | AD26083-002 | | AD26083-006 | | AD26083-003 | | AD26083-004 | | AD26083-009 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/14/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | |
| POLYCHLORINATED BIPHENYLS (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| Aroclor-1016 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Aroclor-1221 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Aroclor-1232 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Aroclor-1242 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Aroclor-1248 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Aroclor-1254 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Aroclor-1260 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Araclor-1262 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Araclor-1268 | NC | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| Total PCBs | 0.09 | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |

Notes
µg/L - micrograms per liter
NC - No criterion
U - Non-detect
Shaded and **bold** results exceed corresponding Class GA Value.
Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 4
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for PCBs

| SAMPLE ID: | | **LTMW-12-20210914** | | **LTMW-13-20210914** | | **LTMW-15-20210914** | | **LTMW-16-20210915** | | **LTMW-17-20210915** | | **LTMW-18C-20210916** | | **LTMW-18UG-20210916** | | **LTMW-19-20210916** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-014 | | AD26083-018 | | AD26083-019 | | AD26083-30 | | AD26083-027 | | AD26083-035 | | AD26083-038 | | AD26083-048 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/14/2021 | | 9/14/2021 | | 9/15/2021 | | 9/15/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | |
| POLYCHLORINATED BIPHENYLS (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| Aroclor-1016 | NC | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.26 | | 0.26 | U |
| Aroclor-1221 | NC | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.26 | | 0.26 | U |
| Aroclor-1232 | NC | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.26 | | 0.26 | U |
| Aroclor-1242 | NC | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.26 | | 0.26 | U |
| Aroclor-1248 | NC | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.26 | | 0.26 | U |
| Aroclor-1254 | NC | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.26 | | 0.26 | U |
| Aroclor-1260 | NC | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.26 | | 0.26 | U |
| Araclor-1262 | NC | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.26 | | 0.26 | U |
| Araclor-1268 | NC | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.26 | | 0.26 | U |
| Total PCBs | 0.09 | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.26 | | 0.26 | U |

Notes
µg/L - micrograms per liter
NC - No criterion
U - Non-detect
Shaded and **bold** results exceed corresponding Class GA Value.
Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 4
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for PCBs

| SAMPLE ID: | | **LTMW-19-20210916 MS** | | **LTMW-19-20210916 MSD** | | **LTMW-21-20210914** | | **LTMW-22-20210913** | | **LTMW-23-20210916** | | **FB-20210913** | | **FB-20210915** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-049 | | AD26083-050 | | AD26083-013 | | AD26083-001 | | AD26083-046 | | AD26083-005 | | AD26083-33 | |
| DATE SAMPLE COLLECTED: | | 9/16/2021 | | 9/16/2021 | | 9/14/2021 | | 9/13/2021 | | 9/16/2021 | | 9/13/2021 | | 9/15/2021 | |
| POLYCHLORINATED BIPHENYLS (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| Aroclor-1016 | NC | 4.7 | | 5.0 | | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U |
| Aroclor-1221 | NC | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U |
| Aroclor-1232 | NC | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U |
| Aroclor-1242 | NC | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U |
| Aroclor-1248 | NC | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U |
| Aroclor-1254 | NC | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U |
| Aroclor-1260 | NC | 5.2 | | 5.6 | | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U |
| Araclor-1262 | NC | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U |
| Araclor-1268 | NC | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U |
| Total PCBs | 0.09 | **9.9** | | **11** | | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U |

Notes
µg/L - micrograms per liter
NC - No criterion
U - Non-detect
Shaded and **bold** results exceed corresponding Class GA Value.
Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 5
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Pesticides

| SAMPLE ID: | | LTMW-1-20210916 | | LTMW-1-20210916-MS | | LTMW-1-20210916-MSD | | LTMW-2-20210916 | | LTMW-3-20210915 | | LTMW-4-20210915 | | LTMW-5A-20210915 | | LTMW-5B-20210914 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-040 | | AD26083-042 | | AD26083-044 | | AD26083-036 | | AD26083-032 | | AD26083-028 | | AD26083-026 | | AD26083-021 | |
| DATE SAMPLE COLLECTED: | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/15/2021 | | 9/15/2021 | | 9/15/2021 | | 9/14/2021 | |
| PESTICIDES (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| a-Chlordane | 0.05 | 0.010 | U | **0.29** | | **0.34** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Aldrin | ND* | 0.010 | U | **0.36** | | **0.42** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Alpha-BHC | 0.01 | 0.010 | U | **0.25** | | **0.29** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| beta-BHC | 0.04 | 0.010 | U | **0.25** | | **0.28** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Chlordane (Total) | 0.05 | 0.010 | U | **0.58** | | **0.68** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| delta-BHC | 0.04 | 0.010 | U | **0.28** | | **0.31** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Dieldrin | 0.004 | 0.010 | U | **0.34** | | **0.39** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endosulfan I | NC | 0.010 | U | 0.34 | | 0.40 | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endosulfan II | NC | 0.010 | U | 0.33 | | 0.38 | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endosulfan Sulfate | NC | 0.010 | U | 0.34 | | 0.40 | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endrin | ND* | 0.010 | U | **0.35** | | **0.40** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endrin Aldehyde | 5 | 0.010 | U | 0.25 | | 0.27 | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endrin Ketone | 5 | 0.010 | U | 0.31 | | 0.39 | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| gamma-BHC | 0.05 | 0.010 | U | **0.38** | | **0.40** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Heptachlor | 0.04 | 0.010 | U | **0.33** | | **0.39** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Heptachlor Epoxide | 0.03 | 0.010 | U | **0.31** | | **0.36** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Methoxychlor | 35 | 0.014 | U | 0.34 | | 0.42 | | 0.014 | U | 0.014 | U | 0.014 | U | 0.014 | U | 0.014 | U |
| p,p'-DDD | 0.3 | 0.010 | U | **0.37** | | **0.41** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| p,p'-DDE | 0.2 | 0.010 | U | **0.31** | | **0.36** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| p,p'-DDT | 0.2 | 0.010 | U | **0.34** | | **0.38** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Toxaphene | 0.06 | 0.25 | U | 0.25 | U | ND | | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| y-Chlordane | 0.05 | 0.010 | U | **0.29** | | **0.34** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |

Notes
µg/L - micrograms per liter
NC - No criterion
U - Non-detect

ND* - Any detection is considered above the Class GA Stanard

Shaded and **bold** results exceed corresponding Class GA Value.

Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 5
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Pesticides

| SAMPLE ID: | | DUP-02-20210914 | | LTMW-6-20210914 | | LTMW-7-20210913 | | LTMW-8-20210913 | | LTMW-9-20210913 | | LTMW-10-20210913 | | LTMW-11-20210913 | | DUP-01-20210913 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-023 | | AD26083-016 | | AD26083-011 | | AD26083-002 | | AD26083-006 | | AD26083-003 | | AD26083-004 | | AD26083-009 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/14/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | |
| PESTICIDES (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| a-Chlordane | 0.05 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Aldrin | ND* | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Alpha-BHC | 0.01 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| beta-BHC | 0.04 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Chlordane (Total) | 0.05 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| delta-BHC | 0.04 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Dieldrin | 0.004 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endosulfan I | NC | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endosulfan II | NC | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endosulfan Sulfate | NC | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endrin | ND* | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endrin Aldehyde | 5 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endrin Ketone | 5 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| gamma-BHC | 0.05 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Heptachlor | 0.04 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Heptachlor Epoxide | 0.03 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Methoxychlor | 35 | 0.014 | U | 0.014 | U | 0.014 | U | 0.014 | U | 0.014 | U | 0.014 | U | 0.014 | U | 0.014 | U |
| p,p'-DDD | 0.3 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| p,p'-DDE | 0.2 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| p,p'-DDT | 0.2 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Toxaphene | 0.06 | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U |
| y-Chlordane | 0.05 | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |

Notes
µg/L - micrograms per liter
NC - No criterion
U - Non-detect

ND* - Any detection is considered above the Class GA Stanard

Shaded and **bold** results exceed corresponding Class GA Value.

Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 5
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Pesticides

| SAMPLE ID: | | LTMW-12-20210914 | | LTMW-13-20210914 | | LTMW-15-20210914 | | LTMW-16-20210915 | | LTMW-17-20210915 | | LTMW-18C-20210916 | | LTMW-18UG-20210916 | | LTMW-19-20210916 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-014 | | AD26083-018 | | AD26083-019 | | AD26083-30 | | AD26083-027 | | AD26083-035 | | AD26083-038 | | AD26083-048 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/14/2021 | | 9/14/2021 | | 9/15/2021 | | 9/15/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | |
| PESTICIDES (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| a-Chlordane | 0.05 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Aldrin | ND* | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Alpha-BHC | 0.01 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| beta-BHC | 0.04 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Chlordane (Total) | 0.05 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| delta-BHC | 0.04 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Dieldrin | 0.004 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endosulfan I | NC | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endosulfan II | NC | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endosulfan Sulfate | NC | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endrin | ND* | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endrin Aldehyde | 5 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endrin Ketone | 5 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| gamma-BHC | 0.05 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Heptachlor | 0.04 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Heptachlor Epoxide | 0.03 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Methoxychlor | 35 | 0.014 | U | 0.014 | U | 0.015 | U | 0.015 | U | 0.014 | U | 0.014 | U | 0.015 | U | 0.015 | U |
| p,p'-DDD | 0.3 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| p,p'-DDE | 0.2 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| p,p'-DDT | 0.2 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Toxaphene | 0.06 | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.26 | U | 0.26 | U |
| y-Chlordane | 0.05 | 0.010 | U | 0.010 | U | 0.011 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |

Notes
µg/L - micrograms per liter
NC - No criterion
U - Non-detect

ND* - Any detection is considered above the Class GA Stanard

Shaded and **bold** results exceed corresponding Class GA Value.

Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 5
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Pesticides

| SAMPLE ID: | | LTMW-19-20210916 MS | | LTMW-19-20210916 MSD | | LTMW-21-20210914 | | LTMW-22-20210913 | | LTMW-23-20210916 | | FB-20210913 | | FB-20210915 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-049 | | AD26083-050 | | AD26083-013 | | AD26083-001 | | AD26083-046 | | AD26083-005 | | AD26083-033 | |
| DATE SAMPLE COLLECTED: | | 9/16/2021 | | 9/16/2021 | | 9/14/2021 | | 9/13/2021 | | 9/16/2021 | | 9/13/2021 | | 9/15/2021 | |
| PESTICIDES (µg/L) | Class GA Value (µg/L) | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | | Results (µg/L) | |
| a-Chlordane | 0.05 | **0.39** | | **0.40** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Aldrin | ND* | **0.37** | | **0.36** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Alpha-BHC | 0.01 | **0.33** | | **0.31** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| beta-BHC | 0.04 | **0.35** | | **0.35** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Chlordane (Total) | 0.05 | **0.78** | | **0.79** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| delta-BHC | 0.04 | **0.37** | | **0.36** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Dieldrin | 0.004 | **0.42** | | **0.44** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endosulfan I | NC | 0.42 | | 0.43 | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endosulfan II | NC | 0.44 | | 0.43 | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endosulfan Sulfate | NC | 0.45 | | 0.45 | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endrin | ND* | **0.42** | | **0.44** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endrin Aldehyde | 5 | 0.42 | | 0.44 | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Endrin Ketone | 5 | 0.41 | | 0.40 | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| gamma-BHC | 0.05 | **0.36** | | **0.35** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Heptachlor | 0.04 | **0.33** | | **0.34** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Heptachlor Epoxide | 0.03 | **0.40** | | **0.39** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Methoxychlor | 35 | 0.41 | | 0.42 | | 0.014 | U | 0.014 | U | 0.015 | U | 0.014 | U | 0.014 | U |
| p,p'-DDD | 0.3 | **0.47** | | **0.47** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| p,p'-DDE | 0.2 | **0.41** | | **0.40** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| p,p'-DDT | 0.2 | **0.39** | | **0.40** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |
| Toxaphene | 0.06 | 0.25 | U | 0.25 | U | 0.25 | U | 0.25 | U | 0.26 | U | 0.25 | U | 0.25 | U |
| γ-Chlordane | 0.05 | **0.39** | | **0.39** | | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U | 0.010 | U |

Notes
µg/L - micrograms per liter
NC - No criterion
U - Non-detect

ND* - Any detection is considered above the Class GA Stanard
Shaded and **bold** results exceed corresponding Class GA Value.

Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913
Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 6
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Wet Chemistry Compounds

| SAMPLE ID: | | LTMW-1-20210916 | | LTMW-1-20210916-MS | | LTMW-1-20210916-MSD | | LTMW-2-20210916 | | LTMW-3-20210915 | | LTMW-4-20210915 | | LTMW-5A-20210915 | | LTMW-5B-20210914 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-040 | | AD26083-042 | | AD26083-044 | | AD26083-036 | | AD26083-032 | | AD26083-028 | | AD26083-026 | | AD26083-021 | |
| DATE SAMPLE COLLECTED: | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | | 9/15/2021 | | 9/15/2021 | | 9/15/2021 | | 9/14/2021 | |
| WET CHEMISTRY (µg/L) | Class GA Value (µg/L) | Results | | Results | | Results | | Results | | Results | | Results | | Results | | Results | |
| Alkalinity (mg/L as CaCO3) | NC | 1,900,000 | | NA | | NA | | 200,000 | | 510,000 | | 100,000 | | 140,000 | | 180,000 | |
| Ammonia (µg/L) | 2,000 | **97,000** | | **150,000** | | **160,000** | | 1,000 | U | 1,900 | | 1,000 | U | 1,000 | U | 1,000 | U |
| Bromide (µg/L) | 2,000 | **10,000** | | **16,000** | | **15,000** | | **22,000** | | **32,000** | | **3,200** | | 1,000 | U | 1,000 | U |
| Chloride (µg/L) | 250,000 | **1,900,000** | | **1,900,000** | | **2,000,000** | | **6,800,000** | | **10,000,000** | | **980,000** | | 120,000 | | 10,000 | |
| Cyanide (µg/L) | 200 | 20 | U | **330** | | **360** | | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U |
| Hardness (mg/L as CaCO3) | NC | 870,000 | | 1,200,000 | | 1,200,000 | | 4,100,000 | | 3,800,000 | | 880,000 | | 200,000 | | 140,000 | |
| Nitrate (µg/L) | 10,000 | 1,000 | U | 5,300 | | 5,000 | | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U |
| pH Endpoint (pH) | NC | 4.5(pH) | | NA | | NA | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | |
| Sulfate (µg/L) | 250,000 | 2,000 | U | 6,000 | | 5,600 | | **580,000** | | **980,000** | | 11,000 | | 13,000 | | 9,500 | |
| Total Dissolved Solids (µg/L) | NC | 4,700,000 | | NA | | NA | | 19,000,000 | | 18,000,000 | | 2,800,000 | | 400,000 | | 250,000 | |
| Total Organic Carbon (µg/L) | NC | 88,000 | | 130,000 | | 130,000 | | 5,000 | U | 8,800 | | 5,000 | U | 5,000 | U | 5,000 | U |

Notes
µg/L - micrograms per liter
NC - No criterion
U - Non-detect
NA - Not analyzed
Shaded and **bold** results
exceed corresponding Class GA Value.

Sample DUP-01-20210913 is a duplicate
of LTMW-11-20210913

Sample DUP-02-20210914 is a duplicate
of LTMW-5B-20210914

Table 6
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Wet Chemistry Compounds

| SAMPLE ID: | | DUP-02-20210914 | | LTMW-6-20210914 | | LTMW-7-20210913 | | LTMW-8-20210913 | | LTMW-9-20210913 | | LTMW-10-20210913 | | LTMW-11-20210913 | | DUP-01-20210913 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-023 | | AD26083-016 | | AD26083-011 | | AD26083-002 | | AD26083-006 | | AD26083-003 | | AD26083-004 | | AD26083-009 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/14/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | | 9/13/2021 | |
| WET CHEMISTRY (µg/L) | Class GA Value (µg/L) | Results | | Results | | Results | | Results | | Results | | Results | | Results | | Results | |
| Alkalinity (mg/L as CaCO3) | NC | 180,000 | | 200,000 | | 200,000 | | 1,400,000 | | 210,000 | | 220,000 | | 360,000 | | 360,000 | |
| Ammonia (µg/L) | 2,000 | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U |
| Bromide (µg/L) | 2,000 | 1,000 | U | 1,000 | U | 1,000 | U | **5,600** | | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U |
| Chloride (µg/L) | 250,000 | 9,700 | | 6,600 | | 73,000 | | **940,000** | | 26,000 | | 51,000 | | 170,000 | | 160,000 | |
| Cyanide (µg/L) | 200 | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U |
| Hardness (mg/L as CaCO3) | NC | 130,000 | | 150,000 | | 260,000 | | 790,000 | | 250,000 | | 290,000 | | 590,000 | | 580,000 | |
| Nitrate (µg/L) | 10,000 | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U |
| pH Endpoint (pH) | NC | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | |
| Sulfate (µg/L) | 250,000 | 9,300 | | 6,100 | | 25,000 | | 32,000 | | 34,000 | | 41,000 | | 110,000 | | 100,000 | |
| Total Dissolved Solids (µg/L) | NC | 230,000 | | 220,000 | | 410,000 | | 3,000,000 | | 360,000 | | 380,000 | | 840,000 | | 790,000 | |
| Total Organic Carbon (µg/L) | NC | 5,000 | U | 5,000 | U | 5,000 | U | 29,000 | | 5,000 | U | 5,000 | U | 5,000 | U | 5,000 | U |

Notes
µg/L - micrograms per liter
NC - No criterion
U - Non-detect
NA - Not analyzed
Shaded and **bold** results exceed corresponding Class GA Value.

Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913

Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 6
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Wet Chemistry Compounds

| SAMPLE ID: | | LTMW-12-20210914 | | LTMW-13-20210914 | | LTMW-15-20210914 | | LTMW-16-20210915 | | LTMW-17-20210915 | | LTMW-18C-20210916 | | LTMW-18UG-20210916 | | LTMW-19-20210916 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-014 | | AD26083-018 | | AD26083-019 | | AD26083-30 | | AD26083-027 | | AD26083-035 | | AD26083-038 | | AD26083-048 | |
| DATE SAMPLE COLLECTED: | | 9/14/2021 | | 9/14/2021 | | 9/14/2021 | | 9/15/2021 | | 9/15/2021 | | 9/16/2021 | | 9/16/2021 | | 9/16/2021 | |
| WET CHEMISTRY (µg/L) | Class GA Value (µg/L) | Results | | Results | | Results | | Results | | Results | | Results | | Results | | Results | |
| Alkalinity (mg/L as CaCO3) | NC | 150,000 | | 200,000 | | 300,000 | | 170,000 | | 380,000 | | 75,000 | | 48,000 | | 800,000 | |
| Ammonia (µg/L) | 2,000 | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | **5,600** | |
| Bromide (µg/L) | 2,000 | 1,000 | U | 1,000 | U | **2,900** | | 1,000 | U | 1,000 | U | 1,400 | | 1,000 | U | **19,000** | |
| Chloride (µg/L) | 250,000 | 100,000 | | 72,000 | | **910,000** | | 49,000 | | **320,000** | | **480,000** | | 33,000 | | **4,900,000** | |
| Cyanide (µg/L) | 200 | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U | 20 | U | 29 | | 22 | |
| Hardness (mg/L as CaCO3) | NC | 89,000 | | 99,000 | | 260,000 | | 43,000 | | 44,000 | | 140,000 | | 76,000 | | 1,500,000 | |
| Nitrate (µg/L) | 10,000 | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U |
| pH Endpoint (pH) | NC | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | |
| Sulfate (µg/L) | 250,000 | 48,000 | | 15,000 | | 93,000 | | 19,000 | | 73,000 | | 96,000 | | 5,500 | | 240,000 | |
| Total Dissolved Solids (µg/L) | NC | 430,000 | | 380,000 | | 1,800,000 | | 330,000 | | 1,100,000 | | 1,100,000 | | 160,000 | | 9,900,000 | |
| Total Organic Carbon (µg/L) | NC | 5,000 | U | 5,000 | U | 5,000 | U | 5,000 | U | 9,600 | | 5,000 | U | 5,000 | U | 19,000 | |

Notes
µg/L - micrograms per liter
NC - No criterion
U - Non-detect
NA - Not analyzed
Shaded and **bold** results exceed corresponding Class GA Value.

Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913

Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 6
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Summary of Groundwater Sampling Analytical Results for Wet Chemistry Compounds

| SAMPLE ID: | | LTMW-19-20210916 MS | | LTMW-19-20210916 MSD | | LTMW-21-20210914 | | LTMW-22-20210913 | | LTMW-23-20210916 | | FB-20210913 | | FB-20210915 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LABORATORY SAMPLE ID: | | AD26083-049 | | AD26083-050 | | AD26083-013 | | AD26083-001 | | AD26083-046 | | AD26083-005 | | AD26083-33 | |
| DATE SAMPLE COLLECTED: | | 9/16/2021 | | 9/16/2021 | | 9/14/2021 | | 9/13/2021 | | 9/16/2021 | | 9/13/2021 | | 9/15/2021 | |
| WET CHEMISTRY (µg/L) | Class GA Value (µg/L) | Results | | Results | | Results | | Results | | Results | | Results | | Results | |
| Alkalinity (mg/L as CaCO3) | NC | NA | | NA | | 59,000 | | 36,000 | | 130,000 | | 5,000 | U | 5,000 | U |
| Ammonia (µg/L) | 2,000 | **47,000** | | **48,000** | | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U |
| Bromide (µg/L) | 2,000 | **23,000** | | **32,000** | | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U |
| Chloride (µg/L) | 250,000 | **5,600,000** | | **8,600,000** | | 6,600 | | 17,000 | | 3,400 | | 2,000 | U | 2,000 | U |
| Cyanide (µg/L) | 200 | **350** | | **350** | | 20 | U | 20 | U | 20 | U | 20 | U | 36 | |
| Hardness (mg/L as CaCO3) | NC | 2,000,000 | | 2,200,000 | | 46,000 | | 6,600 | U | 38,000 | | 6,600 | U | 6,600 | U |
| Nitrate (µg/L) | 10,000 | 8,100 | | 5,100 | | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U | 1,000 | U |
| pH Endpoint (pH) | NC | NA | | NA | | 4.5(pH) | | 4.5(pH) | | 4.5(pH) | | 4.2(pH) | | 4.2(pH) | |
| Sulfate (µg/L) | 250,000 | **320,000** | | **920,000** | | 2,000 | U | 55,000 | | 15,000 | | 2,000 | U | 2,000 | U |
| Total Dissolved Solids (µg/L) | NC | NA | | NA | | 92,000 | | 100,000 | | 96,000 | | 40,000 | U | 40,000 | U |
| Total Organic Carbon (µg/L) | NC | 65,000 | | 61,000 | | 5,000 | U | 5,000 | U | 5,000 | U | 5,000 | U | 5,000 | U |

Notes
µg/L - micrograms per liter
NC - No criterion
U - Non-detect
NA - Not analyzed
Shaded and **bold** results exceed corresponding Class GA Value.

Sample DUP-01-20210913 is a duplicate of LTMW-11-20210913

Sample DUP-02-20210914 is a duplicate of LTMW-5B-20210914

Table 7
New York City Parks and Recreation
Brookfield Avenue Landfill
Staten Island, New York
Depth to Groundwater

| Monitoring Wells | Depth to Groundwater (ft) |
|---|---|
| LTMW-1 | 13.90 |
| LTMW-2 | 11.24 |
| LTMW-3 | 11.16 |
| LTMW-4 | 10.97 |
| LTMW-5A | 8.65 |
| LTMW-5B | 8.22 |
| LTMW-6 | 8.84 |
| LTMW-7 | 8.26 |
| LTMW-8 | 9.12 |
| LTMW-9 | 9.96 |
| LTMW-10 | 8.19 |
| LTMW-11 | 9.62 |
| LTMW-12 | 6.91 |
| LTMW-13 | 9.08 |
| LTMW-14 | ABANDONED |
| LTMW-15 | 10.87 |
| LTMW-16 | 9.50 |
| LTMW-17 | 7.60 |
| LTMW-18C | 6.63 |
| LTMW-18UG | 6.09 |
| LTMW-19 | 7.06 |
| LTMW-20 | INACCESSIBLE |
| LTMW-21 | 7.52 |
| LTMW-22 | 11.86 |
| LTMW-23 | 17.50 |

Notes:

*measurements collected on September 10, 2021 prior to purging activities

# APPENDIX A

# GROUNDWATER SAMPLING LOGS

TRC

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/16/2021 | 1 of 1 |

**TRC Personnel**

Karyn Treinen

## Well Identification No.: LTMW-1

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 1.88 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | |
|---|---|
| X | PVC |
| | SS |
| | |

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| **Well Depth (ft):** | 40.05 |
| **Depth to Water (ft):** | 19.22 |

**Depth of pump intake (ft.)**: 20 feet

Height of water column (ft.): 25.96

| | |
|---|---|
| **Volume of Water in Well (gal):** | 4.2 |
| Total Gallons Purged: | 3.0 |

[Vol. = $r^2h(0.163)$]

**Reference Point:**

| | | | |
|---|---|---|---|
| | | | historic |
| | | X | measured |
| X | top of riser | | notch |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

| | |
|---|---|
| **Depth to NAPL (ft.):** | N/A |
| **Thickness of NAPL (ft.):** | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 10:15 | 10:20 | 10:25 | 10:30 | 10:35 | 10:40 | 10:45 | 10:50 | 10:55 | 11:00 |
| **Temp**. (C.) - (±10%) | 18.21 | 16.93 | 16.62 | 16.64 | 16.61 | 16.50 | 16.75 | 17.09 | 17.06 | 17.06 |
| **pH** (Std.Units) - (± 0.1) | 7.72 | 7.72 | 7.71 | 7.70 | 7.70 | 7.69 | 7.68 | 7.65 | 7.6 | 7.63 |
| **ORP** (millivolts) - (± 10) | 142 | 139 | 134 | 131 | 129 | 129 | 131 | 133 | 134 | 133 |
| **Conduct**.(mS/cm) - (±3%) | 6.91 | 6.88 | 6.85 | 6.85 | 6.85 | 6.85 | 6.82 | 6.81 | 6.82 | 6.89 |
| **Turb**. (NTU) - (± 10%) | 47 | 46.3 | 46.2 | 38.7 | 31.1 | 30.5 | 33.6 | 36 | 35.4 | 30.3 |
| **DO** (mg/L) - (± 10%) | 1.08 | 0.31 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Flow** (ml/min) | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| **Depth to water** (ft) | 14.46 | 14.48 | 14.49 | 14.51 | 14.62 | 14.77 | 14.89 | 15 | 15.02 | 15.03 |
| **Comments** | | | | | | | | | | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 11:05 | 11:10 | | | | | | | | |
| **Temp**. (C.) - (±10%) | 17.10 | 17.12 | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | 7.64 | 7.65 | | | | | | | | |
| **ORP** (millivolts) - (± 10) | 130 | 130 | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | 6.90 | 6.89 | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | 29.8 | 30 | | | | | | | | |
| **DO** (mg/L) - (± 10%) | 0.00 | 0.00 | | | | | | | | |
| **Flow** (ml/min) | 200 | 200 | | | | | | | | |
| **Depth to water** (ft) | 15.04 | 15.03 | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V Battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 11:10 | LTMW-1-20210916 |
| | | | | | MS/MSD samples |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

TAL Metals (filtered) - 1 x 500ml HNO3 Plastic; Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/16/2021 | 1 of 1 |

**TRC Personnel**

Karyn Treinen

## Well Identification No.: LTMW-2

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 1.92 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | | |
|---|---|---|
| X | | |
| PVC | SS | |

| | |
|---|---|
| **Well Depth (ft):** | 38.62 |
| **Depth to Water (ft):** | 11.43 |

**Reference Point:**

| | | | |
|---|---|---|---|
| | | | historic |
| X | | | measured |
| X | top of riser | | notch |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |

**Depth of pump intake (ft.)**: 17 feet

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

Height of water column (ft.): 27.19

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| **Volume of Water in Well (gal):** | 4.4 |
| Total Gallons Purged: | ~3 |

[Vol. = $r^2h(0.163)$]

| | |
|---|---|
| **Depth to NAPL (ft.):** | N/A |
| **Thickness of NAPL (ft.):** | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 8:30 | 8:35 | 8:40 | 8:45 | 8:50 | 8:55 | 9:00 | 9:05 | 9:10 | 9:15 |
| **Temp**. (C.) - (±10%) | 15.62 | 15.58 | 15.44 | 15.44 | 15.65 | 15.88 | 15.93 | 15.90 | 15.86 | 15.90 |
| **pH** (Std.Units) - (± 0.1) | 7.73 | 7.69 | 7.54 | 7.35 | 7.27 | 7.20 | 7.18 | 7.16 | 7.14 | 7.12 |
| **ORP** (millivolts) - (± 10) | -20 | -48 | -48 | -48 | -47 | -47 | -46 | -45 | -44 | -44 |
| **Conduct**.(mS/cm) - (±3%) | 21.2 | 20.4 | 20.3 | 20.3 | 20.3 | 20.4 | 20.5 | 20.6 | 20.6 | 10.3 |
| **Turb**. (NTU) - (± 10%) | 330 | 265 | 260 | 286 | 300 | 236 | 232 | 227 | 205 | 146 |
| **DO** (mg/L) - (± 10%) | 0.58 | 0.41 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Flow** (ml/min) | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| **Depth to water** (ft) | 11.43 | 11.44 | 11.48 | 11.49 | 11.51 | 11.52 | 11.54 | 11.58 | 11.61 | 11.61 |
| **Comments** | | | | | | | | | | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 9:20 | 9:25 | 9:30 | | | | | | | |
| **Temp**. (C.) - (±10%) | 16.99 | 15.49 | 14.93 | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | 7.12 | 7.13 | 7.11 | | | | | | | |
| **ORP** (millivolts) - (± 10) | -44 | -43 | -44 | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | 20.3 | 20.5 | 20.500 | | | | | | | |
| **Turb**. (NTU) - (± 10%) | 129 | 125 | 120 | | | | | | | |
| **DO** (mg/L) - (± 10%) | 0.00 | 0.00 | 0.00 | | | | | | | |
| **Flow** (ml/min) | 200 | 200 | 200.00 | | | | | | | |
| **Depth to water** (ft) | 11.62 | 11.61 | 11.62 | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V Battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | Y | | | 9:25 | LTMW-2-20210916 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

TAL Metals (filtered) - 1 x 500ml HNO3 Plastic; Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/15/2021 | 1 of 1 |

**TRC Personnel**

Karyn Treinen/ Charles Lambert

## Well Identification No.: LTMW-3

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 2.08 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | |
|---|---|
| X | PVC |
| | SS |
| | |

| | |
|---|---|
| **Well Depth (ft):** | 37.90 |
| **Depth to Water (ft):** | 11.04 |

**Reference Point:**

| | | | |
|---|---|---|---|
| | top of riser | | historic |
| X | top of casing | X | measured |
| | bgs | | notch |
| | | | north side |
| | | | high point |
| | | | pen mark |

**Depth of pump intake (ft.)**: 20 feet

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

Height of water column (ft.): 26.86

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| **Volume of Water in Well (gal):** | 4.4 |
| Total Gallons Purged: | 3 |

[Vol. = $r^2h(0.163)$]

| | |
|---|---|
| **Depth to NAPL (ft.):** | N/A |
| **Thickness of NAPL (ft.):** | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 12:25 | 12:30 | 12:35 | 12:40 | 12:45 | 12:50 | 12:55 | 13:00 | | |
| **Temp**. (C.) - (±10%) | 17.28 | 17.17 | 16.93 | 16.94 | 17.13 | 17.21 | 17.20 | 17.22 | | |
| **pH** (Std.Units) - (± 0.1) | 7.46 | 7.32 | 7.06 | 6.97 | 6.96 | 6.95 | 6.94 | 6.94 | | |
| **ORP** (millivolts) - (± 10) | 110 | 114 | 84 | -79 | -90 | -92 | -92 | -92 | | |
| **Conduct**.(mS/cm) - (±3%) | 27.1 | 28.1 | 28.4 | 27.3 | 28.9 | 30.0 | 30.1 | 30.2 | | |
| **Turb**. (NTU) - (± 10%) | 76 | 13 | 3.2 | 5.7 | 2.2 | 2.1 | 2.0 | 1.9 | | |
| **DO** (mg/L) - (± 10%) | 1.61 | 0.40 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 | 0.00 | | |
| **Flow** (ml/min) | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | | |
| **Depth to water** (ft) | 11.04 | 11.05 | 11.07 | 11.08 | 11.10 | 11.11 | 11.12 | 11.14 | | |
| **Comments** | | | | | | | | | | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample |
|---|---|---|
| Peristaltic Pump | X | X |
| Submersible Pump | | |
| Bladder Pump | | |
| Bailer: | | |

**Description of Sampling Equipment**

- PID Minirae 3000
- HORIBA- U-52
- Solinist Interface Probe
- Peristaltic Pump with 12V Battery

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 13:00 | LTMW-3-20210915 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/15/2021 | 1 of 1 |

**TRC Personnel:** Karyn Treinen/Charles Lambert

## Well Identification No.: LTMW-4

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 2.08 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

X PVC | | SS

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| **Well Depth (ft):** | 59.59 |
| **Depth to Water (ft):** | 10.51 |

**Reference Point:**

| | | | |
|---|---|---|---|
| | | | historic |
| | | X | measured |
| X | top of riser | | notch |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |

**Depth of pump intake (ft.):** 37

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

Height of water column (ft.): 49.08

| | |
|---|---|
| **Volume of Water in Well (gal):** | 8.0 |
| Total Gallons Purged: | ~7.5 |
| [Vol. = $r^2h(0.163)$] | |

| | |
|---|---|
| **Depth to NAPL (ft.):** | N/A |
| **Thickness of NAPL (ft.):** | |

## FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 10:35 | 10:40 | 10:45 | 10:50 | 10:55 | 11:00 | 11:05 | 11:10 | 11:15 | 11:20 |
| **Temp**. (C.) - (±10%) | 18.74 | 18.76 | 17.12 | 16.73 | 16.73 | 16.00 | 15.99 | 15.97 | 15.94 | 15.91 |
| **pH** (Std.Units) - (± 0.1) | 8.16 | 8.17 | 8.11 | 8.09 | 8.08 | 8.04 | 8.04 | 8.03 | 8.03 | 8.04 |
| **ORP** (millivolts) - (± 10) | -130 | -135 | -144 | -144 | -134 | -118 | -117 | -115 | -114 | -113 |
| **Conduct**.(mS/cm) - (±3%) | 2.68 | 2.69 | 2.76 | 2.77 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.750 |
| **Turb**. (NTU) - (± 10%) | 0.0 | 0.0 | 0.0 | 0.0 | 601 | 480 | 457 | 461 | 334 | 257 |
| **DO** (mg/L) - (± 10%) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 |
| **Flow** (ml/min) | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| **Depth to water** (ft) | 10.51 | 10.54 | 10.55 | 10.54 | 10.56 | 10.57 | 10.58 | 10.60 | 10.60 | 10.61 |
| **Comments** | | | | | | | | | | |

## FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 11:25 | 11:30 | 11:35 | | | | | | | |
| **Temp**. (C.) - (±10%) | 15.82 | 15.86 | 15.81 | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | 8.05 | 8.06 | 8.07 | | | | | | | |
| **ORP** (millivolts) - (± 10) | -112 | -112 | -112 | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | 2.75 | 2.74 | 2.75 | | | | | | | |
| **Turb**. (NTU) - (± 10%) | 222 | 221 | 202 | | | | | | | |
| **DO** (mg/L) - (± 10%) | 0.13 | 0.16 | 0.18 | | | | | | | |
| **Flow** (ml/min) | 200 | 200 | 200 | | | | | | | |
| **Depth to water** (ft) | 10.61 | 10.61 | 10.61 | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample |
|---|---|---|
| Peristaltic Pump | | |
| Submersible Pump | | |
| Bladder Pump | X | X |
| Bailer: | | |

**Description of Sampling Equipment**

- PID Minirae 3000
- HORIBA- U-52
- Solinist Interface Probe
- Bladder Pump with QED MP 50 Controller

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 11:35 | LTMW-4-202010915 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

TAL Metals (filtered) - 1 x 500ml HNO3 Plastic; Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/15/2021 | 1 of 1 |

**TRC Personnel:** Charles Lambert/Karyn Treinen

## Well Identification No.: LTMW-5a

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 1.96 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | | |
|---|---|---|
| X | | |
| PVC | SS | |

| | |
|---|---|
| Well Depth (ft): | 38.47 |
| Depth to Water (ft): | 8.51 |

**Reference Point:**

| | | | |
|---|---|---|---|
| X | top of riser | | historic |
| | top of casing | X | measured |
| | bgs | | notch |
| | | | north side |
| | | | high point |
| | | | pen mark |

**Depth of pump intake (ft.):** 23 feet

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

Height of water column (ft.): 29.96

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| Volume of Water in Well (gal): | 4.9 |
| Total Gallons Purged: | 5 |

[Vol. = $r^2h(0.163)$]

| | |
|---|---|
| Depth to NAPL (ft.): | N/A |
| Thickness of NAPL (ft.): | |

## FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 8:35 | 8:40 | 8:45 | 8:50 | 8:55 | 9:00 | 9:05 | 9:10 | 9:15 | 9:20 |
| **Temp**. (C.) - (±10%) | 18.82 | 17.85 | 17.26 | 16.71 | 17.00 | 17.05 | 17.07 | 16.61 | 16.91 | 16.65 |
| **pH** (Std.Units) - (± 0.1) | 7.94 | 7.97 | 7.96 | 7.95 | 7.96 | 7.97 | 8 | 8.02 | 8.04 | 8.04 |
| **ORP** (millivolts) - (± 10) | 157 | 161 | 165 | 168 | 170 | 170 | 171 | 172 | 173 | 172 |
| **Conduct**.(mS/cm) - (±3%) | 0.423 | 0.424 | 0.428 | 0.427 | 0.419 | 0.418 | 0.421 | 0.423 | 0.423 | 0.426 |
| **Turb**. (NTU) - (± 10%) | 83 | 20 | 22 | 14 | 11.8 | 10.6 | 11.9 | 12.2 | 8.9 | 9.8 |
| **DO** (mg/L) - (± 10%) | 8.94 | 8.22 | 7.62 | 6.78 | 6.49 | 6.00 | 5.70 | 4.28 | 7.54 | 7.46 |
| **Flow** (ml/min) | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| **Depth to water** (ft) | 8.51 | 8.53 | 8.54 | 8.55 | 8.57 | 8.58 | 8.62 | 8.65 | 8.67 | 8.7 |
| **Comments** | | | | | | | | | | |

## FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 9:25 | 9:30 | 9:35 | | | | | | | |
| **Temp**. (C.) - (±10%) | 16.71 | 16.81 | 16.91 | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | 8.05 | 8.07 | 8.08 | | | | | | | |
| **ORP** (millivolts) - (± 10) | 173 | 173 | 173 | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | 0.423 | 0.422 | 0.424 | | | | | | | |
| **Turb**. (NTU) - (± 10%) | 8.4 | 7.1 | 7 | | | | | | | |
| **DO** (mg/L) - (± 10%) | 6.89 | 6.50 | 6.25 | | | | | | | |
| **Flow** (ml/min) | 200 | 200 | 200.00 | | | | | | | |
| **Depth to water** (ft) | 8.73 | 8.74 | 8.76 | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample |
|---|---|---|
| Peristaltic Pump | X | X |
| Submersible Pump | | |
| Bladder Pump | | |
| Bailer: | | |

**Description of Sampling Equipment**

- PID Minirae 3000
- HORIBA- U-52
- Solinist Interface Probe
- Peristaltic Pump with 12V Battery

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 9:35 | LTMW-5A-20210915 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/14/2021 | 1 of 1 |

**TRC Personnel:** Charles Lambert/Karyn Treinen

## Well Identification No.: LTMW-5B

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 2.04 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | | |
|---|---|---|
| X | | |
| PVC | SS | |

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| Well Depth (ft): | 57.23 |
| Depth to Water (ft): | 8.55 |
| Depth of pump intake (ft.) | 41 |
| Height of water column (ft.): | 48.68 |
| Volume of Water in Well (gal): | 7.9 |
| Total Gallons Purged: | 7 |

[Vol. = $r^2h(0.163)$]

**Reference Point:**

| | | | |
|---|---|---|---|
| | historic | | |
| X | measured | | |
| | notch | | top of riser |
| | north side | X | top of casing |
| | high point | | bgs |
| | pen mark | | |

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

| | |
|---|---|
| Depth to NAPL (ft.): | N/A |
| Thickness of NAPL (ft.): | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 11:55 | 12:00 | 12:05 | 12:10 | 12:15 | 12:20 | 12:25 | 12:30 | 12:35 | 12:40 |
| **Temp**. (C.) - (±10%) | 16.62 | 18.58 | 19.18 | 19.45 | 19.52 | 19.51 | 19.41 | 19.24 | 19.15 | 19.06 |
| **pH** (Std.Units) - (± 0.1) | 7.68 | 7.49 | 7.50 | 7.53 | 7.55 | 7.62 | 7.67 | 7.70 | 7.72 | 7.73 |
| **ORP** (millivolts) - (± 10) | -15 | 23 | 27 | 12 | -5 | -57 | -75 | -81 | -87 | -89 |
| **Conduct**.(mS/cm) - (±3%) | 0.257 | 0.260 | 0.259 | 0.260 | 0.260 | 0.263 | 0.264 | 0.264 | 0.265 | 0.264 |
| **Turb**. (NTU) - (± 10%) | 724.0 | 800.0 | 778.0 | 642 | 576 | 359 | 279 | 261 | 225 | 225 |
| **DO** (mg/L) - (± 10%) | 1.47 | 1.04 | 0.69 | 0.46 | 0.37 | 0.92 | 0.17 | 0.14 | 0.11 | 0.08 |
| **Flow** (ml/min) | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| **Depth to water** (ft) | 8.55 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.6 |
| **Comments** | | | | | | | | | | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | | | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | X | X | Solinist Interface Probe |
| Bailer: | | | Bladder Pump with QED MP 50 Controller |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 12:55 | LTMW-5B-20210914 |
| | | | | 13:00 | DUP-02-20210914 |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

TAL Metals (filtered) - 1 x 500ml HNO3 Plastic; Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/14/2021 | 1 of 1 |

**TRC Personnel:** Charles Lambert/Karyn Treinen

## Well Identification No.: LTMW-6

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 1.94 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | |
|---|---|
| X | PVC |
| | SS |
| | |

| | |
|---|---|
| Well Depth (ft): | 39.65 |
| Depth to Water (ft): | 9.23 |

**Reference Point:**

| | | | |
|---|---|---|---|
| | | | historic |
| | | X | measured |
| X | top of riser | | notch |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |

**Depth of pump intake (ft.):** 23

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

Height of water column (ft.): 30.42

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| Volume of Water in Well (gal): | 5.0 |
| Total Gallons Purged: | 3.0 |

[Vol. = $r^2h(0.163)$]

| | |
|---|---|
| Depth to NAPL (ft.): | N/A |
| Thickness of NAPL (ft.): | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 10:00 | 10:05 | 10:10 | 10:15 | 10:20 | 10:25 | 10:30 | 10:35 | 10:40 | |
| **Temp**. (C.) - (±10%) | 21.31 | 21.11 | 20.95 | 20.92 | 21.20 | 21.13 | 20.99 | 20.92 | 21.00 | |
| **pH** (Std.Units) - (± 0.1) | 6.58 | 7.01 | 7.29 | 7.33 | 7.4 | 7.44 | 7.48 | 7.52 | 7.55 | |
| **ORP** (millivolts) - (± 10) | -95 | -90 | -87 | -84 | -72 | -69 | -66 | -62 | -60 | |
| **Conduct**.(mS/cm) - (±3%) | 0.240 | 2.330 | 0.228 | 0.225 | 0.224 | 0.218 | 0.223 | 0.222 | 0.220 | |
| **Turb**. (NTU) - (± 10%) | 32.7 | 26.4 | 16 | 13 | 11.3 | 12.6 | 12.7 | 12.3 | 12.9 | |
| **DO** (mg/L) - (± 10%) | 1.18 | 0.80 | 0.28 | 2.89 | 1.37 | 0.75 | 0.70 | 0.73 | 0.70 | |
| **Flow** (ml/min) | 285 | 285 | 285 | 285 | 285 | 285 | 285 | 285 | 285 | |
| **Depth to water** (ft) | 9.23 | 9.23 | 9.23 | 9.23 | 9.23 | 9.23 | 9.23 | 9.23 | 9.23 | |
| **Comments** | | | | | | | | | | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V Battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 10:45 | LTMW-6-20210914 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

TAL Metals (filtered) - 1 x 500ml HNO3 Plastic; Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/13/2021 | 1 of 1 |

**TRC Personnel**

**Charles Lambert/Karyn Treinen**

## Well Identification No.: LTMW-7

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 1.83 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

X PVC | | SS

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| **Well Depth (ft):** | 35.38 |
| **Depth to Water (ft):** | 8.97 |

**Reference Point:**

| | | | |
|---|---|---|---|
| | | | historic |
| | | X | measured |
| X | top of riser | | notch |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |

**Depth of pump intake (ft.)**: 18 feet

Height of water column (ft.): 26.41

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

| | |
|---|---|
| **Volume of Water in Well (gal):** | 4.3 |
| Total Gallons Purged: | 3 |

[Vol. = $r^2h(0.163)$]

| | |
|---|---|
| **Depth to NAPL (ft.):** | N/A |
| **Thickness of NAPL (ft.):** | |

## FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 13:05 | 13:10 | 13:15 | 13:20 | 13:25 | 13:30 | 13:35 | 13:40 | 13:45 | 13:50 |
| **Temp.** (C.) - (±10%) | 21.48 | 19.57 | 18.34 | 18.20 | 18.13 | 18.07 | 18.04 | 18.09 | 17.95 | 17.80 |
| **pH** (Std.Units) - (± 0.1) | 8.07 | 7.55 | 7.18 | 7.51 | 7.76 | 7.72 | 7.73 | 7.74 | 7.76 | 7.77 |
| **ORP** (millivolts) - (± 10) | 85 | 90 | 93 | 92 | 92 | 26 | -36 | -40 | -46 | -47 |
| **Conduct.**(mS/cm) - (±3%) | 0.365 | 0.370 | 0.376 | 0.378 | 0.381 | 0.413 | 0.420 | 0.424 | 0.420 | 0.425 |
| **Turb.** (NTU) - (± 10%) | 35.5 | 21.2 | 1.8 | 2.4 | 3.3 | 0.9 | 0.1 | 0.5 | 0.0 | 0.4 |
| **DO** (mg/L) - (± 10%) | 6.47 | 6.03 | 5.95 | 5.96 | 5.97 | 5.45 | 4.83 | 4.17 | 4.13 | 4.15 |
| **Flow** (ml/min) | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| **Depth to water** (ft) | 8.97 | 9.02 | 9.11 | 9.12 | 9.15 | 9.22 | 9.28 | 9.31 | 9.33 | 9.41 |
| **Comments** | | | | | | | | | | |

## FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp.** (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct.**(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb.** (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 13:50 | LTMW-7-20210913 |
| | | | | | |

**Remarks:**

Bladder pump does not fit, used peri-pump

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/13/2021 | 1 of 1 |

**TRC Personnel**

Karyn Treinen

## Well Identification No.: LTMW-8

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 1.96 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | |
|---|---|
| X | PVC |
| | SS |
| | |

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| **Well Depth (ft):** | 43.00 |
| **Depth to Water (ft):** | 10.71 |

**Reference Point:**

| | | | |
|---|---|---|---|
| X | top of riser | | historic |
| | top of casing | X | measured |
| | bgs | | notch |
| | | | north side |
| | | | high point |
| | | | pen mark |

**Depth of pump intake (ft.)**: 25

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

Height of water column (ft.): 32.29

| | |
|---|---|
| **Volume of Water in Well (gal):** | 5.3 |
| Total Gallons Purged: | 3 |

[Vol. = $r^2h(0.163)$]

| | |
|---|---|
| **Depth to NAPL (ft.):** | N/A |
| **Thickness of NAPL (ft.):** | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 8:40 | 8:45 | 8:50 | 8:55 | 9:00 | 9:05 | 9:10 | 9:15 | 9:20 | 9:25 |
| **Temp**. (C.) - (±10%) | 17.13 | 18.15 | 18.14 | 17.83 | 18.14 | 18.87 | 18.69 | 18.88 | 18.43 | 19.03 |
| **pH** (Std.Units) - (± 0.1) | 5.91 | 5.96 | 6.33 | 6.66 | 6.86 | 6.98 | 7.06 | 7.11 | 7.16 | 6.97 |
| **ORP** (millivolts) - (± 10) | 145 | 146 | 146 | 140 | 138 | 137 | 137 | 136 | 136 | 138 |
| **Conduct**.(mS/cm) - (±3%) | 0.538 | 0.869 | 2.10 | 2.64 | 2.68 | 2.66 | 2.69 | 2.67 | 2.68 | 3.540 |
| **Turb**. (NTU) - (± 10%) | 84.1 | 66.2 | 29.5 | 16.1 | 17.3 | 8.2 | 8.8 | 8.2 | 9 | 6.7 |
| **DO** (mg/L) - (± 10%) | 5.11 | 4.03 | 3.63 | 3.01 | 5.60 | 5.93 | 5.86 | 5.00 | 4.90 | 3.93 |
| **Flow** (ml/min) | 245 | 245 | 245 | 245 | 245 | 245 | 245 | 245 | 245 | 245 |
| **Depth to water** (ft) | 10.71 | 10.72 | 10.72 | 10.73 | 10.74 | 10.73 | 10.73 | 10.73 | 10.75 | 10.75 |
| **Comments** | | | | | | | | | | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 9:30 | 9:35 | | | | | | | | |
| **Temp**. (C.) - (±10%) | 19.52 | 19.62 | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | 6.94 | 6.91 | | | | | | | | |
| **ORP** (millivolts) - (± 10) | 140 | 141 | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | 3.48 | 3.49 | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | 6.7 | 6.1 | | | | | | | | |
| **DO** (mg/L) - (± 10%) | 3.85 | 3.84 | | | | | | | | |
| **Flow** (ml/min) | 245 | 245 | | | | | | | | |
| **Depth to water** (ft) | 10.74 | 10.74 | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample |
|---|---|---|
| Peristaltic Pump | X | X |
| Submersible Pump | | |
| Bladder Pump | | |
| Bailer: | | |

| Description of Sampling Equipment |
|---|
| PID Minirae 3000 |
| HORIBA- U-52 |
| Solinist Interface Probe |
| Peristaltic Pump with 12V battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 9:35 | LTMW-8-20210913 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/13/2021 | 1 of 1 |

**TRC Personnel:** Charles Lambert/Karyn Treinen

## Well Identification No.: LTMW-9

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 1.75 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | |
|---|---|
| X | PVC |
| | SS |
| | |

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| Well Depth (ft): | 59.88 |
| Depth to Water (ft): | 10.14 |
| Depth of pump intake (ft.) | 56 |
| Height of water column (ft.): | 49.735 |
| Volume of Water in Well (gal): | 8.1 |
| Total Gallons Purged: | 3 |

[Vol. = $r^2h(0.163)$]

**Reference Point:**

| | | | |
|---|---|---|---|
| | historic | | |
| X | measured | | |
| X | top of riser | | notch |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

| | |
|---|---|
| Depth to NAPL (ft.): | N/A |
| Thickness of NAPL (ft.): | |

## FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 11:30 | 11:35 | 11:40 | 11:45 | 11:50 | 11:55 | 12:00 | 12:05 | 12:08 | 12:10 |
| **Temp**. (C.) - (±10%) | 21.82 | 20.20 | 18.12 | 17.26 | 17.36 | 17.30 | 17.71 | 17.70 | 17.73 | 17.74 |
| **pH** (Std.Units) - (± 0.1) | 8.33 | 8.12 | 7.94 | 7.91 | 7.92 | 7.90 | 7.92 | 7.93 | 7.94 | 7.94 |
| **ORP** (millivolts) - (± 10) | 31 | 1 | -48 | -53 | -52 | -56 | -56 | -56 | -58 | -58 |
| **Conduct**.(mS/cm) - (±3%) | 0.367 | 0.378 | 0.370 | 0.371 | 0.369 | 0.370 | 0.370 | 0.370 | 0.370 | 0.369 |
| **Turb**. (NTU) - (± 10%) | 0.0 | 0.0 | 0.0 | 680 | 388 | 276 | 181 | 164 | 116 | 115 |
| **DO** (mg/L) - (± 10%) | 2.02 | 0.90 | 0.44 | 0.26 | 0.28 | 0.59 | 3.03 | 2.88 | 2.82 | 2.78 |
| **Flow** (ml/min) | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 | 210 |
| **Depth to water** (ft) | 10.14 | 10.18 | 10.24 | 10.28 | 10.31 | 10.36 | 10.39 | 10.44 | 10.46 | 10.50 |
| **Comments** | | | | | | | | | | |

## FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 12:10 | LTMW-9-20210913 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

TAL Metals (filtered) - 1 x 500ml HNO3 Plastic; Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/13/2021 | 1 of 1 |

**TRC Personnel**

**Amber Bartlett/Ezra Stobbe**

## Well Identification No.: LTMW-10

| WELL INTEGRITY | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground) | 2.00 ft

| WELL DIAMETER | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

| WELL MATERIAL | | |
|---|---|---|
| X | | |
| PVC | SS | |

| PID SCREENING (ppmV) | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| Well Depth (ft): | 45.63 |
| Depth to Water (ft): | 8.32 |
| Depth of pump intake (ft.) | 28 |
| Height of water column (ft.): | 37.31 |
| Volume of Water in Well (gal): | 6.1 |
| Total Gallons Purged: | 6.0 |

[Vol. = $r^2h(0.163)$]

| Reference Point: | | |
|---|---|---|
| X | top of riser | |
| | top of casing | |
| | bgs | |
| | | |

| | |
|---|---|
| | historic |
| X | measured |
| | notch |
| | north side |
| | high point |
| | pen mark |

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

| | |
|---|---|
| Depth to NAPL (ft.): | N/A |
| Thickness of NAPL (ft.): | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 10:00 | 10:05 | 10:10 | 10:15 | 10:20 | 10:25 | 10:30 | 10:35 | 10:40 | |
| **Temp**. (C.) - (±10%) | 23.95 | 17.30 | 16.79 | 16.68 | 16.65 | 16.63 | 16.62 | 16.62 | 16.62 | |
| **pH** (Std.Units) - (± 0.1) | 5.48 | 7.39 | 7.57 | 7.60 | 7.60 | 7.60 | 7.61 | 7.63 | 7.63 | |
| **ORP** (millivolts) - (± 10) | 29 | -46 | -29 | -19 | -20 | -52 | -59 | -62 | -69 | |
| **Conduct**.(mS/cm) - (±3%) | 0.000 | 0.133 | 0.133 | 0.137 | 0.137 | 0.156 | 0.156 | 0.157 | 0.157 | |
| **Turb**. (NTU) - (± 10%) | 229 | 52.8 | 57.5 | 123 | 134 | 158 | 98.1 | 98.4 | 95.4 | |
| **DO** (mg/L) - (± 10%) | 7.18 | 6.75 | 6.04 | 4.99 | 4.95 | 3.24 | 2.84 | 2.58 | 2.51 | |
| **Flow** (ml/min) | 550 | 550 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | |
| **Depth to water** (ft) | 8.38 | 9.41 | 9.91 | 10.56 | 10.76 | 10.91 | 11.13 | 11.40 | 11.51 | |
| **Comments** | | | | | | | | | | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 10:45 | LTMW-10-20210913 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

TAL Metals (filtered) - 1 x 500ml HNO3 Plastic; Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

TRC

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/13/2021 | 1 of 1 |

**TRC Personnel**

**Amber Bartlett/Ezra Stobbe**

## Well Identification No.: LTMW-11

| WELL INTEGRITY | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground) | 1.92 ft

| WELL DIAMETER | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

| | |
|---|---|
| Well Depth (ft): | 43.9 |
| Depth to Water (ft): | 9.95 |

| Reference Point: | | | |
|---|---|---|---|
| | | | historic |
| | | X | measured |
| X | top of riser | | notch |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |

**Depth of pump intake (ft.)**: 28

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

**WELL MATERIAL**: X | | | (PVC SS)

Height of water column (ft.): 33.95

| PID SCREENING (ppmV) | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| **Volume of Water in Well (gal):** | 5.5 |
| Total Gallons Purged: | 4.0 |

[Vol. = $r^2h(0.163)$]

| | |
|---|---|
| **Depth to NAPL (ft.):** | N/A |
| **Thickness of NAPL (ft.):** | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 12:05 | 12:10 | 12:15 | 12:20 | 12:25 | 12:30 | 12:35 | 12:40 | | |
| **Temp**. (C.) - (±10%) | 15.15 | 14.90 | 14.81 | 14.75 | 15.38 | 15.99 | 16.26 | 16.20 | | |
| **pH** (Std.Units) - (± 0.1) | 6.73 | 6.40 | 6.30 | 6.24 | 6.22 | 6.23 | 6.24 | 6.28 | | |
| **ORP** (millivolts) - (± 10) | -24 | -15 | -11 | -8 | -6 | -7 | -8 | -7 | | |
| **Conduct**.(mS/cm) - (±3%) | 0.323 | 0.328 | 0.328 | 0.328 | 0.325 | 0.321 | 0.319 | 0.318 | | |
| **Turb**. (NTU) - (± 10%) | 140 | 25.4 | 6.0 | 3.2 | 6.9 | 5.4 | 4.1 | 5.1 | | |
| **DO** (mg/L) - (± 10%) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| **Flow** (ml/min) | 430 | 430 | 430 | 430 | 430 | 430 | 430 | 430 | | |
| **Depth to water** (ft) | 10.02 | 10.67 | 10.81 | 11.01 | 11.13 | 11.27 | 11.41 | 11.56 | | |
| **Comments** | | | | | | | | | | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 12:45 | LTMW-11-20210913 |
| | | | | | DUP-01-20210913 |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/14/2021 | 1 of 1 |

**TRC Personnel**

Amber Bartlett/Ezra Stobbe

## Well Identification No.: LTMW-12

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 2.00 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

X PVC | | SS | |

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.1 |
| Well Mouth | 0.1 |

| | |
|---|---|
| **Well Depth (ft):** | 45.4 |
| **Depth to Water (ft):** | 7.50 |

**Depth of pump intake (ft.)**: 28

Height of water column (ft.): 37.9

| | |
|---|---|
| **Volume of Water in Well (gal):** | 6.2 |
| Total Gallons Purged: | 6.5 |

[Vol. = $r^2h(0.163)$]

**Reference Point:**

| | | | |
|---|---|---|---|
| | historic | | |
| X | measured | | |
| X | top of riser | | notch |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

| | |
|---|---|
| **Depth to NAPL (ft.):** | N/A |
| **Thickness of NAPL (ft.):** | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 9:05 | 9:10 | 9:15 | 9:20 | 9:25 | 9:30 | 9:35 | 9:40 | 9:45 | 9:50 |
| **Temp**. (C.) - (±10%) | 20.37 | 17.96 | 17.77 | 17.28 | 17.10 | 17.03 | 16.88 | 16.83 | 16.81 | 16.79 |
| **pH** (Std.Units) - (± 0.1) | 8.11 | 8.02 | 7.98 | 7.85 | 7.75 | 7.78 | 7.78 | 7.76 | 7.77 | 7.76 |
| **ORP** (millivolts) - (± 10) | 55 | 78 | 83 | 95 | 101 | -110 | -141 | -146 | -148 | -149 |
| **Conduct**.(mS/cm) - (±3%) | 0.322 | 0.328 | 0.329 | 0.331 | 0.342 | 0.429 | 0.428 | 0.424 | 0.424 | 0.426 |
| **Turb**. (NTU) - (± 10%) | 70 | 42.5 | 42 | 41.0 | 76.4 | 97.6 | 63.3 | 54.8 | 33.7 | 30 |
| **DO** (mg/L) - (± 10%) | 6.01 | 5.43 | 5.35 | 5.07 | 4.39 | 0.00 | 0.00 | 0.84 | 0.00 | 0.00 |
| **Flow** (ml/min) | 415 | 415 | 415 | 415 | 415 | 415 | 415 | 415 | 415 | 415 |
| **Depth to water** (ft) | 7.50 | 7.89 | 8.13 | 8.37 | 8.54 | 8.62 | 8.8 | 8.91 | 9.02 | 9.13 |
| **Comments** | | | | | | | | | | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 9:55 | LTMW-12-20210914 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

TAL Metals (filtered) - 1 x 500ml HNO3 Plastic; Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/14/2021 | 1 of 1 |

**TRC Personnel**

**Amber Bartlett/Ezra Stobbe**

## Well Identification No.: LTMW-13

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 2.00 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | |
|---|---|
| X | PVC |
| | SS |
| | |

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| **Well Depth (ft):** | 46.9 |
| **Depth to Water (ft):** | 10.73 |

**Reference Point:**

| | | | |
|---|---|---|---|
| | top of riser | | historic |
| X | top of casing | X | measured |
| | bgs | | notch |
| | | | north side |
| | | | high point |
| | | | pen mark |

**Depth of pump intake (ft.)**: 25

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

Height of water column (ft.): 36.17

| | |
|---|---|
| **Volume of Water in Well (gal):** | 5.9 |
| Total Gallons Purged: | 4.0 |

[Vol. = $r^2h(0.163)$]

| | |
|---|---|
| **Depth to NAPL (ft.):** | N/A |
| **Thickness of NAPL (ft.):** | |

## FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 10:30 | 10:35 | 10:40 | 10:50 | 10:55 | 11:00 | 11:05 | | | |
| **Temp**. (C.) - (±10%) | 18.02 | 19.04 | 18.53 | 18.56 | 18.31 | 18.10 | 18.16 | | | |
| **pH** (Std.Units) - (± 0.1) | 8.3 | 8.22 | 7.90 | 7.8 | 7.79 | 7.78 | 7.77 | | | |
| **ORP** (millivolts) - (± 10) | 74 | 80 | 92 | 114 | 116 | 117 | 118 | | | |
| **Conduct**.(mS/cm) - (±3%) | 0.370 | 0.360 | 0.361 | 0.363 | 0.364 | 0.366 | 0.366 | | | |
| **Turb**. (NTU) - (± 10%) | 16 | 12.3 | 7 | 5.3 | 5.9 | 7.1 | 7.5 | | | |
| **DO** (mg/L) - (± 10%) | 6.76 | 6.07 | 5.49 | 4.71 | 4.60 | 4.36 | 4.32 | | | |
| **Flow** (ml/min) | 415 | 415 | 415 | 415 | 415 | 415 | 415 | | | |
| **Depth to water** (ft) | 10.77 | 11.21 | 11.54 | 11.91 | 12.02 | 12.12 | 12.24 | | | |
| **Comments** | | | | | | | | | | |

## FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 11:10 | LTMW-13-20210914 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/14/2021 | 1 of 1 |

**TRC Personnel:** Amber Bartlett/Ezra Stobbe

## Well Identification No.: LTMW-15

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 1.96 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | | |
|---|---|---|
| X | | |
| PVC | SS | |

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| Well Depth (ft): | 42.32 |
| Depth to Water (ft): | 11.97 |
| Depth of pump intake (ft.) | 23 |
| Height of water column (ft.): | 30.35 |
| Volume of Water in Well (gal): | 4.9 |
| Total Gallons Purged: | 5.0 |

[Vol. = $r^2h(0.163)$]

**Reference Point:**

| | | | |
|---|---|---|---|
| | historic | | |
| X | measured | | |
| X | top of riser | | notch |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

| | |
|---|---|
| Depth to NAPL (ft.): | N/A |
| Thickness of NAPL (ft.): | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 12:00 | 12:05 | 12:10 | 12:15 | 12:20 | 12:25 | 12:30 | 12:35 | | |
| **Temp**. (C.) - (±10%) | 20.02 | 18.88 | 18.42 | 18.28 | 18.25 | 18.22 | 18.21 | 18.20 | | |
| **pH** (Std.Units) - (± 0.1) | 7.94 | 7.95 | 7.94 | 7.92 | 7.91 | 7.90 | 7.90 | 7.90 | | |
| **ORP** (millivolts) - (± 10) | -137 | -163 | -164 | -166 | -166 | -167 | -167 | -167 | | |
| **Conduct**.(mS/cm) - (±3%) | 2.64 | 2.75 | 2.77 | 2.77 | 2.75 | 2.75 | 2.75 | 2.75 | | |
| **Turb**. (NTU) - (± 10%) | 44 | 17.6 | 63.4 | 72.7 | 35.9 | 27.3 | 26.1 | 24.8 | | |
| **DO** (mg/L) - (± 10%) | 2.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| **Flow** (ml/min) | 415 | 415 | 415 | 415 | 415 | 415 | 415 | 415 | | |
| **Depth to water** (ft) | 12.01 | 12.48 | 12.87 | 13.02 | 13.22 | 13.50 | 13.64 | 13.80 | | |
| **Comments** | | | | | | | | | | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 12:40 | LTMW-15-20210914 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

TAL Metals (filtered) - 1 x 500ml HNO3 Plastic; Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/15/2021 | 1 of 1 |

**TRC Personnel**
Amber Bartlett/Ezra Stobbe

## Well Identification No.: LTMW-16

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 1.96 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | | |
|---|---|---|
| X | | |

PVC SS

| | |
|---|---|
| Well Depth (ft): | 43.2 |
| Depth to Water (ft): | 9.50 |

**Reference Point:**

| | | | |
|---|---|---|---|
| X | top of riser | | historic |
| | top of casing | X | measured |
| | bgs | | notch |
| | | | north side |
| | | | high point |
| | | | pen mark |

**Depth of pump intake (ft.)**: 25

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

Height of water column (ft.): 33.7

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| Volume of Water in Well (gal): | 5.5 |
| Total Gallons Purged: | 7.0 |

[Vol. = $r^2h(0.163)$]

| | |
|---|---|
| Depth to NAPL (ft.): | N/A |
| Thickness of NAPL (ft.): | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 11:00 | 11:05 | 11:10 | 11:15 | 11:20 | 11:25 | 11:30 | 11:35 | 11:40 | |
| **Temp**. (C.) - (±10%) | 20.31 | 19.51 | 19.14 | 19.11 | 19.01 | 18.91 | 18.91 | 18.82 | 18.84 | |
| **pH** (Std.Units) - (± 0.1) | 9.2 | 9.12 | 9.03 | 8.96 | 8.95 | 8.83 | 8.75 | 8.75 | 8.75 | |
| **ORP** (millivolts) - (± 10) | 9 | 8 | 1 | -10 | -16 | -46 | -85 | -98 | -88 | |
| **Conduct**.(mS/cm) - (±3%) | 0.340 | 0.341 | 0.340 | 0.316 | 0.311 | 0.301 | 0.296 | 0.295 | 0.295 | |
| **Turb**. (NTU) - (± 10%) | 28 | 16.5 | 51 | 110 | 106 | 61.3 | 21.0 | 17.2 | 17.1 | |
| **DO** (mg/L) - (± 10%) | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| **Flow** (ml/min) | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | |
| **Depth to water** (ft) | 9.54 | 9.69 | 9.91 | 10.23 | 10.40 | 10.54 | 10.71 | 10.86 | 11.02 | |
| **Comments** | | | | | | | | | | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 11:45 | LTMW-16-20210915 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

TAL Metals (filtered) - 1 x 500ml HNO3 Plastic; Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/15/2021 | 1 of 1 |

**TRC Personnel**

**Amber Bartlett/Ezra Stobbe**

## Well Identification No.: LTMW-17

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground) | 1.83 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | |
|---|---|
| X | PVC |
| | SS |
| | |

| | |
|---|---|
| **Well Depth (ft):** | 37.3 |
| **Depth to Water (ft):** | 8.30 |

**Reference Point:**

| | | | |
|---|---|---|---|
| | historic | | |
| X | measured | | |
| X | top of riser | | notch |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |

**Depth of pump intake (ft.)**: 21

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

Height of water column (ft.): 29

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| **Volume of Water in Well (gal):** | 4.7 |
| Total Gallons Purged: | 5.8 |

[Vol. = $r^2h(0.163)$]

| | |
|---|---|
| **Depth to NAPL (ft.):** | N/A |
| **Thickness of NAPL (ft.):** | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 9:55 | 10:00 | 10:05 | 10:10 | 10:15 | 10:20 | 10:25 | 10:30 | 10:35 | |
| **Temp**. (C.) - (±10%) | 17.95 | 17.72 | 17.66 | 17.81 | 17.87 | 17.72 | 17.87 | 17.79 | 17.78 | |
| **pH** (Std.Units) - (± 0.1) | 8.58 | 8.47 | 8.34 | 8.31 | 8.33 | 8.28 | 8.28 | 8.29 | 8.29 | |
| **ORP** (millivolts) - (± 10) | 60 | 76 | -70 | -65 | -66 | -83 | -64 | -64 | -64 | |
| **Conduct**.(mS/cm) - (±3%) | 1.27 | 1.29 | 1.46 | 1.44 | 1.39 | 1.350 | 1.320 | 1.310 | 1.300 | |
| **Turb**. (NTU) - (± 10%) | 32.4 | 76.4 | 16.1 | 9.0 | 7.6 | 5.8 | 4.8 | 4.9 | 4.5 | |
| **DO** (mg/L) - (± 10%) | 4.33 | 3.77 | 0.96 | 0.24 | 0.76 | 1.29 | 1.65 | 1.54 | 1.53 | |
| **Flow** (ml/min) | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | |
| **Depth to water** (ft) | 8.3 | 8.59 | 8.78 | 8.92 | 9.08 | 9.19 | 9.27 | 9.30 | 9.32 | |
| **Comments** | | | | | | | | | | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 10:40 | LTMW-17-2021915 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/16/2021 | 1 of 1 |

**TRC Personnel**

Amber Bartlett/Ezra Stobbe

## Well Identification No.: LTMW-18c

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 3.00 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | | |
|---|---|---|
| X | | |
| PVC | SS | |

| | |
|---|---|
| Well Depth (ft): | 160.3 |
| Depth to Water (ft): | 5.70 |

**Reference Point:**

| | | | |
|---|---|---|---|
| | | | historic |
| | | X | measured |
| X | top of riser | | notch |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |

**Depth of pump intake (ft.)**: 116

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

Height of water column (ft.): 154.6

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| Volume of Water in Well (gal): | 100.95 |
| Total Gallons Purged: | 6.0 |
| [Vol. = $r^2h(0.653)$] | |

| | |
|---|---|
| Depth to NAPL (ft.): | N/A |
| Thickness of NAPL (ft.): | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 8:20 | 8:25 | 8:30 | 8:35 | 8:40 | 8:45 | 8:50 | | | |
| **Temp**. (C.) - (±10%) | 18.78 | 17.06 | 16.59 | 16.54 | 15.68 | 15.53 | 15.50 | | | |
| **pH** (Std.Units) - (± 0.1) | 9.32 | 9.88 | 9.95 | 9.97 | 10.00 | 10.00 | 10.01 | | | |
| **ORP** (millivolts) - (± 10) | 103 | 90 | 85 | 82 | 80 | 71 | 70 | | | |
| **Conduct**.(mS/cm) - (±3%) | 0.986 | 1.08 | 1.09 | 1.09 | 1.110 | 1.11 | 1.110 | | | |
| **Turb**. (NTU) - (± 10%) | 4 | 2.7 | 2.7 | 3.6 | 3.9 | 4.4 | 4.2 | | | |
| **DO** (mg/L) - (± 10%) | 1.94 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| **Flow** (ml/min) | 500 | 500 | 500 | 500 | 500 | 500 | 500 | | | |
| **Depth to water** (ft) | 5.85 | 6.07 | 6.41 | 6.73 | 7.00 | 7.24 | 7.51 | | | |
| **Comments** | | | | | | | | | | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample |
|---|---|---|
| Peristaltic Pump | | |
| Submersible Pump | | |
| Bladder Pump | X | X |
| Bailer: | | |

**Description of Sampling Equipment**

PID Minirae 3000
HORIBA- U-52
Solinist Interface Probe
Bladder Pump with QED MP 50 Controller

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 8:55 | LTMW-18c-20210916 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/16/2021 | 1 of 1 |

**TRC Personnel**

Amber Bartlett/Ezra Stobbe

## Well Identification No.: LTMW-18UG

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 2.13 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| | 2 inch |
| X | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | |
|---|---|
| X | |
| PVC | SS |

| | |
|---|---|
| **Well Depth (ft):** | 135.4 |
| **Depth to Water (ft):** | 6.20 |

**Reference Point:**

| | | | |
|---|---|---|---|
| X | top of riser | X | measured |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |
| | | | historic |

**Depth of pump intake (ft.)**: 25

Height of water column (ft.): 129.2

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| | .163 gal/ft (2 in.) |
| X | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| **Volume of Water in Well (gal):** | 21.1 |
| Total Gallons Purged: | 15.0 |

[Vol. = $r^2h(0.163)$]

| | |
|---|---|
| **Depth to NAPL (ft.):** | N/A |
| **Thickness of NAPL (ft.):** | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 9:20 | 9:25 | 9:30 | 9:35 | 9:40 | 9:45 | 9:50 | | | |
| **Temp**. (C.) - (±10%) | 17.97 | 18.28 | 18.57 | 18.62 | 18.49 | 18.61 | 18.54 | | | |
| **pH** (Std.Units) - (± 0.1) | 8.32 | 8.16 | 8.03 | 7.94 | 7.86 | 7.81 | 7.79 | | | |
| **ORP** (millivolts) - (± 10) | 136 | 143 | 149 | 154 | 158 | 161 | 162 | | | |
| **Conduct**.(mS/cm) - (±3%) | 0.149 | 0.150 | 0.151 | 0.150 | 0.150 | 0.150 | 0.150 | | | |
| **Turb**. (NTU) - (± 10%) | 2.0 | 1.6 | 2 | 1.5 | 1.6 | 1.7 | 1.4 | | | |
| **DO** (mg/L) - (± 10%) | 7.42 | 5.68 | 5.36 | 5.25 | 5.10 | 5.00 | 4.91 | | | |
| **Flow** (ml/min) | 500 | 500 | 500 | 500 | 500 | 400 | 400 | | | |
| **Depth to water** (ft) | 6.20 | 6.61 | 6.82 | 7.13 | 7.41 | 7.70 | 7.91 | | | |
| **Comments** | | | | | | | | | | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 9:55 | LTMW-18UG-20210916 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

TAL Metals (filtered) - 1 x 500ml HNO3 Plastic; Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/16/2021 | 1 of 1 |

**TRC Personnel**

Amber Bartlett/Ezra Stobbe

## Well Identification No.: LTMW-19

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 1.17 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | | |
|---|---|---|
| X | | |

PVC SS

| | |
|---|---|
| Well Depth (ft): | 27.2 |
| Depth to Water (ft): | 7.30 |

**Reference Point:**

| | | | |
|---|---|---|---|
| | historic | | |
| X | measured | | |
| X | top of riser | | notch |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |

**Depth of pump intake (ft.)**: 13

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

Height of water column (ft.): 19.9

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| Volume of Water in Well (gal): | 3.2 |
| Total Gallons Purged: | 5.0 |

[Vol. = $r^2h(0.163)$]

| | |
|---|---|
| Depth to NAPL (ft.): | N/A |
| Thickness of NAPL (ft.): | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 11:55 | 12:00 | 12:05 | 12:10 | 12:15 | 12:20 | 12:25 | 12:30 | 12:35 | 12:40 |
| **Temp**. (C.) - (±10%) | 24.69 | 22.69 | 22.61 | 22.54 | 21.99 | 22.47 | 22.80 | 21.88 | 20.96 | 20.94 |
| **pH** (Std.Units) - (± 0.1) | 7.51 | 7.77 | 7.78 | 7.77 | 7.76 | 7.72 | 7.43 | 7.26 | 7.17 | 7.17 |
| **ORP** (millivolts) - (± 10) | 155 | 152 | 152 | 153 | 155 | 157 | -88 | -93 | -97 | -98 |
| **Conduct**.(mS/cm) - (±3%) | 11.6 | 12.2 | 12.3 | 12.2 | 12.4 | 12.5 | 13.2 | 13.2 | 13.2 | 13.2 |
| **Turb**. (NTU) - (± 10%) | 10 | 10.1 | 10 | 3.6 | 8.7 | 9.5 | 6.7 | 4.9 | 3.8 | 3.5 |
| **DO** (mg/L) - (± 10%) | 2.57 | 1.69 | 1.51 | 1.29 | 1.23 | 1.05 | 0.30 | 0.12 | 0.00 | 0.00 |
| **Flow** (ml/min) | 415 | 415 | 415 | 415 | 415 | 415 | 415 | 415 | 415 | 415 |
| **Depth to water** (ft) | 7.38 | 7.81 | 8.14 | 8.40 | 8.65 | 8.84 | 9.16 | 9.34 | 9.46 | 9.58 |
| **Comments** | | | | | | | | | | |

**FIELD WATER QUALITY MEASUREMENTS**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | X | X | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | | | Solinist Interface Probe |
| Bailer: | | | Peristaltic Pump with 12V battery |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 12:45 | LTMW-19-20210916 |
| | | | | | MS/MSD samples |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/14/2021 | 1 of 1 |

**TRC Personnel**

Charles Lambert/Karyn Treinen

## Well Identification No.: LTMW-21

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 2.17 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

X PVC | SS

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

| | |
|---|---|
| **Well Depth (ft):** | 95.5 |
| **Depth to Water (ft):** | 7.70 |

**Depth of pump intake (ft.)**: 84 feet

Height of water column (ft.): 87.8

| | |
|---|---|
| **Volume of Water in Well (gal):** | 14.3 |
| Total Gallons Purged: | 3.0 |

[Vol. = $r^2h(0.163)$]

**Reference Point:**

| | | | |
|---|---|---|---|
| | | | historic |
| | | X | measured |
| X | top of riser | | notch |
| | top of casing | | north side |
| | bgs | | high point |
| | | | pen mark |

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

| | |
|---|---|
| **Depth to NAPL (ft.):** | N/A |
| **Thickness of NAPL (ft.):** | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 9:05 | 9:10 | 9:15 | 9:20 | 9:25 | 9:30 | 9:35 | 9:40 | 9:45 | 9:50 |
| **Temp**. (C.) - (±10%) | 17.86 | 18.08 | 18.57 | 18.66 | 18.69 | 18.87 | 18.86 | 19.03 | 19.06 | 19.09 |
| **pH** (Std.Units) - (± 0.1) | 8.01 | 7.18 | 6.97 | 6.86 | 6.77 | 6.74 | 6.70 | 6.68 | 6.67 | 6.67 |
| **ORP** (millivolts) - (± 10) | -99 | -84 | -80 | -78 | -77 | -77 | -76 | -76 | -76 | -76 |
| **Conduct**.(mS/cm) - (±3%) | 0.140 | 0.142 | 0.140 | 0.139 | 0.139 | 0.137 | 0.137 | 0.136 | 0.136 | 0.135 |
| **Turb**. (NTU) - (± 10%) | 69.7 | 127 | 121 | 119 | 104 | 106 | 104 | 82.5 | 82.2 | 76.1 |
| **DO** (mg/L) - (± 10%) | 2.66 | 1.17 | 0.82 | 0.56 | 0.40 | 0.29 | 0.37 | 0.15 | 0.13 | 0.12 |
| **Flow** (ml/min) | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| **Depth to water** (ft) | 7.70 | 7.71 | 7.72 | 7.73 | 7.76 | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 |
| **Comments** | | | | | | | | | | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | | | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | X | X | Solinist Interface Probe |
| Bailer: | | | Bladder Pump with QED MP 50 Controller |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 9:50 | LTMW-21-20210914 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

TAL Metals (filtered) - 1 x 500ml HNO3 Plastic; Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/13/2021 | 1 of 1 |

**TRC Personnel**

Amber Bartlett/Ezra Stobbe

## Well Identification No.: LTMW-22

**WELL INTEGRITY**

| | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Protective Casing Stick-up (from Ground): 1.75 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| | 2 inch |
| X | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

| | | |
|---|---|---|
| X | | |
| PVC | SS | |

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.1 |

| | |
|---|---|
| **Well Depth (ft):** | 131.48 |
| **Depth to Water (ft):** | 11.93 |

**Reference Point:**

| | | | | |
|---|---|---|---|---|
| | | | | historic |
| | | | X | measured |
| X | top of riser | | | notch |
| | top of casing | | | north side |
| | bgs | | | high point |
| | | | | pen mark |

**Depth of pump intake (ft.)**: 103

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| | .163 gal/ft (2 in.) |
| X | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

Height of water column (ft.): 119.55

| | |
|---|---|
| **Volume of Water in Well (gal):** | 312.26 |
| Total Gallons Purged: | 5 |

[Vol. = $r^2h(0.653)$]

| | |
|---|---|
| **Depth to NAPL (ft.):** | N/A |
| **Thickness of NAPL (ft.):** | |

## FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 8:50 | 8:55 | 9:00 | 9:05 | 9:10 | 9:15 | 9:20 | | | |
| **Temp**. (C.) - (±10%) | 25.97 | 16.18 | 16.01 | 15.97 | 16.07 | 16.09 | 16.09 | | | |
| **pH** (Std.Units) - (± 0.1) | 3.85 | 5.92 | 5.92 | 5.93 | 5.96 | 5.97 | 5.97 | | | |
| **ORP** (millivolts) - (± 10) | 285 | -52 | -54 | -55 | -57 | -58 | -58 | | | |
| **Conduct**.(mS/cm) - (±3%) | 1.730 | 0.040 | 0.040 | 0.040 | 0.039 | 0.039 | 0.039 | | | |
| **Turb**. (NTU) - (± 10%) | 0.0 | 1.3 | 1.3 | 1.6 | 3.0 | 3.4 | 3.8 | | | |
| **DO** (mg/L) - (± 10%) | 7.57 | 5.71 | 5.63 | 5.45 | 4.75 | 4.35 | 4.20 | | | |
| **Flow** (ml/min) | 500 | 500 | 500 | 500 | 500 | 500 | 500 | | | |
| **Depth to water** (ft) | 11.99 | 12.85 | 13.42 | 14.03 | 14.53 | 14.82 | 15.01 | | | |
| **Comments** | | | | | | | | | | |

## FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | | | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | X | X | Solinist Interface Probe |
| Bailer: | | | Bladder Pump with QED MP 50 Controller |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 9:25 | LTMW-22-20210913 |
| | | | | | |

**Remarks:**

MS/MSD Sample; Turbidity <10, no filtered metal collected

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# Groundwater Sampling Data Record Form

| Project | Project No. | Date | Sheet |
|---|---|---|---|
| Brookfield Landfill | 384968 | 9/16/2021 | 1 of 1 |

**TRC Personnel**

Amber Bartlett/Ezra Stobbe

## Well Identification No.: LTMW-23

| WELL INTEGRITY | YES | NO |
|---|---|---|
| Protect. Casing Secure | X | |
| Concrete Collar Intact | X | |
| PVC Stick-up Intact | X | |
| Well Cap Present | X | |
| Security Lock Present | X | |

Hornet's nest is located inside the well cover.

**PID SCREENING (ppmV)**

| | |
|---|---|
| Background | 0.0 |
| Well Mouth | 0.0 |

Protective Casing Stick-up (from Ground): 1.13 ft

**WELL DIAMETER**

| | |
|---|---|
| | 1 inch |
| X | 2 inch |
| | 4 inch |
| | 6 inch |
| | inch |

**WELL MATERIAL**

X PVC ☐ SS ☐

| | |
|---|---|
| Well Depth (ft): | 135.50 |
| Depth to Water (ft): | 17.50 |

Depth of pump intake (ft.): 110

Height of water column (ft.): 118

| | |
|---|---|
| Volume of Water in Well (gal): | 19.2 |
| Total Gallons Purged: | 6.0 |

[Vol. = $r^2h(0.163)$]

**Reference Point:**

| | | |
|---|---|---|
| X | top of riser | |
| | top of casing | |
| | bgs | |
| | | |

| | |
|---|---|
| | historic |
| X | measured |
| | notch |
| | north side |
| | high point |
| | pen mark |

| | |
|---|---|
| | .041 gal/ft (1 in.) |
| X | .163 gal/ft (2 in.) |
| | .653 gal/ft (4 in.) |
| | 1.5 gal/ft (6 in.) |
| | ___ gal/ft (__in.) |

| | |
|---|---|
| Depth to NAPL (ft.): | N/A |
| Thickness of NAPL (ft.): | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | 11:00 | 11:05 | 11:10 | 11:15 | 11:20 | 11:25 | 11:30 | 11:35 | | |
| **Temp**. (C.) - (±10%) | 17.11 | 16.70 | 16.38 | 16.28 | 16.33 | 16.34 | 16.37 | 16.38 | | |
| **pH** (Std.Units) - (± 0.1) | 11.23 | 11.22 | 11.09 | 10.41 | 9.89 | 9.48 | 9.39 | 9.4 | | |
| **ORP** (millivolts) - (± 10) | -39 | -52 | -44 | 14 | 18 | 22 | 27 | 26 | | |
| **Conduct**.(mS/cm) - (±3%) | 0.251 | 0.256 | 0.221 | 0.189 | 0.146 | 0.114 | 0.113 | 0.113 | | |
| **Turb**. (NTU) - (± 10%) | 12.7 | 14.4 | 24.7 | 30.1 | 31.5 | 22.1 | 25.1 | 24.1 | | |
| **DO** (mg/L) - (± 10%) | 4.30 | 4.87 | 4.34 | 5.02 | 5.34 | 5.68 | 5.67 | 5.68 | | |
| **Flow** (ml/min) | 4.5 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | | |
| **Depth to water** (ft) | 17.62 | 18.13 | 18.68 | 19.00 | 19.27 | 19.48 | 19.61 | 19.73 | | |
| **Comments** | | | | | | | | | | |

### FIELD WATER QUALITY MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Time** | | | | | | | | | | |
| **Temp**. (C.) - (±10%) | | | | | | | | | | |
| **pH** (Std.Units) - (± 0.1) | | | | | | | | | | |
| **ORP** (millivolts) - (± 10) | | | | | | | | | | |
| **Conduct**.(mS/cm) - (±3%) | | | | | | | | | | |
| **Turb**. (NTU) - (± 10%) | | | | | | | | | | |
| **DO** (mg/L) - (± 10%) | | | | | | | | | | |
| **Flow** (ml/min) | | | | | | | | | | |
| **Depth to water** (ft) | | | | | | | | | | |
| **Comments** | | | | | | | | | | |

| Pump Type | Purge | Sample | Description of Sampling Equipment |
|---|---|---|---|
| Peristaltic Pump | | | PID Minirae 3000 |
| Submersible Pump | | | HORIBA- U-52 |
| Bladder Pump | X | X | Solinist Interface Probe |
| Bailer: | | | Bladder Pump with QED MP 50 Controller |

| Analytical Parameters | Filtered (Y/N) | Preservation | Volume/Containers | Time Collected | Sample ID |
|---|---|---|---|---|---|
| See Remarks below | | | | 11:40 | LTMW-23-20210916 |
| | | | | | |

**Remarks:**

VOCs - 3 x 40ml HCL Vials; SVOCs - 2 x 1L Ambers; TAL Metals (unfiltered)/Hardness - 1 x 500ml HNO3 Plastic

TAL Metals (filtered) - 1 x 500ml HNO3 Plastic; Pesticides/PCBs - 2 x 1L Ambers; CN - 1 x 120ml NAOH Amber; Ammonia - 1 x 250ml H2SO4 Plastic

NO3, Chloride, SO4, Bromide - 1 x 250ml Plastic; TOC - 1 x 120ml H2SO4 Amber; TDS - 1 x 500ml Plastic; Alkalinity - 3 x 60ml Vial

# APPENDIX B

# LABORATORY ANALYTICAL DATA REPORT AND NYSDEC EQUIS ELECTRONIC DATA DELIVERABLES

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

# Project: Brookfield Landfill

**Client PO:** 152591

**Report To:** TRC Engineering
1430 Broadway
10th Floor
New York, NY 10018
Attn: Wes Lindemuth/Amber Bartlett

**Received Date:** 9/17/2021

**Report Date:** 10/15/2021

**Deliverables:** NYDOH-CatB

**Lab ID:** AD26083

**Lab Project No:** 1091738

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

**Sean Berls - Quality Assurance Officer** OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Hampton-Clarke
WBE/DBE/SBE 800-426-9992

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# SDG Narrative

# HC Case Narrative

**Client:** TRC Engineering
**Project:** Brookfield Landfill

1091738

**Hampton-Clarke (HC) received the following samples 9/17/21:**

| Client ID | HC Sample ID | Matrix | Analysis |
|---|---|---|---|
| LTMW-22-20210913 | AD26083-001 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-8-20210913 | AD26083-002 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-10-20210913 U | AD26083-003 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-10-20210913 F | AD26083-004 | Aqueous | Metals (6010D/6020B/7470A) |
| FB-20210913 | AD26083-005 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-9-20210913 U | AD26083-006 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-9-20210913 F | AD26083-007 | Aqueous | Metals (6010D/6020B/7470A) |
| LTMW-11-20210913 | AD26083-008 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| DUP-01-20210913 | AD26083-009 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| TB-01-20210913 | AD26083-010 | Aqueous | VOA (8260D) |
| LTMW-7-20210913 | AD26083-011 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-21-20210914 U | AD26083-012 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-21-20210914 F | AD26083-013 | Aqueous | Metals (6010D/6020B/7470A) |
| LTMW-12-20210914 U | AD26083-014 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-12-20210914 F | AD26083-015 | Aqueous | Metals (6010D/6020B/7470A) |
| LTMW-6-20210914 U | AD26083-016 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-6-20210914 F | AD26083-017 | Aqueous | Metals (6010D/6020B/7470A) |

| | | | |
|---|---|---|---|
| LTMW-13-20210914 | AD26083-018 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-15-20210914 U | AD26083-019 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-15-20210914 F | AD26083-020 | Aqueous | Metals (6010D/6020B/7470A) |
| LTMW-5B-20210914 U | AD26083-021 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-5B-20210914 F | AD26083-022 | Aqueous | Metals (6010D/6020B/7470A) |
| DUP-02-20210914 U | AD26083-023 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| DUP-02-20210914 F | AD26083-024 | Aqueous | Metals (6010D/6020B/7470A) |
| TB-02-20210914 | AD26083-025 | Aqueous | VOA (8260D) |
| LTMW-5A-20210915 | AD26083-026 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-17-20210915 | AD26083-027 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-4-20210915 U | AD26083-028 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-4-20210915 F | AD26083-029 | Aqueous | Metals (6010D/6020B/7470A) |
| LTMW-16-20210915 U | AD26083-030 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-16-20210915 F | AD26083-031 | Aqueous | Metals (6010D/6020B/7470A) |
| LTMW-3-20210915 | AD26083-032 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| FB-20210915 | AD26083-033 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| TB-03-20210915 | AD26083-034 | Aqueous | VOA (8260D) |
| LTMW-18C-20210916 | AD26083-035 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-2-20210916 U | AD26083-036 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-2-20210916 F | AD26083-037 | Aqueous | Metals (6010D/6020B/7470A) |

| | | | |
|---|---|---|---|
| LTMW-18UG-20210916 U | AD26083-038 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-18UG-20210916 F | AD26083-039 | Aqueous | Metals (6010D/6020B/7470A) |
| LTMW-1-20210916 U | AD26083-040 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-1-20210916 F | AD26083-041 | Aqueous | Metals (6010D/6020B/7470A) |
| LTMW-1-20210916MS U | AD26083-042 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-1-20210916MS F | AD26083-043 | Aqueous | Metals (6010D/6020B/7470A) |
| LTMW-1-20210916MSD U | AD26083-044 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-1-20210916MSD F | AD26083-045 | Aqueous | Metals (6010D/6020B/7470A) |
| LTMW-23-20210916 U | AD26083-046 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-23-20210916 F | AD26083-047 | Aqueous | Metals (6010D/6020B/7470A) |
| LTMW-19-20210916 | AD26083-048 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-19-20210916MS | AD26083-049 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| LTMW-19-20210916MSD | AD26083-050 | Aqueous | VOA (8260D), BNA (8270E), PCB (8082A), Pest (8081B), Metals (6010D/6020B/7470A), Hardness (2340B), Alkalinity (2320B), Ammonia (SM4500NH3D), Bromide/ Chloride/Nitrate/Sulfate (300.0), Cyanide (9012B), TDS (2540C), TOC (5310B) |
| TB-04-20210916 | AD26083-051 | Aqueous | VOA (8260D) |

*This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.*

## Volatile Organic Analysis:

The Method Blank Spike for batches 96749, 96784, 96787, 96792, 96795 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches 96770, 96784, 96792 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate for batch 96787 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

## Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batches 94959, 94960 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches 94959, 94984 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike for batch 94960 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Samples AD26083-028, WMB94984, WMB94960, WMB94959MS, AD25969-001MS and MSD had one or more surrogate recoveries outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Sample AD26083-019 had one or more surrogates outside QC limits. The sample was re-extracted and re-analyzed confirming recoveries outside QC limits due to matrix interference. The initial analysis is reported. Please refer to the applicable Form 2 for the recoveries.

## PCB Analysis:

Data conforms to method requirements.

## Pesticides Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batches 94962, 94974 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

## Metals Analysis:

The post Spike, Matrix Spike and/or Matrix Spike Duplicate for batches 94427, 94428, 94429 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

The MS/MSD RPD had recoveries outside QC limits in batch 94427. Please refer to the applicable Form 6/9 for the recoveries.

Samples AD26083-040, 041, 042, 043, 044, 045, 048, 049, 050 were reported at the dilution for Na due to concentration over linear range.

Samples AD26083-032, 036, 037 were reported at the dilution for Ca, Mg and Na due to concentration over linear range.

Samples AD26083-004, 007, 013, 015, 017, 020, 022, 024, 029, 031, 037, 039, 041, 043, 045, 047 were filtered and preserved in the laboratory per client's request.

## Wet Chemistry Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for Chloride, Bromide, Nitrate, Sulfate , batches 2789, 2790, 2791, 2792, 2793 had recoveries outside QC limits. Please refer to the QC section for the recoveries.

The Matrix Spike and/or Matrix Spike Duplicate RPD for Chloride, Bromide, Sulfate , batch 2789 had recoveries outside QC limits. Please refer to the QC section for the recoveries.

Cyanide was recovered in Filed Blank-sample AD26083-033.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

| Sean Berls<br>Quality Assurance Officer | Or | Jean Revolus<br>Laboratory Director | 10/18/24<br>Date |
|---|---|---|---|

# Reporting Limit Definitions

# HC Reporting Limit Definitions/Data Qualifiers

## REPORTING DEFINITIONS

**DF** = Dilution Factor

**DUP** = Duplicate

**LCS** = Laboratory Control Spike

**MBS** = Method Blank Spike

**MDL** = Method Detection Limit

**MR** = Matrix Replicate

**MS** = Matrix Spike

**MSD** = Matrix Spike Duplicate

**NA** = Not Applicable

**ND** = Not Detected

**PS** = Post Digestion Spike

**RL*** = Reporting Limit

**RT** = Retention Time

**SD** = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

## DATA QUALIFIERS

**A-** Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

**B-** Indicates analyte was present in the Method Blank and sample.

**d-** For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

**E-** Indicates the concentration exceeded the upper calibration range of the instrument.

**J-** Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

**R-** Retention Time is out.

**Y-** Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

# Data Package Summary Forms

# HC Report of Analysis

**Client:** TRC Engineering
**Project:** Brookfield Landfill

**HC Project #:** 1091738

**Sample ID:** LTMW-22-20210913
**Lab#:** AD26083-001
**Matrix:** Aqueous

**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 36 |
| pH Endpoint | 1 | ph | | 4.5 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 1 | mg/l | 2.0 | 17 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | ND |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |

**Sample ID:** LTMW-22-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-001 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| γ-Chlordane | 1 | ug/l | 0.010 | ND |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-22-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-001 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **2** | **mg/l** | **4.0** | **55** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **11000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **1000** |
| Magnesium | 1 | ug/l | 5000 | ND |
| **Manganese** | **1** | **ug/l** | **40** | **41** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **14000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |

**Sample ID:** LTMW-22-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-001 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 100 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-22-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-001 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-8-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-002 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 1400 |
| pH Endpoint | 1 | ph | | 4.5 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | 5.6 |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 50 | mg/l | 100 | 940 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 790 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-8-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-002 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| **1,4-Dioxane** | **1** | **ug/l** | **0.00050** | **0.054** |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-8-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-002 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | 1 | mg/l | 2.0 | 32 |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | 1 | ug/l | 200 | 260 |
| **Barium** | 1 | ug/l | 50 | 290 |
| **Calcium** | 1 | ug/l | 5000 | 190000 |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | 1 | ug/l | 300 | 920 |
| **Magnesium** | 1 | ug/l | 5000 | 75000 |
| **Manganese** | 1 | ug/l | 40 | 5400 |
| **Nickel** | 1 | ug/l | 50 | 83 |
| **Potassium** | 1 | ug/l | 5000 | 5200 |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | 1 | ug/l | 5000 | 800000 |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| **Cobalt** | 1 | ug/l | 2.0 | 13 |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-8-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-002 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Total Dissolved Solids @ 180 C** | **1** | **mg/l** | **40** | **3000** |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Total Organic Carbon** | **1** | **mg/l** | **5.0** | **29** |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| **1,4-Dioxane** | **1** | **ug/l** | **50** | **130** |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| **Acetone** | **1** | **ug/l** | **5.0** | **24** |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| **Methyl-t-butyl ether** | **1** | **ug/l** | **0.50** | **0.69** |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-8-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-002 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-10-20210913 U
**Lab#:** AD26083-003
**Matrix:** Aqueous

**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

### Alkalinity-Total (SM2320B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 220 |
| pH Endpoint | 1 | ph | | 4.5 |

### Ammonia (SM4500-NH3B/C)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

### Bromide (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 2 | mg/l | 4.0 | 51 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

### Hardness 2340B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 290 |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

### Organochlorine Pesticides 8081

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-10-20210913 U
**Lab#:** AD26083-003
**Matrix:** Aqueous

**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-10-20210913 U
**Lab#:** AD26083-003
**Matrix:** Aqueous
**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | 1 | mg/l | 2.0 | 41 |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | 1 | ug/l | 200 | 420 |
| **Barium** | 1 | ug/l | 50 | 310 |
| **Calcium** | 1 | ug/l | 5000 | 70000 |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | 1 | ug/l | 300 | 1100 |
| **Magnesium** | 1 | ug/l | 5000 | 28000 |
| **Manganese** | 1 | ug/l | 40 | 130 |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | 1 | ug/l | 5000 | 15000 |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-10-20210913 U
**Lab#:** AD26083-003
**Matrix:** Aqueous
**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 380 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| **Methyl-t-butyl ether** | **1** | **ug/l** | **0.50** | **0.76** |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-10-20210913 U
**Lab#:** AD26083-003
**Matrix:** Aqueous
**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-10-20210913 F
**Lab#:** AD26083-004
**Matrix:** Aqueous

**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **220** |
| **Calcium** | **1** | **ug/l** | **5000** | **51000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **21000** |
| **Manganese** | **1** | **ug/l** | **40** | **84** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **12000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

Sample ID: FB-20210913
Lab#: AD26083-005
Matrix: Aqueous

Collection Date: 9/13/2021
Receipt Date: 9/17/2021

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 5.0 | ND |
| pH Endpoint | 1 | ph | | 4.2 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 1 | mg/l | 2.0 | ND |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | ND |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** FB-20210913
**Lab#:** AD26083-005
**Matrix:** Aqueous

**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** FB-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-005 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Sulfate | 1 | mg/l | 2.0 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| Calcium | 1 | ug/l | 5000 | ND |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| Sodium | 1 | ug/l | 5000 | ND |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** FB-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-005 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | ND |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** FB-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-005 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-9-20210913 U
**Lab#:** AD26083-006
**Matrix:** Aqueous

**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

### Alkalinity-Total (SM2320B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 210 |
| pH Endpoint | 1 | ph | | 4.5 |

### Ammonia (SM4500-NH3B/C)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

### Bromide (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 1 | mg/l | 2.0 | 26 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

### Hardness 2340B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 250 |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

### Organochlorine Pesticides 8081

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-9-20210913 U
**Lab#:** AD26083-006
**Matrix:** Aqueous
**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-9-20210913 U
**Lab#:** AD26083-006
**Matrix:** Aqueous
**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **1** | **mg/l** | **2.0** | **34** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **680** |
| **Barium** | **1** | **ug/l** | **50** | **340** |
| **Calcium** | **1** | **ug/l** | **5000** | **61000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **1100** |
| **Magnesium** | **1** | **ug/l** | **5000** | **24000** |
| **Manganese** | **1** | **ug/l** | **40** | **480** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **11000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-9-20210913 U
**Lab#:** AD26083-006
**Matrix:** Aqueous
**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 360 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID: LTMW-9-20210913 U** **Collection Date: 9/13/2021**
**Lab#: AD26083-006** **Receipt Date: 9/17/2021**
**Matrix: Aqueous**

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-9-20210913 F
**Lab#:** AD26083-007
**Matrix:** Aqueous
**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **250** |
| **Calcium** | **1** | **ug/l** | **5000** | **46000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **18000** |
| **Manganese** | **1** | **ug/l** | **40** | **350** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **8900** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LTMW-11-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-008 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 360 |
| pH Endpoint | 1 | ph | | 4.5 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 5 | mg/l | 10 | 170 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 590 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-11-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-008 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-11-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-008 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **5** | **mg/l** | **10** | **110** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **120** |
| **Calcium** | **1** | **ug/l** | **5000** | **140000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **1700** |
| **Magnesium** | **1** | **ug/l** | **5000** | **60000** |
| **Manganese** | **1** | **ug/l** | **40** | **430** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **7100** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **39000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-11-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-008 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 840 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-11-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-008 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** DUP-01-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-009 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

### Alkalinity-Total (SM2320B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 360 |
| pH Endpoint | 1 | ph | | 4.5 |

### Ammonia (SM4500-NH3B/C)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

### Bromide (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 5 | mg/l | 10 | 160 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

### Hardness 2340B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 580 |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

### Organochlorine Pesticides 8081

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** DUP-01-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-009 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** DUP-01-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-009 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **5** | **mg/l** | **10** | **100** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **120** |
| **Calcium** | **1** | **ug/l** | **5000** | **130000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **1700** |
| **Magnesium** | **1** | **ug/l** | **5000** | **60000** |
| **Manganese** | **1** | **ug/l** | **40** | **430** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **6900** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **39000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** DUP-01-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-009 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 790 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** DUP-01-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-009 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** TB-01-20210913
**Lab#:** AD26083-010
**Matrix:** Aqueous

**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

Sample ID: LTMW-7-20210913
Lab#: AD26083-011
Matrix: Aqueous

Collection Date: 9/13/2021
Receipt Date: 9/17/2021

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 200 |
| pH Endpoint | 1 | ph | | 4.5 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 5 | mg/l | 10 | 73 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 260 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-7-20210913
**Lab#:** AD26083-011
**Matrix:** Aqueous

**Collection Date:** 9/13/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-7-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-011 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **1** | **mg/l** | **2.0** | **25** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **300** |
| **Calcium** | **1** | **ug/l** | **5000** | **78000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **16000** |
| **Manganese** | **1** | **ug/l** | **40** | **620** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **20000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-7-20210913 | **Collection Date:** 9/13/2021
**Lab#:** AD26083-011 | **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 410 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-7-20210913 **Collection Date:** 9/13/2021
**Lab#:** AD26083-011 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

Sample ID: LTMW-21-20210914 U
Lab#: AD26083-012
Matrix: Aqueous

Collection Date: 9/14/2021
Receipt Date: 9/17/2021

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 59 |
| pH Endpoint | 1 | ph | | 4.5 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 1 | mg/l | 2.0 | 6.6 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 46 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-21-20210914 U
**Lab#:** AD26083-012
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-21-20210914 U
**Lab#:** AD26083-012
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| **Caprolactam** | **1** | **ug/l** | **0.0020** | **0.096** |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Sulfate | 1 | mg/l | 2.0 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **320** |
| **Barium** | **1** | **ug/l** | **50** | **110** |
| **Calcium** | **1** | **ug/l** | **5000** | **8800** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **20000** |
| **Magnesium** | **1** | **ug/l** | **5000** | **5800** |
| **Manganese** | **1** | **ug/l** | **40** | **750** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **7400** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-21-20210914 U
**Lab#:** AD26083-012
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 92 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-21-20210914 U
**Lab#:** AD26083-012
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-21-20210914 F
**Lab#:** AD26083-013
**Matrix:** Aqueous

**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **84** |
| **Calcium** | **1** | **ug/l** | **5000** | **7300** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **15000** |
| Magnesium | 1 | ug/l | 5000 | ND |
| **Manganese** | **1** | **ug/l** | **40** | **570** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **6600** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LTMW-12-20210914 U
**Lab#:** AD26083-014
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

### Alkalinity-Total (SM2320B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 150 |
| pH Endpoint | 1 | ph | | 4.5 |

### Ammonia (SM4500-NH3B/C)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

### Bromide (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 5 | mg/l | 10 | 100 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

### Hardness 2340B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 89 |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

### Organochlorine Pesticides 8081

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-12-20210914 U
**Lab#:** AD26083-014
**Matrix:** Aqueous

**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-12-20210914 U
**Lab#:** AD26083-014
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **1** | **mg/l** | **2.0** | **48** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **280** |
| **Barium** | **1** | **ug/l** | **50** | **120** |
| **Calcium** | **1** | **ug/l** | **5000** | **20000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **860** |
| **Magnesium** | **1** | **ug/l** | **5000** | **9800** |
| **Manganese** | **1** | **ug/l** | **40** | **110** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **100000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **14** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-12-20210914 U
**Lab#:** AD26083-014
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 430 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID: LTMW-12-20210914 U** **Collection Date: 9/14/2021**
**Lab#: AD26083-014** **Receipt Date: 9/17/2021**
**Matrix: Aqueous**

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-12-20210914 F
**Lab#:** AD26083-015
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **97** |
| **Calcium** | **1** | **ug/l** | **5000** | **17000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **8100** |
| **Manganese** | **1** | **ug/l** | **40** | **79** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **88000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **11** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

Sample ID: LTMW-6-20210914 U
Lab#: AD26083-016
Matrix: Aqueous

Collection Date: 9/14/2021
Receipt Date: 9/17/2021

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 200 |
| pH Endpoint | 1 | ph | | 4.5 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 1 | mg/l | 2.0 | 6.6 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 150 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-6-20210914 U
**Lab#:** AD26083-016
**Matrix:** Aqueous

**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-6-20210914 U
**Lab#:** AD26083-016
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **1** | **mg/l** | **2.0** | **6.1** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **180** |
| **Calcium** | **1** | **ug/l** | **5000** | **42000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **11000** |
| **Manganese** | **1** | **ug/l** | **40** | **260** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **13000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-6-20210914 U
**Lab#:** AD26083-016
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 220 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-6-20210914 U
**Lab#:** AD26083-016
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-6-20210914 F
**Lab#:** AD26083-017
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **150** |
| **Calcium** | **1** | **ug/l** | **5000** | **33000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **8600** |
| **Manganese** | **1** | **ug/l** | **40** | **150** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **11000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LTMW-13-20210914 | **Collection Date:** 9/14/2021
**Lab#:** AD26083-018 | **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 200 |
| pH Endpoint | 1 | ph | | 4.5 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 2 | mg/l | 4.0 | 72 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 99 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-13-20210914 **Collection Date:** 9/14/2021
**Lab#:** AD26083-018 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-13-20210914 **Collection Date:** 9/14/2021
**Lab#:** AD26083-018 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | 1 | mg/l | 2.0 | 15 |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | 1 | ug/l | 200 | 1400 |
| **Barium** | 1 | ug/l | 50 | 120 |
| **Calcium** | 1 | ug/l | 5000 | 14000 |
| Chromium | 1 | ug/l | 50 | ND |
| **Copper** | 1 | ug/l | 50 | 69 |
| **Iron** | 1 | ug/l | 300 | 4200 |
| **Magnesium** | 1 | ug/l | 5000 | 16000 |
| **Manganese** | 1 | ug/l | 40 | 180 |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | 1 | ug/l | 5000 | 86000 |
| Vanadium | 1 | ug/l | 50 | ND |
| **Zinc** | 1 | ug/l | 50 | 72 |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | 1 | ug/l | 2.0 | 2.7 |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| **Cobalt** | 1 | ug/l | 2.0 | 2.8 |
| **Lead** | 1 | ug/l | 3.0 | 11 |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-13-20210914 **Collection Date:** 9/14/2021
**Lab#:** AD26083-018 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 380 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-13-20210914 **Collection Date:** 9/14/2021
**Lab#:** AD26083-018 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-15-20210914 U
**Lab#:** AD26083-019
**Matrix:** Aqueous

**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

### Alkalinity-Total (SM2320B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 300 |
| pH Endpoint | 1 | ph | | 4.5 |

### Ammonia (SM4500-NH3B/C)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

### Bromide (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | 2.9 |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 50 | mg/l | 100 | 910 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

### Hardness 2340B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 260 |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

### Organochlorine Pesticides 8081

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.011 | ND |
| Aldrin | 1 | ug/l | 0.011 | ND |
| Alpha-BHC | 1 | ug/l | 0.011 | ND |
| beta-BHC | 1 | ug/l | 0.011 | ND |
| Chlordane (Total) | 1 | ug/l | 0.011 | ND |
| delta-BHC | 1 | ug/l | 0.011 | ND |
| Dieldrin | 1 | ug/l | 0.011 | ND |
| Endosulfan I | 1 | ug/l | 0.011 | ND |
| Endosulfan II | 1 | ug/l | 0.011 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.011 | ND |
| Endrin | 1 | ug/l | 0.011 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.011 | ND |
| Endrin Ketone | 1 | ug/l | 0.011 | ND |
| gamma-BHC | 1 | ug/l | 0.011 | ND |
| Heptachlor | 1 | ug/l | 0.011 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.011 | ND |
| Methoxychlor | 1 | ug/l | 0.015 | ND |
| p,p'-DDD | 1 | ug/l | 0.011 | ND |
| p,p'-DDE | 1 | ug/l | 0.011 | ND |
| p,p'-DDT | 1 | ug/l | 0.011 | ND |
| Toxaphene | 1 | ug/l | 0.26 | ND |
| y-Chlordane | 1 | ug/l | 0.011 | ND |

**Sample ID:** LTMW-15-20210914 U
**Lab#:** AD26083-019
**Matrix:** Aqueous

**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.26 | ND |
| Aroclor-1016 | 1 | ug/l | 0.26 | ND |
| Aroclor-1221 | 1 | ug/l | 0.26 | ND |
| Aroclor-1232 | 1 | ug/l | 0.26 | ND |
| Aroclor-1242 | 1 | ug/l | 0.26 | ND |
| Aroclor-1248 | 1 | ug/l | 0.26 | ND |
| Aroclor-1254 | 1 | ug/l | 0.26 | ND |
| Aroclor-1260 | 1 | ug/l | 0.26 | ND |
| Aroclor-1262 | 1 | ug/l | 0.26 | ND |
| Aroclor-1268 | 1 | ug/l | 0.26 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0021 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0021 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00053 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00053 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00058 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.011 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0021 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0021 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.0085 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0021 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00053 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| Acenaphthene | 1 | ug/l | 0.0021 | ND |
| Acenaphthylene | 1 | ug/l | 0.0021 | ND |
| Acetophenone | 1 | ug/l | 0.0021 | ND |
| Anthracene | 1 | ug/l | 0.0021 | ND |
| Atrazine | 1 | ug/l | 0.0021 | ND |
| Benzaldehyde | 1 | ug/l | 0.0021 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0021 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0021 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0021 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0021 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00053 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0021 | ND |

**Sample ID:** LTMW-15-20210914 U
**Lab#:** AD26083-019
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0021 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0021 | ND |
| Caprolactam | 1 | ug/l | 0.0021 | ND |
| Carbazole | 1 | ug/l | 0.0021 | ND |
| Chrysene | 1 | ug/l | 0.0021 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0021 | ND |
| Dibenzofuran | 1 | ug/l | 0.00072 | ND |
| Diethylphthalate | 1 | ug/l | 0.0021 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0021 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0021 | ND |
| Fluoranthene | 1 | ug/l | 0.0021 | ND |
| Fluorene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0021 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0021 | ND |
| Hexachloroethane | 1 | ug/l | 0.0021 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0021 | ND |
| Isophorone | 1 | ug/l | 0.0021 | ND |
| Naphthalene | 1 | ug/l | 0.00053 | ND |
| Nitrobenzene | 1 | ug/l | 0.0021 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00068 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0021 | ND |
| Pentachlorophenol | 1 | ug/l | 0.0080 | ND |
| Phenanthrene | 1 | ug/l | 0.0021 | ND |
| Phenol | 1 | ug/l | 0.0021 | ND |
| Pyrene | 1 | ug/l | 0.0021 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **5** | **mg/l** | **10** | **93** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **250** |
| **Barium** | **1** | **ug/l** | **50** | **79** |
| **Calcium** | **1** | **ug/l** | **5000** | **32000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **1400** |
| **Magnesium** | **1** | **ug/l** | **5000** | **43000** |
| **Manganese** | **1** | **ug/l** | **40** | **120** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **31000** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **560000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **8.1** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-15-20210914 U
**Lab#:** AD26083-019
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 1800 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-15-20210914 U
**Lab#:** AD26083-019
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-15-20210914 F
**Lab#:** AD26083-020
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **64** |
| **Calcium** | **1** | **ug/l** | **5000** | **27000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **600** |
| **Magnesium** | **1** | **ug/l** | **5000** | **35000** |
| **Manganese** | **1** | **ug/l** | **40** | **94** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **25000** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **440000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **6.1** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

Sample ID: LTMW-5B-20210914 U
Lab#: AD26083-021
Matrix: Aqueous

Collection Date: 9/14/2021
Receipt Date: 9/17/2021

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 180 |
| pH Endpoint | 1 | ph | | 4.5 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 1 | mg/l | 2.0 | 10.0 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 140 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-5B-20210914 U
**Lab#:** AD26083-021
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
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**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-5B-20210914 U
**Lab#:** AD26083-021
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
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| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **1** | **mg/l** | **2.0** | **9.5** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **930** |
| **Barium** | **1** | **ug/l** | **50** | **200** |
| **Calcium** | **1** | **ug/l** | **5000** | **36000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **1900** |
| **Magnesium** | **1** | **ug/l** | **5000** | **12000** |
| **Manganese** | **1** | **ug/l** | **40** | **240** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **20000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-5B-20210914 U
**Lab#:** AD26083-021
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
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| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 250 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-5B-20210914 U
**Lab#:** AD26083-021
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-5B-20210914 F
**Lab#:** AD26083-022
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **160** |
| **Calcium** | **1** | **ug/l** | **5000** | **31000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **9400** |
| **Manganese** | **1** | **ug/l** | **40** | **170** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **17000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** DUP-02-20210914 U
**Lab#:** AD26083-023
**Matrix:** Aqueous

**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

### Alkalinity-Total (SM2320B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 180 |
| pH Endpoint | 1 | ph | | 4.5 |

### Ammonia (SM4500-NH3B/C)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

### Bromide (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 1 | mg/l | 2.0 | 9.7 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

### Hardness 2340B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 130 |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

### Organochlorine Pesticides 8081

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** DUP-02-20210914 U
**Lab#:** AD26083-023
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** DUP-02-20210914 U
**Lab#:** AD26083-023
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | 1 | mg/l | 2.0 | 9.3 |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | 1 | ug/l | 200 | 870 |
| **Barium** | 1 | ug/l | 50 | 200 |
| **Calcium** | 1 | ug/l | 5000 | 35000 |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | 1 | ug/l | 300 | 1700 |
| **Magnesium** | 1 | ug/l | 5000 | 11000 |
| **Manganese** | 1 | ug/l | 40 | 230 |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | 1 | ug/l | 5000 | 19000 |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** DUP-02-20210914 U
**Lab#:** AD26083-023
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 230 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** DUP-02-20210914 U
**Lab#:** AD26083-023
**Matrix:** Aqueous
**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** DUP-02-20210914 F
**Lab#:** AD26083-024
**Matrix:** Aqueous

**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **150** |
| **Calcium** | **1** | **ug/l** | **5000** | **29000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **8800** |
| **Manganese** | **1** | **ug/l** | **40** | **160** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **16000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** TB-02-20210914
**Lab#:** AD26083-025
**Matrix:** Aqueous

**Collection Date:** 9/14/2021
**Receipt Date:** 9/17/2021

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-5A-20210915 | **Collection Date:** 9/15/2021
**Lab#:** AD26083-026 | **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

### Alkalinity-Total (SM2320B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 140 |
| pH Endpoint | 1 | ph | | 4.5 |

### Ammonia (SM4500-NH3B/C)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

### Bromide (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 5 | mg/l | 10 | 120 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

### Hardness 2340B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 200 |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

### Organochlorine Pesticides 8081

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-5A-20210915 | **Collection Date:** 9/15/2021
**Lab#:** AD26083-026 | **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-5A-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-026 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **1** | **mg/l** | **2.0** | **13** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **430** |
| **Calcium** | **1** | **ug/l** | **5000** | **60000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **13000** |
| **Manganese** | **1** | **ug/l** | **40** | **78** |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **39000** |
| Vanadium | 1 | ug/l | 50 | ND |
| **Zinc** | **1** | **ug/l** | **50** | **72** |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **2.1** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-5A-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-026 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 400 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-5A-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-026 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

Sample ID: LTMW-17-20210915
Lab#: AD26083-027
Matrix: Aqueous

Collection Date: 9/15/2021
Receipt Date: 9/17/2021

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 380 |
| pH Endpoint | 1 | ph | | 4.5 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 10 | mg/l | 20 | 320 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 44 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-17-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-027 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-17-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-027 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **10** | **mg/l** | **20** | **73** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **96** |
| **Calcium** | **1** | **ug/l** | **5000** | **6400** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **400** |
| **Magnesium** | **1** | **ug/l** | **5000** | **6900** |
| **Manganese** | **1** | **ug/l** | **40** | **48** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **15000** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **340000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **9.1** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-17-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-027 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 1100 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | 9.6 |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID: LTMW-17-20210915** **Collection Date: 9/15/2021**
**Lab#: AD26083-027** **Receipt Date: 9/17/2021**
**Matrix: Aqueous**

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-4-20210915 U
**Lab#:** AD26083-028
**Matrix:** Aqueous
**Collection Date:** 9/15/2021
**Receipt Date:** 9/17/2021

### Alkalinity-Total (SM2320B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 100 |
| pH Endpoint | 1 | ph | | 4.5 |

### Ammonia (SM4500-NH3B/C)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

### Bromide (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | 3.2 |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 50 | mg/l | 100 | 980 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

### Hardness 2340B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 880 |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

### Organochlorine Pesticides 8081

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-4-20210915 U
**Lab#:** AD26083-028
**Matrix:** Aqueous

**Collection Date:** 9/15/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-4-20210915 U
**Lab#:** AD26083-028
**Matrix:** Aqueous
**Collection Date:** 9/15/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| **Caprolactam** | **1** | **ug/l** | **0.0020** | **0.022** |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **1** | **mg/l** | **2.0** | **11** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **7600** |
| **Barium** | **1** | **ug/l** | **50** | **1600** |
| **Calcium** | **1** | **ug/l** | **5000** | **230000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **15000** |
| **Magnesium** | **1** | **ug/l** | **5000** | **73000** |
| **Manganese** | **1** | **ug/l** | **40** | **1100** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **8500** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **190000** |
| Vanadium | 1 | ug/l | 50 | ND |
| **Zinc** | **1** | **ug/l** | **50** | **87** |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **5.0** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| **Cobalt** | **1** | **ug/l** | **2.0** | **7.5** |
| **Lead** | **1** | **ug/l** | **3.0** | **7.8** |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-4-20210915 U
**Lab#:** AD26083-028
**Matrix:** Aqueous
**Collection Date:** 9/15/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 2600 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-4-20210915 U
**Lab#:** AD26083-028
**Matrix:** Aqueous

**Collection Date:** 9/15/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-4-20210915 F
**Lab#:** AD26083-029
**Matrix:** Aqueous

**Collection Date:** 9/15/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **1300** |
| **Calcium** | **1** | **ug/l** | **5000** | **200000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **410** |
| **Magnesium** | **1** | **ug/l** | **5000** | **59000** |
| **Manganese** | **1** | **ug/l** | **40** | **660** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **6200** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **170000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LTMW-16-20210915 U
**Lab#:** AD26083-030
**Matrix:** Aqueous
**Collection Date:** 9/15/2021
**Receipt Date:** 9/17/2021

### Alkalinity-Total (SM2320B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 170 |
| pH Endpoint | 1 | ph | | 4.5 |

### Ammonia (SM4500-NH3B/C)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

### Bromide (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 2 | mg/l | 4.0 | 49 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

### Hardness 2340B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 43 |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

### Organochlorine Pesticides 8081

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.015 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-16-20210915 U
**Lab#:** AD26083-030
**Matrix:** Aqueous
**Collection Date:** 9/15/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-16-20210915 U
**Lab#:** AD26083-030
**Matrix:** Aqueous
**Collection Date:** 9/15/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **1** | **mg/l** | **2.0** | **19** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **110** |
| **Calcium** | **1** | **ug/l** | **5000** | **6800** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **6300** |
| **Manganese** | **1** | **ug/l** | **40** | **51** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **7600** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **80000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-16-20210915 U
**Lab#:** AD26083-030
**Matrix:** Aqueous
**Collection Date:** 9/15/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 330 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-16-20210915 U
**Lab#:** AD26083-030
**Matrix:** Aqueous
**Collection Date:** 9/15/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-16-20210915 F
**Lab#:** AD26083-031
**Matrix:** Aqueous
**Collection Date:** 9/15/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **87** |
| **Calcium** | **1** | **ug/l** | **5000** | **5200** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **6500** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **66000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

Sample ID: LTMW-3-20210915
Lab#: AD26083-032
Matrix: Aqueous

Collection Date: 9/15/2021
Receipt Date: 9/17/2021

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 510 |
| pH Endpoint | 1 | ph | | 4.5 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | 1.9 |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 10 | mg/l | 10 | 32 |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 500 | mg/l | 1000 | 10000 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 10 | mg caco3/l | 330 | 3800 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-3-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-032 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0021 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0021 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00053 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00053 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00058 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.011 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0021 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0021 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.011 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0021 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00053 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| Acenaphthene | 1 | ug/l | 0.0021 | ND |
| Acenaphthylene | 1 | ug/l | 0.0021 | ND |
| Acetophenone | 1 | ug/l | 0.0021 | ND |
| Anthracene | 1 | ug/l | 0.0021 | ND |
| Atrazine | 1 | ug/l | 0.0021 | ND |
| Benzaldehyde | 1 | ug/l | 0.0021 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0021 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0021 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0021 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0021 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00053 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0021 | ND |

**Sample ID:** LTMW-3-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-032 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0021 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0021 | ND |
| Caprolactam | 1 | ug/l | 0.0021 | ND |
| Carbazole | 1 | ug/l | 0.0021 | ND |
| Chrysene | 1 | ug/l | 0.0021 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0021 | ND |
| Dibenzofuran | 1 | ug/l | 0.00072 | ND |
| Diethylphthalate | 1 | ug/l | 0.0021 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0021 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0021 | ND |
| Fluoranthene | 1 | ug/l | 0.0021 | ND |
| Fluorene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0021 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0021 | ND |
| Hexachloroethane | 1 | ug/l | 0.0021 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0021 | ND |
| Isophorone | 1 | ug/l | 0.0021 | ND |
| Naphthalene | 1 | ug/l | 0.00053 | ND |
| Nitrobenzene | 1 | ug/l | 0.0021 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00068 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0021 | ND |
| Pentachlorophenol | 1 | ug/l | 0.011 | ND |
| Phenanthrene | 1 | ug/l | 0.0021 | ND |
| Phenol | 1 | ug/l | 0.0021 | ND |
| Pyrene | 1 | ug/l | 0.0021 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **50** | **mg/l** | **100** | **980** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **76** |
| **Calcium** | **10** | **ug/l** | **50000** | **580000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **25000** |
| **Magnesium** | **10** | **ug/l** | **50000** | **580000** |
| **Manganese** | **1** | **ug/l** | **40** | **2900** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **76000** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **10** | **ug/l** | **50000** | **4700000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **4.2** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-3-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-032 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 200 | 18000 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | 8.8 |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-3-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-032 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** FB-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-033 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 5.0 | ND |
| pH Endpoint | 1 | ph | | 4.2 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 1 | mg/l | 2.0 | ND |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | 0.036 |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | ND |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** FB-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-033 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0021 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0021 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00053 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00053 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00058 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.011 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0021 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0021 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.011 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0021 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00053 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| Acenaphthene | 1 | ug/l | 0.0021 | ND |
| Acenaphthylene | 1 | ug/l | 0.0021 | ND |
| Acetophenone | 1 | ug/l | 0.0021 | ND |
| Anthracene | 1 | ug/l | 0.0021 | ND |
| Atrazine | 1 | ug/l | 0.0021 | ND |
| Benzaldehyde | 1 | ug/l | 0.0021 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0021 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0021 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0021 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0021 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00053 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0021 | ND |

**Sample ID:** FB-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-033 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0021 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0021 | ND |
| Caprolactam | 1 | ug/l | 0.0021 | ND |
| Carbazole | 1 | ug/l | 0.0021 | ND |
| Chrysene | 1 | ug/l | 0.0021 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0021 | ND |
| Dibenzofuran | 1 | ug/l | 0.00072 | ND |
| Diethylphthalate | 1 | ug/l | 0.0021 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0021 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0021 | ND |
| Fluoranthene | 1 | ug/l | 0.0021 | ND |
| Fluorene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0021 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0021 | ND |
| Hexachloroethane | 1 | ug/l | 0.0021 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0021 | ND |
| Isophorone | 1 | ug/l | 0.0021 | ND |
| Naphthalene | 1 | ug/l | 0.00053 | ND |
| Nitrobenzene | 1 | ug/l | 0.0021 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00068 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0021 | ND |
| Pentachlorophenol | 1 | ug/l | 0.011 | ND |
| Phenanthrene | 1 | ug/l | 0.0021 | ND |
| Phenol | 1 | ug/l | 0.0021 | ND |
| Pyrene | 1 | ug/l | 0.0021 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Sulfate | 1 | mg/l | 2.0 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| Calcium | 1 | ug/l | 5000 | ND |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| Sodium | 1 | ug/l | 5000 | ND |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** FB-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-033 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | ND |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** FB-20210915 **Collection Date:** 9/15/2021
**Lab#:** AD26083-033 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** TB-03-20210915
**Lab#:** AD26083-034
**Matrix:** Aqueous

**Collection Date:** 9/15/2021
**Receipt Date:** 9/17/2021

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-18C-20210916
**Lab#:** AD26083-035
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

### Alkalinity-Total (SM2320B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 75 |
| pH Endpoint | 1 | ph | | 4.5 |

### Ammonia (SM4500-NH3B/C)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

### Bromide (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | 1.4 |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 20 | mg/l | 40 | 480 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

### Hardness 2340B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 140 |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

### Organochlorine Pesticides 8081

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-18C-20210916
**Lab#:** AD26083-035
**Matrix:** Aqueous

**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0021 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0021 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00053 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00053 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00058 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.011 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0021 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0021 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.011 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0021 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00053 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| Acenaphthene | 1 | ug/l | 0.0021 | ND |
| Acenaphthylene | 1 | ug/l | 0.0021 | ND |
| Acetophenone | 1 | ug/l | 0.0021 | ND |
| Anthracene | 1 | ug/l | 0.0021 | ND |
| Atrazine | 1 | ug/l | 0.0021 | ND |
| Benzaldehyde | 1 | ug/l | 0.0021 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0021 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0021 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0021 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0021 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00053 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0021 | ND |

**Sample ID:** LTMW-18C-20210916 **Collection Date:** 9/16/2021
**Lab#:** AD26083-035 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0021 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0021 | ND |
| **Caprolactam** | **1** | **ug/l** | **0.0021** | **0.039** |
| Carbazole | 1 | ug/l | 0.0021 | ND |
| Chrysene | 1 | ug/l | 0.0021 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0021 | ND |
| Dibenzofuran | 1 | ug/l | 0.00072 | ND |
| Diethylphthalate | 1 | ug/l | 0.0021 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0021 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0021 | ND |
| Fluoranthene | 1 | ug/l | 0.0021 | ND |
| Fluorene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0021 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0021 | ND |
| Hexachloroethane | 1 | ug/l | 0.0021 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0021 | ND |
| Isophorone | 1 | ug/l | 0.0021 | ND |
| Naphthalene | 1 | ug/l | 0.00053 | ND |
| Nitrobenzene | 1 | ug/l | 0.0021 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00068 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0021 | ND |
| Pentachlorophenol | 1 | ug/l | 0.011 | ND |
| Phenanthrene | 1 | ug/l | 0.0021 | ND |
| Phenol | 1 | ug/l | 0.0021 | ND |
| Pyrene | 1 | ug/l | 0.0021 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **20** | **mg/l** | **40** | **96** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **240** |
| **Calcium** | **1** | **ug/l** | **5000** | **20000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **22000** |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **33000** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **270000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-18C-20210916 **Collection Date:** 9/16/2021
**Lab#:** AD26083-035 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 1100 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-18C-20210916 **Collection Date:** 9/16/2021
**Lab#:** AD26083-035 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

Sample ID: LTMW-2-20210916 U
Lab#: AD26083-036
Matrix: Aqueous

Collection Date: 9/16/2021
Receipt Date: 9/17/2021

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 200 |
| pH Endpoint | 1 | ph | | 4.5 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 5 | mg/l | 5.0 | 22 |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 500 | mg/l | 1000 | 6800 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 10 | mg caco3/l | 330 | 4100 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-2-20210916 U
**Lab#:** AD26083-036
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0021 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0021 | ND |
| **1,4-Dioxane** | **1** | **ug/l** | **0.00053** | **0.00060** |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00053 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00058 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.011 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0021 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0021 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.011 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0021 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00053 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| Acenaphthene | 1 | ug/l | 0.0021 | ND |
| Acenaphthylene | 1 | ug/l | 0.0021 | ND |
| Acetophenone | 1 | ug/l | 0.0021 | ND |
| Anthracene | 1 | ug/l | 0.0021 | ND |
| Atrazine | 1 | ug/l | 0.0021 | ND |
| Benzaldehyde | 1 | ug/l | 0.0021 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0021 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0021 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0021 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0021 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00053 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0021 | ND |

**Sample ID:** LTMW-2-20210916 U
**Lab#:** AD26083-036
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0021 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0021 | ND |
| Caprolactam | 1 | ug/l | 0.0021 | ND |
| Carbazole | 1 | ug/l | 0.0021 | ND |
| Chrysene | 1 | ug/l | 0.0021 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0021 | ND |
| Dibenzofuran | 1 | ug/l | 0.00072 | ND |
| Diethylphthalate | 1 | ug/l | 0.0021 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0021 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0021 | ND |
| Fluoranthene | 1 | ug/l | 0.0021 | ND |
| Fluorene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0021 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0021 | ND |
| Hexachloroethane | 1 | ug/l | 0.0021 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0021 | ND |
| Isophorone | 1 | ug/l | 0.0021 | ND |
| Naphthalene | 1 | ug/l | 0.00053 | ND |
| Nitrobenzene | 1 | ug/l | 0.0021 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00068 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0021 | ND |
| Pentachlorophenol | 1 | ug/l | 0.011 | ND |
| Phenanthrene | 1 | ug/l | 0.0021 | ND |
| Phenol | 1 | ug/l | 0.0021 | ND |
| Pyrene | 1 | ug/l | 0.0021 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **50** | **mg/l** | **100** | **580** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Aluminum** | **1** | **ug/l** | **200** | **520** |
| **Barium** | **1** | **ug/l** | **50** | **53** |
| **Calcium** | **10** | **ug/l** | **50000** | **1000000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **5000** |
| **Magnesium** | **10** | **ug/l** | **50000** | **350000** |
| **Manganese** | **1** | **ug/l** | **40** | **6700** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **36000** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **10** | **ug/l** | **50000** | **2500000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **7.0** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| **Cobalt** | **1** | **ug/l** | **2.0** | **7.3** |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-2-20210916 U
**Lab#:** AD26083-036
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 200 | 19000 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-2-20210916 U
**Lab#:** AD26083-036
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-2-20210916 F
**Lab#:** AD26083-037
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **10** | **ug/l** | **50000** | **830000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **2300** |
| **Magnesium** | **10** | **ug/l** | **50000** | **280000** |
| **Manganese** | **1** | **ug/l** | **40** | **5100** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **31000** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **10** | **ug/l** | **50000** | **2000000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **3.2** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| **Cobalt** | **1** | **ug/l** | **2.0** | **4.7** |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

Sample ID: LTMW-18UG-20210916 U
Lab#: AD26083-038
Matrix: Aqueous

Collection Date: 9/16/2021
Receipt Date: 9/17/2021

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 48 |
| pH Endpoint | 1 | ph | | 4.5 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 1 | mg/l | 2.0 | 33 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | 0.029 |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 76 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.015 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.26 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-18UG-20210916 U
**Lab#:** AD26083-038
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.26 | ND |
| Aroclor-1016 | 1 | ug/l | 0.26 | ND |
| Aroclor-1221 | 1 | ug/l | 0.26 | ND |
| Aroclor-1232 | 1 | ug/l | 0.26 | ND |
| Aroclor-1242 | 1 | ug/l | 0.26 | ND |
| Aroclor-1248 | 1 | ug/l | 0.26 | ND |
| Aroclor-1254 | 1 | ug/l | 0.26 | ND |
| Aroclor-1260 | 1 | ug/l | 0.26 | ND |
| Aroclor-1262 | 1 | ug/l | 0.26 | ND |
| Aroclor-1268 | 1 | ug/l | 0.26 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0021 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0021 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00053 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00053 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00058 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.011 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0021 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0021 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.011 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0021 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00053 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| Acenaphthene | 1 | ug/l | 0.0021 | ND |
| Acenaphthylene | 1 | ug/l | 0.0021 | ND |
| Acetophenone | 1 | ug/l | 0.0021 | ND |
| Anthracene | 1 | ug/l | 0.0021 | ND |
| Atrazine | 1 | ug/l | 0.0021 | ND |
| Benzaldehyde | 1 | ug/l | 0.0021 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0021 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0021 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0021 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0021 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00053 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0021 | ND |

**Sample ID:** LTMW-18UG-20210916 U
**Lab#:** AD26083-038
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0021 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0021 | ND |
| Caprolactam | 1 | ug/l | 0.0021 | ND |
| Carbazole | 1 | ug/l | 0.0021 | ND |
| Chrysene | 1 | ug/l | 0.0021 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0021 | ND |
| Dibenzofuran | 1 | ug/l | 0.00072 | ND |
| Diethylphthalate | 1 | ug/l | 0.0021 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0021 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0021 | ND |
| Fluoranthene | 1 | ug/l | 0.0021 | ND |
| Fluorene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0021 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0021 | ND |
| Hexachloroethane | 1 | ug/l | 0.0021 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0021 | ND |
| Isophorone | 1 | ug/l | 0.0021 | ND |
| Naphthalene | 1 | ug/l | 0.00053 | ND |
| Nitrobenzene | 1 | ug/l | 0.0021 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00068 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0021 | ND |
| Pentachlorophenol | 1 | ug/l | 0.011 | ND |
| Phenanthrene | 1 | ug/l | 0.0021 | ND |
| Phenol | 1 | ug/l | 0.0021 | ND |
| Pyrene | 1 | ug/l | 0.0021 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **1** | **mg/l** | **2.0** | **5.5** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **57** |
| **Calcium** | **1** | **ug/l** | **5000** | **20000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **6600** |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **17000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-18UG-20210916 U
**Lab#:** AD26083-038
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 160 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-18UG-20210916 U
**Lab#:** AD26083-038
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-18UG-20210916 F
**Lab#:** AD26083-039
**Matrix:** Aqueous

**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **20000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| **Magnesium** | **1** | **ug/l** | **5000** | **7100** |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| Potassium | 1 | ug/l | 5000 | ND |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **16000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

Sample ID: LTMW-1-20210916 U
Lab#: AD26083-040
Matrix: Aqueous

Collection Date: 9/16/2021
Receipt Date: 9/17/2021

**Alkalinity-Total (SM2320B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 1900 |
| pH Endpoint | 1 | ph | | 4.5 |

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | 97 |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | 10 |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 100 | mg/l | 200 | 1900 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 670 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.014 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-1-20210916 U
**Lab#:** AD26083-040
**Matrix:** Aqueous

**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | ND |
| Aroclor-1016 | 1 | ug/l | 0.25 | ND |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | ND |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | ND |
| **1,4-Dioxane** | **1** | **ug/l** | **0.00050** | **0.031** |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | ND |
| Acenaphthene | 1 | ug/l | 0.0020 | ND |
| Acenaphthylene | 1 | ug/l | 0.0020 | ND |
| Acetophenone | 1 | ug/l | 0.0020 | ND |
| Anthracene | 1 | ug/l | 0.0020 | ND |
| Atrazine | 1 | ug/l | 0.0020 | ND |
| Benzaldehyde | 1 | ug/l | 0.0020 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | ND |

**Sample ID:** LTMW-1-20210916 U
**Lab#:** AD26083-040
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | ND |
| Caprolactam | 1 | ug/l | 0.0020 | ND |
| Carbazole | 1 | ug/l | 0.0020 | ND |
| Chrysene | 1 | ug/l | 0.0020 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | ND |
| Dibenzofuran | 1 | ug/l | 0.00068 | ND |
| Diethylphthalate | 1 | ug/l | 0.0020 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0020 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | ND |
| Fluoranthene | 1 | ug/l | 0.0020 | ND |
| Fluorene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | ND |
| Hexachloroethane | 1 | ug/l | 0.0020 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | ND |
| Isophorone | 1 | ug/l | 0.0020 | ND |
| Naphthalene | 1 | ug/l | 0.00050 | ND |
| Nitrobenzene | 1 | ug/l | 0.0020 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0020 | ND |
| Phenol | 1 | ug/l | 0.0020 | ND |
| Pyrene | 1 | ug/l | 0.0020 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Sulfate | 1 | mg/l | 2.0 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **2400** |
| **Calcium** | **1** | **ug/l** | **5000** | **100000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **12000** |
| **Magnesium** | **1** | **ug/l** | **5000** | **150000** |
| **Manganese** | **1** | **ug/l** | **40** | **570** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **110000** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **10** | **ug/l** | **50000** | **1300000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **2.2** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| **Cobalt** | **1** | **ug/l** | **2.0** | **7.7** |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-1-20210916 U
**Lab#:** AD26083-040
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Total Dissolved Solids @ 180 C** | **1** | **mg/l** | **40** | **4700** |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Total Organic Carbon** | **10** | **mg/l** | **50** | **88** |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| **1,4-Dioxane** | **1** | **ug/l** | **50** | **100** |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| **Acetone** | **1** | **ug/l** | **5.0** | **25** |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| **Methyl-t-butyl ether** | **1** | **ug/l** | **0.50** | **1.0** |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-1-20210916 U
**Lab#:** AD26083-040
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-1-20210916 F
**Lab#:** AD26083-041
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **2000** |
| **Calcium** | **1** | **ug/l** | **5000** | **83000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **9400** |
| **Magnesium** | **1** | **ug/l** | **5000** | **120000** |
| **Manganese** | **1** | **ug/l** | **40** | **470** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **86000** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **10** | **ug/l** | **50000** | **990000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| **Cobalt** | **1** | **ug/l** | **2.0** | **7.0** |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

Sample ID: LTMW-1-20210916MS U
Lab#: AD26083-042
Matrix: Aqueous

Collection Date: 9/16/2021
Receipt Date: 9/17/2021

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 2 | mg/l | 2.0 | 150 |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | 16 |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 100 | mg/l | 200 | 1900 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | 0.33 |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 1200 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | 5.2 |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | 5.3 |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | 0.29 |
| Aldrin | 1 | ug/l | 0.010 | 0.36 |
| Alpha-BHC | 1 | ug/l | 0.010 | 0.25 |
| beta-BHC | 1 | ug/l | 0.010 | 0.25 |
| Chlordane (Total) | 1 | ug/l | 0.010 | 0.58 |
| delta-BHC | 1 | ug/l | 0.010 | 0.28 |
| Dieldrin | 1 | ug/l | 0.010 | 0.34 |
| Endosulfan I | 1 | ug/l | 0.010 | 0.34 |
| Endosulfan II | 1 | ug/l | 0.010 | 0.33 |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | 0.34 |
| Endrin | 1 | ug/l | 0.010 | 0.35 |
| Endrin Aldehyde | 1 | ug/l | 0.010 | 0.25 |
| Endrin Ketone | 1 | ug/l | 0.010 | 0.31 |
| gamma-BHC | 1 | ug/l | 0.010 | 0.38 |
| Heptachlor | 1 | ug/l | 0.010 | 0.33 |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | 0.31 |
| Methoxychlor | 1 | ug/l | 0.014 | 0.34 |
| p,p'-DDD | 1 | ug/l | 0.010 | 0.37 |
| p,p'-DDE | 1 | ug/l | 0.010 | 0.31 |
| p,p'-DDT | 1 | ug/l | 0.010 | 0.34 |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | 0.29 |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | 9.0 |
| Aroclor-1016 | 1 | ug/l | 0.25 | 4.1 |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |

**Sample ID:** LTMW-1-20210916MS U
**Lab#:** AD26083-042
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| **Aroclor-1260** | **1** | **ug/l** | **0.25** | **4.9** |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **1,1'-Biphenyl** | **1** | **ug/l** | **0.0020** | **0.12** |
| **1,2,4,5-Tetrachlorobenzene** | **1** | **ug/l** | **0.0020** | **0.11** |
| **1,4-Dioxane** | **1** | **ug/l** | **0.00050** | **0.12** |
| **2,3,4,6-Tetrachlorophenol** | **1** | **ug/l** | **0.0020** | **0.12** |
| **2,4,5-Trichlorophenol** | **1** | **ug/l** | **0.0020** | **0.13** |
| **2,4,6-Trichlorophenol** | **1** | **ug/l** | **0.0020** | **0.13** |
| **2,4-Dichlorophenol** | **1** | **ug/l** | **0.00050** | **0.11** |
| **2,4-Dimethylphenol** | **1** | **ug/l** | **0.00055** | **0.13** |
| **2,4-Dinitrophenol** | **1** | **ug/l** | **0.010** | **0.098** |
| **2,4-Dinitrotoluene** | **1** | **ug/l** | **0.0020** | **0.11** |
| **2,6-Dinitrotoluene** | **1** | **ug/l** | **0.0020** | **0.11** |
| **2-Chloronaphthalene** | **1** | **ug/l** | **0.0020** | **0.10** |
| **2-Chlorophenol** | **1** | **ug/l** | **0.0020** | **0.10** |
| **2-Methylnaphthalene** | **1** | **ug/l** | **0.0020** | **0.11** |
| **2-Methylphenol** | **1** | **ug/l** | **0.00050** | **0.099** |
| **2-Nitroaniline** | **1** | **ug/l** | **0.0020** | **0.12** |
| **2-Nitrophenol** | **1** | **ug/l** | **0.0020** | **0.12** |
| **3&4-Methylphenol** | **1** | **ug/l** | **0.00050** | **0.099** |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | ND |
| **3-Nitroaniline** | **1** | **ug/l** | **0.0020** | **0.086** |
| **4,6-Dinitro-2-methylphenol** | **1** | **ug/l** | **0.010** | **0.10** |
| **4-Bromophenyl-phenylether** | **1** | **ug/l** | **0.0020** | **0.12** |
| **4-Chloro-3-methylphenol** | **1** | **ug/l** | **0.0020** | **0.13** |
| **4-Chloroaniline** | **1** | **ug/l** | **0.00050** | **0.078** |
| **4-Chlorophenyl-phenylether** | **1** | **ug/l** | **0.0020** | **0.11** |
| **4-Nitroaniline** | **1** | **ug/l** | **0.0020** | **0.092** |
| **4-Nitrophenol** | **1** | **ug/l** | **0.0020** | **0.060** |
| **Acenaphthene** | **1** | **ug/l** | **0.0020** | **0.11** |
| **Acenaphthylene** | **1** | **ug/l** | **0.0020** | **0.11** |
| **Acetophenone** | **1** | **ug/l** | **0.0020** | **0.11** |
| **Anthracene** | **1** | **ug/l** | **0.0020** | **0.11** |
| **Atrazine** | **1** | **ug/l** | **0.0020** | **0.072** |
| **Benzaldehyde** | **1** | **ug/l** | **0.0020** | **0.044** |
| **Benzo[a]anthracene** | **1** | **ug/l** | **0.0020** | **0.11** |
| **Benzo[a]pyrene** | **1** | **ug/l** | **0.0020** | **0.12** |
| **Benzo[b]fluoranthene** | **1** | **ug/l** | **0.0020** | **0.12** |
| **Benzo[g,h,i]perylene** | **1** | **ug/l** | **0.0020** | **0.12** |
| **Benzo[k]fluoranthene** | **1** | **ug/l** | **0.0020** | **0.12** |
| **bis(2-Chloroethoxy)methane** | **1** | **ug/l** | **0.0020** | **0.11** |
| **bis(2-Chloroethyl)ether** | **1** | **ug/l** | **0.00050** | **0.089** |
| **bis(2-Chloroisopropyl)ether** | **1** | **ug/l** | **0.0020** | **0.063** |
| **bis(2-Ethylhexyl)phthalate** | **1** | **ug/l** | **0.0020** | **0.13** |
| **Butylbenzylphthalate** | **1** | **ug/l** | **0.0020** | **0.12** |
| **Caprolactam** | **1** | **ug/l** | **0.0020** | **0.053** |
| **Carbazole** | **1** | **ug/l** | **0.0020** | **0.12** |
| **Chrysene** | **1** | **ug/l** | **0.0020** | **0.12** |
| **Dibenzo[a,h]anthracene** | **1** | **ug/l** | **0.0020** | **0.12** |

**Sample ID:** LTMW-1-20210916MS U
**Lab#:** AD26083-042
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Dibenzofuran | 1 | ug/l | 0.00068 | 0.11 |
| Diethylphthalate | 1 | ug/l | 0.0020 | 0.11 |
| Dimethylphthalate | 1 | ug/l | 0.0020 | 0.11 |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | 0.12 |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | 0.13 |
| Fluoranthene | 1 | ug/l | 0.0020 | 0.11 |
| Fluorene | 1 | ug/l | 0.0020 | 0.11 |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | 0.11 |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | 0.050 |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | 0.084 |
| Hexachloroethane | 1 | ug/l | 0.0020 | 0.018 |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | 0.12 |
| Isophorone | 1 | ug/l | 0.0020 | 0.10 |
| Naphthalene | 1 | ug/l | 0.00050 | 0.073 |
| Nitrobenzene | 1 | ug/l | 0.0020 | 0.095 |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | 0.10 |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | 0.095 |
| Pentachlorophenol | 1 | ug/l | 0.010 | 0.15 |
| Phenanthrene | 1 | ug/l | 0.0020 | 0.11 |
| Phenol | 1 | ug/l | 0.0020 | 0.051 |
| Pyrene | 1 | ug/l | 0.0020 | 0.11 |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Sulfate | 1 | mg/l | 2.0 | 6.0 |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | 4700 |
| Barium | 1 | ug/l | 50 | 2900 |
| Calcium | 1 | ug/l | 5000 | 150000 |
| Chromium | 1 | ug/l | 50 | 500 |
| Copper | 1 | ug/l | 50 | 510 |
| Iron | 1 | ug/l | 300 | 17000 |
| Magnesium | 1 | ug/l | 5000 | 200000 |
| Manganese | 1 | ug/l | 40 | 1100 |
| Nickel | 1 | ug/l | 50 | 540 |
| Potassium | 1 | ug/l | 5000 | 160000 |
| Silver | 1 | ug/l | 20 | 100 |
| Sodium | 10 | ug/l | 50000 | 1400000 |
| Vanadium | 1 | ug/l | 50 | 520 |
| Zinc | 1 | ug/l | 50 | 530 |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | 460 |
| Arsenic | 1 | ug/l | 2.0 | 490 |
| Beryllium | 1 | ug/l | 1.0 | 440 |
| Cadmium | 1 | ug/l | 2.0 | 460 |
| Cobalt | 1 | ug/l | 2.0 | 460 |
| Lead | 1 | ug/l | 3.0 | 420 |
| Selenium | 1 | ug/l | 10 | 480 |
| Thallium | 1 | ug/l | 2.0 | 420 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 10 | mg/l | 50 | 130 |

Sample ID: LTMW-1-20210916MS U
Lab#: AD26083-042
Matrix: Aqueous

Collection Date: 9/16/2021
Receipt Date: 9/17/2021

Volatile Organics (no search) 8260

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | 18 |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | 16 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | 16 |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | 16 |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | 20 |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | 19 |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | 15 |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | 14 |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | 16 |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | 15 |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | 14 |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | 19 |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | 19 |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | 14 |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | 14 |
| 1,4-Dioxane | 1 | ug/l | 50 | 1000 |
| 2-Butanone | 1 | ug/l | 1.0 | 29 |
| 2-Hexanone | 1 | ug/l | 1.0 | 21 |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | 21 |
| Acetone | 1 | ug/l | 5.0 | 150 |
| Benzene | 1 | ug/l | 0.50 | 17 |
| Bromochloromethane | 1 | ug/l | 1.0 | 22 |
| Bromodichloromethane | 1 | ug/l | 1.0 | 17 |
| Bromoform | 1 | ug/l | 1.0 | 14 |
| Bromomethane | 1 | ug/l | 1.0 | 5.8 |
| Carbon disulfide | 1 | ug/l | 1.0 | 28 |
| Carbon tetrachloride | 1 | ug/l | 1.0 | 15 |
| Chlorobenzene | 1 | ug/l | 1.0 | 15 |
| Chloroethane | 1 | ug/l | 1.0 | 13 |
| Chloroform | 1 | ug/l | 2.0 | 18 |
| Chloromethane | 1 | ug/l | 1.0 | 26 |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | 19 |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | 14 |
| Cyclohexane | 1 | ug/l | 1.0 | 18 |
| Dibromochloromethane | 1 | ug/l | 1.0 | 15 |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | 34 |
| Ethylbenzene | 1 | ug/l | 1.0 | 15 |
| Isopropylbenzene | 1 | ug/l | 1.0 | 15 |
| m&p-Xylenes | 1 | ug/l | 1.0 | 30 |
| Methyl Acetate | 1 | ug/l | 1.0 | 23 |
| Methylcyclohexane | 1 | ug/l | 1.0 | 13 |
| Methylene chloride | 1 | ug/l | 1.0 | 17 |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | 20 |
| o-Xylene | 1 | ug/l | 1.0 | 15 |
| Styrene | 1 | ug/l | 1.0 | 14 |
| Tetrachloroethene | 1 | ug/l | 1.0 | 15 |
| Toluene | 1 | ug/l | 1.0 | 16 |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | 17 |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | 13 |
| Trichloroethene | 1 | ug/l | 1.0 | 16 |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | 20 |
| Vinyl chloride | 1 | ug/l | 1.0 | 15 |
| Xylenes (Total) | 1 | ug/l | 1.0 | 45 |

Sample ID: LTMW-1-20210916MS F
Lab#: AD26083-043
Matrix: Aqueous

Collection Date: 9/16/2021
Receipt Date: 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | 7.2 |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | 4900 |
| Barium | 1 | ug/l | 50 | 2200 |
| Calcium | 1 | ug/l | 5000 | 120000 |
| Chromium | 1 | ug/l | 50 | 490 |
| Copper | 1 | ug/l | 50 | 500 |
| Iron | 1 | ug/l | 300 | 13000 |
| Magnesium | 1 | ug/l | 5000 | 150000 |
| Manganese | 1 | ug/l | 40 | 880 |
| Nickel | 1 | ug/l | 50 | 510 |
| Potassium | 1 | ug/l | 5000 | 140000 |
| Silver | 1 | ug/l | 20 | 100 |
| Sodium | 10 | ug/l | 50000 | 1100000 |
| Vanadium | 1 | ug/l | 50 | 500 |
| Zinc | 1 | ug/l | 50 | 500 |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | 450 |
| Arsenic | 1 | ug/l | 2.0 | 460 |
| Beryllium | 1 | ug/l | 1.0 | 450 |
| Cadmium | 1 | ug/l | 2.0 | 450 |
| Cobalt | 1 | ug/l | 2.0 | 450 |
| Lead | 1 | ug/l | 3.0 | 420 |
| Selenium | 1 | ug/l | 10 | 450 |
| Thallium | 1 | ug/l | 2.0 | 430 |

Sample ID: LTMW-1-20210916MSD U
Lab#: AD26083-044
Matrix: Aqueous

Collection Date: 9/16/2021
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**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 2 | mg/l | 2.0 | 160 |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | 15 |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 100 | mg/l | 200 | 2000 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | 0.36 |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 1200 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | 5.2 |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | 5.0 |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | 0.34 |
| Aldrin | 1 | ug/l | 0.010 | 0.42 |
| Alpha-BHC | 1 | ug/l | 0.010 | 0.29 |
| beta-BHC | 1 | ug/l | 0.010 | 0.28 |
| Chlordane (Total) | 1 | ug/l | 0.010 | 0.68 |
| delta-BHC | 1 | ug/l | 0.010 | 0.31 |
| Dieldrin | 1 | ug/l | 0.010 | 0.39 |
| Endosulfan I | 1 | ug/l | 0.010 | 0.40 |
| Endosulfan II | 1 | ug/l | 0.010 | 0.38 |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | 0.40 |
| Endrin | 1 | ug/l | 0.010 | 0.40 |
| Endrin Aldehyde | 1 | ug/l | 0.010 | 0.27 |
| Endrin Ketone | 1 | ug/l | 0.010 | 0.39 |
| gamma-BHC | 1 | ug/l | 0.010 | 0.40 |
| Heptachlor | 1 | ug/l | 0.010 | 0.39 |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | 0.36 |
| Methoxychlor | 1 | ug/l | 0.014 | 0.42 |
| p,p'-DDD | 1 | ug/l | 0.010 | 0.41 |
| p,p'-DDE | 1 | ug/l | 0.010 | 0.36 |
| p,p'-DDT | 1 | ug/l | 0.010 | 0.38 |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | 0.34 |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | 8.2 |
| Aroclor-1016 | 1 | ug/l | 0.25 | 3.8 |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |

**Sample ID:** LTMW-1-20210916MSD U
**Lab#:** AD26083-044
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
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| | | | | |
|---|---|---|---|---|
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| Aroclor-1260 | 1 | ug/l | 0.25 | 4.4 |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0020 | 0.12 |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0020 | 0.12 |
| 1,4-Dioxane | 1 | ug/l | 0.00050 | 0.12 |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0020 | 0.11 |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0020 | 0.12 |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0020 | 0.13 |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00050 | 0.11 |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00055 | 0.13 |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | 0.041 |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0020 | 0.11 |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0020 | 0.12 |
| 2-Chloronaphthalene | 1 | ug/l | 0.0020 | 0.10 |
| 2-Chlorophenol | 1 | ug/l | 0.0020 | 0.10 |
| 2-Methylnaphthalene | 1 | ug/l | 0.0020 | 0.11 |
| 2-Methylphenol | 1 | ug/l | 0.00050 | 0.097 |
| 2-Nitroaniline | 1 | ug/l | 0.0020 | 0.12 |
| 2-Nitrophenol | 1 | ug/l | 0.0020 | 0.12 |
| 3&4-Methylphenol | 1 | ug/l | 0.00050 | 0.097 |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0020 | 0.0029 |
| 3-Nitroaniline | 1 | ug/l | 0.0020 | 0.098 |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | 0.072 |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0020 | 0.12 |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0020 | 0.13 |
| 4-Chloroaniline | 1 | ug/l | 0.00050 | 0.092 |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0020 | 0.11 |
| 4-Nitroaniline | 1 | ug/l | 0.0020 | 0.10 |
| 4-Nitrophenol | 1 | ug/l | 0.0020 | 0.056 |
| Acenaphthene | 1 | ug/l | 0.0020 | 0.11 |
| Acenaphthylene | 1 | ug/l | 0.0020 | 0.11 |
| Acetophenone | 1 | ug/l | 0.0020 | 0.11 |
| Anthracene | 1 | ug/l | 0.0020 | 0.11 |
| Atrazine | 1 | ug/l | 0.0020 | 0.088 |
| Benzaldehyde | 1 | ug/l | 0.0020 | 0.052 |
| Benzo[a]anthracene | 1 | ug/l | 0.0020 | 0.10 |
| Benzo[a]pyrene | 1 | ug/l | 0.0020 | 0.11 |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0020 | 0.12 |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0020 | 0.11 |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0020 | 0.11 |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0020 | 0.10 |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00050 | 0.082 |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0020 | 0.059 |
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0020 | 0.12 |
| Butylbenzylphthalate | 1 | ug/l | 0.0020 | 0.12 |
| Caprolactam | 1 | ug/l | 0.0020 | 0.053 |
| Carbazole | 1 | ug/l | 0.0020 | 0.12 |
| Chrysene | 1 | ug/l | 0.0020 | 0.11 |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0020 | 0.12 |

**Sample ID:** LTMW-1-20210916MSD U
**Lab#:** AD26083-044
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
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| | | | | |
|---|---|---|---|---|
| Dibenzofuran | 1 | ug/l | 0.00068 | 0.11 |
| Diethylphthalate | 1 | ug/l | 0.0020 | 0.11 |
| Dimethylphthalate | 1 | ug/l | 0.0020 | 0.11 |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | 0.11 |
| Di-n-octylphthalate | 1 | ug/l | 0.0020 | 0.12 |
| Fluoranthene | 1 | ug/l | 0.0020 | 0.11 |
| Fluorene | 1 | ug/l | 0.0020 | 0.11 |
| Hexachlorobenzene | 1 | ug/l | 0.0020 | 0.11 |
| Hexachlorobutadiene | 1 | ug/l | 0.0020 | 0.050 |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0020 | 0.080 |
| Hexachloroethane | 1 | ug/l | 0.0020 | 0.019 |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0020 | 0.12 |
| Isophorone | 1 | ug/l | 0.0020 | 0.10 |
| Naphthalene | 1 | ug/l | 0.00050 | 0.072 |
| Nitrobenzene | 1 | ug/l | 0.0020 | 0.091 |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00064 | 0.10 |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0020 | 0.094 |
| Pentachlorophenol | 1 | ug/l | 0.010 | 0.12 |
| Phenanthrene | 1 | ug/l | 0.0020 | 0.11 |
| Phenol | 1 | ug/l | 0.0020 | 0.051 |
| Pyrene | 1 | ug/l | 0.0020 | 0.11 |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Sulfate | 1 | mg/l | 2.0 | 5.6 |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | 4600 |
| Barium | 1 | ug/l | 50 | 2900 |
| Calcium | 1 | ug/l | 5000 | 150000 |
| Chromium | 1 | ug/l | 50 | 500 |
| Copper | 1 | ug/l | 50 | 510 |
| Iron | 1 | ug/l | 300 | 17000 |
| Magnesium | 1 | ug/l | 5000 | 200000 |
| Manganese | 1 | ug/l | 40 | 1100 |
| Nickel | 1 | ug/l | 50 | 530 |
| Potassium | 1 | ug/l | 5000 | 160000 |
| Silver | 1 | ug/l | 20 | 100 |
| Sodium | 10 | ug/l | 50000 | 1400000 |
| Vanadium | 1 | ug/l | 50 | 510 |
| Zinc | 1 | ug/l | 50 | 520 |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | 430 |
| Arsenic | 1 | ug/l | 2.0 | 460 |
| Beryllium | 1 | ug/l | 1.0 | 410 |
| Cadmium | 1 | ug/l | 2.0 | 430 |
| Cobalt | 1 | ug/l | 2.0 | 440 |
| Lead | 1 | ug/l | 3.0 | 400 |
| Selenium | 1 | ug/l | 10 | 450 |
| Thallium | 1 | ug/l | 2.0 | 400 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 10 | mg/l | 50 | 130 |

Sample ID: LTMW-1-20210916MSD U
Lab#: AD26083-044
Matrix: Aqueous

Collection Date: 9/16/2021
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Volatile Organics (no search) 8260

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | 17 |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | 17 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | 15 |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | 15 |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | 19 |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | 18 |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | 15 |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | 14 |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | 16 |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | 15 |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | 14 |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | 17 |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | 18 |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | 14 |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | 14 |
| 1,4-Dioxane | 1 | ug/l | 50 | 1100 |
| 2-Butanone | 1 | ug/l | 1.0 | 22 |
| 2-Hexanone | 1 | ug/l | 1.0 | 22 |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | 21 |
| Acetone | 1 | ug/l | 5.0 | 72 |
| Benzene | 1 | ug/l | 0.50 | 16 |
| Bromochloromethane | 1 | ug/l | 1.0 | 20 |
| Bromodichloromethane | 1 | ug/l | 1.0 | 16 |
| Bromoform | 1 | ug/l | 1.0 | 13 |
| Bromomethane | 1 | ug/l | 1.0 | 6.0 |
| Carbon disulfide | 1 | ug/l | 1.0 | 26 |
| Carbon tetrachloride | 1 | ug/l | 1.0 | 14 |
| Chlorobenzene | 1 | ug/l | 1.0 | 15 |
| Chloroethane | 1 | ug/l | 1.0 | 22 |
| Chloroform | 1 | ug/l | 2.0 | 17 |
| Chloromethane | 1 | ug/l | 1.0 | 25 |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | 17 |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | 13 |
| Cyclohexane | 1 | ug/l | 1.0 | 17 |
| Dibromochloromethane | 1 | ug/l | 1.0 | 14 |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | 31 |
| Ethylbenzene | 1 | ug/l | 1.0 | 15 |
| Isopropylbenzene | 1 | ug/l | 1.0 | 15 |
| m&p-Xylenes | 1 | ug/l | 1.0 | 29 |
| Methyl Acetate | 1 | ug/l | 1.0 | 22 |
| Methylcyclohexane | 1 | ug/l | 1.0 | 12 |
| Methylene chloride | 1 | ug/l | 1.0 | 16 |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | 19 |
| o-Xylene | 1 | ug/l | 1.0 | 15 |
| Styrene | 1 | ug/l | 1.0 | 14 |
| Tetrachloroethene | 1 | ug/l | 1.0 | 14 |
| Toluene | 1 | ug/l | 1.0 | 15 |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | 16 |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | 13 |
| Trichloroethene | 1 | ug/l | 1.0 | 15 |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | 18 |
| Vinyl chloride | 1 | ug/l | 1.0 | 23 |
| Xylenes (Total) | 1 | ug/l | 1.0 | 44 |

Sample ID: LTMW-1-20210916MSD F
Lab#: AD26083-045
Matrix: Aqueous

Collection Date: 9/16/2021
Receipt Date: 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | 7.0 |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | 5000 |
| Barium | 1 | ug/l | 50 | 2200 |
| Calcium | 1 | ug/l | 5000 | 120000 |
| Chromium | 1 | ug/l | 50 | 490 |
| Copper | 1 | ug/l | 50 | 500 |
| Iron | 1 | ug/l | 300 | 13000 |
| Magnesium | 1 | ug/l | 5000 | 160000 |
| Manganese | 1 | ug/l | 40 | 890 |
| Nickel | 1 | ug/l | 50 | 510 |
| Potassium | 1 | ug/l | 5000 | 140000 |
| Silver | 1 | ug/l | 20 | 100 |
| Sodium | 10 | ug/l | 50000 | 1100000 |
| Vanadium | 1 | ug/l | 50 | 500 |
| Zinc | 1 | ug/l | 50 | 500 |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | 460 |
| Arsenic | 1 | ug/l | 2.0 | 480 |
| Beryllium | 1 | ug/l | 1.0 | 470 |
| Cadmium | 1 | ug/l | 2.0 | 460 |
| Cobalt | 1 | ug/l | 2.0 | 460 |
| Lead | 1 | ug/l | 3.0 | 440 |
| Selenium | 1 | ug/l | 10 | 470 |
| Thallium | 1 | ug/l | 2.0 | 450 |

**Sample ID:** LTMW-23-20210916 U
**Lab#:** AD26083-046
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

### Alkalinity-Total (SM2320B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 130 |
| pH Endpoint | 1 | ph | | 4.5 |

### Ammonia (SM4500-NH3B/C)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | ND |

### Bromide (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | ND |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 1 | mg/l | 2.0 | 3.4 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | ND |

### Hardness 2340B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 38 |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

### Organochlorine Pesticides 8081

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.015 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.26 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-23-20210916 U
**Lab#:** AD26083-046
**Matrix:** Aqueous

**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.26 | ND |
| Aroclor-1016 | 1 | ug/l | 0.26 | ND |
| Aroclor-1221 | 1 | ug/l | 0.26 | ND |
| Aroclor-1232 | 1 | ug/l | 0.26 | ND |
| Aroclor-1242 | 1 | ug/l | 0.26 | ND |
| Aroclor-1248 | 1 | ug/l | 0.26 | ND |
| Aroclor-1254 | 1 | ug/l | 0.26 | ND |
| Aroclor-1260 | 1 | ug/l | 0.26 | ND |
| Aroclor-1262 | 1 | ug/l | 0.26 | ND |
| Aroclor-1268 | 1 | ug/l | 0.26 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0021 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0021 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00053 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00053 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00058 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.011 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0021 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00053 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0021 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.011 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0021 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00053 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| Acenaphthene | 1 | ug/l | 0.0021 | ND |
| Acenaphthylene | 1 | ug/l | 0.0021 | ND |
| Acetophenone | 1 | ug/l | 0.0021 | ND |
| Anthracene | 1 | ug/l | 0.0021 | ND |
| Atrazine | 1 | ug/l | 0.0021 | ND |
| Benzaldehyde | 1 | ug/l | 0.0021 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0021 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0021 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0021 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0021 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00053 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0021 | ND |

**Sample ID:** LTMW-23-20210916 U
**Lab#:** AD26083-046
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0021 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0021 | ND |
| Caprolactam | 1 | ug/l | 0.0021 | ND |
| Carbazole | 1 | ug/l | 0.0021 | ND |
| Chrysene | 1 | ug/l | 0.0021 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0021 | ND |
| Dibenzofuran | 1 | ug/l | 0.00072 | ND |
| Diethylphthalate | 1 | ug/l | 0.0021 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0021 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0021 | ND |
| Fluoranthene | 1 | ug/l | 0.0021 | ND |
| Fluorene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0021 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0021 | ND |
| Hexachloroethane | 1 | ug/l | 0.0021 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0021 | ND |
| Isophorone | 1 | ug/l | 0.0021 | ND |
| Naphthalene | 1 | ug/l | 0.00053 | ND |
| Nitrobenzene | 1 | ug/l | 0.0021 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00068 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0021 | ND |
| Pentachlorophenol | 1 | ug/l | 0.011 | ND |
| Phenanthrene | 1 | ug/l | 0.0021 | ND |
| Phenol | 1 | ug/l | 0.0021 | ND |
| Pyrene | 1 | ug/l | 0.0021 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **1** | **mg/l** | **2.0** | **15** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **53** |
| **Calcium** | **1** | **ug/l** | **5000** | **12000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **710** |
| Magnesium | 1 | ug/l | 5000 | ND |
| **Manganese** | **1** | **ug/l** | **40** | **120** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **27000** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **29000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-23-20210916 U
**Lab#:** AD26083-046
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 40 | 96 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | ND |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-23-20210916 U
**Lab#:** AD26083-046
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-23-20210916 F
**Lab#:** AD26083-047
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| Barium | 1 | ug/l | 50 | ND |
| **Calcium** | **1** | **ug/l** | **5000** | **9100** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| Iron | 1 | ug/l | 300 | ND |
| Magnesium | 1 | ug/l | 5000 | ND |
| Manganese | 1 | ug/l | 40 | ND |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **22000** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **1** | **ug/l** | **5000** | **25000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| Arsenic | 1 | ug/l | 2.0 | ND |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| Cobalt | 1 | ug/l | 2.0 | ND |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |
| Thallium | 1 | ug/l | 2.0 | ND |

**Sample ID:** LTMW-19-20210916 **Collection Date:** 9/16/2021
**Lab#:** AD26083-048 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

### Alkalinity-Total (SM2320B-11)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Alkalinity | 1 | mg caco3/l | 10 | 800 |
| pH Endpoint | 1 | ph | | 4.5 |

### Ammonia (SM4500-NH3B/C)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | 5.6 |

### Bromide (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 1 | mg/l | 1.0 | 19 |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 200 | mg/l | 400 | 4900 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | 0.022 |

### Hardness 2340B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 1500 |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | ND |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | ND |

### Organochlorine Pesticides 8081

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | ND |
| Aldrin | 1 | ug/l | 0.010 | ND |
| Alpha-BHC | 1 | ug/l | 0.010 | ND |
| beta-BHC | 1 | ug/l | 0.010 | ND |
| Chlordane (Total) | 1 | ug/l | 0.010 | ND |
| delta-BHC | 1 | ug/l | 0.010 | ND |
| Dieldrin | 1 | ug/l | 0.010 | ND |
| Endosulfan I | 1 | ug/l | 0.010 | ND |
| Endosulfan II | 1 | ug/l | 0.010 | ND |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | ND |
| Endrin | 1 | ug/l | 0.010 | ND |
| Endrin Aldehyde | 1 | ug/l | 0.010 | ND |
| Endrin Ketone | 1 | ug/l | 0.010 | ND |
| gamma-BHC | 1 | ug/l | 0.010 | ND |
| Heptachlor | 1 | ug/l | 0.010 | ND |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | ND |
| Methoxychlor | 1 | ug/l | 0.015 | ND |
| p,p'-DDD | 1 | ug/l | 0.010 | ND |
| p,p'-DDE | 1 | ug/l | 0.010 | ND |
| p,p'-DDT | 1 | ug/l | 0.010 | ND |
| Toxaphene | 1 | ug/l | 0.26 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | ND |

**Sample ID:** LTMW-19-20210916 **Collection Date:** 9/16/2021
**Lab#:** AD26083-048 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.26 | ND |
| Aroclor-1016 | 1 | ug/l | 0.26 | ND |
| Aroclor-1221 | 1 | ug/l | 0.26 | ND |
| Aroclor-1232 | 1 | ug/l | 0.26 | ND |
| Aroclor-1242 | 1 | ug/l | 0.26 | ND |
| Aroclor-1248 | 1 | ug/l | 0.26 | ND |
| Aroclor-1254 | 1 | ug/l | 0.26 | ND |
| Aroclor-1260 | 1 | ug/l | 0.26 | ND |
| Aroclor-1262 | 1 | ug/l | 0.26 | ND |
| Aroclor-1268 | 1 | ug/l | 0.26 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0021 | ND |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0021 | ND |
| 1,4-Dioxane | 1 | ug/l | 0.00052 | ND |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0021 | ND |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00052 | ND |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00057 | ND |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | ND |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0021 | ND |
| 2-Chloronaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Chlorophenol | 1 | ug/l | 0.0021 | ND |
| 2-Methylnaphthalene | 1 | ug/l | 0.0021 | ND |
| 2-Methylphenol | 1 | ug/l | 0.00052 | ND |
| 2-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 2-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| 3&4-Methylphenol | 1 | ug/l | 0.00052 | ND |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0021 | ND |
| 3-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | ND |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0021 | ND |
| 4-Chloroaniline | 1 | ug/l | 0.00052 | ND |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0021 | ND |
| 4-Nitroaniline | 1 | ug/l | 0.0021 | ND |
| 4-Nitrophenol | 1 | ug/l | 0.0021 | ND |
| Acenaphthene | 1 | ug/l | 0.0021 | ND |
| Acenaphthylene | 1 | ug/l | 0.0021 | ND |
| Acetophenone | 1 | ug/l | 0.0021 | ND |
| Anthracene | 1 | ug/l | 0.0021 | ND |
| Atrazine | 1 | ug/l | 0.0021 | ND |
| Benzaldehyde | 1 | ug/l | 0.0021 | ND |
| Benzo[a]anthracene | 1 | ug/l | 0.0021 | ND |
| Benzo[a]pyrene | 1 | ug/l | 0.0021 | ND |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0021 | ND |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0021 | ND |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0021 | ND |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00052 | ND |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0021 | ND |

**Sample ID:** LTMW-19-20210916 **Collection Date:** 9/16/2021
**Lab#:** AD26083-048 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0021 | ND |
| Butylbenzylphthalate | 1 | ug/l | 0.0021 | ND |
| Caprolactam | 1 | ug/l | 0.0021 | ND |
| Carbazole | 1 | ug/l | 0.0021 | ND |
| Chrysene | 1 | ug/l | 0.0021 | ND |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0021 | ND |
| Dibenzofuran | 1 | ug/l | 0.00070 | ND |
| Diethylphthalate | 1 | ug/l | 0.0021 | ND |
| Dimethylphthalate | 1 | ug/l | 0.0021 | ND |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | ND |
| Di-n-octylphthalate | 1 | ug/l | 0.0021 | ND |
| Fluoranthene | 1 | ug/l | 0.0021 | ND |
| Fluorene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobenzene | 1 | ug/l | 0.0021 | ND |
| Hexachlorobutadiene | 1 | ug/l | 0.0021 | ND |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0021 | ND |
| Hexachloroethane | 1 | ug/l | 0.0021 | ND |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0021 | ND |
| Isophorone | 1 | ug/l | 0.0021 | ND |
| Naphthalene | 1 | ug/l | 0.00052 | ND |
| Nitrobenzene | 1 | ug/l | 0.0021 | ND |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00066 | ND |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0021 | ND |
| Pentachlorophenol | 1 | ug/l | 0.010 | ND |
| Phenanthrene | 1 | ug/l | 0.0021 | ND |
| Phenol | 1 | ug/l | 0.0021 | ND |
| Pyrene | 1 | ug/l | 0.0021 | ND |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| **Sulfate** | **5** | **mg/l** | **10** | **240** |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | ND |
| **Barium** | **1** | **ug/l** | **50** | **340** |
| **Calcium** | **1** | **ug/l** | **5000** | **170000** |
| Chromium | 1 | ug/l | 50 | ND |
| Copper | 1 | ug/l | 50 | ND |
| **Iron** | **1** | **ug/l** | **300** | **27000** |
| **Magnesium** | **1** | **ug/l** | **5000** | **270000** |
| **Manganese** | **1** | **ug/l** | **40** | **2500** |
| Nickel | 1 | ug/l | 50 | ND |
| **Potassium** | **1** | **ug/l** | **5000** | **110000** |
| Silver | 1 | ug/l | 20 | ND |
| **Sodium** | **10** | **ug/l** | **50000** | **2700000** |
| Vanadium | 1 | ug/l | 50 | ND |
| Zinc | 1 | ug/l | 50 | ND |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | ND |
| **Arsenic** | **1** | **ug/l** | **2.0** | **7.0** |
| Beryllium | 1 | ug/l | 1.0 | ND |
| Cadmium | 1 | ug/l | 2.0 | ND |
| **Cobalt** | **1** | **ug/l** | **2.0** | **2.4** |
| Lead | 1 | ug/l | 3.0 | ND |
| Selenium | 1 | ug/l | 10 | ND |

**Sample ID:** LTMW-19-20210916 **Collection Date:** 9/16/2021
**Lab#:** AD26083-048 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Thallium | 1 | ug/l | 2.0 | ND |

**Total Dissolved Solids (SM2540C-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Dissolved Solids @ 180 C | 1 | mg/l | 200 | 9900 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | 19 |

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |

**Sample ID:** LTMW-19-20210916 **Collection Date:** 9/16/2021
**Lab#:** AD26083-048 **Receipt Date:** 9/17/2021
**Matrix:** Aqueous

| | | | | |
|---|---|---|---|---|
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

Sample ID: LTMW-19-20210916MS
Lab#: AD26083-049
Matrix: Aqueous

Collection Date: 9/16/2021
Receipt Date: 9/17/2021

**Ammonia (SM4500-NH3B/C)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | 47 |

**Bromide (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 5 | mg/l | 5.0 | 23 |

**Chloride (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 200 | mg/l | 400 | 5600 |

**Cyanide (Water) 9012B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | 0.35 |

**Hardness 2340B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 2000 |

**Mercury (Water) 7470A**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | 6.4 |

**Nitrate-N (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | 8.1 |

**Organochlorine Pesticides 8081**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | 0.39 |
| Aldrin | 1 | ug/l | 0.010 | 0.37 |
| Alpha-BHC | 1 | ug/l | 0.010 | 0.33 |
| beta-BHC | 1 | ug/l | 0.010 | 0.35 |
| Chlordane (Total) | 1 | ug/l | 0.010 | 0.78 |
| delta-BHC | 1 | ug/l | 0.010 | 0.37 |
| Dieldrin | 1 | ug/l | 0.010 | 0.42 |
| Endosulfan I | 1 | ug/l | 0.010 | 0.42 |
| Endosulfan II | 1 | ug/l | 0.010 | 0.44 |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | 0.45 |
| Endrin | 1 | ug/l | 0.010 | 0.42 |
| Endrin Aldehyde | 1 | ug/l | 0.010 | 0.42 |
| Endrin Ketone | 1 | ug/l | 0.010 | 0.41 |
| gamma-BHC | 1 | ug/l | 0.010 | 0.36 |
| Heptachlor | 1 | ug/l | 0.010 | 0.33 |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | 0.40 |
| Methoxychlor | 1 | ug/l | 0.014 | 0.41 |
| p,p'-DDD | 1 | ug/l | 0.010 | 0.47 |
| p,p'-DDE | 1 | ug/l | 0.010 | 0.41 |
| p,p'-DDT | 1 | ug/l | 0.010 | 0.39 |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | 0.39 |

**PCB 8082**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.25 | 9.9 |
| Aroclor-1016 | 1 | ug/l | 0.25 | 4.7 |
| Aroclor-1221 | 1 | ug/l | 0.25 | ND |

**Sample ID:** LTMW-19-20210916MS
**Lab#:** AD26083-049
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Aroclor-1232 | 1 | ug/l | 0.25 | ND |
| Aroclor-1242 | 1 | ug/l | 0.25 | ND |
| Aroclor-1248 | 1 | ug/l | 0.25 | ND |
| Aroclor-1254 | 1 | ug/l | 0.25 | ND |
| **Aroclor-1260** | **1** | **ug/l** | **0.25** | **5.2** |
| Aroclor-1262 | 1 | ug/l | 0.25 | ND |
| Aroclor-1268 | 1 | ug/l | 0.25 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0021 | 0.061 |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0021 | 0.059 |
| 1,4-Dioxane | 1 | ug/l | 0.00052 | 0.041 |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0021 | 0.059 |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0021 | 0.067 |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0021 | 0.066 |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00052 | 0.059 |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00057 | 0.061 |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | 0.011 |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0021 | 0.058 |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0021 | 0.062 |
| 2-Chloronaphthalene | 1 | ug/l | 0.0021 | 0.057 |
| 2-Chlorophenol | 1 | ug/l | 0.0021 | 0.052 |
| 2-Methylnaphthalene | 1 | ug/l | 0.0021 | 0.057 |
| 2-Methylphenol | 1 | ug/l | 0.00052 | 0.050 |
| 2-Nitroaniline | 1 | ug/l | 0.0021 | 0.070 |
| 2-Nitrophenol | 1 | ug/l | 0.0021 | 0.058 |
| 3&4-Methylphenol | 1 | ug/l | 0.00052 | 0.051 |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0021 | 0.053 |
| 3-Nitroaniline | 1 | ug/l | 0.0021 | 0.085 |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | 0.027 |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0021 | 0.061 |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0021 | 0.063 |
| 4-Chloroaniline | 1 | ug/l | 0.00052 | 0.083 |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0021 | 0.059 |
| 4-Nitroaniline | 1 | ug/l | 0.0021 | 0.077 |
| 4-Nitrophenol | 1 | ug/l | 0.0021 | 0.030 |
| Acenaphthene | 1 | ug/l | 0.0021 | 0.057 |
| Acenaphthylene | 1 | ug/l | 0.0021 | 0.059 |
| Acetophenone | 1 | ug/l | 0.0021 | 0.061 |
| Anthracene | 1 | ug/l | 0.0021 | 0.061 |
| Atrazine | 1 | ug/l | 0.0021 | 0.036 |
| Benzaldehyde | 1 | ug/l | 0.0021 | 0.033 |
| Benzo[a]anthracene | 1 | ug/l | 0.0021 | 0.058 |
| Benzo[a]pyrene | 1 | ug/l | 0.0021 | 0.064 |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0021 | 0.068 |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0021 | 0.062 |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0021 | 0.067 |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0021 | 0.057 |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00052 | 0.053 |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0021 | 0.047 |
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0021 | 0.068 |
| Butylbenzylphthalate | 1 | ug/l | 0.0021 | 0.065 |
| Caprolactam | 1 | ug/l | 0.0021 | 0.035 |
| Carbazole | 1 | ug/l | 0.0021 | 0.068 |
| Chrysene | 1 | ug/l | 0.0021 | 0.063 |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0021 | 0.063 |

**Sample ID:** LTMW-19-20210916MS
**Lab#:** AD26083-049
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Dibenzofuran | 1 | ug/l | 0.00070 | 0.061 |
| Diethylphthalate | 1 | ug/l | 0.0021 | 0.060 |
| Dimethylphthalate | 1 | ug/l | 0.0021 | 0.061 |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | 0.063 |
| Di-n-octylphthalate | 1 | ug/l | 0.0021 | 0.067 |
| Fluoranthene | 1 | ug/l | 0.0021 | 0.063 |
| Fluorene | 1 | ug/l | 0.0021 | 0.058 |
| Hexachlorobenzene | 1 | ug/l | 0.0021 | 0.059 |
| Hexachlorobutadiene | 1 | ug/l | 0.0021 | 0.051 |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0021 | 0.049 |
| Hexachloroethane | 1 | ug/l | 0.0021 | 0.049 |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0021 | 0.064 |
| Isophorone | 1 | ug/l | 0.0021 | 0.055 |
| Naphthalene | 1 | ug/l | 0.00052 | 0.050 |
| Nitrobenzene | 1 | ug/l | 0.0021 | 0.057 |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00066 | 0.057 |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0021 | 0.051 |
| Pentachlorophenol | 1 | ug/l | 0.010 | 0.065 |
| Phenanthrene | 1 | ug/l | 0.0021 | 0.062 |
| Phenol | 1 | ug/l | 0.0021 | 0.031 |
| Pyrene | 1 | ug/l | 0.0021 | 0.061 |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Sulfate | 10 | mg/l | 20 | 320 |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | 23000 |
| Barium | 1 | ug/l | 50 | 800 |
| Calcium | 1 | ug/l | 5000 | 260000 |
| Chromium | 1 | ug/l | 50 | 480 |
| Copper | 1 | ug/l | 50 | 480 |
| Iron | 1 | ug/l | 300 | 40000 |
| Magnesium | 1 | ug/l | 5000 | 340000 |
| Manganese | 1 | ug/l | 40 | 3200 |
| Nickel | 1 | ug/l | 50 | 500 |
| Potassium | 1 | ug/l | 5000 | 160000 |
| Silver | 1 | ug/l | 20 | 93 |
| Sodium | 10 | ug/l | 50000 | 2800000 |
| Vanadium | 1 | ug/l | 50 | 500 |
| Zinc | 1 | ug/l | 50 | 580 |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | 400 |
| Arsenic | 1 | ug/l | 2.0 | 460 |
| Beryllium | 1 | ug/l | 1.0 | 360 |
| Cadmium | 1 | ug/l | 2.0 | 400 |
| Cobalt | 1 | ug/l | 2.0 | 420 |
| Lead | 1 | ug/l | 3.0 | 390 |
| Selenium | 1 | ug/l | 10 | 420 |
| Thallium | 1 | ug/l | 2.0 | 390 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | 65 |

**Sample ID:** LTMW-19-20210916MS
**Lab#:** AD26083-049
**Matrix:** Aqueous

**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | 20 |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | 13 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | 19 |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | 15 |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | 16 |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | 16 |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | 15 |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | 16 |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | 14 |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | 16 |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | 15 |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | 16 |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | 17 |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | 15 |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | 15 |
| 1,4-Dioxane | 1 | ug/l | 50 | 880 |
| 2-Butanone | 1 | ug/l | 1.0 | 14 |
| 2-Hexanone | 1 | ug/l | 1.0 | 13 |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | 13 |
| Acetone | 1 | ug/l | 5.0 | 75 |
| Benzene | 1 | ug/l | 0.50 | 17 |
| Bromochloromethane | 1 | ug/l | 1.0 | 17 |
| Bromodichloromethane | 1 | ug/l | 1.0 | 17 |
| Bromoform | 1 | ug/l | 1.0 | 14 |
| Bromomethane | 1 | ug/l | 1.0 | 5.4 |
| Carbon disulfide | 1 | ug/l | 1.0 | 17 |
| Carbon tetrachloride | 1 | ug/l | 1.0 | 19 |
| Chlorobenzene | 1 | ug/l | 1.0 | 17 |
| Chloroethane | 1 | ug/l | 1.0 | 18 |
| Chloroform | 1 | ug/l | 2.0 | 18 |
| Chloromethane | 1 | ug/l | 1.0 | 18 |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | 15 |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | 12 |
| Cyclohexane | 1 | ug/l | 1.0 | 16 |
| Dibromochloromethane | 1 | ug/l | 1.0 | 17 |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | 38 |
| Ethylbenzene | 1 | ug/l | 1.0 | 13 |
| Isopropylbenzene | 1 | ug/l | 1.0 | 14 |
| m&p-Xylenes | 1 | ug/l | 1.0 | 27 |
| Methyl Acetate | 1 | ug/l | 1.0 | 13 |
| Methylcyclohexane | 1 | ug/l | 1.0 | 17 |
| Methylene chloride | 1 | ug/l | 1.0 | 17 |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | 15 |
| o-Xylene | 1 | ug/l | 1.0 | 14 |
| Styrene | 1 | ug/l | 1.0 | 13 |
| Tetrachloroethene | 1 | ug/l | 1.0 | 21 |
| Toluene | 1 | ug/l | 1.0 | 16 |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | 18 |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | 12 |
| Trichloroethene | 1 | ug/l | 1.0 | 22 |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | 20 |
| Vinyl chloride | 1 | ug/l | 1.0 | 20 |
| Xylenes (Total) | 1 | ug/l | 1.0 | 41 |

**Sample ID:** LTMW-19-20210916MSD
**Lab#:** AD26083-050
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

### Ammonia (SM4500-NH3B/C)

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Ammonia | 1 | mg/l | 1.0 | 48 |

### Bromide (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Bromide | 5 | mg/l | 5.0 | 32 |

### Chloride (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Chloride | 500 | mg/l | 1000 | 8600 |

### Cyanide (Water) 9012B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Cyanide | 1 | mg/l | 0.020 | 0.35 |

### Hardness 2340B

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Hardness | 1 | mg caco3/l | 6.6 | 2200 |

### Mercury (Water) 7470A

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Mercury | 1 | ug/l | 0.50 | 6.4 |

### Nitrate-N (Water) 300.0

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Nitrate | 1 | mg/l | 1.0 | 5.1 |

### Organochlorine Pesticides 8081

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| a-Chlordane | 1 | ug/l | 0.010 | 0.40 |
| Aldrin | 1 | ug/l | 0.010 | 0.36 |
| Alpha-BHC | 1 | ug/l | 0.010 | 0.31 |
| beta-BHC | 1 | ug/l | 0.010 | 0.35 |
| Chlordane (Total) | 1 | ug/l | 0.010 | 0.79 |
| delta-BHC | 1 | ug/l | 0.010 | 0.36 |
| Dieldrin | 1 | ug/l | 0.010 | 0.44 |
| Endosulfan I | 1 | ug/l | 0.010 | 0.43 |
| Endosulfan II | 1 | ug/l | 0.010 | 0.43 |
| Endosulfan Sulfate | 1 | ug/l | 0.010 | 0.45 |
| Endrin | 1 | ug/l | 0.010 | 0.44 |
| Endrin Aldehyde | 1 | ug/l | 0.010 | 0.44 |
| Endrin Ketone | 1 | ug/l | 0.010 | 0.40 |
| gamma-BHC | 1 | ug/l | 0.010 | 0.35 |
| Heptachlor | 1 | ug/l | 0.010 | 0.34 |
| Heptachlor Epoxide | 1 | ug/l | 0.010 | 0.39 |
| Methoxychlor | 1 | ug/l | 0.014 | 0.42 |
| p,p'-DDD | 1 | ug/l | 0.010 | 0.47 |
| p,p'-DDE | 1 | ug/l | 0.010 | 0.40 |
| p,p'-DDT | 1 | ug/l | 0.010 | 0.40 |
| Toxaphene | 1 | ug/l | 0.25 | ND |
| y-Chlordane | 1 | ug/l | 0.010 | 0.39 |

### PCB 8082

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aroclor (Total) | 1 | ug/l | 0.26 | 11 |
| Aroclor-1016 | 1 | ug/l | 0.26 | 5.0 |
| Aroclor-1221 | 1 | ug/l | 0.26 | ND |

**Sample ID:** LTMW-19-20210916MSD
**Lab#:** AD26083-050
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Aroclor-1232 | 1 | ug/l | 0.26 | ND |
| Aroclor-1242 | 1 | ug/l | 0.26 | ND |
| Aroclor-1248 | 1 | ug/l | 0.26 | ND |
| Aroclor-1254 | 1 | ug/l | 0.26 | ND |
| **Aroclor-1260** | **1** | **ug/l** | **0.26** | **5.6** |
| Aroclor-1262 | 1 | ug/l | 0.26 | ND |
| Aroclor-1268 | 1 | ug/l | 0.26 | ND |

**Semivolatile Organics (no search) 8270**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1'-Biphenyl | 1 | ug/l | 0.0021 | 0.099 |
| 1,2,4,5-Tetrachlorobenzene | 1 | ug/l | 0.0021 | 0.098 |
| 1,4-Dioxane | 1 | ug/l | 0.00052 | 0.060 |
| 2,3,4,6-Tetrachlorophenol | 1 | ug/l | 0.0021 | 0.094 |
| 2,4,5-Trichlorophenol | 1 | ug/l | 0.0021 | 0.10 |
| 2,4,6-Trichlorophenol | 1 | ug/l | 0.0021 | 0.10 |
| 2,4-Dichlorophenol | 1 | ug/l | 0.00052 | 0.089 |
| 2,4-Dimethylphenol | 1 | ug/l | 0.00057 | 0.092 |
| 2,4-Dinitrophenol | 1 | ug/l | 0.010 | 0.052 |
| 2,4-Dinitrotoluene | 1 | ug/l | 0.0021 | 0.092 |
| 2,6-Dinitrotoluene | 1 | ug/l | 0.0021 | 0.096 |
| 2-Chloronaphthalene | 1 | ug/l | 0.0021 | 0.092 |
| 2-Chlorophenol | 1 | ug/l | 0.0021 | 0.080 |
| 2-Methylnaphthalene | 1 | ug/l | 0.0021 | 0.095 |
| 2-Methylphenol | 1 | ug/l | 0.00052 | 0.075 |
| 2-Nitroaniline | 1 | ug/l | 0.0021 | 0.11 |
| 2-Nitrophenol | 1 | ug/l | 0.0021 | 0.093 |
| 3&4-Methylphenol | 1 | ug/l | 0.00052 | 0.073 |
| 3,3'-Dichlorobenzidine | 1 | ug/l | 0.0021 | 0.074 |
| 3-Nitroaniline | 1 | ug/l | 0.0021 | 0.11 |
| 4,6-Dinitro-2-methylphenol | 1 | ug/l | 0.010 | 0.070 |
| 4-Bromophenyl-phenylether | 1 | ug/l | 0.0021 | 0.098 |
| 4-Chloro-3-methylphenol | 1 | ug/l | 0.0021 | 0.094 |
| 4-Chloroaniline | 1 | ug/l | 0.00052 | 0.10 |
| 4-Chlorophenyl-phenylether | 1 | ug/l | 0.0021 | 0.097 |
| 4-Nitroaniline | 1 | ug/l | 0.0021 | 0.10 |
| 4-Nitrophenol | 1 | ug/l | 0.0021 | 0.046 |
| Acenaphthene | 1 | ug/l | 0.0021 | 0.093 |
| Acenaphthylene | 1 | ug/l | 0.0021 | 0.094 |
| Acetophenone | 1 | ug/l | 0.0021 | 0.096 |
| Anthracene | 1 | ug/l | 0.0021 | 0.097 |
| Atrazine | 1 | ug/l | 0.0021 | 0.078 |
| Benzaldehyde | 1 | ug/l | 0.0021 | 0.052 |
| Benzo[a]anthracene | 1 | ug/l | 0.0021 | 0.090 |
| Benzo[a]pyrene | 1 | ug/l | 0.0021 | 0.10 |
| Benzo[b]fluoranthene | 1 | ug/l | 0.0021 | 0.10 |
| Benzo[g,h,i]perylene | 1 | ug/l | 0.0021 | 0.097 |
| Benzo[k]fluoranthene | 1 | ug/l | 0.0021 | 0.10 |
| bis(2-Chloroethoxy)methane | 1 | ug/l | 0.0021 | 0.091 |
| bis(2-Chloroethyl)ether | 1 | ug/l | 0.00052 | 0.083 |
| bis(2-Chloroisopropyl)ether | 1 | ug/l | 0.0021 | 0.076 |
| bis(2-Ethylhexyl)phthalate | 1 | ug/l | 0.0021 | 0.11 |
| Butylbenzylphthalate | 1 | ug/l | 0.0021 | 0.10 |
| Caprolactam | 1 | ug/l | 0.0021 | 0.045 |
| Carbazole | 1 | ug/l | 0.0021 | 0.11 |
| Chrysene | 1 | ug/l | 0.0021 | 0.098 |
| Dibenzo[a,h]anthracene | 1 | ug/l | 0.0021 | 0.10 |

**Sample ID:** LTMW-19-20210916MSD
**Lab#:** AD26083-050
**Matrix:** Aqueous
**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

| | | | | |
|---|---|---|---|---|
| Dibenzofuran | 1 | ug/l | 0.00070 | 0.10 |
| Diethylphthalate | 1 | ug/l | 0.0021 | 0.095 |
| Dimethylphthalate | 1 | ug/l | 0.0021 | 0.095 |
| Di-n-butylphthalate | 1 | ug/l | 0.0011 | 0.098 |
| Di-n-octylphthalate | 1 | ug/l | 0.0021 | 0.10 |
| Fluoranthene | 1 | ug/l | 0.0021 | 0.099 |
| Fluorene | 1 | ug/l | 0.0021 | 0.093 |
| Hexachlorobenzene | 1 | ug/l | 0.0021 | 0.094 |
| Hexachlorobutadiene | 1 | ug/l | 0.0021 | 0.085 |
| Hexachlorocyclopentadiene | 1 | ug/l | 0.0021 | 0.087 |
| Hexachloroethane | 1 | ug/l | 0.0021 | 0.082 |
| Indeno[1,2,3-cd]pyrene | 1 | ug/l | 0.0021 | 0.10 |
| Isophorone | 1 | ug/l | 0.0021 | 0.086 |
| Naphthalene | 1 | ug/l | 0.00052 | 0.087 |
| Nitrobenzene | 1 | ug/l | 0.0021 | 0.089 |
| N-Nitroso-di-n-propylamine | 1 | ug/l | 0.00066 | 0.088 |
| N-Nitrosodiphenylamine | 1 | ug/l | 0.0021 | 0.081 |
| Pentachlorophenol | 1 | ug/l | 0.010 | 0.11 |
| Phenanthrene | 1 | ug/l | 0.0021 | 0.097 |
| Phenol | 1 | ug/l | 0.0021 | 0.045 |
| Pyrene | 1 | ug/l | 0.0021 | 0.097 |

**Sulfate (Water) 300.0**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Sulfate | 50 | mg/l | 100 | 920 |

**TAL Metals 6010D**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Aluminum | 1 | ug/l | 200 | 32000 |
| Barium | 1 | ug/l | 50 | 810 |
| Calcium | 1 | ug/l | 5000 | 280000 |
| Chromium | 1 | ug/l | 50 | 500 |
| Copper | 1 | ug/l | 50 | 490 |
| Iron | 1 | ug/l | 300 | 52000 |
| Magnesium | 1 | ug/l | 5000 | 350000 |
| Manganese | 1 | ug/l | 40 | 3500 |
| Nickel | 1 | ug/l | 50 | 530 |
| Potassium | 1 | ug/l | 5000 | 150000 |
| Silver | 1 | ug/l | 20 | 92 |
| Sodium | 10 | ug/l | 50000 | 2700000 |
| Vanadium | 1 | ug/l | 50 | 520 |
| Zinc | 1 | ug/l | 50 | 630 |

**TAL Metals 6020B**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Antimony | 1 | ug/l | 3.0 | 390 |
| Arsenic | 1 | ug/l | 2.0 | 450 |
| Beryllium | 1 | ug/l | 1.0 | 340 |
| Cadmium | 1 | ug/l | 2.0 | 390 |
| Cobalt | 1 | ug/l | 2.0 | 420 |
| Lead | 1 | ug/l | 3.0 | 390 |
| Selenium | 1 | ug/l | 10 | 420 |
| Thallium | 1 | ug/l | 2.0 | 380 |

**Total Organic Carbon (SM5310B-11)**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| Total Organic Carbon | 1 | mg/l | 5.0 | 61 |

Sample ID: LTMW-19-20210916MSD
Lab#: AD26083-050
Matrix: Aqueous

Collection Date: 9/16/2021
Receipt Date: 9/17/2021

Volatile Organics (no search) 8260

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | 18 |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | 11 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | 19 |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | 15 |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | 15 |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | 15 |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | 17 |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | 17 |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | 15 |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | 15 |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | 15 |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | 15 |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | 16 |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | 15 |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | 15 |
| 1,4-Dioxane | 1 | ug/l | 50 | 970 |
| 2-Butanone | 1 | ug/l | 1.0 | 14 |
| 2-Hexanone | 1 | ug/l | 1.0 | 13 |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | 13 |
| Acetone | 1 | ug/l | 5.0 | 75 |
| Benzene | 1 | ug/l | 0.50 | 16 |
| Bromochloromethane | 1 | ug/l | 1.0 | 16 |
| Bromodichloromethane | 1 | ug/l | 1.0 | 17 |
| Bromoform | 1 | ug/l | 1.0 | 13 |
| Bromomethane | 1 | ug/l | 1.0 | 5.3 |
| Carbon disulfide | 1 | ug/l | 1.0 | 15 |
| Carbon tetrachloride | 1 | ug/l | 1.0 | 18 |
| Chlorobenzene | 1 | ug/l | 1.0 | 16 |
| Chloroethane | 1 | ug/l | 1.0 | 19 |
| Chloroform | 1 | ug/l | 2.0 | 17 |
| Chloromethane | 1 | ug/l | 1.0 | 18 |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | 14 |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | 11 |
| Cyclohexane | 1 | ug/l | 1.0 | 16 |
| Dibromochloromethane | 1 | ug/l | 1.0 | 16 |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | 36 |
| Ethylbenzene | 1 | ug/l | 1.0 | 13 |
| Isopropylbenzene | 1 | ug/l | 1.0 | 14 |
| m&p-Xylenes | 1 | ug/l | 1.0 | 26 |
| Methyl Acetate | 1 | ug/l | 1.0 | 12 |
| Methylcyclohexane | 1 | ug/l | 1.0 | 17 |
| Methylene chloride | 1 | ug/l | 1.0 | 16 |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | 15 |
| o-Xylene | 1 | ug/l | 1.0 | 13 |
| Styrene | 1 | ug/l | 1.0 | 12 |
| Tetrachloroethene | 1 | ug/l | 1.0 | 20 |
| Toluene | 1 | ug/l | 1.0 | 15 |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | 17 |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | 11 |
| Trichloroethene | 1 | ug/l | 1.0 | 21 |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | 20 |
| Vinyl chloride | 1 | ug/l | 1.0 | 19 |
| Xylenes (Total) | 1 | ug/l | 1.0 | 39 |

**Sample ID:** TB-04-20210916
**Lab#:** AD26083-051
**Matrix:** Aqueous

**Collection Date:** 9/16/2021
**Receipt Date:** 9/17/2021

**Volatile Organics (no search) 8260**

| Analyte | DF | Units | RL | Result |
|---|---|---|---|---|
| 1,1,1-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | ug/l | 1.0 | ND |
| 1,1,2-Trichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethane | 1 | ug/l | 1.0 | ND |
| 1,1-Dichloroethene | 1 | ug/l | 1.0 | ND |
| 1,2,3-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2,4-Trichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromo-3-chloropropane | 1 | ug/l | 1.0 | ND |
| 1,2-Dibromoethane | 1 | ug/l | 1.0 | ND |
| 1,2-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,2-Dichloroethane | 1 | ug/l | 0.64 | ND |
| 1,2-Dichloropropane | 1 | ug/l | 1.0 | ND |
| 1,3-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dichlorobenzene | 1 | ug/l | 1.0 | ND |
| 1,4-Dioxane | 1 | ug/l | 50 | ND |
| 2-Butanone | 1 | ug/l | 1.0 | ND |
| 2-Hexanone | 1 | ug/l | 1.0 | ND |
| 4-Methyl-2-pentanone | 1 | ug/l | 1.0 | ND |
| Acetone | 1 | ug/l | 5.0 | ND |
| Benzene | 1 | ug/l | 0.50 | ND |
| Bromochloromethane | 1 | ug/l | 1.0 | ND |
| Bromodichloromethane | 1 | ug/l | 1.0 | ND |
| Bromoform | 1 | ug/l | 1.0 | ND |
| Bromomethane | 1 | ug/l | 1.0 | ND |
| Carbon disulfide | 1 | ug/l | 1.0 | ND |
| Carbon tetrachloride | 1 | ug/l | 1.0 | ND |
| Chlorobenzene | 1 | ug/l | 1.0 | ND |
| Chloroethane | 1 | ug/l | 1.0 | ND |
| Chloroform | 1 | ug/l | 2.0 | ND |
| Chloromethane | 1 | ug/l | 1.0 | ND |
| cis-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| cis-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Cyclohexane | 1 | ug/l | 1.0 | ND |
| Dibromochloromethane | 1 | ug/l | 1.0 | ND |
| Dichlorodifluoromethane | 1 | ug/l | 1.0 | ND |
| Ethylbenzene | 1 | ug/l | 1.0 | ND |
| Isopropylbenzene | 1 | ug/l | 1.0 | ND |
| m&p-Xylenes | 1 | ug/l | 1.0 | ND |
| Methyl Acetate | 1 | ug/l | 1.0 | ND |
| Methylcyclohexane | 1 | ug/l | 1.0 | ND |
| Methylene chloride | 1 | ug/l | 1.0 | ND |
| Methyl-t-butyl ether | 1 | ug/l | 0.50 | ND |
| o-Xylene | 1 | ug/l | 1.0 | ND |
| Styrene | 1 | ug/l | 1.0 | ND |
| Tetrachloroethene | 1 | ug/l | 1.0 | ND |
| Toluene | 1 | ug/l | 1.0 | ND |
| trans-1,2-Dichloroethene | 1 | ug/l | 1.0 | ND |
| trans-1,3-Dichloropropene | 1 | ug/l | 1.0 | ND |
| Trichloroethene | 1 | ug/l | 1.0 | ND |
| Trichlorofluoromethane | 1 | ug/l | 1.0 | ND |
| Vinyl chloride | 1 | ug/l | 1.0 | ND |
| Xylenes (Total) | 1 | ug/l | 1.0 | ND |

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-001
Client Id: LTMW-22-20210913
Data File: 1M152893.D
Analysis Date: 09/23/21 07:45
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | .0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | .0 | U | 95-47-6 | o-Xylene | 1. | U |
| 108-10-1 | 4-Methyl-2-Pentanone | .0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | .0 | U | 127-18-4 | Tetrachloroethene | 1. | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1. | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1. | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1. | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-002
Client Id: LTMW-8-20210913
Data File: 1M152894.D
Analysis Date: 09/23/21 08:04
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| **123-91-1** | **1,4-Dioxane** | **50** | **130** | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | **1634-04-4** | **Methyl-t-butyl ether** | **0.50** | **0.69** |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| **67-64-1** | **Acetone** | **5.0** | **24** | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-003
Client Id: LTMW-10-20210913 U
Data File: 1M152702.D
Analysis Date: 09/20/21 20:25
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | **1634-04-4** | **Methyl-t-butyl ether** | **0.50** | **0.76** |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0.76

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-005
Client Id: FB-20210913
Data File: 1M152886.D
Analysis Date: 09/23/21 05:33
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-006
Client Id: LTMW-9-20210913 U
Data File: 1M152895.D
Analysis Date: 09/23/21 08:23
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-008
Client Id: LTMW-11-20210913
Data File: 1M152896.D
Analysis Date: 09/23/21 08:41
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-009
Client Id: DUP-01-20210913
Data File: 1M152897.D
Analysis Date: 09/23/21 09:00
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-010
Client Id: TB-01-20210913
Data File: 2M157206.D
Analysis Date: 09/23/21 19:00
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-011
Client Id: LTMW-7-20210913
Data File: 1M152898.D
Analysis Date: 09/23/21 09:19
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-012
Client Id: LTMW-21-20210914 U
Data File: 1M152829.D
Analysis Date: 09/22/21 12:03
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-014
Client Id: LTMW-12-20210914 U
Data File: 1M152830.D
Analysis Date: 09/22/21 12:22
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-016
Client Id: LTMW-6-20210914 U
Data File: 1M152831.D
Analysis Date: 09/22/21 12:41
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-018
Client Id: LTMW-13-20210914
Data File: 1M152832.D
Analysis Date: 09/22/21 13:00
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-019
Client Id: LTMW-15-20210914 U
Data File: 1M152833.D
Analysis Date: 09/22/21 13:18
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-021
Client Id: LTMW-5B-20210914 U
Data File: 1M152834.D
Analysis Date: 09/22/21 13:37
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-023
Client Id: DUP-02-20210914 U
Data File: 1M152835.D
Analysis Date: 09/22/21 13:56
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (') Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-025
Client Id: TB-02-20210914
Data File: 1M152887.D
Analysis Date: 09/23/21 05:52
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-026
Client Id: LTMW-5A-20210915
Data File: 1M152836.D
Analysis Date: 09/22/21 14:15
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-027
Client Id: LTMW-17-20210915
Data File: 1M152891.D
Analysis Date: 09/23/21 07:07
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-028
Client Id: LTMW-4-20210915 U
Data File: 1M152837.D
Analysis Date: 09/22/21 14:34
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-030
Client Id: LTMW-16-20210915 U
Data File: 1M152838.D
Analysis Date: 09/22/21 14:53
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-032
Client Id: LTMW-3-20210915
Data File: 2M157119.D
Analysis Date: 09/22/21 14:53
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-033
Client Id: FB-20210915
Data File: 1M152882.D
Analysis Date: 09/23/21 04:18
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | .0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | .0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-034
Client Id: TB-03-20210915
Data File: 1M152883.D
Analysis Date: 09/23/21 04:37
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-035
Client Id: LTMW-18C-20210916
Data File: 2M157120.D
Analysis Date: 09/22/21 15:13
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-036
Client Id: LTMW-2-20210916 U
Data File: 2M157121.D
Analysis Date: 09/22/21 15:33
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-038
Client Id: LTMW-18UG-20210916 U
Data File: 2M157122.D
Analysis Date: 09/22/21 15:52
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-040
Client Id: LTMW-1-20210916 U
Data File: 1M152892.D
Analysis Date: 09/23/21 07:26
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| **123-91-1** | **1,4-Dioxane** | **50** | **100** | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | **1634-04-4** | **Methyl-t-butyl ether** | **0.50** | **1.0** |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| **67-64-1** | **Acetone** | **5.0** | **25** | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-042(MS:AD26
Client Id: LTMW-1-20210916MS U
Data File: 1M152855.D
Analysis Date: 09/22/21 20:12
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | 18 | 56-23-5 | Carbon Tetrachloride | 1.0 | 15 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | 16 | 108-90-7 | Chlorobenzene | 1.0 | 15 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-triflu | 1.0 | 16 | 75-00-3 | Chloroethane | 1.0 | 13 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | 16 | 67-66-3 | Chloroform | 2.0 | 18 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | 20 | 74-87-3 | Chloromethane | 1.0 | 26 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | 19 | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | 19 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | 15 | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | 14 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | 14 | 110-82-7 | Cyclohexane | 1.0 | 18 |
| 96-12-8 | 1,2-Dibromo-3-Chloroprop | 1.0 | 16 | 124-48-1 | Dibromochloromethane | 1.0 | 15 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | 15 | 75-71-8 | Dichlorodifluoromethane | 1.0 | 34 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | 14 | 100-41-4 | Ethylbenzene | 1.0 | 15 |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | 19 | 98-82-8 | Isopropylbenzene | 1.0 | 15 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | 19 | 79601-23-1 | m&p-Xylenes | 1.0 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | 14 | 79-20-9 | Methyl Acetate | 1.0 | 23 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | 14 | 108-87-2 | Methylcyclohexane | 1.0 | 13 |
| 123-91-1 | 1,4-Dioxane | 50 | 1000 | 75-09-2 | Methylene Chloride | 1.0 | 17 |
| 78-93-3 | 2-Butanone | 1.0 | 29 | 1634-04-4 | Methyl-t-butyl ether | 0.50 | 20 |
| 591-78-6 | 2-Hexanone | 1.0 | 21 | 95-47-6 | o-Xylene | 1.0 | 15 |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | 21 | 100-42-5 | Styrene | 1.0 | 14 |
| 67-64-1 | Acetone | 5.0 | 150 | 127-18-4 | Tetrachloroethene | 1.0 | 15 |
| 71-43-2 | Benzene | 0.50 | 17 | 108-88-3 | Toluene | 1.0 | 16 |
| 74-97-5 | Bromochloromethane | 1.0 | 22 | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | 17 |
| 75-27-4 | Bromodichloromethane | 1.0 | 17 | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | 13 |
| 75-25-2 | Bromoform | 1.0 | 14 | 79-01-6 | Trichloroethene | 1.0 | 16 |
| 74-83-9 | Bromomethane | 1.0 | 5.8 | 75-69-4 | Trichlorofluoromethane | 1.0 | 20 |
| 75-15-0 | Carbon Disulfide | 1.0 | 28 | 75-01-4 | Vinyl Chloride | 1.0 | 15 |
| 1330-20-7 | Xylenes (Total) | 1.0 | 45 | | | | |

Worksheet #: 611541 *Total Target Concentration* 2000 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-044(MSD:AD
Client Id: LTMW-1-20210916MSD U
Data File: 1M152856.D
Analysis Date: 09/22/21 20:31
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | 17 | 56-23-5 | Carbon Tetrachloride | 1.0 | 14 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | 17 | 108-90-7 | Chlorobenzene | 1.0 | 15 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-triflu | 1.0 | 15 | 75-00-3 | Chloroethane | 1.0 | 22 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | 15 | 67-66-3 | Chloroform | 2.0 | 17 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | 19 | 74-87-3 | Chloromethane | 1.0 | 25 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | 18 | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | 17 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | 15 | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | 13 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | 14 | 110-82-7 | Cyclohexane | 1.0 | 17 |
| 96-12-8 | 1,2-Dibromo-3-Chloroprop | 1.0 | 16 | 124-48-1 | Dibromochloromethane | 1.0 | 14 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | 15 | 75-71-8 | Dichlorodifluoromethane | 1.0 | 31 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | 14 | 100-41-4 | Ethylbenzene | 1.0 | 15 |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | 17 | 98-82-8 | Isopropylbenzene | 1.0 | 15 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | 18 | 79601-23-1 | m&p-Xylenes | 1.0 | 29 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | 14 | 79-20-9 | Methyl Acetate | 1.0 | 22 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | 14 | 108-87-2 | Methylcyclohexane | 1.0 | 12 |
| 123-91-1 | 1,4-Dioxane | 50 | 1100 | 75-09-2 | Methylene Chloride | 1.0 | 16 |
| 78-93-3 | 2-Butanone | 1.0 | 22 | 1634-04-4 | Methyl-t-butyl ether | 0.50 | 19 |
| 591-78-6 | 2-Hexanone | 1.0 | 22 | 95-47-6 | o-Xylene | 1.0 | 15 |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | 21 | 100-42-5 | Styrene | 1.0 | 14 |
| 67-64-1 | Acetone | 5.0 | 72 | 127-18-4 | Tetrachloroethene | 1.0 | 14 |
| 71-43-2 | Benzene | 0.50 | 16 | 108-88-3 | Toluene | 1.0 | 15 |
| 74-97-5 | Bromochloromethane | 1.0 | 20 | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | 16 |
| 75-27-4 | Bromodichloromethane | 1.0 | 16 | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | 13 |
| 75-25-2 | Bromoform | 1.0 | 13 | 79-01-6 | Trichloroethene | 1.0 | 15 |
| 74-83-9 | Bromomethane | 1.0 | 6.0 | 75-69-4 | Trichlorofluoromethane | 1.0 | 18 |
| 75-15-0 | Carbon Disulfide | 1.0 | 26 | 75-01-4 | Vinyl Chloride | 1.0 | 23 |
| 1330-20-7 | Xylenes (Total) | 1.0 | 44 | | | | |

Worksheet #: 611541

***Total Target Concentration*** 2000

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-046
Client Id: LTMW-23-20210916 U
Data File: 2M157123.D
Analysis Date: 09/22/21 16:12
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-048
Client Id: LTMW-19-20210916
Data File: 2M157124.D
Analysis Date: 09/22/21 16:32
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-049(MS:AD26
Client Id: LTMW-19-20210916MS
Data File: 2M157125.D
Analysis Date: 09/22/21 16:51
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | 20 | 56-23-5 | Carbon Tetrachloride | 1.0 | 19 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | 13 | 108-90-7 | Chlorobenzene | 1.0 | 17 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-triflu | 1.0 | 19 | 75-00-3 | Chloroethane | 1.0 | 18 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | 15 | 67-66-3 | Chloroform | 2.0 | 18 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | 16 | 74-87-3 | Chloromethane | 1.0 | 18 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | 16 | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | 15 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | 15 | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | 12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | 16 | 110-82-7 | Cyclohexane | 1.0 | 16 |
| 96-12-8 | 1,2-Dibromo-3-Chloroprop | 1.0 | 14 | 124-48-1 | Dibromochloromethane | 1.0 | 17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | 16 | 75-71-8 | Dichlorodifluoromethane | 1.0 | 38 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | 15 | 100-41-4 | Ethylbenzene | 1.0 | 13 |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | 16 | 98-82-8 | Isopropylbenzene | 1.0 | 14 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | 17 | 79601-23-1 | m&p-Xylenes | 1.0 | 27 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | 15 | 79-20-9 | Methyl Acetate | 1.0 | 13 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | 15 | 108-87-2 | Methylcyclohexane | 1.0 | 17 |
| 123-91-1 | 1,4-Dioxane | 50 | 880 | 75-09-2 | Methylene Chloride | 1.0 | 17 |
| 78-93-3 | 2-Butanone | 1.0 | 14 | 1634-04-4 | Methyl-t-butyl ether | 0.50 | 15 |
| 591-78-6 | 2-Hexanone | 1.0 | 13 | 95-47-6 | o-Xylene | 1.0 | 14 |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | 13 | 100-42-5 | Styrene | 1.0 | 13 |
| 67-64-1 | Acetone | 5.0 | 75 | 127-18-4 | Tetrachloroethene | 1.0 | 21 |
| 71-43-2 | Benzene | 0.50 | 17 | 108-88-3 | Toluene | 1.0 | 16 |
| 74-97-5 | Bromochloromethane | 1.0 | 17 | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | 18 |
| 75-27-4 | Bromodichloromethane | 1.0 | 17 | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | 12 |
| 75-25-2 | Bromoform | 1.0 | 14 | 79-01-6 | Trichloroethene | 1.0 | 22 |
| 74-83-9 | Bromomethane | 1.0 | 5.4 | 75-69-4 | Trichlorofluoromethane | 1.0 | 20 |
| 75-15-0 | Carbon Disulfide | 1.0 | 17 | 75-01-4 | Vinyl Chloride | 1.0 | 20 |
| 1330-20-7 | Xylenes (Total) | 1.0 | 41 | | | | |

Worksheet #: 611541

*Total Target Concentration* 1800

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-050(MSD:AD
Client Id: LTMW-19-20210916MSD
Data File: 2M157126.D
Analysis Date: 09/22/21 17:10
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | 18 | 56-23-5 | Carbon Tetrachloride | 1.0 | 18 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | 11 | 108-90-7 | Chlorobenzene | 1.0 | 16 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-triflu | 1.0 | 19 | 75-00-3 | Chloroethane | 1.0 | 19 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | 15 | 67-66-3 | Chloroform | 2.0 | 17 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | 15 | 74-87-3 | Chloromethane | 1.0 | 18 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | 15 | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | 14 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | 17 | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | 11 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | 17 | 110-82-7 | Cyclohexane | 1.0 | 16 |
| 96-12-8 | 1,2-Dibromo-3-Chloroprop | 1.0 | 15 | 124-48-1 | Dibromochloromethane | 1.0 | 16 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | 15 | 75-71-8 | Dichlorodifluoromethane | 1.0 | 36 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | 15 | 100-41-4 | Ethylbenzene | 1.0 | 13 |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | 15 | 98-82-8 | Isopropylbenzene | 1.0 | 14 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | 16 | 79601-23-1 | m&p-Xylenes | 1.0 | 26 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | 15 | 79-20-9 | Methyl Acetate | 1.0 | 12 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | 15 | 108-87-2 | Methylcyclohexane | 1.0 | 17 |
| 123-91-1 | 1,4-Dioxane | 50 | 970 | 75-09-2 | Methylene Chloride | 1.0 | 16 |
| 78-93-3 | 2-Butanone | 1.0 | 14 | 1634-04-4 | Methyl-t-butyl ether | 0.50 | 15 |
| 591-78-6 | 2-Hexanone | 1.0 | 13 | 95-47-6 | o-Xylene | 1.0 | 13 |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | 13 | 100-42-5 | Styrene | 1.0 | 12 |
| 67-64-1 | Acetone | 5.0 | 75 | 127-18-4 | Tetrachloroethene | 1.0 | 20 |
| 71-43-2 | Benzene | 0.50 | 16 | 108-88-3 | Toluene | 1.0 | 15 |
| 74-97-5 | Bromochloromethane | 1.0 | 16 | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | 17 |
| 75-27-4 | Bromodichloromethane | 1.0 | 17 | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | 11 |
| 75-25-2 | Bromoform | 1.0 | 13 | 79-01-6 | Trichloroethene | 1.0 | 21 |
| 74-83-9 | Bromomethane | 1.0 | 5.3 | 75-69-4 | Trichlorofluoromethane | 1.0 | 20 |
| 75-15-0 | Carbon Disulfide | 1.0 | 15 | 75-01-4 | Vinyl Chloride | 1.0 | 19 |
| 1330-20-7 | Xylenes (Total) | 1.0 | 39 | | | | |

Worksheet #: 611541 *Total Target Concentration* 1800 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-051
Client Id: TB-20210916
Data File: 1M152884.D
Analysis Date: 09/23/21 04:56
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-001
Client Id: LTMW-22-20210913
Data File: 10M87377.D
Analysis Date: 09/20/21 14:38
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-002
Client Id: LTMW-8-20210913
Data File: 10M87378.D
Analysis Date: 09/20/21 15:00
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| **123-91-1** | **1,4-Dioxane** | **0.00050** | **0.054** | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0.054

ColumnID: (^) Indicates results from 2nd column

***U - Indicates the compound was analyzed but not detected.***
***B - Indicates the analyte was found in the blank as well as in the sample.***
***E - Indicates the analyte concentration exceeds the calibration range of the instrument.***
***R - Retention Time Out***
***J - Indicates an estimated value when a compound is detected at less than the specified detection limit.***
***d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used***

***N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine***

***Chlordane (Total) is sum of a-Chlordane and y-Chlordane.***

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-003
Client Id: LTMW-10-20210913 U
Data File: 10M87379.D
Analysis Date: 09/20/21 15:23
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-005
Client Id: FB-20210913
Data File: 10M87380.D
Analysis Date: 09/20/21 15:45
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-006
Client Id: LTMW-9-20210913 U
Data File: 10M87381.D
Analysis Date: 09/20/21 16:07
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-008
Client Id: LTMW-11-20210913
Data File: 10M87382.D
Analysis Date: 09/20/21 16:29
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-009
Client Id: DUP-01-20210913
Data File: 10M87383.D
Analysis Date: 09/20/21 16:51
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-011
Client Id: LTMW-7-20210913
Data File: 10M87384.D
Analysis Date: 09/20/21 17:14
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-012
Client Id: LTMW-21-20210914 U
Data File: 10M87385.D
Analysis Date: 09/20/21 17:36
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | **105-60-2** | **Caprolactam** | **0.0020** | **0.096** |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

*Total Target Concentration* 0.096

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-014
Client Id: LTMW-12-20210914 U
Data File: 10M87386.D
Analysis Date: 09/20/21 17:58
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-016
Client Id: LTMW-6-20210914 U
Data File: 10M87387.D
Analysis Date: 09/20/21 18:20
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-018
Client Id: LTMW-13-20210914
Data File: 10M87388.D
Analysis Date: 09/20/21 18:43
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-019
Client Id: LTMW-15-20210914 U
Data File: 5M117948.D
Analysis Date: 09/21/21 20:18
Date Rec/Extracted: 09/17/21-09/21/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00053 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.0085 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.0080 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-021
Client Id: LTMW-5B-20210914 U
Data File: 10M87389.D
Analysis Date: 09/20/21 19:05
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

***U - Indicates the compound was analyzed but not detected.***
***B - Indicates the analyte was found in the blank as well as in the sample.***
***E - Indicates the analyte concentration exceeds the calibration range of the instrument.***
***R - Retention Time Out***
***J - Indicates an estimated value when a compound is detected at less than the specified detection limit.***
***d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used***
***N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine***
***Chlordane (Total) is sum of a-Chlordane and y-Chlordane.***

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-023
Client Id: DUP-02-20210914 U
Data File: 10M87390.D
Analysis Date: 09/20/21 19:27
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-026
Client Id: LTMW-5A-20210915
Data File: 10M87391.D
Analysis Date: 09/20/21 19:49
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-027
Client Id: LTMW-17-20210915
Data File: 10M87392.D
Analysis Date: 09/20/21 20:11
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-028
Client Id: LTMW-4-20210915 U
Data File: 10M87393.D
Analysis Date: 09/20/21 20:33
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | **105-60-2** | **Caprolactam** | **0.0020** | **0.022** |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0.022

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-030
Client Id: LTMW-16-20210915 U
Data File: 10M87394.D
Analysis Date: 09/20/21 20:55
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-032
Client Id: LTMW-3-20210915
Data File: 7M116584.D
Analysis Date: 09/19/21 22:08
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00053 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.011 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.011 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-033
Client Id: FB-20210915
Data File: 7M116585.D
Analysis Date: 09/19/21 22:32
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00053 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.011 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.011 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-035
Client Id: LTMW-18C-20210916
Data File: 7M116586.D
Analysis Date: 09/19/21 22:56
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00053 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | **105-60-2** | **Caprolactam** | **0.0021** | **0.039** |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.011 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.011 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

***Total Target Concentration*** 0.039

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-036
Client Id: LTMW-2-20210916 U
Data File: 7M116587.D
Analysis Date: 09/19/21 23:19
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| **123-91-1** | **1,4-Dioxane** | **0.00053** | **0.00060** | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.011 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.011 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546 *Total Target Concentration* 0.0006 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-038
Client Id: LTMW-18UG-20210916 U
Data File: 10M87395.D
Analysis Date: 09/20/21 21:17
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00053 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.011 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.011 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-040
Client Id: LTMW-1-20210916 U
Data File: 10M87396.D
Analysis Date: 09/20/21 21:39
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| **123-91-1** | **1,4-Dioxane** | **0.00050** | **0.031** | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0.031

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-042(MS:AD26
Client Id: LTMW-1-20210916MS U
Data File: 10M87401.D
Analysis Date: 09/20/21 23:29
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | 0.12 | 50-32-8 | Benzo[a]pyrene | 0.0020 | 0.12 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen | 0.0020 | 0.11 | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | 0.12 |
| 123-91-1 | 1,4-Dioxane | 0.00050 | 0.12 | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | 0.12 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | 0.12 | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | 0.12 |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | 0.13 | 111-91-1 | bis(2-Chloroethoxy)metha | 0.0020 | 0.11 |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | 0.13 | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | 0.089 |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | 0.11 | 108-60-1 | bis(2-chloroisopropyl)ethe | 0.0020 | 0.063 |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | 0.13 | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | 0.13 |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | 0.098 | 85-68-7 | Butylbenzylphthalate | 0.0020 | 0.12 |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | 0.11 | 105-60-2 | Caprolactam | 0.0020 | 0.053 |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | 0.11 | 86-74-8 | Carbazole | 0.0020 | 0.12 |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | 0.10 | 218-01-9 | Chrysene | 0.0020 | 0.12 |
| 95-57-8 | 2-Chlorophenol | 0.0020 | 0.10 | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | 0.12 |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | 0.11 | 132-64-9 | Dibenzofuran | 0.00068 | 0.11 |
| 95-48-7 | 2-Methylphenol | 0.00050 | 0.099 | 84-66-2 | Diethylphthalate | 0.0020 | 0.11 |
| 88-74-4 | 2-Nitroaniline | 0.0020 | 0.12 | 131-11-3 | Dimethylphthalate | 0.0020 | 0.11 |
| 88-75-5 | 2-Nitrophenol | 0.0020 | 0.12 | 84-74-2 | Di-n-butylphthalate | 0.0011 | 0.12 |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | 0.099 | 117-84-0 | Di-n-octylphthalate | 0.0020 | 0.13 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | 0.11 |
| 99-09-2 | 3-Nitroaniline | 0.0020 | 0.086 | 86-73-7 | Fluorene | 0.0020 | 0.11 |
| 534-52-1 | 4,6-Dinitro-2-methylpheno | 0.010 | 0.10 | 118-74-1 | Hexachlorobenzene | 0.0020 | 0.11 |
| 101-55-3 | 4-Bromophenyl-phenyleth | 0.0020 | 0.12 | 87-68-3 | Hexachlorobutadiene | 0.0020 | 0.050 |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | 0.13 | 77-47-4 | Hexachlorocyclopentadie | 0.0020 | 0.084 |
| 106-47-8 | 4-Chloroaniline | 0.00050 | 0.078 | 67-72-1 | Hexachloroethane | 0.0020 | 0.018 |
| 7005-72-3 | 4-Chlorophenyl-phenyleth | 0.0020 | 0.11 | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | 0.12 |
| 100-01-6 | 4-Nitroaniline | 0.0020 | 0.092 | 78-59-1 | Isophorone | 0.0020 | 0.10 |
| 100-02-7 | 4-Nitrophenol | 0.0020 | 0.060 | 91-20-3 | Naphthalene | 0.00050 | 0.073 |
| 83-32-9 | Acenaphthene | 0.0020 | 0.11 | 98-95-3 | Nitrobenzene | 0.0020 | 0.095 |
| 208-96-8 | Acenaphthylene | 0.0020 | 0.11 | 621-64-7 | N-Nitroso-di-n-propylamin | 0.00064 | 0.10 |
| 98-86-2 | Acetophenone | 0.0020 | 0.11 | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | 0.095 |
| 120-12-7 | Anthracene | 0.0020 | 0.11 | 87-86-5 | Pentachlorophenol | 0.010 | 0.15 |
| 1912-24-9 | Atrazine | 0.0020 | 0.072 | 85-01-8 | Phenanthrene | 0.0020 | 0.11 |
| 100-52-7 | Benzaldehyde | 0.0020 | 0.044 | 108-95-2 | Phenol | 0.0020 | 0.051 |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | 0.11 | 129-00-0 | Pyrene | 0.0020 | 0.11 |

Worksheet #: 611546 *Total Target Concentration* 6.9 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-044(MSD:AD
Client Id: LTMW-1-20210916MSD U
Data File: 10M87402.D
Analysis Date: 09/20/21 23:51
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | 0.12 | 50-32-8 | Benzo[a]pyrene | 0.0020 | 0.11 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen | 0.0020 | 0.12 | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | 0.12 |
| 123-91-1 | 1,4-Dioxane | 0.00050 | 0.12 | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | 0.11 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | 0.11 | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | 0.11 |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | 0.12 | 111-91-1 | bis(2-Chloroethoxy)metha | 0.0020 | 0.10 |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | 0.13 | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | 0.082 |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | 0.11 | 108-60-1 | bis(2-chloroisopropyl)ethe | 0.0020 | 0.059 |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | 0.13 | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | 0.12 |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | 0.041 | 85-68-7 | Butylbenzylphthalate | 0.0020 | 0.12 |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | 0.11 | 105-60-2 | Caprolactam | 0.0020 | 0.053 |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | 0.12 | 86-74-8 | Carbazole | 0.0020 | 0.12 |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | 0.10 | 218-01-9 | Chrysene | 0.0020 | 0.11 |
| 95-57-8 | 2-Chlorophenol | 0.0020 | 0.10 | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | 0.12 |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | 0.11 | 132-64-9 | Dibenzofuran | 0.00068 | 0.11 |
| 95-48-7 | 2-Methylphenol | 0.00050 | 0.097 | 84-66-2 | Diethylphthalate | 0.0020 | 0.11 |
| 88-74-4 | 2-Nitroaniline | 0.0020 | 0.12 | 131-11-3 | Dimethylphthalate | 0.0020 | 0.11 |
| 88-75-5 | 2-Nitrophenol | 0.0020 | 0.12 | 84-74-2 | Di-n-butylphthalate | 0.0011 | 0.11 |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | 0.097 | 117-84-0 | Di-n-octylphthalate | 0.0020 | 0.12 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | 0.0029 | 206-44-0 | Fluoranthene | 0.0020 | 0.11 |
| 99-09-2 | 3-Nitroaniline | 0.0020 | 0.098 | 86-73-7 | Fluorene | 0.0020 | 0.11 |
| 534-52-1 | 4,6-Dinitro-2-methylpheno | 0.010 | 0.072 | 118-74-1 | Hexachlorobenzene | 0.0020 | 0.11 |
| 101-55-3 | 4-Bromophenyl-phenyleth | 0.0020 | 0.12 | 87-68-3 | Hexachlorobutadiene | 0.0020 | 0.050 |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | 0.13 | 77-47-4 | Hexachlorocyclopentadie | 0.0020 | 0.080 |
| 106-47-8 | 4-Chloroaniline | 0.00050 | 0.092 | 67-72-1 | Hexachloroethane | 0.0020 | 0.019 |
| 7005-72-3 | 4-Chlorophenyl-phenyleth | 0.0020 | 0.11 | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | 0.12 |
| 100-01-6 | 4-Nitroaniline | 0.0020 | 0.10 | 78-59-1 | Isophorone | 0.0020 | 0.10 |
| 100-02-7 | 4-Nitrophenol | 0.0020 | 0.056 | 91-20-3 | Naphthalene | 0.00050 | 0.072 |
| 83-32-9 | Acenaphthene | 0.0020 | 0.11 | 98-95-3 | Nitrobenzene | 0.0020 | 0.091 |
| 208-96-8 | Acenaphthylene | 0.0020 | 0.11 | 621-64-7 | N-Nitroso-di-n-propylamin | 0.00064 | 0.10 |
| 98-86-2 | Acetophenone | 0.0020 | 0.11 | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | 0.094 |
| 120-12-7 | Anthracene | 0.0020 | 0.11 | 87-86-5 | Pentachlorophenol | 0.010 | 0.12 |
| 1912-24-9 | Atrazine | 0.0020 | 0.088 | 85-01-8 | Phenanthrene | 0.0020 | 0.11 |
| 100-52-7 | Benzaldehyde | 0.0020 | 0.052 | 108-95-2 | Phenol | 0.0020 | 0.051 |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | 0.10 | 129-00-0 | Pyrene | 0.0020 | 0.11 |

Worksheet #: 611546 *Total Target Concentration* 6.8 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-046
Client Id: LTMW-23-20210916 U
Data File: 10M87397.D
Analysis Date: 09/20/21 22:01
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00053 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.011 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.011 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inle and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-048
Client Id: LTMW-19-20210916
Data File: 10M87398.D
Analysis Date: 09/20/21 22:23
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00052 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00052 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00052 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00057 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00070 | U |
| 95-48-7 | 2-Methylphenol | 0.00052 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00052 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00052 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00052 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00066 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC Inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-049(MS:AD26
Client Id: LTMW-19-20210916MS
Data File: 10M87399.D
Analysis Date: 09/20/21 22:45
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | 0.061 | 50-32-8 | Benzo[a]pyrene | 0.0021 | 0.064 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen | 0.0021 | 0.059 | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | 0.068 |
| 123-91-1 | 1,4-Dioxane | 0.00052 | 0.041 | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | 0.062 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | 0.059 | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | 0.067 |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | 0.067 | 111-91-1 | bis(2-Chloroethoxy)metha | 0.0021 | 0.057 |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | 0.066 | 111-44-4 | bis(2-Chloroethyl)ether | 0.00052 | 0.053 |
| 120-83-2 | 2,4-Dichlorophenol | 0.00052 | 0.059 | 108-60-1 | bis(2-chloroisopropyl)ethe | 0.0021 | 0.047 |
| 105-67-9 | 2,4-Dimethylphenol | 0.00057 | 0.061 | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | 0.068 |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | 0.011 | 85-68-7 | Butylbenzylphthalate | 0.0021 | 0.065 |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | 0.058 | 105-60-2 | Caprolactam | 0.0021 | 0.035 |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | 0.062 | 86-74-8 | Carbazole | 0.0021 | 0.068 |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | 0.057 | 218-01-9 | Chrysene | 0.0021 | 0.063 |
| 95-57-8 | 2-Chlorophenol | 0.0021 | 0.052 | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | 0.063 |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | 0.057 | 132-64-9 | Dibenzofuran | 0.00070 | 0.061 |
| 95-48-7 | 2-Methylphenol | 0.00052 | 0.050 | 84-66-2 | Diethylphthalate | 0.0021 | 0.060 |
| 88-74-4 | 2-Nitroaniline | 0.0021 | 0.070 | 131-11-3 | Dimethylphthalate | 0.0021 | 0.061 |
| 88-75-5 | 2-Nitrophenol | 0.0021 | 0.058 | 84-74-2 | Di-n-butylphthalate | 0.0011 | 0.063 |
| 106-44-5 | 3&4-Methylphenol | 0.00052 | 0.051 | 117-84-0 | Di-n-octylphthalate | 0.0021 | 0.067 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | 0.053 | 206-44-0 | Fluoranthene | 0.0021 | 0.063 |
| 99-09-2 | 3-Nitroaniline | 0.0021 | 0.085 | 86-73-7 | Fluorene | 0.0021 | 0.058 |
| 534-52-1 | 4,6-Dinitro-2-methylpheno | 0.010 | 0.027 | 118-74-1 | Hexachlorobenzene | 0.0021 | 0.059 |
| 101-55-3 | 4-Bromophenyl-phenyleth | 0.0021 | 0.061 | 87-68-3 | Hexachlorobutadiene | 0.0021 | 0.051 |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | 0.063 | 77-47-4 | Hexachlorocyclopentadie | 0.0021 | 0.049 |
| 106-47-8 | 4-Chloroaniline | 0.00052 | 0.083 | 67-72-1 | Hexachloroethane | 0.0021 | 0.049 |
| 7005-72-3 | 4-Chlorophenyl-phenyleth | 0.0021 | 0.059 | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | 0.064 |
| 100-01-6 | 4-Nitroaniline | 0.0021 | 0.077 | 78-59-1 | Isophorone | 0.0021 | 0.055 |
| 100-02-7 | 4-Nitrophenol | 0.0021 | 0.030 | 91-20-3 | Naphthalene | 0.00052 | 0.050 |
| 83-32-9 | Acenaphthene | 0.0021 | 0.057 | 98-95-3 | Nitrobenzene | 0.0021 | 0.057 |
| 208-96-8 | Acenaphthylene | 0.0021 | 0.059 | 621-64-7 | N-Nitroso-di-n-propylamin | 0.00066 | 0.057 |
| 98-86-2 | Acetophenone | 0.0021 | 0.061 | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | 0.051 |
| 120-12-7 | Anthracene | 0.0021 | 0.061 | 87-86-5 | Pentachlorophenol | 0.010 | 0.065 |
| 1912-24-9 | Atrazine | 0.0021 | 0.036 | 85-01-8 | Phenanthrene | 0.0021 | 0.062 |
| 100-52-7 | Benzaldehyde | 0.0021 | 0.033 | 108-95-2 | Phenol | 0.0021 | 0.031 |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | 0.058 | 129-00-0 | Pyrene | 0.0021 | 0.061 |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-050(MSD:AD
Client Id: LTMW-19-20210916MSD
Data File: 10M87400.D
Analysis Date: 09/20/21 23:07
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | 0.099 | 50-32-8 | Benzo[a]pyrene | 0.0021 | 0.10 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen | 0.0021 | 0.098 | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | 0.10 |
| 123-91-1 | 1,4-Dioxane | 0.00052 | 0.060 | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | 0.097 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | 0.094 | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | 0.10 |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | 0.10 | 111-91-1 | bis(2-Chloroethoxy)metha | 0.0021 | 0.091 |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | 0.10 | 111-44-4 | bis(2-Chloroethyl)ether | 0.00052 | 0.083 |
| 120-83-2 | 2,4-Dichlorophenol | 0.00052 | 0.089 | 108-60-1 | bis(2-chloroisopropyl)ethe | 0.0021 | 0.076 |
| 105-67-9 | 2,4-Dimethylphenol | 0.00057 | 0.092 | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | 0.11 |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | 0.052 | 85-68-7 | Butylbenzylphthalate | 0.0021 | 0.10 |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | 0.092 | 105-60-2 | Caprolactam | 0.0021 | 0.045 |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | 0.096 | 86-74-8 | Carbazole | 0.0021 | 0.11 |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | 0.092 | 218-01-9 | Chrysene | 0.0021 | 0.098 |
| 95-57-8 | 2-Chlorophenol | 0.0021 | 0.080 | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | 0.10 |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | 0.095 | 132-64-9 | Dibenzofuran | 0.00070 | 0.10 |
| 95-48-7 | 2-Methylphenol | 0.00052 | 0.075 | 84-66-2 | Diethylphthalate | 0.0021 | 0.095 |
| 88-74-4 | 2-Nitroaniline | 0.0021 | 0.11 | 131-11-3 | Dimethylphthalate | 0.0021 | 0.095 |
| 88-75-5 | 2-Nitrophenol | 0.0021 | 0.093 | 84-74-2 | Di-n-butylphthalate | 0.0011 | 0.098 |
| 106-44-5 | 3&4-Methylphenol | 0.00052 | 0.073 | 117-84-0 | Di-n-octylphthalate | 0.0021 | 0.10 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | 0.074 | 206-44-0 | Fluoranthene | 0.0021 | 0.099 |
| 99-09-2 | 3-Nitroaniline | 0.0021 | 0.11 | 86-73-7 | Fluorene | 0.0021 | 0.093 |
| 534-52-1 | 4,6-Dinitro-2-methylpheno | 0.010 | 0.070 | 118-74-1 | Hexachlorobenzene | 0.0021 | 0.094 |
| 101-55-3 | 4-Bromophenyl-phenyleth | 0.0021 | 0.098 | 87-68-3 | Hexachlorobutadiene | 0.0021 | 0.085 |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | 0.094 | 77-47-4 | Hexachlorocyclopentadie | 0.0021 | 0.087 |
| 106-47-8 | 4-Chloroaniline | 0.00052 | 0.10 | 67-72-1 | Hexachloroethane | 0.0021 | 0.082 |
| 7005-72-3 | 4-Chlorophenyl-phenyleth | 0.0021 | 0.097 | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | 0.10 |
| 100-01-6 | 4-Nitroaniline | 0.0021 | 0.10 | 78-59-1 | Isophorone | 0.0021 | 0.086 |
| 100-02-7 | 4-Nitrophenol | 0.0021 | 0.046 | 91-20-3 | Naphthalene | 0.00052 | 0.087 |
| 83-32-9 | Acenaphthene | 0.0021 | 0.093 | 98-95-3 | Nitrobenzene | 0.0021 | 0.089 |
| 208-96-8 | Acenaphthylene | 0.0021 | 0.094 | 621-64-7 | N-Nitroso-di-n-propylamin | 0.00066 | 0.088 |
| 98-86-2 | Acetophenone | 0.0021 | 0.096 | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | 0.081 |
| 120-12-7 | Anthracene | 0.0021 | 0.097 | 87-86-5 | Pentachlorophenol | 0.010 | 0.11 |
| 1912-24-9 | Atrazine | 0.0021 | 0.078 | 85-01-8 | Phenanthrene | 0.0021 | 0.097 |
| 100-52-7 | Benzaldehyde | 0.0021 | 0.052 | 108-95-2 | Phenol | 0.0021 | 0.045 |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | 0.090 | 129-00-0 | Pyrene | 0.0021 | 0.097 |

Worksheet #: 611546 *Total Target Concentration* 6.1 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-001
Client Id: LTM-22-20210913
Data File: 3G130539.D
Analysis Date: 09/20/21 02:18
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-002(R)
Client Id: LTM-8-20210913
Data File: 3G130718.D
Analysis Date: 09/27/21 22:47
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-003
Client Id: LTM-10-20210913 U
Data File: 3G130541.D
Analysis Date: 09/20/21 02:48
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-005
Client Id: FB-20210913
Data File: 3G130549.D
Analysis Date: 09/20/21 04:46
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-006
Client Id: LTM-9-20210913 U
Data File: 3G130550.D
Analysis Date: 09/20/21 05:01
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-008
Client Id: LTM-11-20210913
Data File: 3G130551.D
Analysis Date: 09/20/21 05:15
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-009
Client Id: DUP-01-20210913
Data File: 3G130552.D
Analysis Date: 09/20/21 05:30
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-011
Client Id: LTM-7-20210913
Data File: 3G130553.D
Analysis Date: 09/20/21 05:45
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-012
Client Id: LTM-21-20210914 U
Data File: 3G130554.D
Analysis Date: 09/20/21 06:00
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-014
Client Id: LTM-12-20210914 U
Data File: 3G130555.D
Analysis Date: 09/20/21 06:15
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-016
Client Id: LTM-6-20210914 U
Data File: 3G130556.D
Analysis Date: 09/20/21 06:29
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-018
Client Id: LTM-13-20210914
Data File: 3G130557.D
Analysis Date: 09/20/21 06:44
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-019
Client Id: LTM-15-20210914 U
Data File: 3G130766.D
Analysis Date: 09/29/21 11:46
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 945ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.26 | U | 11097-69-1 | Aroclor-1254 | 0.26 | U |
| 11104-28-2 | Aroclor-1221 | 0.26 | U | 11096-82-5 | Aroclor-1260 | 0.26 | U |
| 11141-16-5 | Aroclor-1232 | 0.26 | U | 37324-23-5 | Aroclor-1262 | 0.26 | U |
| 53469-21-9 | Aroclor-1242 | 0.26 | U | 11100-14-4 | Aroclor-1268 | 0.26 | U |
| 12672-29-6 | Aroclor-1248 | 0.26 | U | 1336-36-3 | Aroclor (Total) | 0.26 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-021
Client Id: LTM-5B-20210914 U
Data File: 3G130558.D
Analysis Date: 09/20/21 06:59
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-023
Client Id: DUP-02-20210914 U
Data File: 3G130559.D
Analysis Date: 09/20/21 07:14
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-026
Client Id: LTM-5A-20210915
Data File: 3G130560.D
Analysis Date: 09/20/21 07:29
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-027
Client Id: LTM-17-20210915
Data File: 3G130561.D
Analysis Date: 09/20/21 07:44
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-028
Client Id: LTM-4-20210915 U
Data File: 3G130562.D
Analysis Date: 09/20/21 07:58
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-030
Client Id: LTM-16-20210915 U
Data File: 3G130767.D
Analysis Date: 09/29/21 12:01
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 985ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-032
Client Id: LTM-3-20210915
Data File: 3G130768.D
Analysis Date: 09/29/21 12:15
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-033
Client Id: FB-20210915
Data File: 3G130769.D
Analysis Date: 09/29/21 12:30
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-035
Client Id: LTM-18C-20210916
Data File: 3G130770.D
Analysis Date: 09/29/21 12:45
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 990ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-036
Client Id: LTM-2-20210916 U
Data File: 3G130771.D
Analysis Date: 09/29/21 13:00
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-038
Client Id: LTM-18UG-20210916 U
Data File: 3G130772.D
Analysis Date: 09/29/21 13:15
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.26 | U | 11097-69-1 | Aroclor-1254 | 0.26 | U |
| 11104-28-2 | Aroclor-1221 | 0.26 | U | 11096-82-5 | Aroclor-1260 | 0.26 | U |
| 11141-16-5 | Aroclor-1232 | 0.26 | U | 37324-23-5 | Aroclor-1262 | 0.26 | U |
| 53469-21-9 | Aroclor-1242 | 0.26 | U | 11100-14-4 | Aroclor-1268 | 0.26 | U |
| 12672-29-6 | Aroclor-1248 | 0.26 | U | 1336-36-3 | Aroclor (Total) | 0.26 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-040(R)
Client Id: LTM-1-20210916 U
Data File: 3G130765.D
Analysis Date: 09/29/21 11:31
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-042(MS:AD26
Client Id: LTM-1-20210916MS U
Data File: 3G130546.D
Analysis Date: 09/20/21 04:01
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **12674-11-2** | **(^)Aroclor-1016** | **0.25** | **4.1** | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | **11096-82-5** | **(^)Aroclor-1260** | **0.25** | **4.9** |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | **1336-36-3** | **Aroclor (Total)** | **0.25** | **9.0** |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-044(MSD:AD
Client Id: LTM-1-20210916MSD U
Data File: 3G130547.D
Analysis Date: 09/20/21 04:16
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **12674-11-2** | **(^)Aroclor-1016** | **0.25** | **3.8** | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | **11096-82-5** | **(^)Aroclor-1260** | **0.25** | **4.4** |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | **1336-36-3** | **Aroclor (Total)** | **0.25** | **8.2** |

Worksheet #: 610641

***Total Target Concentration*** 8.2

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-046
Client Id: LTM-23-20210916 U
Data File: 3G130719.D
Analysis Date: 09/27/21 23:01
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.26 | U | 11097-69-1 | Aroclor-1254 | 0.26 | U |
| 11104-28-2 | Aroclor-1221 | 0.26 | U | 11096-82-5 | Aroclor-1260 | 0.26 | U |
| 11141-16-5 | Aroclor-1232 | 0.26 | U | 37324-23-5 | Aroclor-1262 | 0.26 | U |
| 53469-21-9 | Aroclor-1242 | 0.26 | U | 11100-14-4 | Aroclor-1268 | 0.26 | U |
| 12672-29-6 | Aroclor-1248 | 0.26 | U | 1336-36-3 | Aroclor (Total) | 0.26 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-048
Client Id: LTM-19-20210916
Data File: 3G130720.D
Analysis Date: 09/27/21 23:16
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.26 | U | 11097-69-1 | Aroclor-1254 | 0.26 | U |
| 11104-28-2 | Aroclor-1221 | 0.26 | U | 11096-82-5 | Aroclor-1260 | 0.26 | U |
| 11141-16-5 | Aroclor-1232 | 0.26 | U | 37324-23-5 | Aroclor-1262 | 0.26 | U |
| 53469-21-9 | Aroclor-1242 | 0.26 | U | 11100-14-4 | Aroclor-1268 | 0.26 | U |
| 12672-29-6 | Aroclor-1248 | 0.26 | U | 1336-36-3 | Aroclor (Total) | 0.26 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-049(MS:AD26
Client Id: LTM-19-20210916MS
Data File: 3G130589.D
Analysis Date: 09/21/21 16:53
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 990ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **12674-11-2** | **(^)Aroclor-1016** | **0.25** | **4.7** | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | **11096-82-5** | **(^)Aroclor-1260** | **0.25** | **5.2** |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | **1336-36-3** | **Aroclor (Total)** | **0.25** | **9.9** |

Worksheet #: 610641

***Total Target Concentration*** 9.9

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-050(MSD:AD
Client Id: LTM-19-20210916MSD
Data File: 3G130590.D
Analysis Date: 09/21/21 17:08
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **12674-11-2** | **(^)Aroclor-1016** | **0.26** | **5.0** | 11097-69-1 | Aroclor-1254 | 0.26 | U |
| 11104-28-2 | Aroclor-1221 | 0.26 | U | **11096-82-5** | **(^)Aroclor-1260** | **0.26** | **5.6** |
| 11141-16-5 | Aroclor-1232 | 0.26 | U | 37324-23-5 | Aroclor-1262 | 0.26 | U |
| 53469-21-9 | Aroclor-1242 | 0.26 | U | 11100-14-4 | Aroclor-1268 | 0.26 | U |
| 12672-29-6 | Aroclor-1248 | 0.26 | U | **1336-36-3** | **Aroclor (Total)** | **0.26** | **11** |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-001
Client Id: LTMW-22-20210913
Data File: 5G98229.D
Analysis Date: 09/20/21 01:08
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-002(R)
Client Id: LTMW-8-20210913
Data File: 5G98373.D
Analysis Date: 09/28/21 13:41
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-003
Client Id: LTMW-10-20210913 U
Data File: 5G98231.D
Analysis Date: 09/20/21 01:44
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-005
Client Id: FB-20210913
Data File: 5G98232.D
Analysis Date: 09/20/21 02:02
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 610738

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-006
Client Id: LTMW-9-20210913 U
Data File: 5G98233.D
Analysis Date: 09/20/21 02:20
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-008
Client Id: LTMW-11-20210913
Data File: 5G98234.D
Analysis Date: 09/20/21 02:39
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603 *Total Target Concentration* 0 ColumnID: (') Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-009
Client Id: DUP-01-20210913
Data File: 5G98235.D
Analysis Date: 09/20/21 02:57
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 610738

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-011
Client Id: LTMW-7-20210913
Data File: 5G98236.D
Analysis Date: 09/20/21 03:15
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

***Total Target Concentration*** 0

ColumnID: (2) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-012
Client Id: LTMW-21-20210914 U
Data File: 5G98237.D
Analysis Date: 09/20/21 03:33
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-014
Client Id: LTMW-12-20210914 U
Data File: 5G98238.D
Analysis Date: 09/20/21 03:51
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

***Total Target Concentration*** 0

ColumnID: (*) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-016
Client Id: LTMW-6-20210914 U
Data File: 5G98239.D
Analysis Date: 09/20/21 04:10
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-018
Client Id: LTMW-13-20210914
Data File: 5G98240.D
Analysis Date: 09/20/21 04:28
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-019
Client Id: LTMW-15-20210914 U
Data File: 6G119474.D
Analysis Date: 09/29/21 09:43
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 945ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.011 | U | 53494-70-5 | Endrin Ketone | 0.011 | U |
| 309-00-2 | Aldrin | 0.011 | U | 58-89-9 | gamma-BHC | 0.011 | U |
| 319-84-6 | alpha-BHC | 0.011 | U | 76-44-8 | Heptachlor | 0.011 | U |
| 319-85-7 | beta-BHC | 0.011 | U | 1024-57-3 | Heptachlor Epoxide | 0.011 | U |
| 319-86-8 | delta-BHC | 0.011 | U | 72-43-5 | Methoxychlor | 0.015 | U |
| 60-57-1 | Dieldrin | 0.011 | U | 72-54-8 | p,p'-DDD | 0.011 | U |
| 959-98-8 | Endosulfan I | 0.011 | U | 72-55-9 | p,p'-DDE | 0.011 | U |
| 33213-65-9 | Endosulfan II | 0.011 | U | 50-29-3 | p,p'-DDT | 0.011 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.011 | U | 8001-35-2 | Toxaphene | 0.26 | U |
| 72-20-8 | Endrin | 0.011 | U | 5103-74-2 | y-chlordane | 0.011 | U |
| 7421-93-4 | Endrin Aldehyde | 0.011 | U | 57-74-9 | Chlordane (Total) | 0.011 | U |

Worksheet #: 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-021
Client Id: LTMW-5B-20210914 U
Data File: 5G98241.D
Analysis Date: 09/20/21 04:46
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet = 611603 *Total Target Concentration* 0 ColumnID: (') Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-023
Client Id: DUP-02-20210914 U
Data File: 5G98242.D
Analysis Date: 09/20/21 05:04
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 610738

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-026
Client Id: LTMW-5A-20210915
Data File: 5G98243.D
Analysis Date: 09/20/21 05:22
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-027
Client Id: LTMW-17-20210915
Data File: 5G98253.D
Analysis Date: 09/20/21 12:03
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-028
Client Id: LTMW-4-20210915 U
Data File: 5G98254.D
Analysis Date: 09/20/21 12:21
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldenyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603 *Total Target Concentration* 0 Column[D: (*) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-030
Client Id: LTMW-16-20210915 U
Data File: 6G119475.D
Analysis Date: 09/29/21 10:00
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 985ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.015 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-032
Client Id: LTMW-3-20210915
Data File: 5G98406.D
Analysis Date: 09/29/21 15:51
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-033
Client Id: FB-20210915
Data File: 6G119490.D
Analysis Date: 09/29/21 15:43
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 610738

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-035
Client Id: LTMW-18C-20210916
Data File: 6G119491.D
Analysis Date: 09/29/21 16:00
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 990ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-036
Client Id: LTMW-2-20210916 U
Data File: 6G119492.D
Analysis Date: 09/29/21 16:18
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-038
Client Id: LTMW-18UG-20210916 U
Data File: 6G119493.D
Analysis Date: 09/29/21 16:36
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.015 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.26 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-040(R)
Client Id: LTMW-1-20210916 U
Data File: 6G119494.D
Analysis Date: 09/29/21 16:53
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-042(MS:AD26
Client Id: LTMW-1-20210916MS U
Data File: 5G98226.D
Analysis Date: 09/20/21 00:13
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **5103-71-9** | **(^)a-chlordane** | **0.010** | **0.29** | **53494-70-5** | **Endrin Ketone** | **0.010** | **0.31** |
| **309-00-2** | **Aldrin** | **0.010** | **0.36** | **58-89-9** | **gamma-BHC** | **0.010** | **0.38** |
| **319-84-6** | **alpha-BHC** | **0.010** | **0.25** | **76-44-8** | **Heptachlor** | **0.010** | **0.33** |
| **319-85-7** | **beta-BHC** | **0.010** | **0.25** | **1024-57-3** | **Heptachlor Epoxide** | **0.010** | **0.31** |
| **319-86-8** | **(^)delta-BHC** | **0.010** | **0.28** | **72-43-5** | **Methoxychlor** | **0.014** | **0.34** |
| **60-57-1** | **Dieldrin** | **0.010** | **0.34** | **72-54-8** | **p,p'-DDD** | **0.010** | **0.37** |
| **959-98-8** | **Endosulfan I** | **0.010** | **0.34** | **72-55-9** | **(^)p,p'-DDE** | **0.010** | **0.31** |
| **33213-65-9** | **Endosulfan II** | **0.010** | **0.33** | **50-29-3** | **(^)p,p'-DDT** | **0.010** | **0.34** |
| **1031-07-8** | **Endosulfan Sulfate** | **0.010** | **0.34** | 8001-35-2 | Toxaphene | 0.25 | U |
| **72-20-8** | **Endrin** | **0.010** | **0.35** | **5103-74-2** | **y-chlordane** | **0.010** | **0.29** |
| **7421-93-4** | **Endrin Aldehyde** | **0.010** | **0.25** | **57-74-9** | **Chlordane (Total)** | **0.010** | **0.58** |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-044(MSD:AD
Client Id: LTMW-1-20210916MSD U
Data File: 5G98227.D
Analysis Date: 09/20/21 00:31
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **5103-71-9** | **(^)a-chlordane** | **0.010** | **0.34** | **53494-70-5** | **Endrin Ketone** | **0.010** | **0.39** |
| **309-00-2** | **Aldrin** | **0.010** | **0.42** | **58-89-9** | **gamma-BHC** | **0.010** | **0.40** |
| **319-84-6** | **alpha-BHC** | **0.010** | **0.29** | **76-44-8** | **Heptachlor** | **0.010** | **0.39** |
| **319-85-7** | **beta-BHC** | **0.010** | **0.28** | **1024-57-3** | **Heptachlor Epoxide** | **0.010** | **0.36** |
| **319-86-8** | **(^)delta-BHC** | **0.010** | **0.31** | **72-43-5** | **Methoxychlor** | **0.014** | **0.42** |
| **60-57-1** | **Dieldrin** | **0.010** | **0.39** | **72-54-8** | **p,p'-DDD** | **0.010** | **0.41** |
| **959-98-8** | **Endosulfan I** | **0.010** | **0.40** | **72-55-9** | **p,p'-DDE** | **0.010** | **0.36** |
| **33213-65-9** | **Endosulfan II** | **0.010** | **0.38** | **50-29-3** | **(^)p,p'-DDT** | **0.010** | **0.38** |
| **1031-07-8** | **Endosulfan Sulfate** | **0.010** | **0.40** | 8001-35-2 | Toxaphene | 0.25 | U |
| **72-20-8** | **(^)Endrin** | **0.010** | **0.40** | **5103-74-2** | **y-chlordane** | **0.010** | **0.34** |
| **7421-93-4** | **Endrin Aldehyde** | **0.010** | **0.27** | **57-74-9** | **Chlordane (Total)** | **0.010** | **0.68** |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-046
Client Id: LTMW-23-20210916 U
Data File: 5G98374.D
Analysis Date: 09/28/21 13:59
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.015 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.26 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-048
Client Id: LTMW-19-20210916
Data File: 5G98375.D
Analysis Date: 09/28/21 14:17
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.015 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.26 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-049(MS:AD26
Client Id: LTMW-19-20210916MS
Data File: 5G98262.D
Analysis Date: 09/21/21 09:26
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **5103-71-9** | **(^)a-chlordane** | **0.010** | **0.39** | **53494-70-5** | **Endrin Ketone** | **0.010** | **0.41** |
| **309-00-2** | **Aldrin** | **0.010** | **0.37** | **58-89-9** | **gamma-BHC** | **0.010** | **0.36** |
| **319-84-6** | **(^)alpha-BHC** | **0.010** | **0.33** | **76-44-8** | **(^)Heptachlor** | **0.010** | **0.33** |
| **319-85-7** | **beta-BHC** | **0.010** | **0.35** | **1024-57-3** | **Heptachlor Epoxide** | **0.010** | **0.40** |
| **319-86-8** | **(^)delta-BHC** | **0.010** | **0.37** | **72-43-5** | **Methoxychlor** | **0.014** | **0.41** |
| **60-57-1** | **(^)Dieldrin** | **0.010** | **0.42** | **72-54-8** | **p,p'-DDD** | **0.010** | **0.47** |
| **959-98-8** | **Endosulfan I** | **0.010** | **0.42** | **72-55-9** | **(^)p,p'-DDE** | **0.010** | **0.41** |
| **33213-65-9** | **(^)Endosulfan II** | **0.010** | **0.44** | **50-29-3** | **p,p'-DDT** | **0.010** | **0.39** |
| **1031-07-8** | **Endosulfan Sulfate** | **0.010** | **0.45** | 8001-35-2 | Toxaphene | 0.25 | U |
| **72-20-8** | **(^)Endrin** | **0.010** | **0.42** | **5103-74-2** | **(^)y-chlordane** | **0.010** | **0.39** |
| **7421-93-4** | **(^)Endrin Aldehyde** | **0.010** | **0.42** | **57-74-9** | **Chlordane (Total)** | **0.010** | **0.78** |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-050(MSD:AD
Client Id: LTMW-19-20210916MSD
Data File: 5G98263.D
Analysis Date: 09/21/21 09:45
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 990ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **5103-71-9** | **(^)a-chlordane** | **0.010** | **0.40** | **53494-70-5** | **Endrin Ketone** | **0.010** | **0.40** |
| **309-00-2** | **Aldrin** | **0.010** | **0.36** | **58-89-9** | **gamma-BHC** | **0.010** | **0.35** |
| **319-84-6** | **(^)alpha-BHC** | **0.010** | **0.31** | **76-44-8** | **(^)Heptachlor** | **0.010** | **0.34** |
| **319-85-7** | **beta-BHC** | **0.010** | **0.35** | **1024-57-3** | **Heptachlor Epoxide** | **0.010** | **0.39** |
| **319-86-8** | **(^)delta-BHC** | **0.010** | **0.36** | **72-43-5** | **Methoxychlor** | **0.014** | **0.42** |
| **60-57-1** | **(^)Dieldrin** | **0.010** | **0.44** | **72-54-8** | **p,p'-DDD** | **0.010** | **0.47** |
| **959-98-8** | **Endosulfan I** | **0.010** | **0.43** | **72-55-9** | **(^)p,p'-DDE** | **0.010** | **0.40** |
| **33213-65-9** | **(^)Endosulfan II** | **0.010** | **0.43** | **50-29-3** | **(^)p,p'-DDT** | **0.010** | **0.40** |
| **1031-07-8** | **(^)Endosulfan Sulfate** | **0.010** | **0.45** | 8001-35-2 | Toxaphene | 0.25 | U |
| **72-20-8** | **Endrin** | **0.010** | **0.44** | **5103-74-2** | **(^)y-chlordane** | **0.010** | **0.39** |
| **7421-93-4** | **Endrin Aldehyde** | **0.010** | **0.44** | **57-74-9** | **Chlordane (Total)** | **0.010** | **0.79** |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-001
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | ND | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-001 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-22-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 23 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 11000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 41 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 18 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 23 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 14000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 23 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-001 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-22-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-002
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 790 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-8-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 260 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 14 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 290 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 190000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 920 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 75000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 5400 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 19 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | 83 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 5200 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 14 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 800000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 14 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-8-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 13 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-003
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 290 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-003 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-10-20210913 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 420 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 38 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 310 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 70000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 28000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 130 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 18 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 38 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 15000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 38 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-003 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-10-20210913 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-004 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-10-20210913 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 23 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 220 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 51000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 21000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 84 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 18 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 23 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 12000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 23 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-004 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-10-20210913 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-005
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | ND | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-005 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | FB-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 15 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 20 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 15 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 15 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-005 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | FB-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-006
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 250 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-006 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-9-20210913 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 680 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 14 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 340 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 61000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 24000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 480 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 19 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 14 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 11000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 14 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-006 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-9-20210913 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-007 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-9-20210913 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 26 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 250 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 46000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 18000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 350 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 19 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 26 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 8900 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 26 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-007 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-9-20210913 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 33 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 33 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 33 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 33 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 33 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 33 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 33 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 33 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-008
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 590 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-008 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-11-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 16 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 120 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 140000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1700 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 60000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 430 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 23 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 7100 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 16 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 39000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 16 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-008 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-11-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-009
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 580 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-009 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-01-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 17 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 120 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 130000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1700 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 60000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 430 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 24 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 6900 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 17 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 39000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 17 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-009 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-01-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-011
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 260 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-011 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-7-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 18 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 300 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 78000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 16000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 620 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 25 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 18 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 20000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 18 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-011 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-7-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-012
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 46 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-012 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-21-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 320 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 15 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 110 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 8800 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 20000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 5800 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 750 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 20 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 15 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 7400 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 15 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-012 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-21-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 34 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 34 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 34 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 34 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 34 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 34 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 34 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 34 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-013 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-21-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 27 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 84 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 7300 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 15000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 570 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 22 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 27 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 6600 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 27 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-013 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-21-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact. | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 34 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 34 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 34 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 34 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 34 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 34 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 34 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 34 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-014
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 89 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-014 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-12-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 280 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 16 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 120 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 20000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 860 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 9800 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 110 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 23 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 16 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 100000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 16 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-014 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-12-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 14 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-015 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-12-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 28 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 97 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 17000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 8100 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 79 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 23 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 28 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 88000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 28 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-015 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-12-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 35 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 11 | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 35 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 35 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 35 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 35 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 35 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 35 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 35 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-016
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 150 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-016 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-6-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 17 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 180 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 42000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 11000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 260 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 24 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 17 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 13000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 17 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-016 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-6-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 36 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 36 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 36 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 36 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 36 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 36 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 36 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 36 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-017 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-6-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 29 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 150 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 33000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 8600 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 150 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 24 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 29 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 11000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 29 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-017 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-6-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-018
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 99 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-018 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-13-20210914 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 1400 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 21 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 120 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 14000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 69 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 4200 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 16000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 180 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 26 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 21 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 86000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 21 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 72 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-018 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-13-20210914 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 2.7 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 2.8 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 11 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-019
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 260 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-019 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-15-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/20/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 250 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 18 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 79 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 32000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1400 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 43000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 120 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 25 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 31000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 18 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 560000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 18 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-019 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-15-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/20/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 8.1 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-020 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-15-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 30 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 64 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 27000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 600 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 35000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 94 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 25 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 25000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 30 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 440000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 30 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-020 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-15-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 6.1 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-021
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 140 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-021 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-5B-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 930 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 19 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 200 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 36000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1900 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 12000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 240 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 26 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 19 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 20000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 19 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-021 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-5B-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-022 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-5B-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 31 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 160 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 31000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 9400 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 170 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 26 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 31 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 17000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 31 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-022 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-5B-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 38 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 38 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 38 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 38 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 38 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 38 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 38 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 38 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-023
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 130 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-023 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-02-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 870 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 20 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 200 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 35000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1700 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 11000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 230 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 27 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 20 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 19000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 20 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-023 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-02-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 39 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 39 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 39 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 39 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 39 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 39 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 39 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 39 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-024 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-02-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 34 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 150 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 29000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 8800 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 160 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 27 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 34 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 16000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 34 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-024 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-02-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 39 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 39 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 39 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 39 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 39 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 39 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 39 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 39 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-026
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 200 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-026 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-5A-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 22 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 430 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 60000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 13000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 78 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 27 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 22 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 39000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 22 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 72 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-026 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-5A-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 2.1 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-027
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 44 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-027 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-17-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 23 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 96 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 6400 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 400 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 6900 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 48 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 28 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 15000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 23 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 340000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 23 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-027 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-17-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 9.1 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-028
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 880 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-028 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-4-20210915 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 7600 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 23 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 1600 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 230000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 15000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 73000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 1100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 28 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 8500 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 23 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 190000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 23 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 87 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-028 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-4-20210915 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 5.0 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 7.5 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 7.8 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-029 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-4-20210915 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 35 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 1300 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 200000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 410 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 59000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 660 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 28 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 6200 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 35 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 170000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 35 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-029 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-4-20210915 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 40 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 40 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 40 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 40 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 40 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 40 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 40 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 40 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-030
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 43 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-030 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-16-20210915 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 24 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 110 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 6800 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 6300 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 51 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 29 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 7600 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 24 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 80000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 24 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-030 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-16-20210915 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-031 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-16-20210915 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 36 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 87 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 5200 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 29 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 6500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 36 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 66000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 36 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-031 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-16-20210915 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-032
Client ID: TRC-NYC

Level: low/med
Dilution: 10

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 330 | 3800 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-032 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-3-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | Mi | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 24 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 76 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7440-70-2 | Calcium | 50000 | 580000 | 10 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 83 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 25000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7439-95-4 | Magnesium | 50000 | 580000 | 10 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 83 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 2900 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 29 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 76000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 24 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 4700000 | 10 | 50 | 50 | 09/29/21 | 94427 | W27669E5 | 47 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-032 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-3-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 4.2 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-033
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | ND | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-033 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | FB-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 25 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 30 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 25 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 25 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-033 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | FB-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-035
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 140 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-035 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18C-20210916 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 26 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 240 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 20000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 22000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 31 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 33000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 26 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 270000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 26 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-035 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18C-20210916 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-036
Client ID: TRC-NYC

Level: low/med
Dilution: 10

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 330 | 4100 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-036 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-2-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 520 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 25 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 53 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-70-2 | Calcium | 50000 | 1000000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 84 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 5000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7439-95-4 | Magnesium | 50000 | 350000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 84 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 6700 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 30 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 36000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 25 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 2500000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669E5 | 56 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-036 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-2-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 7.0 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 7.3 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-037 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-2-20210916 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 37 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7440-70-2 | Calcium | 50000 | 830000 | 10 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 85 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 2300 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7439-95-4 | Magnesium | 50000 | 280000 | 10 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 85 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 5100 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 30 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 31000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 37 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 2000000 | 10 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 65 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-037 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-2-20210916 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 45 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 3.2 | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 45 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 45 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 45 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 4.7 | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 45 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 45 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 45 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 45 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-038
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 76 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-038 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18UG-2021091 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 26 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 57 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 20000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 6600 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 31 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 26 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 17000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 26 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-038 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18UG-2021091 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-039 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18UG-2021091 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 28 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 20000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 7100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 28 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 16000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 28 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-039 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18UG-2021091 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-039 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18UG-2021091 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/28/21 | 94442 | H27683SW | 40 | CV | HGCV4A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-040
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 870 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-040 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 32 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 2400 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 100000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 12000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 150000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 570 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 14 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 110000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 32 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 1300000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669E5 | 50 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-040 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 2.2 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 7.7 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-041 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 17 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 2000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 83000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 9400 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 120000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 470 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 14 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 86000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 17 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 990000 | 10 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 59 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-041 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 23 | M | SMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 23 | M | SMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 23 | M | SMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 23 | M | SMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 7.0 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 23 | M | SMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 23 | M | SMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 23 | M | SMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 23 | M | SMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-042
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 1200 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-042 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 4700 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 34 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 2900 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 150000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 510 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 17000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 200000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 1100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | 5.2 | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 16 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | 540 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 160000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 34 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | 100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 1400000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669E5 | 52 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | 520 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 530 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-042 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 460 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 26 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 490 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 26 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | 440 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 26 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | 460 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 26 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 480 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 26 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 420 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 26 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | 480 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 26 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | 420 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 26 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-043 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 4900 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 19 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 2200 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 120000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 490 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 13000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 150000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 880 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | 7.2 | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 16 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | 510 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 140000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 19 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | 100 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 1100000 | 10 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 61 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-043 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 450 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 460 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | 450 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | 450 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 450 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 420 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | 450 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | 430 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-044
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 1200 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-044 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 4600 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 35 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 2900 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 150000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 510 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 17000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 200000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 1100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | 5.2 | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 17 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | 530 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 160000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 35 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | 100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 1400000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669E5 | 53 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | 510 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 520 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-044 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 430 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 27 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 460 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 27 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | 410 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 27 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | 430 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 27 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 440 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 27 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 400 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 27 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | 450 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 27 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | 400 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 27 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-045 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 5000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 20 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 2200 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 120000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 490 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 13000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 160000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 890 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | 7.0 | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 17 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | 510 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 140000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 20 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | 100 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 1100000 | 10 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 62 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-045 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 460 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 480 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | 470 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | 460 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 460 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 440 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | 470 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | 450 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-046
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 38 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-046 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-23-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 27 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 53 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 12000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 710 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 120 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 32 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 27000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 27 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 29000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 27 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-046 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-23-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-047 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-23-20210916 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 38 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 9100 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 33 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 22000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 38 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 25000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 38 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-047 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-23-20210916 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | M | SMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | M | SMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | M | SMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | M | SMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | M | SMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | M | SMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | M | SMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | M | SMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-048
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 1500 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-048 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-19-20210916 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 17 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 340 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 170000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 27000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 270000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 2500 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 14 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 110000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 17 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 2700000 | 10 | 50 | 50 | 09/29/21 | 94427 | W27669E5 | 41 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-048 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-19-20210916 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | MI | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | MSMS3_7700SWA | |
| 7440-38-2 | Arsenic | 2.0 | 7.0 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | MSMS3_7700SWA | |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | MSMS3_7700SWA | |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | MSMS3_7700SWA | |
| 7440-48-4 | Cobalt | 2.0 | 2.4 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | MSMS3_7700SWA | |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | MSMS3_7700SWA | |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | MSMS3_7700SWA | |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | MSMS3_7700SWA | |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-049
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 2000 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-049 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-19-20210916M | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 23000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 19 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 800 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 260000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 480 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 480 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 40000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 340000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 3200 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | 6.4 | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 16 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | 500 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 160000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 19 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | 93 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 2800000 | 10 | 50 | 50 | 09/29/21 | 94427 | W27669E5 | 43 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | 500 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 580 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-049 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-19-20210916M | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 400 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 460 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | 360 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | 400 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 420 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 390 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | 420 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | 390 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-050
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 2200 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-050 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-19-20210916M | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 32000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 20 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 810 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 280000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 500 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 490 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 52000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 350000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 3500 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | 6.4 | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 17 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | 530 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 150000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 20 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | 92 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 2700000 | 10 | 50 | 50 | 09/29/21 | 94427 | W27669E5 | 44 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | 520 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 630 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-050 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-19-20210916M | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 390 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 450 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | 340 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | 390 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 420 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 390 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | 420 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | 380 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-001
Matrix: Aqueous
Client SampleID: LTMW-22-20210913
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Alkalinity | ALKALIN-MUR | 1 | 36 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/14/21 |
| Chloride | CHLORIDE-ICW | 1 | 17 | mg/L | 2.0 | 09/14/21 | 09/14/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/14/21 |
| Sulfate | SO4-ICW | 2 | 55 | mg/L | 4.0 | 09/21/21 | 09/21/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 100 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-002
Matrix: Aqueous
Client SampleID: LTMW-8-20210913
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Alkalinity | ALKALIN-MUR | 1 | 1400 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | 5.6 | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 50 | 940 | mg/L | 100 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 32 | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 3000 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | 29 | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-003
Matrix: Aqueous
Client SampleID: LTMW-10-20210913 U
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 220 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 2 | 51 | mg/L | 4.0 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 41 | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 380 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-005
Matrix Aqueous
Client SampleID: FB-20210913

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | ND | mg CaCO3/l | 5.0 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.2 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | ND | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | ND | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | ND | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-006
Matrix Aqueous
Client SampleID: LTMW-9-20210913 U

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 210 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | 26 | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 34 | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 360 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-008
Matrix Aqueous
Client SampleID: LTMW-11-20210913

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 360 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 5 | 170 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 5 | 110 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 840 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-009
Matrix: Aqueous
Client SampleID: DUP-01-20210913
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 360 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 5 | 160 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 5 | 100 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 790 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-011
Matrix: Aqueous
Client SampleID: LTMW-7-20210913
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 200 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 5 | 73 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 25 | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 410 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-012
Matrix: Aqueous
Client SampleID: LTMW-21-20210914 U
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 59 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | 6.6 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | ND | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 92 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-014
Matrix Aqueous
Client SampleID: LTMW-12-20210914 U

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Alkalinity | ALKALIN-MUR | 1 | 150 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 5 | 100 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 48 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 430 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-016
Matrix Aqueous
Client SampleID: LTMW-6-20210914 U

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 200 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | 6.6 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 6.1 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 220 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-018
Matrix Aqueous
Client SampleID: LTMW-13-20210914

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 200 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 2 | 72 | mg/L | 4.0 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 15 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 380 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-019
Matrix Aqueous
Client SampleID: LTMW-15-20210914 U

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 300 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | 2.9 | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 50 | 910 | mg/L | 100 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/27/21 | 09/27/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 5 | 93 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 1800 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-021
Matrix Aqueous
Client SampleID: LTMW-5B-20210914 U

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Alkalinity | ALKALIN-MUR | 1 | 180 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | 10.0 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 9.5 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 250 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-023
Matrix Aqueous
Client SampleID: DUP-02-20210914 U

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Alkalinity | ALKALIN-MUR | 1 | 180 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | 9.7 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 9.3 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 230 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-026
Matrix Aqueous
Client SampleID: LTMW-5A-20210915

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/15/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 140 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Chloride | CHLORIDE-ICW | 5 | 120 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Sulfate | SO4-ICW | 1 | 13 | mg/L | 2.0 | 09/16/21 | 09/16/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 400 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-027
Matrix Aqueous
Client SampleID: LTMW-17-20210915

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/15/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 380 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Chloride | CHLORIDE-ICW | 10 | 320 | mg/L | 20 | 09/23/21 | 09/23/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Sulfate | SO4-ICW | 10 | 73 | mg/L | 20 | 09/23/21 | 09/23/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 1100 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | 9.6 | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-028
Matrix Aqueous
Client SampleID: LTMW-4-20210915 U

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/15/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 100 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | 3.2 | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Chloride | CHLORIDE-ICW | 50 | 980 | mg/L | 100 | 09/21/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Sulfate | SO4-ICW | 1 | 11 | mg/L | 2.0 | 09/16/21 | 09/16/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 2800 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-030
Matrix Aqueous
Client SampleID: LTMW-16-20210915 U

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/15/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 170 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Chloride | CHLORIDE-ICW | 2 | 49 | mg/L | 4.0 | 09/21/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Sulfate | SO4-ICW | 1 | 19 | mg/L | 2.0 | 09/16/21 | 09/16/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 330 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-032
Matrix Aqueous
Client SampleID: LTMW-3-20210915

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/15/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 510 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | 1.9 | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 10 | 32 | mg/L | 10 | 09/22/21 | 09/23/21 |
| Chloride | CHLORIDE-ICW | 500 | 10000 | mg/L | 1000 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Sulfate | SO4-ICW | 50 | 980 | mg/L | 100 | 09/22/21 | 09/22/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 18000 | mg/l | 200 | 09/20/21 | 09/21/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | 8.8 | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-033
Matrix Aqueous
Client SampleID: FB-20210915

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/15/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | ND | mg CaCO3/l | 5.0 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.2 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Chloride | CHLORIDE-ICW | 1 | ND | mg/L | 2.0 | 09/16/21 | 09/16/21 |
| Cyanide | CN-W-9012 | 1 | 0.036 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Sulfate | SO4-ICW | 1 | ND | mg/L | 2.0 | 09/16/21 | 09/16/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | ND | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-035
Matrix Aqueous
Client SampleID: LTMW-18C-20210916

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 75 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | 1.4 | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Chloride | CHLORIDE-ICW | 20 | 480 | mg/L | 40 | 09/21/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 20 | 96 | mg/L | 40 | 09/21/21 | 09/22/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 1100 | mg/l | 40 | 09/20/21 | 09/21/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-036
Matrix Aqueous
Client SampleID: LTMW-2-20210916 U

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 200 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 5 | 22 | mg/L | 5.0 | 09/21/21 | 09/22/21 |
| Chloride | CHLORIDE-ICW | 500 | 6800 | mg/L | 1000 | 09/21/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 50 | 580 | mg/L | 100 | 09/21/21 | 09/22/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 19000 | mg/l | 200 | 09/22/21 | 09/23/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-038
Matrix Aqueous
Client SampleID: LTMW-18UG-20210916 U

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Alkalinity | ALKALIN-MUR | 1 | 48 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Chloride | CHLORIDE-ICW | 1 | 33 | mg/L | 2.0 | 09/17/21 | 09/18/21 |
| Cyanide | CN-W-9012 | 1 | 0.029 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Sulfate | SO4-ICW | 1 | 5.5 | mg/L | 2.0 | 09/17/21 | 09/18/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 160 | mg/l | 40 | 09/20/21 | 09/21/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-040 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-1-20210916 U | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 1900 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | 97 | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | 10 | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Chloride | CHLORIDE-ICW | 100 | 1900 | mg/L | 200 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 1 | ND | mg/L | 2.0 | 09/17/21 | 09/17/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 4700 | mg/l | 40 | 09/20/21 | 09/21/21 |
| Total Organic Carbon | TOC-WAT-MUR | 10 | 88 | mg/L | 50 | 09/24/21 | 09/24/21 |

Lab#: AD26083-042 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-1-20210916MS U | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Ammonia | AMMONIA-MUR | 2 | 150 | MG/L | 2.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | 16 | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Chloride | CHLORIDE-ICW | 100 | 1900 | mg/L | 200 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | 0.33 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | 5.3 | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Sulfate | SO4-ICW | 1 | 6.0 | mg/L | 2.0 | 09/17/21 | 09/18/21 |
| Total Organic Carbon | TOC-WAT-MUR | 10 | 130 | mg/L | 50 | 09/24/21 | 09/24/21 |

Lab#: AD26083-044 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-1-20210916MSD U | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Ammonia | AMMONIA-MUR | 2 | 160 | MG/L | 2.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | 15 | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Chloride | CHLORIDE-ICW | 100 | 2000 | mg/L | 200 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | 0.36 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | 5.0 | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Sulfate | SO4-ICW | 1 | 5.6 | mg/L | 2.0 | 09/17/21 | 09/18/21 |
| Total Organic Carbon | TOC-WAT-MUR | 10 | 130 | mg/L | 50 | 09/24/21 | 09/24/21 |

Lab#: AD26083-046 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-23-20210916 U | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 130 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Chloride | CHLORIDE-ICW | 1 | 3.4 | mg/L | 2.0 | 09/23/21 | 09/23/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 1 | 15 | mg/L | 2.0 | 09/17/21 | 09/17/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 96 | mg/l | 40 | 09/20/21 | 09/21/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-048
Matrix: Aqueous
Client SampleID: LTMW-19-20210916
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 800 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | 5.6 | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | 19 | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Chloride | CHLORIDE-ICW | 200 | 4900 | mg/L | 400 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | 0.022 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 5 | 240 | mg/L | 10 | 09/22/21 | 09/22/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 9900 | mg/l | 200 | 09/22/21 | 09/23/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | 19 | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-049
Matrix: Aqueous
Client SampleID: LTMW-19-20210916MS
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Ammonia | AMMONIA-MUR | 1 | 47 | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 5 | 23 | mg/L | 5.0 | 09/22/21 | 09/22/21 |
| Chloride | CHLORIDE-ICW | 200 | 5600 | mg/L | 400 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | 0.35 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | 8.1 | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 10 | 320 | mg/L | 20 | 09/22/21 | 09/22/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | 65 | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-050
Matrix: Aqueous
Client SampleID: LTMW-19-20210916MSD
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Ammonia | AMMONIA-MUR | 1 | 48 | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 5 | 32 | mg/L | 5.0 | 09/22/21 | 09/22/21 |
| Chloride | CHLORIDE-ICW | 500 | 8600 | mg/L | 1000 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | 0.35 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | 5.1 | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 50 | 920 | mg/L | 100 | 09/22/21 | 09/22/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | 61 | mg/L | 5.0 | 09/21/21 | 09/21/21 |

# Chain of Custody Forms

1091738 0445

# Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Hampton-Clarke WBE/DBE/SBE 800-426-9992
*A Women-Owned, Disadvantaged, Small Business Enterprise*

## CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1091730
Page 1 of 1

### 3) Reporting Requirements (Please Circle)

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | Summary | NJ Hazsite |
| 1 Business Day (100%) * | Results + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%) * | Reduced: | EnviroData |
| 3 Business Days (50%) * | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%) * | [ ] PA [ ] Other | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full / NY ASP CatB | [X] NYDEC |
| 6 Business Days (Stand.) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: | | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

### Customer Information

1a) Customer: TRC Companies
Address: 1430 Broadway, New York, NY 10018
1b) Email/Cell/Fax/Ph: abartlett@trccompanies.com
1c) Send Invoice to: wlindemuth@trccompanies.com
1d) Send Report to: abartlett@trccompanies.com wlindemuth@trccompanies.com

### Project Information

2a) Project: Brookfield Park
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): Staten Island, NY
2d) Quote/PO # (If Applicable): 152602

FOR LAB USE ONLY ↓

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water; GW - Ground Water; WW - Waste Water; OT - Other (please specify under item 9, Comments); S - Soil; SL - Sludge; OL - Oil; A - Air

Batch # AD26083

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs | SVOCs | PCBs/Pesticides | Metals (Filtered) | Metals (unfiltered) | Hardness | Cyanide | Alkalinity, ammonia, bromide, chloride, nitrate, sulfate | TDS | TOC | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | LTMW-22-20210913 | GW | 9/13/21 | 9:25 | | X | X | X | X | | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 1 | | |
| 002 | LTMW-8-20210913 | GW | 9/13/21 | 9:35 | | X | X | X | X | | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 1 | | |
| 004/003 | LTMW-10-20210913 | GW | 9/13/21 | 10:45 | | X | X | X | X | X | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 2 | | limited VOC sample volume, see note below |
| 005 | FB-20210913 | AQ | 9/13/21 | 11:20 | | X | X | X | X | | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 1 | | |
| 007/006 | LTMW-9-20210913 | GW | 9/13/21 | 12:10 | | X | X | X | X | X | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 2 | | |
| 008 | LTMW-11-20210913 | GW | 9/13/21 | 12:45 | | X | X | X | X | | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 1 | | |
| 009 | DUP-01-20210913 | GW | 9/13/21 | — | | X | X | X | X | | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 1 | | |
| 010 | TB-01-20210913 | AQ | 9/13/21 | — | | X | X | | | | | | | | | | | | | | | 3 | | | | |
| 011 | LTMW-7-20210913 | GW | 9/13/21 | | | X | X | X | X | | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 1 | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| Amber Bartlett | | 9/14/21 | 9:20 |
| | | 9/14/21 | 10:38 |

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.2
3.4, 3.7, 2.9

11) Sampler (print name): Amber Bartlett, Ezra Stobie, Koryn Treaten, Charles Lambert Date: 9/13/21

Additional Notes: Field filtered samples have -F at the end of the sample ID. unfiltered samples have -U at the end of the sample ID on the bottle.

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

1091738 0446

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Hampton-Clarke
WBE/DBE/SBE 800-426-9992
*A Women-Owned, Disadvantaged, Small Business Enterprise*

# CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 109173 D

Page 1 of 1

**Customer Information**

1a) Customer: TRC Companies
Address: 1430 Broadway, New York, NY 10018
1b) Email/Cell/Fax/Ph: abartlett@trccompanies.com
1c) Send Invoice to: wlindemuth@trccompanies.com
1d) Send Report to: abartlett & wlindemuth@trccompanies.com

**Project Information**

2a) Project: Brookfield Park
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): Staten Island, NY
2d) Quote/PO # (If Applicable): 152607

**3) Reporting Requirements (Please Circle)**

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | (Summary) | NJ Hazsite |
| 1 Business Day (100%) * | Results + QC (Waste) | Excel Reg. NJ (NY) PA |
| 2 Business Days (75%) * | Reduced: | EnviroData |
| 3 Business Days (50%) * | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%) * | [ ] PA [ ] Other | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full / (NY ASP CatB) | [X] NYDEC |
| (8 Business Days (Stand.)) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: | | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY

Batch # A026083

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

**7) Analysis** *(specify methods & parameter lists)*

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs | SVOCs | PCBs/Pesticides | Metals (filtered) | Metals (unfiltered) | Hardness | Cyanide | Alkalinity, ammonia, nitrate, nitrite, sulfate | TDS | TOC | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -013/-012 | LTMW-21-20210914 | GW | 9/14/21 | 9:50 | | X | X | X | X | X | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 2 | | see additional note |
| -015/-014 | LTMW-12-20210914 | GW | 9/14/21 | 955 | | X | X | X | X | X | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 2 | | see additional note |
| -017/-016 | LTMW-6-20210914 | GW | 9/14/21 | 1040 | | X | X | X | X | X | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 2 | | see additional note |
| -018 | LTMW-13-20210914 | GW | 9/14/21 | 1110 | | X | X | X | X | | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 1 | | |
| -020/-019 | LTMW-15-20210914 | GW | 9/14/21 | 1240 | | X | X | X | X | X | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 2 | | see additional note |
| -023/-021 | LTMW-5B-20210914 | GW | 9/14/21 | 1255 | | X | X | X | X | X | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 2 | | see additional note |
| -024/-023 | DUP-02-20210914 | GW | 9/14/21 | — | | X | X | X | X | X | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 2 | | see additional note |
| -025 | TB-02-20210914 | AQ | 9/14/21 | — | | X | X | | | | | | | | | | | | | | | 3 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| Amber Bartlett | [signature] | 9/15/21 | 10:06 |
| [signature] | Shantel K | 9/15/21 | 17:16 |
| | | | |
| | | | |

11) Sampler (print name): Amber Bartlett, Ezra Stoppe, Karyn Trainer, Charles Lambert Date: 9/14/21

**Additional Notes** Field filtered samples have "-F" at the end of the sample ID on the bottle. unfiltered samples have -U at the end of the sample ID on the bottle.

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Cooler Temperature: 2.3, 3.9, 4.2 °C

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

1091738 0447

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*A Women-Owned, Disadvantaged, Small Business Enterprise*

# CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1091738

Page 1 of 1

## Customer Information

1a) Customer: TRC Companies
Address: 1430 Broadway
New York, NY 10018
1b) Email/Cell/Fax/Ph: abartlett@trcompanies.com
1c) Send Invoice to: wlindemuth@trcompanies.com
1d) Send Report to: abartlett & wlindemuth@trcompanies.com

## Project Information

2a) Project: Brookfield Park
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): Staten Island, New York
2d) Quote/PO # (If Applicable): 152602

## 3) Reporting Requirements (Please Circle)

**Turnaround** — When Available:
1 Business Day (100%) *
2 Business Days (75%) *
3 Business Days (50%) *
4 Business Days (35%) *
5 Business Days (25%)
8 Business Days (Stand.)
Other:

**Report Type**
Summary
Results + QC (Waste)
Reduced:
[ ] NJ [ ] NY
[ ] PA [ ] Other
NJ Full / NY ASP CatB
NY ASP CatA

**Electronic Data Deliv.**
NJ Hazsite
Excel Reg. NJ / NY / PA
EnviroData
EQuIS:
[ ] 4-File [ ] EZ
[ ] NYDEC
[ ] Region 2 or 5
Other:

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY

Batch # AD26083

**Matrix Codes**
DW - Drinking Water; S - Soil; A - Air
GW - Ground Water; SL - Sludge
WW - Waste Water; OL - Oil
OT - Other (please specify under item 9, Comments)

===> Check If Contingent ===>

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs | SVOCs | PCBs/Pesticides | Metals (filtered) | Metals (unfiltered) | Hardness | Cyanide | alkalinity, cyanide, bromide, chloride | nitrate, sulfate | TDS | TOC | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -026 | LTMW-5A-20210915 | GW | 9/15/21 | 935 | | X | X | X | X | | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 1 | | |
| -027 | LTMW-17-20210915 | GW | 9/15/21 | 1040 | | X | X | X | X | | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 1 | | |
| -028/-029 | LTMW-4-20210915 | GW | 9/15/21 | 1135 | | X | X | X | X | X | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 2 | | see additional note |
| -030/-031 | LTMW-16-20210915 | GW | 9/15/21 | 1145 | | X | X | X | X | X | X | X | X | X | X | X | X | 9 | | | 1 | 3 | 2 | 2 | | See additional note |
| -032 | LTMW-3-20210915 | GW | 9/15/21 | 1300 | | X | X | X | X | | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 1 | | |
| -033 | FB-20210915 | AQ | 9/15/21 | 1350 | | X | X | X | X | | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 1 | | |
| -034 | TB-03-20210915 | AQ | 9/15/21 | — | | X | X | | | | | | | | | | | | | | | | | | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| Amber Bartlett | John Bunnell | 9/16/21 | 0900 |
| John Bunnell | Darin Tyll | 9/16/21 | 11:08 |

11) Sampler (print name): Amber Bartlett, Ezra Stobbe, Karyn Theirren, Charles Lambert Date: 9/15/21

**Additional Notes** Field filtered samples have "-F" at the end of the sample ID on the bottle. Unfiltered samples have "-U" at the end of the sample ID on the bottle. Class GA Standards

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.2, 3.7, 2.9

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

1091738 0448

# Hampton-Clarke, Inc. (WBE/DBE/SBE)

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## CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 1091738

Page 1 of 1

**3) Reporting Requirements (Please Circle)**

| Turnaround | Report Type | Electronic Data Deliv. |
|---|---|---|
| When Available: | Summary | NJ Hazsite |
| 1 Business Day (100%) * | Results + QC (Waste) | Excel Reg. NJ / NY / PA |
| 2 Business Days (75%) * | Reduced: | EnviroData |
| 3 Business Days (50%) * | [ ] NJ [ ] NY | EQuIS: |
| 4 Business Days (35%) * | [ ] PA [ ] Other | [ ] 4-File [ ] EZ |
| 5 Business Days (25%) | NJ Full / NY ASP CatB | [X] NYDEC |
| 8 Business Days (Stand.) | NY ASP CatA | [ ] Region 2 or 5 |
| Other: | | Other: |

* Expedited TAT Not Always Available. Please Check with Lab.

**Customer Information**

1a) Customer: TRC Companies
Address: 1430 Broadway, 10th Floor
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1c) Send Invoice to: wlindemuth@trccompanies.com
1d) Send Report to: abartlett & wlindemuth@trccompanies.com

**Project Information**

2a) Project: Brookfield Park
2b) Project Mgr: Wes Lindemuth
2c) Project Location (City/State): Staten Island New York
2d) Quote/PO # (If Applicable): 152602

FOR LAB USE ONLY ↓

Batch # AD26083

===> Check If Contingent ===>

**Matrix Codes**
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

**7) Analysis** (specify methods & parameter lists)

<=== Check If Contingent <===

| Lab Sample # | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | 6) Sample Time | Sample Type: Composite (C) | Sample Type: Grab (G) | VOCs | SVOCs | PCBs/Pesticides | Metals (filtered) | Metals (unfiltered) | Hardness | Cyanide | alkalinity, ammonia, bromide, chloride, nitrate, sulfate | TDS | TOC | 8) # of Bottles: None | MeOH | En Core | NaOH | HCl | H2SO4 | HNO3 | Other: | 9) Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -035 | LTMW-18C-20210916 | GW | 9/16/21 | 855 | | X | X | X | X | | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 1 | | |
| -037/-036 | LTMW-2-20210916 | GW | 9/16/21 | 930 | | X | X | X | X | X | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 2 | | see additional note |
| -039/-038 | LTMW-18LG-20210916 | GW | 9/16/21 | 955 | | X | X | X | X | X | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 2 | | see additional note |
| -041/-040 | LTMW-1-20210916 | GW | 9/16/21 | 1110 | | X | X | X | X | X | X | X | X | X | X | X | X | 24 | | | 3 | 9 | 6 | 6 | | " " MS/MSD samples |
| -047/-046 | LTMW-23-20210916 | GW | 9/16/21 | 1140 | | X | X | X | X | X | X | X | X | X | X | X | X | 8 | | | 1 | 3 | 2 | 2 | | see additional note |
| -048 | LTMW-19-20210916 | GW | 9/16/21 | 1245 | | X | X | X | X | | X | X | X | X | X | X | X | 24 | | | 3 | 9 | 6 | 3 | | MS/MSD samples |
| -049/050 | LTMW-19-20210916 MS/MSD | | | | | | X | X | X | | X | X | X | X | V | X | X | | | | | | | | | |
| -043/-042 | LTMW-1-20210916 MS | | | | | | | | | X | | | | | | | | | | | | | | | | |
| 045/-044 | LTMW-1-20210916 MSD | | | | | | | | | X | | | | | | | | | | | | | | | | |
| e0-51 | TB-20210916 | | | | | | | | | | | | | | | | | | | | | | | | | |

| 10) Relinquished by: | Accepted by: | Date | Time |
|---|---|---|---|
| Amber Bartlett | John Burnell | 9/17/21 | 10:05 |
| John Burnell | | 9/17/21 | 16:03 |

11) Sampler (print name): Amber Bartlett, Ezra Stobbe, Karyn Treiber Date: 9/16/21

**Additional Notes** Field filtered samples have "-F" at the end of the sample ID on the bottle. Unfiltered samples have "-U" at the end of the sample ID on the bottle. Class GA Standards.

**Comments, Notes, Special Requirements, HAZARDS**

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Cooler Temperature: 2-7, 3.0, 2.8, 3.9

Please note NUMBERED items. If not completed your analytical work may be delayed. 3/
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

# PROJECT MODIFICATIONS

**Client:** TRC-NYC **HC Project #:** 1091738
**Project:** Brookfield Landfill

---

david192.168.1.68
10/8/2021 9:38:20 AM

---

Could we please also update the sample ID "TB-20210916" to "TB-04-20210916" on the final report?

Thank you,
Amber Bartlett
Environmental Scientist

# CONDITION UPON RECEIPT

Batch Number AD26083 Entered By: children

Date Entered 9/17/2021 5:15:00 PM

| | | |
|---|---|---|
| 1 | Yes | Is there a corresponding COC included with the samples? |
| 2 | Yes | Are the samples in a container such as a cooler or Ice chest? |
| 3 | Yes | Are the COC seals intact? |
| 4 | T-461 | <--- Thermometer ID. Please specify the Temperature inside the container (in degC).<br>3.4,3.7,2.2,2.9 9/14/21 2.3,3.9,4.2 9/15/21 2.2,3.7,2.9 9/16 2.7,3.0,2.8,3.9,3.1 9/17/21 |
| 5 | Yes | Are the samples refrigerated (where required)/have they arrived on ice? |
| 6 | Yes | Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples: |
| 7 | Yes | Are all of the sample bottles intact? If no, specify sample numbers broken/leaking |
| 8 | Yes | Are all of the sample labels or numbers legible? If no specify: |
| 9 | No | Do the contents match the COC? If no, specify<br>LTMW-18UG-20210916,DUP-0220210914 Filtered metals,LTMW-5b-20210914 T-METALS not received |
| 10 | No | Is there enough sample sent for the analyses listed on the COC? If no, specify:<br>LTMW-13-20210913 only 2-40ml received |
| 11 | No | Are samples preserved correctly?<br>LTMW-19-20210916 VOA PH>2 |
| 12 | Yes | Was temperature blank present (Place comment below if not)? If not was temperature of samples verified? |
| 13 | NA | Other comments ...Specify (TB date, sample matrix, any missing info, etc.) |
| 14 | NA | Corrective actions (Specify item number and corrective action taken). |
| 15 | NA | Were any samples for ortho-phosphate or dissolved ferrous iron field filtered? |

# PRESERVATION DOCUMENT

Batch Number AD26083 Entered By: children
Date Entered 9/17/2021 5:56:00 PM

| Lab# | Container | Container/Vial Check | Parameter | Preservative | Preservative Lot# | PH | pH Lot# |
|---|---|---|---|---|---|---|---|
| AD26083-001 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-001 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-001 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-001 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-001 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-001 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-002 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-002 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-002 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-002 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-002 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-002 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-003 | 40ML | G | VO | HCL | 253057 | NA | HC155968 |
| AD26083-003 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-003 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-003 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-003 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-004 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-005 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-005 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-005 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-005 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-005 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-006 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-006 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-006 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-006 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-006 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-007 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-008 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-008 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-008 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-008 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-008 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-009 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-009 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-009 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-009 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-009 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-010 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-011 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-011 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-011 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-011 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-011 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-012 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-012 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-012 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-012 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-012 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-013 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-014 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-014 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-014 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-014 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |

# PRESERVATION DOCUMENT

Batch Number AD26083 Entered By: children

Date Entered 9/17/2021 6:12:00 PM

| Lab#: | Container | Container/Vial Check | Parameter | Preservative | Preservative Lot# | PH | pH Lot# |
|---|---|---|---|---|---|---|---|
| AD26083-014 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-015 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-016 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-016 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-016 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-016 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-016 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-017 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-018 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-018 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-018 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-018 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-018 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-019 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-019 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-019 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-019 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-019 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-020 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-021 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-021 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-021 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-021 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-021 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-022 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-023 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-023 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-023 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-023 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-023 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-024 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-025 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-026 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-026 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-026 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-026 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-026 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-027 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-027 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-027 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-027 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-027 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-028 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-028 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-028 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-028 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-028 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-029 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-030 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-030 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-030 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-030 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-030 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-031 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-032 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |

# PRESERVATION DOCUMENT

Batch Number AD26083 Entered By: children

Date Entered 9/17/2021 5:58:00 PM

| Lab# | Container | Container/Vial Check | Parameter | Preservative | Preservative Lot# | PH | pH Lot# |
|---|---|---|---|---|---|---|---|
| AD26083-032 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-032 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-032 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-032 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-033 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-033 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-033 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-033 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-033 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-034 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-035 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-035 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-035 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-035 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-035 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-036 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-036 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-036 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-036 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-036 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-037 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-038 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-038 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-038 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-038 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-038 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-039 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-040 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-040 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-040 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-040 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-040 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-041 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-042 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-042 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-042 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-042 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-042 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-043 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-044 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-044 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-044 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-044 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-044 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-045 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-046 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-046 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-046 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-046 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-046 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-047 | 500ML | P | F-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-048 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-048 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-048 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-048 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |

# PRESERVATION DOCUMENT

Batch Number AD26083 Entered By: children

Date Entered 9/17/2021 6:13:00 PM

| Lab# | Container | Container/Vial Check | Parameter | Preservative | Preservative Lot# | PH | pH Lot# |
|---|---|---|---|---|---|---|---|
| AD26083-048 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-049 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-049 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-049 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-049 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-049 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-050 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |
| AD26083-050 | 120ML | G | TOC | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-050 | 120ML | G | CN | NaOH | V-354765 | 14 | HC155968 |
| AD26083-050 | 250ML | P | AMMONIA | H2SO4 | 3120011 | 1 | HC155968 |
| AD26083-050 | 500ML | P | T-METALS | HNO3 | 255830 | 1 | HC155968 |
| AD26083-051 | 40ML | G | VO | HCL | 253057 | 1 | HC155968 |

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD26083-001 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-001 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-001 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-001 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-001 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |
| AD26083-001 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-001 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-001 | 09/18/21 06:20 | JKR | 7 | A | bna |
| AD26083-001 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-001 | 09/19/21 07:25 | LV | 8 | A | p/p |
| AD26083-001 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-001 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-001 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-001 | 09/23/21 08:34 | PC | 11 | A | tdwi-hg |
| AD26083-001 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-001 | 09/22/21 11:27 | BCT | 12 | A | NH3N |
| AD26083-001 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-001 | 09/20/21 12:38 | LL | 13 | A | CN |
| AD26083-001 | 09/20/21 12:39 | R12 | 13 | A | NONE |
| AD26083-001 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-001 | 09/21/21 10:40 | JW | 14 | A | toc |
| AD26083-001 | 09/21/21 17:42 | R12 | 14 | A | NONE |
| AD26083-001 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-002 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-002 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-002 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-002 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-002 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-002 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |
| AD26083-002 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-002 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-002 | 09/18/21 06:20 | JKR | 7 | A | bna |
| AD26083-002 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-002 | 09/19/21 07:25 | LV | 8 | A | p/p |
| AD26083-002 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-002 | 09/20/21 16:14 | JN | 9 | A | P/P |
| AD26083-002 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-002 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-002 | 09/23/21 08:34 | PC | 11 | A | tdwi-hg |
| AD26083-002 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-002 | 09/22/21 11:27 | BCT | 12 | A | NH3N |
| AD26083-002 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-002 | 09/21/21 10:40 | JW | 13 | A | toc |
| AD26083-002 | 09/21/21 17:42 | R12 | 13 | A | NONE |
| AD26083-002 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-002 | 09/20/21 12:38 | LL | 14 | A | CN |
| AD26083-002 | 09/20/21 12:39 | R12 | 14 | A | NONE |
| AD26083-002 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-003 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-003 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-003 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-003 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-003 | 09/20/21 18:42 | WP | 2 | A | VOA |
| AD26083-003 | 09/21/21 16:38 | BCT | 3 | A | ALKINITY |
| AD26083-003 | 09/21/21 16:40 | BCT | 3 | A | R1 |
| AD26083-003 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-003 | 09/18/21 06:20 | JKR | 7 | A | bna |
| AD26083-003 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-003 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-003 | 09/19/21 07:25 | LV | 9 | A | p/p |
| AD26083-003 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-003 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-003 | 09/24/21 12:31 | ANS | 11 | M | TDWI/Hg |
| AD26083-003 | 09/24/21 12:46 | R12 | 11 | A | NONE |
| AD26083-003 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-003 | 09/22/21 11:27 | BCT | 12 | A | NH3N |
| AD26083-003 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-003 | 09/20/21 12:38 | LL | 13 | A | CN |
| AD26083-003 | 09/20/21 12:39 | R12 | 13 | A | NONE |
| AD26083-003 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-003 | 09/21/21 10:40 | JW | 14 | A | toc |
| AD26083-003 | 09/21/21 17:42 | R12 | 14 | A | NONE |
| AD26083-003 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-004 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-004 | 09/17/21 17:15 | CHILD | 0 | M | Login |

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD26083-004 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-005 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-005 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-005 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-005 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-005 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-005 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |
| AD26083-005 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-005 | 09/21/21 16:38 | BCT | 5 | A | ALKINITY |
| AD26083-005 | 09/21/21 16:40 | BCT | 5 | A | R1 |
| AD26083-005 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-005 | 09/18/21 06:20 | JKR | 7 | A | bna |
| AD26083-005 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-005 | 09/19/21 07:25 | LV | 8 | A | p/p |
| AD26083-005 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-005 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-005 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-005 | 09/23/21 08:34 | PC | 11 | A | tdwi-hg |
| AD26083-005 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-005 | 09/22/21 11:27 | BCT | 12 | A | NH3N |
| AD26083-005 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-005 | 09/20/21 12:38 | LL | 13 | A | CN |
| AD26083-005 | 09/20/21 12:39 | R12 | 13 | A | NONE |
| AD26083-005 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-005 | 09/21/21 10:40 | JW | 14 | A | toc |
| AD26083-005 | 09/21/21 17:42 | R12 | 14 | A | NONE |
| AD26083-005 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-006 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-006 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-006 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-006 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-006 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-006 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |
| AD26083-006 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-006 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-006 | 09/18/21 06:20 | JKR | 7 | A | bna |
| AD26083-006 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-006 | 09/19/21 07:25 | LV | 8 | A | p/p |
| AD26083-006 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-006 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-006 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-006 | 09/24/21 12:31 | ANS | 11 | M | TDWI/Hg |
| AD26083-006 | 09/24/21 12:46 | R12 | 11 | A | NONE |
| AD26083-006 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-006 | 09/22/21 11:27 | BCT | 12 | A | NH3N |
| AD26083-006 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-006 | 09/20/21 12:38 | LL | 13 | A | CN |
| AD26083-006 | 09/20/21 12:39 | R12 | 13 | A | NONE |
| AD26083-006 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-006 | 09/21/21 10:40 | JW | 14 | A | toc |
| AD26083-006 | 09/21/21 17:42 | R12 | 14 | A | NONE |
| AD26083-006 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-007 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-007 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-007 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-008 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-008 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-008 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-008 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-008 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-008 | 09/21/21 16:38 | BCT | 5 | A | ALKINITY |
| AD26083-008 | 09/21/21 16:40 | BCT | 5 | A | R1 |
| AD26083-008 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-008 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-008 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-008 | 09/19/21 07:25 | LV | 9 | A | p/p |
| AD26083-008 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-008 | 09/18/21 06:20 | JKR | 10 | A | bna |
| AD26083-008 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-008 | 09/22/21 11:27 | BCT | 11 | A | NH3N |
| AD26083-008 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-008 | 09/20/21 12:38 | LL | 12 | A | CN |
| AD26083-008 | 09/20/21 12:39 | R12 | 12 | A | NONE |
| AD26083-008 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-008 | 09/20/21 12:39 | R12 | 13 | A | NONE |

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD26083-008 | 09/23/21 11:11 | LL | 13 | A | TOC |
| AD26083-008 | 09/23/21 17:43 | R12 | 13 | A | NONE |
| AD26083-008 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-008 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-008 | 09/23/21 08:34 | PC | 15 | A | tdwi-hg |
| AD26083-009 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-009 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-009 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-009 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-009 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-009 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |
| AD26083-009 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-009 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-009 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-009 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-009 | 09/19/21 07:25 | LV | 9 | A | p/p |
| AD26083-009 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-009 | 09/18/21 06:20 | JKR | 10 | A | bna |
| AD26083-009 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-009 | 09/22/21 11:27 | BCT | 11 | A | NH3N |
| AD26083-009 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-009 | 09/20/21 12:38 | LL | 12 | A | CN |
| AD26083-009 | 09/20/21 12:39 | R12 | 12 | A | NONE |
| AD26083-009 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-009 | 09/21/21 10:40 | JW | 13 | A | toc |
| AD26083-009 | 09/21/21 17:42 | R12 | 13 | A | NONE |
| AD26083-009 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-009 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-009 | 09/23/21 08:34 | PC | 15 | A | tdwi-hg |
| AD26083-010 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-010 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-010 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-010 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-010 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-010 | 09/23/21 16:35 | WP | 3 | A | VOA |
| AD26083-011 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-011 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-011 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-011 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-011 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-011 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |
| AD26083-011 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-011 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-011 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-011 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-011 | 09/19/21 07:25 | LV | 9 | A | p/p |
| AD26083-011 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-011 | 09/18/21 06:20 | JKR | 10 | A | bna |
| AD26083-011 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-011 | 09/22/21 11:27 | BCT | 11 | A | NH3N |
| AD26083-011 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-011 | 09/20/21 12:38 | LL | 12 | A | CN |
| AD26083-011 | 09/20/21 12:39 | R12 | 12 | A | NONE |
| AD26083-011 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-011 | 09/21/21 10:40 | JW | 13 | A | toc |
| AD26083-011 | 09/21/21 17:42 | R12 | 13 | A | NONE |
| AD26083-011 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-011 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-011 | 09/23/21 08:34 | PC | 15 | A | tdwi-hg |
| AD26083-012 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-012 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-012 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-012 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-012 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |
| AD26083-012 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-012 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-012 | 09/18/21 06:20 | JKR | 7 | A | bna |
| AD26083-012 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-012 | 09/19/21 07:25 | LV | 8 | A | p/p |
| AD26083-012 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-012 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-012 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-012 | 09/24/21 12:31 | ANS | 11 | M | TDWI/Hg |
| AD26083-012 | 09/24/21 12:46 | R12 | 11 | A | NONE |
| AD26083-012 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-012 | 09/22/21 11:27 | BCT | 12 | A | NH3N |
| AD26083-012 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-012 | 09/20/21 12:38 | LL | 13 | A | CN |
| AD26083-012 | 09/20/21 12:39 | R12 | 13 | A | NONE |
| AD26083-012 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-012 | 09/21/21 10:40 | JW | 14 | A | toc |
| AD26083-012 | 09/21/21 17:42 | R12 | 14 | A | NONE |
| AD26083-012 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-013 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-013 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-013 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-014 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-014 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-014 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-014 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-014 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-014 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |
| AD26083-014 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-014 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-014 | 09/18/21 06:20 | JKR | 7 | A | bna |
| AD26083-014 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-014 | 09/19/21 07:25 | LV | 8 | A | p/p |
| AD26083-014 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-014 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-014 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-014 | 09/24/21 12:31 | ANS | 11 | M | TDWI/Hg |
| AD26083-014 | 09/24/21 12:46 | R12 | 11 | A | NONE |
| AD26083-014 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-014 | 09/22/21 11:27 | BCT | 12 | A | NH3N |
| AD26083-014 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-014 | 09/21/21 10:40 | JW | 13 | A | toc |
| AD26083-014 | 09/21/21 17:42 | R12 | 13 | A | NONE |
| AD26083-014 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-014 | 09/20/21 12:38 | LL | 14 | A | CN |
| AD26083-014 | 09/20/21 12:39 | R12 | 14 | A | NONE |
| AD26083-014 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-015 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-015 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-015 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-016 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-016 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-016 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-016 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-016 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-016 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |
| AD26083-016 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-016 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-016 | 09/18/21 06:20 | JKR | 7 | A | bna |
| AD26083-016 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-016 | 09/19/21 07:25 | LV | 8 | A | p/p |
| AD26083-016 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-016 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-016 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-016 | 09/24/21 12:31 | ANS | 11 | M | TDWI/Hg |
| AD26083-016 | 09/24/21 12:46 | R12 | 11 | A | NONE |
| AD26083-016 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-016 | 09/22/21 11:27 | BCT | 12 | A | NH3N |
| AD26083-016 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-016 | 09/20/21 12:38 | LL | 13 | A | CN |
| AD26083-016 | 09/20/21 12:39 | R12 | 13 | A | NONE |
| AD26083-016 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-016 | 09/21/21 10:40 | JW | 14 | A | toc |
| AD26083-016 | 09/21/21 17:42 | R12 | 14 | A | NONE |
| AD26083-016 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-017 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-017 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-017 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-018 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-018 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-018 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-018 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-018 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-018 | 09/21/21 16:38 | BCT | 6 | A | ALKINITY |
| AD26083-018 | 09/21/21 16:40 | BCT | 6 | A | R1 |
| AD26083-018 | 09/17/21 19:22 | R12 | 7 | A | NONE |

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD26083-018 | 09/18/21 06:20 | JKR | 7 | A | bna |
| AD26083-018 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-018 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-018 | 09/19/21 07:25 | LV | 9 | A | p/p |
| AD26083-018 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-018 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-018 | 09/23/21 08:34 | PC | 11 | A | tdwi-hg |
| AD26083-018 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-018 | 09/22/21 11:27 | BCT | 12 | A | NH3N |
| AD26083-018 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-018 | 09/20/21 12:38 | LL | 13 | A | CN |
| AD26083-018 | 09/20/21 12:39 | R12 | 13 | A | NONE |
| AD26083-018 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-018 | 09/21/21 10:40 | JW | 14 | A | toc |
| AD26083-018 | 09/21/21 17:42 | R12 | 14 | A | NONE |
| AD26083-018 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-019 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-019 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-019 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-019 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-019 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-019 | 09/21/21 16:38 | BCT | 6 | A | ALKINITY |
| AD26083-019 | 09/21/21 16:40 | BCT | 6 | A | R1 |
| AD26083-019 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-019 | 09/20/21 23:34 | JN | 7 | A | P/P |
| AD26083-019 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-019 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-019 | 09/22/21 14:22 | LV | 9 | A | BN |
| AD26083-019 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-019 | 09/21/21 10:08 | LV | 10 | A | BN/BNA |
| AD26083-019 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-019 | 09/24/21 12:31 | ANS | 11 | M | TDWI/Hg |
| AD26083-019 | 09/24/21 12:46 | R12 | 11 | A | NONE |
| AD26083-019 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-019 | 09/22/21 11:27 | BCT | 12 | A | NH3N |
| AD26083-019 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-019 | 09/21/21 10:40 | JW | 13 | A | toc |
| AD26083-019 | 09/21/21 17:42 | R12 | 13 | A | NONE |
| AD26083-019 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-019 | 09/20/21 12:36 | LL | 14 | A | CN |
| AD26083-019 | 09/20/21 12:39 | R12 | 14 | A | NONE |
| AD26083-019 | 09/27/21 10:04 | LL | 14 | A | CN-W |
| AD26083-019 | 09/27/21 11:26 | R12 | 14 | A | NONE |
| AD26083-019 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-020 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-020 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-020 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-021 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-021 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-021 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-021 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-021 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-021 | 09/21/21 16:38 | BCT | 6 | A | ALKINITY |
| AD26083-021 | 09/21/21 16:40 | BCT | 6 | A | R1 |
| AD26083-021 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-021 | 09/18/21 06:20 | JKR | 7 | A | bna |
| AD26083-021 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-021 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-021 | 09/19/21 07:25 | LV | 9 | A | p/p |
| AD26083-021 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-021 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-021 | 09/22/21 11:27 | BCT | 11 | A | NH3N |
| AD26083-021 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-021 | 09/20/21 12:39 | R12 | 12 | A | NONE |
| AD26083-021 | 09/23/21 11:11 | LL | 12 | A | TOC |
| AD26083-021 | 09/23/21 17:43 | R12 | 12 | A | NONE |
| AD26083-021 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-021 | 09/20/21 12:38 | LL | 13 | A | CN |
| AD26083-021 | 09/20/21 12:39 | R12 | 13 | A | NONE |
| AD26083-021 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-021 | 09/24/21 12:31 | ANS | 14 | M | TDWI/Hg |
| AD26083-021 | 09/24/21 12:46 | R12 | 14 | A | NONE |
| AD26083-021 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-022 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-022 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-022 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-023 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-023 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-023 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-023 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-023 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-023 | 09/21/21 16:38 | BCT | 6 | A | ALKINITY |
| AD26083-023 | 09/21/21 16:40 | BCT | 6 | A | R1 |
| AD26083-023 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-023 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-023 | 09/18/21 06:20 | JKR | 8 | A | bna |
| AD26083-023 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-023 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-023 | 09/19/21 07:25 | LV | 10 | A | p/p |
| AD26083-023 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-023 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-023 | 09/20/21 12:38 | LL | 12 | A | CN |
| AD26083-023 | 09/20/21 12:39 | R12 | 12 | A | NONE |
| AD26083-023 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-023 | 09/22/21 11:27 | BCT | 13 | A | NH3N |
| AD26083-023 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-023 | 09/23/21 11:11 | LL | 14 | A | TOC |
| AD26083-023 | 09/23/21 17:43 | R12 | 14 | A | NONE |
| AD26083-023 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-023 | 09/24/21 12:31 | ANS | 15 | M | TDWI/Hg |
| AD26083-023 | 09/24/21 12:46 | R12 | 15 | A | NONE |
| AD26083-024 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-024 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-024 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-025 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-025 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-025 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-025 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-025 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-026 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-026 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-026 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-026 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-026 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-026 | 09/21/21 16:38 | BCT | 6 | A | ALKINITY |
| AD26083-026 | 09/21/21 16:40 | BCT | 6 | A | R1 |
| AD26083-026 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-026 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-026 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-026 | 09/19/21 07:25 | LV | 9 | A | p/p |
| AD26083-026 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-026 | 09/18/21 06:20 | JKR | 10 | A | bna |
| AD26083-026 | 09/20/21 12:38 | LL | 11 | A | CN |
| AD26083-026 | 09/20/21 12:39 | R12 | 11 | A | NONE |
| AD26083-026 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-026 | 09/23/21 11:11 | LL | 12 | A | TOC |
| AD26083-026 | 09/23/21 17:43 | R12 | 12 | A | NONE |
| AD26083-026 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-026 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-026 | 09/23/21 08:34 | PC | 14 | A | tdwi-hg |
| AD26083-026 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-026 | 09/24/21 11:10 | BCT | 15 | A | NH3N |
| AD26083-027 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-027 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-027 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-027 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-027 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-027 | 09/21/21 16:38 | BCT | 6 | A | ALKINITY |
| AD26083-027 | 09/21/21 16:40 | BCT | 6 | A | R1 |
| AD26083-027 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-027 | 09/19/21 07:25 | LV | 7 | A | p/p |
| AD26083-027 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-027 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-027 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-027 | 09/18/21 06:20 | JKR | 10 | A | bna |
| AD26083-027 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-027 | 09/23/21 11:11 | LL | 11 | A | TOC |
| AD26083-027 | 09/23/21 17:43 | R12 | 11 | A | NONE |
| AD26083-027 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-027 | 09/20/21 12:38 | LL | 12 | A | CN |

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD26083-027 | 09/20/21 12:39 | R12 | 12 | A | NONE |
| AD26083-027 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-027 | 09/24/21 11:10 | BCT | 13 | A | NH3N |
| AD26083-027 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-027 | 09/23/21 08:34 | PC | 14 | A | tdwi-hg |
| AD26083-027 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-028 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-028 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-028 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-028 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-028 | 09/21/21 16:38 | BCT | 5 | A | ALKINITY |
| AD26083-028 | 09/21/21 16:40 | BCT | 5 | A | R1 |
| AD26083-028 | 09/21/21 16:38 | BCT | 6 | A | ALKINITY |
| AD26083-028 | 09/21/21 16:40 | BCT | 6 | A | R1 |
| AD26083-028 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-028 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-028 | 09/19/21 07:25 | LV | 8 | A | p/p |
| AD26083-028 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-028 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-028 | 09/18/21 06:20 | JKR | 10 | A | bna |
| AD26083-028 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-028 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-028 | 09/24/21 12:31 | ANS | 12 | M | TDWI/Hg |
| AD26083-028 | 09/24/21 12:46 | R12 | 12 | A | NONE |
| AD26083-028 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-028 | 09/24/21 11:10 | BCT | 13 | A | NH3N |
| AD26083-028 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-028 | 09/23/21 11:11 | LL | 14 | A | TOC |
| AD26083-028 | 09/23/21 17:43 | R12 | 14 | A | NONE |
| AD26083-028 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-028 | 09/20/21 12:38 | LL | 15 | A | CN |
| AD26083-028 | 09/20/21 12:39 | R12 | 15 | A | NONE |
| AD26083-029 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-029 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-029 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-030 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-030 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-030 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-030 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-030 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-030 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |
| AD26083-030 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-030 | 09/21/21 16:38 | BCT | 5 | A | ALKINITY |
| AD26083-030 | 09/21/21 16:40 | BCT | 5 | A | R1 |
| AD26083-030 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-030 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-030 | 09/20/21 16:14 | JN | 8 | A | P/P |
| AD26083-030 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-030 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-030 | 09/18/21 06:20 | JKR | 10 | A | bna |
| AD26083-030 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-030 | 09/24/21 11:10 | BCT | 11 | A | NH3N |
| AD26083-030 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-030 | 09/20/21 12:38 | LL | 12 | A | CN |
| AD26083-030 | 09/20/21 12:39 | R12 | 12 | A | NONE |
| AD26083-030 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-030 | 09/23/21 11:11 | LL | 13 | A | TOC |
| AD26083-030 | 09/23/21 17:43 | R12 | 13 | A | NONE |
| AD26083-030 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-030 | 09/24/21 12:31 | ANS | 14 | M | TDWI/Hg |
| AD26083-030 | 09/24/21 12:46 | R12 | 14 | A | NONE |
| AD26083-030 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-031 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-031 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-031 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-032 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-032 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-032 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-032 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-032 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-032 | 09/21/21 16:38 | BCT | 6 | A | ALKINITY |
| AD26083-032 | 09/21/21 16:40 | BCT | 6 | A | R1 |
| AD26083-032 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-032 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-032 | 09/17/21 19:22 | R12 | 9 | A | NONE |

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD26083-032 | 09/20/21 16:14 | JN | 9 | A | P/P |
| AD26083-032 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-032 | 09/18/21 06:41 | DYR | 10 | A | bn |
| AD26083-032 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-032 | 09/20/21 12:38 | LL | 11 | A | CN |
| AD26083-032 | 09/20/21 12:39 | R12 | 11 | A | NONE |
| AD26083-032 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-032 | 09/23/21 11:11 | LL | 12 | A | TOC |
| AD26083-032 | 09/23/21 17:43 | R12 | 12 | A | NONE |
| AD26083-032 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-032 | 09/23/21 08:34 | PC | 13 | A | tdwi-hg |
| AD26083-032 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-032 | 09/24/21 11:10 | BCT | 14 | A | NH3N |
| AD26083-032 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-033 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-033 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-033 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-033 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-033 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-033 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |
| AD26083-033 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-033 | 09/21/21 16:38 | BCT | 5 | A | ALKINITY |
| AD26083-033 | 09/21/21 16:40 | BCT | 5 | A | R1 |
| AD26083-033 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-033 | 09/18/21 06:41 | DYR | 7 | A | bn |
| AD26083-033 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-033 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-033 | 09/20/21 16:14 | JN | 9 | A | P/P |
| AD26083-033 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-033 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-033 | 09/23/21 08:34 | PC | 11 | A | tdwi-hg |
| AD26083-033 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-033 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-033 | 09/24/21 11:10 | BCT | 13 | A | NH3N |
| AD26083-033 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-033 | 09/20/21 12:38 | LL | 14 | A | CN |
| AD26083-033 | 09/20/21 12:39 | R12 | 14 | A | NONE |
| AD26083-033 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-033 | 09/23/21 11:11 | LL | 15 | A | TOC |
| AD26083-033 | 09/23/21 17:43 | R12 | 15 | A | NONE |
| AD26083-034 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-034 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-034 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-034 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-034 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-035 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-035 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-035 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-035 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-035 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-035 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |
| AD26083-035 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-035 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-035 | 09/20/21 16:14 | JN | 7 | A | P/P |
| AD26083-035 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-035 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-035 | 09/18/21 06:41 | DYR | 9 | A | bn |
| AD26083-035 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-035 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-035 | 09/23/21 08:34 | PC | 11 | A | tdwi-hg |
| AD26083-035 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-035 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-035 | 09/24/21 11:10 | BCT | 13 | A | NH3N |
| AD26083-035 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-035 | 09/20/21 12:38 | LL | 14 | A | CN |
| AD26083-035 | 09/20/21 12:39 | R12 | 14 | A | NONE |
| AD26083-035 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-035 | 09/23/21 11:11 | LL | 15 | A | TOC |
| AD26083-035 | 09/23/21 17:43 | R12 | 15 | A | NONE |
| AD26083-036 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-036 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-036 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-036 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-036 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-036 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD26083-036 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-036 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-036 | 09/18/21 06:41 | DYR | 7 | A | bn |
| AD26083-036 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-036 | 09/20/21 16:14 | JN | 8 | A | P/P |
| AD26083-036 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-036 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-036 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-036 | 09/24/21 12:31 | ANS | 11 | M | TDWI/Hg |
| AD26083-036 | 09/24/21 12:46 | R12 | 11 | A | NONE |
| AD26083-036 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-036 | 09/21/21 15:46 | BCT | 12 | M | TDS |
| AD26083-036 | 09/22/21 11:20 | BCT | 12 | A | TDS |
| AD26083-036 | 09/22/21 13:24 | R12 | 12 | A | NONE |
| AD26083-036 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-036 | 09/24/21 11:10 | BCT | 13 | A | NH3N |
| AD26083-036 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-036 | 09/20/21 12:38 | LL | 14 | A | CN |
| AD26083-036 | 09/20/21 12:39 | R12 | 14 | A | NONE |
| AD26083-036 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-036 | 09/23/21 11:11 | LL | 15 | A | TOC |
| AD26083-036 | 09/23/21 17:43 | R12 | 15 | A | NONE |
| AD26083-037 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-037 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-037 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-038 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-038 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-038 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-038 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-038 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-038 | 09/21/21 16:38 | BCT | 5 | A | ALKINITY |
| AD26083-038 | 09/21/21 16:40 | BCT | 5 | A | R1 |
| AD26083-038 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-038 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-038 | 09/23/21 12:36 | ANS | 8 | A | LAB FILTER - MET |
| AD26083-038 | 09/23/21 12:36 | R12 | 8 | A | NONE |
| AD26083-038 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-038 | 09/18/21 06:41 | DYR | 9 | A | bn |
| AD26083-038 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-038 | 09/20/21 16:14 | JN | 10 | A | P/P |
| AD26083-038 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-038 | 09/24/21 12:31 | ANS | 11 | M | TDWI/Hg |
| AD26083-038 | 09/24/21 12:46 | R12 | 11 | A | NONE |
| AD26083-038 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-038 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-038 | 09/24/21 11:10 | BCT | 13 | A | NH3N |
| AD26083-038 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-038 | 09/20/21 12:38 | LL | 14 | A | CN |
| AD26083-038 | 09/20/21 12:39 | R12 | 14 | A | NONE |
| AD26083-038 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-038 | 09/23/21 11:11 | LL | 15 | A | TOC |
| AD26083-038 | 09/23/21 17:43 | R12 | 15 | A | NONE |
| AD26083-039 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-039 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-039 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-039 | 09/23/21 12:36 | R12 | 2 | A | NONE |
| AD26083-039 | 09/24/21 12:31 | ANS | 2 | M | TDWI/Hg |
| AD26083-039 | 09/24/21 12:46 | R12 | 2 | A | NONE |
| AD26083-039 | 09/26/21 08:30 | PC | 2 | A | tdwi-hg |
| AD26083-039 | 09/26/21 09:10 | PC | 2 | A | r12 |
| AD26083-040 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-040 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-040 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-040 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-040 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-040 | 09/21/21 16:38 | BCT | 5 | A | ALKINITY |
| AD26083-040 | 09/21/21 16:40 | BCT | 5 | A | R1 |
| AD26083-040 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-040 | 09/20/21 16:14 | JN | 7 | A | P/P |
| AD26083-040 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-040 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-040 | 09/18/21 06:20 | JKR | 9 | A | bna |
| AD26083-040 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-040 | 09/19/21 07:25 | LV | 10 | A | p/p |
| AD26083-040 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-040 | 09/24/21 12:31 | ANS | 11 | M | TDWI/Hg |
| AD26083-040 | 09/24/21 12:46 | R12 | 11 | A | NONE |
| AD26083-040 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-040 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-040 | 09/22/21 11:27 | BCT | 13 | A | NH3N |
| AD26083-040 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-040 | 09/20/21 12:38 | LL | 14 | A | CN |
| AD26083-040 | 09/20/21 12:39 | R12 | 14 | A | NONE |
| AD26083-040 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-040 | 09/23/21 11:11 | LL | 15 | A | TOC |
| AD26083-040 | 09/23/21 17:43 | R12 | 15 | A | NONE |
| AD26083-040 | 09/24/21 11:52 | JW | 15 | A | TOC |
| AD26083-040 | 09/24/21 14:18 | R12 | 15 | A | NONE |
| AD26083-041 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-041 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-041 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-042 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-042 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-042 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-042 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-042 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-042 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-042 | 09/19/21 07:25 | LV | 7 | A | p/p |
| AD26083-042 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-042 | 09/19/21 07:25 | LV | 8 | A | p/p |
| AD26083-042 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-042 | 09/18/21 06:20 | JKR | 9 | A | bna |
| AD26083-042 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-042 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-042 | 09/24/21 12:31 | ANS | 11 | M | TDWI/Hg |
| AD26083-042 | 09/24/21 12:46 | R12 | 11 | A | NONE |
| AD26083-042 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-042 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-042 | 09/22/21 11:27 | BCT | 13 | A | NH3N |
| AD26083-042 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-042 | 09/20/21 12:38 | LL | 14 | A | CN |
| AD26083-042 | 09/20/21 12:39 | R12 | 14 | A | NONE |
| AD26083-042 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-042 | 09/23/21 11:11 | LL | 15 | A | TOC |
| AD26083-042 | 09/23/21 17:43 | R12 | 15 | A | NONE |
| AD26083-042 | 09/24/21 11:52 | JW | 15 | A | TOC |
| AD26083-042 | 09/24/21 14:18 | R12 | 15 | A | NONE |
| AD26083-043 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-043 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-043 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-044 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-044 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-044 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-044 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-044 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-044 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-044 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-044 | 09/18/21 06:20 | JKR | 8 | A | bna |
| AD26083-044 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-044 | 09/19/21 07:25 | LV | 9 | A | p/p |
| AD26083-044 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-044 | 09/19/21 07:25 | LV | 10 | A | p/p |
| AD26083-044 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-044 | 09/24/21 12:31 | ANS | 11 | M | TDWI/Hg |
| AD26083-044 | 09/24/21 12:46 | R12 | 11 | A | NONE |
| AD26083-044 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-044 | 09/22/21 11:27 | BCT | 13 | A | NH3N |
| AD26083-044 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-044 | 09/20/21 12:38 | LL | 14 | A | CN |
| AD26083-044 | 09/20/21 12:39 | R12 | 14 | A | NONE |
| AD26083-044 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-044 | 09/23/21 11:11 | LL | 15 | A | TOC |
| AD26083-044 | 09/23/21 17:43 | R12 | 15 | A | NONE |
| AD26083-044 | 09/24/21 11:52 | JW | 15 | A | TOC |
| AD26083-044 | 09/24/21 14:18 | R12 | 15 | A | NONE |
| AD26083-045 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-045 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-045 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-046 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-046 | 09/17/21 17:15 | CHILD | 0 | M | Login |

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# Internal Chain of Custody

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|---|---|---|---|---|---|
| AD26083-046 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-046 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-046 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-046 | 09/21/21 16:38 | BCT | 5 | A | ALKINITY |
| AD26083-046 | 09/21/21 16:40 | BCT | 5 | A | R1 |
| AD26083-046 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-046 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-046 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-046 | 09/18/21 06:41 | DYR | 9 | A | bn |
| AD26083-046 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-046 | 09/20/21 16:14 | JN | 10 | A | P/P |
| AD26083-046 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-046 | 09/24/21 12:31 | ANS | 11 | M | TDWI/Hg |
| AD26083-046 | 09/24/21 12:46 | R12 | 11 | A | NONE |
| AD26083-046 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-046 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-046 | 09/24/21 11:10 | BCT | 13 | A | NH3N |
| AD26083-046 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-046 | 09/20/21 12:38 | LL | 14 | A | CN |
| AD26083-046 | 09/20/21 12:39 | R12 | 14 | A | NONE |
| AD26083-046 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-046 | 09/23/21 11:11 | LL | 15 | A | TOC |
| AD26083-046 | 09/23/21 17:43 | R12 | 15 | A | NONE |
| AD26083-047 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-047 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-047 | 09/17/21 19:22 | R12 | 1 | A | NONE |
| AD26083-048 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-048 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-048 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-048 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-048 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-048 | 09/21/21 16:38 | BCT | 4 | A | ALKINITY |
| AD26083-048 | 09/21/21 16:40 | BCT | 4 | A | R1 |
| AD26083-048 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-048 | 09/18/21 06:41 | DYR | 7 | A | bn |
| AD26083-048 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-048 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-048 | 09/20/21 16:14 | JN | 9 | A | P/P |
| AD26083-048 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-048 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-048 | 09/23/21 08:34 | PC | 11 | A | tdwi-hg |
| AD26083-048 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-048 | 09/21/21 15:46 | BCT | 12 | M | TDS |
| AD26083-048 | 09/22/21 11:20 | BCT | 12 | A | TDS |
| AD26083-048 | 09/22/21 13:24 | R12 | 12 | A | NONE |
| AD26083-048 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-048 | 09/24/21 11:10 | BCT | 13 | A | NH3N |
| AD26083-048 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-048 | 09/20/21 12:38 | LL | 14 | A | CN |
| AD26083-048 | 09/20/21 12:39 | R12 | 14 | A | NONE |
| AD26083-048 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-048 | 09/21/21 10:40 | JW | 15 | A | toc |
| AD26083-048 | 09/21/21 17:42 | R12 | 15 | A | NONE |
| AD26083-049 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-049 | 09/17/21 17:15 | CHILD | 0 | M | Login |
| AD26083-049 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-049 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-049 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-049 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-049 | 09/20/21 16:14 | JN | 7 | A | P/P |
| AD26083-049 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-049 | 09/18/21 06:41 | DYR | 8 | A | bn |
| AD26083-049 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-049 | 09/20/21 16:14 | JN | 9 | A | P/P |
| AD26083-049 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-049 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-049 | 09/23/21 08:34 | PC | 11 | A | tdwi-hg |
| AD26083-049 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-049 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-049 | 09/24/21 11:10 | BCT | 13 | A | NH3N |
| AD26083-049 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-049 | 09/21/21 10:40 | JW | 14 | A | toc |
| AD26083-049 | 09/21/21 17:42 | R12 | 14 | A | NONE |
| AD26083-049 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-049 | 09/20/21 12:38 | LL | 15 | A | CN |
| AD26083-049 | 09/20/21 12:39 | R12 | 15 | A | NONE |
| AD26083-050 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-050 | 09/17/21 17:55 | CHILD | 0 | M | Login |
| AD26083-050 | 09/18/21 16:36 | R31P | 1 | A | NONE |
| AD26083-050 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-050 | 09/18/21 16:30 | R31 | 3 | A | NONE |
| AD26083-050 | 09/17/21 19:22 | R12 | 7 | A | NONE |
| AD26083-050 | 09/20/21 16:14 | JN | 7 | A | P/P |
| AD26083-050 | 09/17/21 19:22 | R12 | 8 | A | NONE |
| AD26083-050 | 09/18/21 06:41 | DYR | 8 | A | bn |
| AD26083-050 | 09/17/21 19:22 | R12 | 9 | A | NONE |
| AD26083-050 | 09/20/21 16:14 | JN | 9 | A | P/P |
| AD26083-050 | 09/17/21 19:22 | R12 | 10 | A | NONE |
| AD26083-050 | 09/17/21 19:22 | R12 | 11 | A | NONE |
| AD26083-050 | 09/23/21 08:34 | PC | 11 | A | tdwi-hg |
| AD26083-050 | 09/17/21 19:22 | R12 | 12 | A | NONE |
| AD26083-050 | 09/17/21 19:22 | R12 | 13 | A | NONE |
| AD26083-050 | 09/24/21 11:10 | BCT | 13 | A | NH3N |
| AD26083-050 | 09/17/21 19:22 | R12 | 14 | A | NONE |
| AD26083-050 | 09/20/21 12:38 | LL | 14 | A | CN |
| AD26083-050 | 09/20/21 12:39 | R12 | 14 | A | NONE |
| AD26083-050 | 09/17/21 19:22 | R12 | 15 | A | NONE |
| AD26083-050 | 09/21/21 10:40 | JW | 15 | A | toc |
| AD26083-050 | 09/21/21 17:42 | R12 | 15 | A | NONE |
| AD26083-051 | 09/17/21 14:03 | CHILD | 0 | M | Received |
| AD26083-051 | 09/17/21 17:55 | CHILD | 0 | M | Login |
| AD26083-051 | 09/18/21 16:30 | R31 | 1 | A | NONE |
| AD26083-051 | 09/18/21 16:30 | R31 | 2 | A | NONE |
| AD26083-051 | 09/18/21 16:30 | R31 | 3 | A | NONE |

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

# GC/MS Volatile Data

# GC/MS Volatile Data
# QC Summary

# FORM2

## Surrogate Recovery

Method: EPA 8260D

| Dfile | Sample# | Matrix | Date/Time | Surr Dil | Dilute Out Flag | Column1 S1 Recov | Column1 S2 Recov | Column1 S3 Recov | Column1 S4 Recov | Column0 S5 Recov | Column0 S6 Recov |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M152700.D | DAILY BLANK | A | 09/20/21 19:47 | 1 | | 104 | 115 | 95 | 98 | | |
| 1M152828.D | DAILY BLANK | A | 09/22/21 11:44 | 1 | | 108 | 121 | 97 | 101 | | |
| 1M152875.D | DAILY BLANK | A | 09/23/21 02:07 | 1 | | 109 | 120 | 97 | 97 | | |
| 2M156840.D | DAILY BLANK | A | 09/16/21 08:39 | 1 | | 100 | 102 | 97 | 102 | | |
| 2M157118.D | DAILY BLANK | A | 09/22/21 14:34 | 1 | | 109 | 88 | 87 | 106 | | |
| 2M157199.D | DAILY BLANK | A | 09/23/21 16:43 | 1 | | 109 | 90 | 86 | 104 | | |
| 1M152893.D | AD26083-001 | A | 09/23/21 07:45 | 1 | | 106 | 116 | 95 | 99 | | |
| 1M152894.D | AD26083-002 | A | 09/23/21 08:04 | 1 | | 109 | 116 | 96 | 99 | | |
| 1M152702.D | AD26083-003 | A | 09/20/21 20:25 | 1 | | 103 | 114 | 97 | 103 | | |
| 1M152886.D | AD26083-005 | A | 09/23/21 05:33 | 1 | | 111 | 116 | 95 | 103 | | |
| 1M152895.D | AD26083-006 | A | 09/23/21 08:23 | 1 | | 111 | 119 | 95 | 99 | | |
| 1M152896.D | AD26083-008 | A | 09/23/21 08:41 | 1 | | 111 | 122 | 94 | 103 | | |
| 1M152897.D | AD26083-009 | A | 09/23/21 09:00 | 1 | | 111 | 120 | 96 | 101 | | |
| 2M157206.D | AD26083-010 | A | 09/23/21 19:00 | 1 | | 106 | 87 | 85 | 105 | | |
| 1M152898.D | AD26083-011 | A | 09/23/21 09:19 | 1 | | 110 | 115 | 96 | 100 | | |
| 1M152829.D | AD26083-012 | A | 09/22/21 12:03 | 1 | | 107 | 115 | 96 | 101 | | |
| 1M152830.D | AD26083-014 | A | 09/22/21 12:22 | 1 | | 106 | 114 | 96 | 101 | | |
| 1M152831.D | AD26083-016 | A | 09/22/21 12:41 | 1 | | 109 | 117 | 97 | 100 | | |
| 1M152832.D | AD26083-018 | A | 09/22/21 13:00 | 1 | | 106 | 116 | 97 | 104 | | |
| 1M152833.D | AD26083-019 | A | 09/22/21 13:18 | 1 | | 108 | 112 | 99 | 100 | | |
| 1M152834.D | AD26083-021 | A | 09/22/21 13:37 | 1 | | 108 | 118 | 96 | 101 | | |
| 1M152835.D | AD26083-023 | A | 09/22/21 13:56 | 1 | | 106 | 115 | 97 | 99 | | |
| 1M152887.D | AD26083-025 | A | 09/23/21 05:52 | 1 | | 108 | 113 | 96 | 100 | | |
| 1M152836.D | AD26083-026 | A | 09/22/21 14:15 | 1 | | 109 | 118 | 95 | 99 | | |
| 1M152891.D | AD26083-027 | A | 09/23/21 07:07 | 1 | | 109 | 119 | 96 | 98 | | |
| 1M152837.D | AD26083-028 | A | 09/22/21 14:34 | 1 | | 112 | 122 | 97 | 95 | | |
| 1M152838.D | AD26083-030 | A | 09/22/21 14:53 | 1 | | 106 | 112 | 96 | 100 | | |
| 2M157119.D | AD26083-032 | A | 09/22/21 14:53 | 1 | | 110 | 90 | 87 | 106 | | |
| 1M152882.D | AD26083-033 | A | 09/23/21 04:18 | 1 | | 108 | 117 | 96 | 98 | | |
| 1M152883.D | AD26083-034 | A | 09/23/21 04:37 | 1 | | 110 | 116 | 97 | 97 | | |
| 2M157120.D | AD26083-035 | A | 09/22/21 15:13 | 1 | | 110 | 91 | 86 | 103 | | |
| 2M157121.D | AD26083-036 | A | 09/22/21 15:33 | 1 | | 108 | 92 | 85 | 109 | | |
| 2M157122.D | AD26083-038 | A | 09/22/21 15:52 | 1 | | 109 | 88 | 86 | 107 | | |
| 1M152892.D | AD26083-040 | A | 09/23/21 07:26 | 1 | | 106 | 114 | 93 | 98 | | |
| 1M152855.D | AD26083-042(MS:AD26 | A | 09/22/21 20:12 | 1 | | 106 | 117 | 96 | 100 | | |
| 1M152856.D | AD26083-044(MSD:AD2 | A | 09/22/21 20:31 | 1 | | 107 | 111 | 96 | 99 | | |
| 2M157123.D | AD26083-046 | A | 09/22/21 16:12 | 1 | | 108 | 89 | 87 | 104 | | |
| 2M157124.D | AD26083-048 | A | 09/22/21 16:32 | 1 | | 110 | 91 | 86 | 108 | | |
| 2M157125.D | AD26083-049(MS:AD26 | A | 09/22/21 16:51 | 1 | | 110 | 89 | 88 | 106 | | |
| 2M157126.D | AD26083-050(MSD:AD2 | A | 09/22/21 17:10 | 1 | | 113 | 93 | 87 | 106 | | |
| 1M152884.D | AD26083-051 | A | 09/23/21 04:56 | 1 | | 109 | 115 | 96 | 98 | | |
| 1M152710.D | MBS96770 | A | 09/20/21 22:55 | 1 | | 101 | 105 | 97 | 100 | | |
| 1M152719.D | AD25889-018(T:MS) | A | 09/21/21 01:43 | 1 | | 103 | 107 | 99 | 102 | | |
| 1M152720.D | AD25889-018(T:MSD) | A | 09/21/21 02:02 | 1 | | 96 | 101 | 100 | 99 | | |
| 1M152842.D | MBS96784 | A | 09/22/21 16:07 | 1 | | 108 | 115 | 99 | 98 | | |
| 1M152876.D | AD26083-008(MS) | A | 09/23/21 02:26 | 1 | | 108 | 117 | 96 | 98 | | |
| 1M152877.D | AD26083-008(MSD) | A | 09/23/21 02:44 | 1 | | 109 | 118 | 95 | 99 | | |
| 1M152879.D | MBS96792 | A | 09/23/21 03:21 | 1 | | 106 | 112 | 98 | 98 | | |
| 2M156847.D | MBS96749 | A | 09/16/21 10:55 | 1 | | 98 | 100 | 95 | 93 | | |

**Flags:** SD=Surrogate diluted out

*=Surrogate out

**Method:** EPA 8260D

### Aqueous Laboratory Limits

| Compound | Spike Amt | Limits |
|---|---|---|
| S1=Dibromofluoromethane | 30 | 73-131 |
| S2=1,2-Dichloroethane-d4 | 30 | 78-128 |
| S3=Toluene-d8 | 30 | 79-111 |
| S4=Bromofluorobenzene | 30 | 82-112 |

# FORM2

## Surrogate Recovery

Method: EPA 8260D

| Dfile | Sample# | Matrix | Date/Time | Surr Dil | Dilute Out Flag | Column1 S1 Recov | Column1 S2 Recov | Column1 S3 Recov | Column1 S4 Recov | Column0 S5 Recov | Column0 S6 Recov |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2M156856.D | AD25889-018(T) | A | 09/16/21 13:51 | 1 | | 101 | 107 | 97 | 102 | | |
| 2M157127.D | MBS96787 | A | 09/22/21 17:30 | 1 | | 111 | 87 | 87 | 107 | | |
| 2M157204.D | MBS96795 | A | 09/23/21 18:21 | 1 | | 107 | 86 | 87 | 108 | | |

**Flags:** SD=Surrogate diluted out
*=Surrogate out

**Method:** EPA 8260D

### Aqueous Laboratory Limits

| Compound | Spike Amt | Limits |
|---|---|---|
| S1=Dibromofluoromethane | 30 | 73-131 |
| S2=1,2-Dichloroethane-d4 | 30 | 78-128 |
| S3=Toluene-d8 | 30 | 79-111 |
| S4=Bromofluorobenzene | 30 | 82-112 |

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96749

| | | | |
|---|---|---|---|
| | Data File | Sample ID: | Analysis Date |
| Spike or Dup: | 2M156847.D | MBS96749 | 9/16/2021 10:55:00 AM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 16.5147 | 0 | 20 | 83 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 7.2831 | 0 | 20 | 36* | 50 | 150 |
| **Chloromethane** | 1 | 12.754 | 0 | 20 | 64 | 50 | 150 |
| **Bromomethane** | 1 | 12.2825 | 0 | 20 | 61 | 50 | 150 |
| **Vinyl Chloride** | 1 | 14.1383 | 0 | 20 | 71 | 50 | 150 |
| **Chloroethane** | 1 | 17.8737 | 0 | 20 | 89 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 19.9609 | 0 | 20 | 100 | 50 | 150 |
| Ethyl ether | 1 | 15.1261 | 0 | 20 | 76 | 50 | 150 |
| Furan | 1 | 16.5633 | 0 | 20 | 83 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 14.7651 | 0 | 20 | 74 | 50 | 150 |
| **Methylene Chloride** | 1 | 16.7004 | 0 | 20 | 84 | 70 | 130 |
| Acrolein | 1 | 48.1484 | 0 | 100 | 48* | 50 | 150 |
| Acrylonitrile | 1 | 15.7757 | 0 | 20 | 79 | 50 | 150 |
| Iodomethane | 1 | 13.0041 | 0 | 20 | 65 | 50 | 150 |
| **Acetone** | 1 | 86.9931 | 0 | 100 | 87 | 50 | 150 |
| **Carbon Disulfide** | 1 | 10.6019 | 0 | 20 | 53 | 50 | 150 |
| t-Butyl Alcohol | 1 | 78.2485 | 0 | 100 | 78 | 50 | 150 |
| n-Hexane | 1 | 12.7308 | 0 | 20 | 64* | 70 | 130 |
| Di-isopropyl-ether | 1 | 16.5485 | 0 | 20 | 83 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 17.705 | 0 | 20 | 89 | 70 | 130 |
| **Methyl Acetate** | 1 | 22.9075 | 0 | 20 | 115 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 15.0026 | 0 | 20 | 75 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 17.227 | 0 | 20 | 86 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 16.8494 | 0 | 20 | 84 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 16.3394 | 0 | 20 | 82 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 16.8489 | 0 | 20 | 84 | 70 | 130 |
| **Bromochloromethane** | 1 | 18.6426 | 0 | 20 | 93 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 12.1232 | 0 | 20 | 61* | 70 | 130 |
| Ethyl acetate | 1 | 14.4072 | 0 | 20 | 72 | 50 | 150 |
| **1,4-Dioxane** | 1 | 985.4616 | 0 | 1000 | 99 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 18.1729 | 0 | 20 | 91 | 70 | 130 |
| **Chloroform** | 1 | 18.5125 | 0 | 20 | 93 | 70 | 130 |
| **Cyclohexane** | 1 | 15.9135 | 0 | 20 | 80 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 17.7332 | 0 | 20 | 89 | 70 | 130 |
| **2-Butanone** | 1 | 15.8221 | 0 | 20 | 79 | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 17.9582 | 0 | 20 | 90 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 16.7453 | 0 | 20 | 84 | 50 | 150 |
| Vinyl Acetate | 1 | 10.6925 | 0 | 20 | 53 | 50 | 150 |
| **Bromodichloromethane** | 1 | 16.3762 | 0 | 20 | 82 | 70 | 130 |
| **Methylcyclohexane** | 1 | 16.8088 | 0 | 20 | 84 | 70 | 130 |
| Dibromomethane | 1 | 18.8222 | 0 | 20 | 94 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 17.5083 | 0 | 20 | 88 | 70 | 130 |
| **Trichloroethene** | 1 | 18.9945 | 0 | 20 | 95 | 70 | 130 |
| **Benzene** | 1 | 17.4218 | 0 | 20 | 87 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 15.5317 | 0 | 20 | 78 | 70 | 130 |
| Iso-propylacetate | 1 | 13.1436 | 0 | 20 | 66* | 70 | 130 |
| Methyl methacrylate | 1 | 17.7945 | 0 | 20 | 89 | 70 | 130 |
| **Dibromochloromethane** | 1 | 14.4794 | 0 | 20 | 72 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 13.1405 | 0 | 20 | 66* | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 13.2972 | 0 | 20 | 66* | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 13.1908 | 0 | 20 | 66* | 70 | 130 |
| Ethyl methacrylate | 1 | 13.0084 | 0 | 20 | 65* | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 15.8146 | 0 | 20 | 79 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 15.6086 | 0 | 20 | 78 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 16.0368 | 0 | 20 | 80 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 14.4452 | 0 | 20 | 72 | 50 | 150 |
| **2-Hexanone** | 1 | 15.2305 | 0 | 20 | 76 | 50 | 150 |
| **Tetrachloroethene** | 1 | 18.1597 | 0 | 20 | 91 | 50 | 150 |
| **Toluene** | 1 | 16.5374 | 0 | 20 | 83 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 15.7812 | 0 | 20 | 79 | 70 | 130 |
| **Chlorobenzene** | 1 | 17.0017 | 0 | 20 | 85 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96749

| Method: 8260D | Matrix: Aqueous | | Units: ug/L | QC Type: MBS | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| n-Butyl acrylate | 1 | 8.8555 | 0 | 20 | 44* | 70 | 130 |
| n-Amyl acetate | 1 | 8.8886 | 0 | 20 | 44* | 70 | 130 |
| **Bromoform** | 1 | 11.4264 | 0 | 20 | 57* | 70 | 130 |
| **Ethylbenzene** | 1 | 14.3487 | 0 | 20 | 72 | 70 | 130 |
| **1,1,2,2-Tetrachloroethane** | 1 | 12.8477 | 0 | 20 | 64* | 70 | 130 |
| **Styrene** | 1 | 13.9864 | 0 | 20 | 70 | 70 | 130 |
| **m&p-Xylenes** | 1 | 28.3927 | 0 | 40 | 71 | 70 | 130 |
| **o-Xylene** | 1 | 14.8091 | 0 | 20 | 74 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 10.6464 | 0 | 20 | 53 | 50 | 150 |
| **1,3-Dichlorobenzene** | 1 | 15.4946 | 0 | 20 | 77 | 70 | 130 |
| **1,4-Dichlorobenzene** | 1 | 15.1144 | 0 | 20 | 76 | 70 | 130 |
| **1,2-Dichlorobenzene** | 1 | 15.3739 | 0 | 20 | 77 | 70 | 130 |
| **Isopropylbenzene** | 1 | 14.9502 | 0 | 20 | 75 | 70 | 130 |
| Cyclohexanone | 1 | 75.3383 | 0 | 100 | 75 | 50 | 150 |
| Camphene | 1 | 14.2735 | 0 | 20 | 71 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 12.1934 | 0 | 20 | 61* | 70 | 130 |
| 2-Chlorotoluene | 1 | 14.8687 | 0 | 20 | 74 | 70 | 130 |
| p-Ethyltoluene | 1 | 13.1013 | 0 | 20 | 66* | 70 | 130 |
| 4-Chlorotoluene | 1 | 14.1048 | 0 | 20 | 71 | 70 | 130 |
| n-Propylbenzene | 1 | 14.8333 | 0 | 20 | 74 | 70 | 130 |
| Bromobenzene | 1 | 13.7172 | 0 | 20 | 69* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 16.3838 | 0 | 20 | 82 | 70 | 130 |
| Butyl methacrylate | 1 | 10.8537 | 0 | 20 | 54* | 70 | 130 |
| t-Butylbenzene | 1 | 15.6336 | 0 | 20 | 78 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 14.9685 | 0 | 20 | 75 | 70 | 130 |
| sec-Butylbenzene | 1 | 14.9725 | 0 | 20 | 75 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 15.2867 | 0 | 20 | 76 | 70 | 130 |
| n-Butylbenzene | 1 | 14.6818 | 0 | 20 | 73 | 70 | 130 |
| p-Diethylbenzene | 1 | 14.4387 | 0 | 20 | 72 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 14.4716 | 0 | 20 | 72 | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | 1 | 11.1832 | 0 | 20 | 56 | 50 | 150 |
| Camphor | 1 | 133.1558 | 0 | 200 | 67 | 20 | 150 |
| Hexachlorobutadiene | 1 | 14.7263 | 0 | 20 | 74 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | 1 | 14.594 | 0 | 20 | 73 | 70 | 130 |
| **1,2,3-Trichlorobenzene** | 1 | 13.7569 | 0 | 20 | 69* | 70 | 130 |
| Naphthalene | 1 | 13.41 | 0 | 20 | 67 | 50 | 150 |

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Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96770

| Data File | Sample ID: | Analysis Date |
|---|---|---|
| Spike or Dup: 1M152710.D | MBS96770 | 9/20/2021 10:55:00 PM |
| Non Spike(If applicable): | | |
| Inst Blank(If applicable): | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 25.227 | 0 | 20 | 126 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 12.0263 | 0 | 20 | 60 | 50 | 150 |
| **Chloromethane** | 1 | 16.801 | 0 | 20 | 84 | 50 | 150 |
| **Bromomethane** | 1 | 18.1847 | 0 | 20 | 91 | 50 | 150 |
| **Vinyl Chloride** | 1 | 18.2994 | 0 | 20 | 91 | 50 | 150 |
| **Chloroethane** | 1 | 20.0437 | 0 | 20 | 100 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 21.1797 | 0 | 20 | 106 | 50 | 150 |
| Ethyl ether | 1 | 19.9682 | 0 | 20 | 100 | 50 | 150 |
| Furan | 1 | 20.9438 | 0 | 20 | 105 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 22.4221 | 0 | 20 | 112 | 50 | 150 |
| **Methylene Chloride** | 1 | 20.0776 | 0 | 20 | 100 | 70 | 130 |
| Acrolein | 1 | 93.28 | 0 | 100 | 93 | 50 | 150 |
| Acrylonitrile | 1 | 22.3469 | 0 | 20 | 112 | 50 | 150 |
| Iodomethane | 1 | 16.5326 | 0 | 20 | 83 | 50 | 150 |
| **Acetone** | 1 | 113.8972 | 0 | 100 | 114 | 50 | 150 |
| **Carbon Disulfide** | 1 | 19.8474 | 0 | 20 | 99 | 50 | 150 |
| t-Butyl Alcohol | 1 | 109.255 | 0 | 100 | 109 | 50 | 150 |
| n-Hexane | 1 | 23.3985 | 0 | 20 | 117 | 70 | 130 |
| Di-isopropyl-ether | 1 | 22.4508 | 0 | 20 | 112 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 22.0065 | 0 | 20 | 110 | 70 | 130 |
| **Methyl Acetate** | 1 | 22.6233 | 0 | 20 | 113 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 20.8851 | 0 | 20 | 104 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 20.8912 | 0 | 20 | 104 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 21.0216 | 0 | 20 | 105 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 21.4218 | 0 | 20 | 107 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 21.4717 | 0 | 20 | 107 | 70 | 130 |
| **Bromochloromethane** | 1 | 21.8801 | 0 | 20 | 109 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 20.7142 | 0 | 20 | 104 | 70 | 130 |
| Ethyl acetate | 1 | 20.7819 | 0 | 20 | 104 | 50 | 150 |
| **1,4-Dioxane** | 1 | 1030.976 | 0 | 1000 | 103 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 22.0259 | 0 | 20 | 110 | 70 | 130 |
| **Chloroform** | 1 | 19.8456 | 0 | 20 | 99 | 70 | 130 |
| **Cyclohexane** | 1 | 24.7378 | 0 | 20 | 124 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 20.0452 | 0 | 20 | 100 | 70 | 130 |
| **2-Butanone** | 1 | 18.3538 | 0 | 20 | 92 | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 21.1325 | 0 | 20 | 106 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 21.7075 | 0 | 20 | 109 | 50 | 150 |
| Vinyl Acetate | 1 | 20.6066 | 0 | 20 | 103 | 50 | 150 |
| **Bromodichloromethane** | 1 | 20.1159 | 0 | 20 | 101 | 70 | 130 |
| **Methylcyclohexane** | 1 | 22.7994 | 0 | 20 | 114 | 70 | 130 |
| Dibromomethane | 1 | 20.1354 | 0 | 20 | 101 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 21.2436 | 0 | 20 | 106 | 70 | 130 |
| **Trichloroethene** | 1 | 19.7063 | 0 | 20 | 99 | 70 | 130 |
| **Benzene** | 1 | 19.9464 | 0 | 20 | 100 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 20.0625 | 0 | 20 | 100 | 70 | 130 |
| Iso-propylacetate | 1 | 20.6416 | 0 | 20 | 103 | 70 | 130 |
| Methyl methacrylate | 1 | 21.195 | 0 | 20 | 106 | 70 | 130 |
| **Dibromochloromethane** | 1 | 18.33 | 0 | 20 | 92 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 20.391 | 0 | 20 | 102 | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 19.3076 | 0 | 20 | 97 | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 19.2421 | 0 | 20 | 96 | 70 | 130 |
| Ethyl methacrylate | 1 | 21.1794 | 0 | 20 | 106 | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 19.3742 | 0 | 20 | 97 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 19.3547 | 0 | 20 | 97 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 18.9252 | 0 | 20 | 95 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 21.5825 | 0 | 20 | 108 | 50 | 150 |
| **2-Hexanone** | 1 | 20.5245 | 0 | 20 | 103 | 50 | 150 |
| **Tetrachloroethene** | 1 | 19.2718 | 0 | 20 | 96 | 50 | 150 |
| **Toluene** | 1 | 19.3032 | 0 | 20 | 97 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 18.4541 | 0 | 20 | 92 | 70 | 130 |
| **Chlorobenzene** | 1 | 19.0374 | 0 | 20 | 95 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96770

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 18.167 | 0 | 20 | 91 | 70 | 130 |
| n-Amyl acetate | 1 | 19.0685 | 0 | 20 | 95 | 70 | 130 |
| **Bromoform** | **1** | **17.1047** | **0** | **20** | **86** | **70** | **130** |
| **Ethylbenzene** | **1** | **18.5655** | **0** | **20** | **93** | **70** | **130** |
| **1,1,2,2-Tetrachloroethane** | **1** | **18.6521** | **0** | **20** | **93** | **70** | **130** |
| **Styrene** | **1** | **18.4591** | **0** | **20** | **92** | **70** | **130** |
| **m&p-Xylenes** | **1** | **37.7385** | **0** | **40** | **94** | **70** | **130** |
| **o-Xylene** | **1** | **19.3282** | **0** | **20** | **97** | **70** | **130** |
| trans-1,4-Dichloro-2-butene | 1 | 20.5122 | 0 | 20 | 103 | 50 | 150 |
| **1,3-Dichlorobenzene** | **1** | **18.0106** | **0** | **20** | **90** | **70** | **130** |
| **1,4-Dichlorobenzene** | **1** | **17.5072** | **0** | **20** | **88** | **70** | **130** |
| **1,2-Dichlorobenzene** | **1** | **17.7889** | **0** | **20** | **89** | **70** | **130** |
| **Isopropylbenzene** | **1** | **19.7474** | **0** | **20** | **99** | **70** | **130** |
| Cyclohexanone | 1 | 109.3322 | 0 | 100 | 109 | 50 | 150 |
| Camphene | 1 | 21.1476 | 0 | 20 | 106 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 17.849 | 0 | 20 | 89 | 70 | 130 |
| 2-Chlorotoluene | 1 | 18.6486 | 0 | 20 | 93 | 70 | 130 |
| p-Ethyltoluene | 1 | 19.351 | 0 | 20 | 97 | 70 | 130 |
| 4-Chlorotoluene | 1 | 19.0187 | 0 | 20 | 95 | 70 | 130 |
| n-Propylbenzene | 1 | 19.8405 | 0 | 20 | 99 | 70 | 130 |
| Bromobenzene | 1 | 18.995 | 0 | 20 | 95 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 19.3304 | 0 | 20 | 97 | 70 | 130 |
| Butyl methacrylate | 1 | 20.446 | 0 | 20 | 102 | 70 | 130 |
| t-Butylbenzene | 1 | 19.0921 | 0 | 20 | 95 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 19.8067 | 0 | 20 | 99 | 70 | 130 |
| sec-Butylbenzene | 1 | 18.9969 | 0 | 20 | 95 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 19.016 | 0 | 20 | 95 | 70 | 130 |
| n-Butylbenzene | 1 | 19.6721 | 0 | 20 | 98 | 70 | 130 |
| p-Diethylbenzene | 1 | 19.3444 | 0 | 20 | 97 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 18.2238 | 0 | 20 | 91 | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | **1** | **19.0956** | **0** | **20** | **95** | **50** | **150** |
| Camphor | 1 | 176.6769 | 0 | 200 | 88 | 20 | 150 |
| Hexachlorobutadiene | 1 | 19.2622 | 0 | 20 | 96 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | **1** | **19.1649** | **0** | **20** | **96** | **70** | **130** |
| **1,2,3-Trichlorobenzene** | **1** | **19.3244** | **0** | **20** | **97** | **70** | **130** |
| Naphthalene | 1 | 18.593 | 0 | 20 | 93 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96784

| Data File | Sample ID: | Analysis Date |
|---|---|---|
| Spike or Dup: 1M152842.D | MBS96784 | 9/22/2021 4:07:00 PM |
| Non Spike(If applicable): | | |
| Inst Blank(If applicable): | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 23.7981 | 0 | 20 | 119 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 43.7966 | 0 | 20 | 219* | 50 | 150 |
| **Chloromethane** | 1 | 27.7174 | 0 | 20 | 139 | 50 | 150 |
| **Bromomethane** | 1 | 9.4206 | 0 | 20 | 47* | 50 | 150 |
| **Vinyl Chloride** | 1 | 24.7019 | 0 | 20 | 124 | 50 | 150 |
| **Chloroethane** | 1 | 23.6976 | 0 | 20 | 118 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 22.1328 | 0 | 20 | 111 | 50 | 150 |
| Ethyl ether | 1 | 20.7689 | 0 | 20 | 104 | 50 | 150 |
| Furan | 1 | 22.4713 | 0 | 20 | 112 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 20.1587 | 0 | 20 | 101 | 50 | 150 |
| **Methylene Chloride** | 1 | 17.1859 | 0 | 20 | 86 | 70 | 130 |
| Acrolein | 1 | 106.3301 | 0 | 100 | 106 | 50 | 150 |
| Acrylonitrile | 1 | 26.6435 | 0 | 20 | 133 | 50 | 150 |
| Iodomethane | 1 | 9.5048 | 0 | 20 | 48* | 50 | 150 |
| **Acetone** | 1 | 128.3165 | 0 | 100 | 128 | 50 | 150 |
| **Carbon Disulfide** | 1 | 26.6697 | 0 | 20 | 133 | 50 | 150 |
| t-Butyl Alcohol | 1 | 118.2689 | 0 | 100 | 118 | 50 | 150 |
| n-Hexane | 1 | 23.6078 | 0 | 20 | 118 | 70 | 130 |
| Di-isopropyl-ether | 1 | 24.2814 | 0 | 20 | 121 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 18.5197 | 0 | 20 | 93 | 70 | 130 |
| **Methyl Acetate** | 1 | 28.6396 | 0 | 20 | 143 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 19.3436 | 0 | 20 | 97 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 19.4239 | 0 | 20 | 97 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 16.3685 | 0 | 20 | 82 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 20.1145 | 0 | 20 | 101 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 17.7655 | 0 | 20 | 89 | 70 | 130 |
| **Bromochloromethane** | 1 | 23.7339 | 0 | 20 | 119 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 13.159 | 0 | 20 | 66* | 70 | 130 |
| Ethyl acetate | 1 | 19.7469 | 0 | 20 | 99 | 50 | 150 |
| **1,4-Dioxane** | 1 | 909.6263 | 0 | 1000 | 91 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 17.4566 | 0 | 20 | 87 | 70 | 130 |
| **Chloroform** | 1 | 17.452 | 0 | 20 | 87 | 70 | 130 |
| **Cyclohexane** | 1 | 22.2126 | 0 | 20 | 111 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 19.128 | 0 | 20 | 96 | 70 | 130 |
| **2-Butanone** | 1 | 19.6471 | 0 | 20 | 98 | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 17.1838 | 0 | 20 | 86 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 15.0444 | 0 | 20 | 75 | 50 | 150 |
| Vinyl Acetate | 1 | 19.567 | 0 | 20 | 98 | 50 | 150 |
| **Bromodichloromethane** | 1 | 17.1628 | 0 | 20 | 86 | 70 | 130 |
| **Methylcyclohexane** | 1 | 17.3128 | 0 | 20 | 87 | 70 | 130 |
| Dibromomethane | 1 | 16.0308 | 0 | 20 | 80 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 18.6807 | 0 | 20 | 93 | 70 | 130 |
| **Trichloroethene** | 1 | 15.6595 | 0 | 20 | 78 | 70 | 130 |
| **Benzene** | 1 | 16.4485 | 0 | 20 | 82 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 17.1434 | 0 | 20 | 86 | 70 | 130 |
| Iso-propylacetate | 1 | 22.1352 | 0 | 20 | 111 | 70 | 130 |
| Methyl methacrylate | 1 | 24.9998 | 0 | 20 | 125 | 70 | 130 |
| **Dibromochloromethane** | 1 | 14.9039 | 0 | 20 | 75 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 16.5679 | 0 | 20 | 83 | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 14.4864 | 0 | 20 | 72 | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 13.8501 | 0 | 20 | 69* | 70 | 130 |
| Ethyl methacrylate | 1 | 19.9773 | 0 | 20 | 100 | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 16.3908 | 0 | 20 | 82 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 16.2487 | 0 | 20 | 81 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 16.3647 | 0 | 20 | 82 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 22.5404 | 0 | 20 | 113 | 50 | 150 |
| **2-Hexanone** | 1 | 22.6513 | 0 | 20 | 113 | 50 | 150 |
| **Tetrachloroethene** | 1 | 14.9245 | 0 | 20 | 75 | 50 | 150 |
| **Toluene** | 1 | 15.6721 | 0 | 20 | 78 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 14.7403 | 0 | 20 | 74 | 70 | 130 |
| **Chlorobenzene** | 1 | 15.7364 | 0 | 20 | 79 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96784

| Method: 8260D | Matrix: Aqueous | | Units: ug/L | | QC Type: MBS | | |
|---|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| n-Butyl acrylate | 1 | 16.9546 | 0 | 20 | 85 | 70 | 130 |
| n-Amyl acetate | 1 | 16.9916 | 0 | 20 | 85 | 70 | 130 |
| **Bromoform** | **1** | **14.1716** | **0** | **20** | **71** | **70** | **130** |
| **Ethylbenzene** | **1** | **15.6577** | **0** | **20** | **78** | **70** | **130** |
| **1,1,2,2-Tetrachloroethane** | **1** | **16.3941** | **0** | **20** | **82** | **70** | **130** |
| **Styrene** | **1** | **15.4275** | **0** | **20** | **77** | **70** | **130** |
| **m&p-Xylenes** | **1** | **30.742** | **0** | **40** | **77** | **70** | **130** |
| **o-Xylene** | **1** | **15.1967** | **0** | **20** | **76** | **70** | **130** |
| trans-1,4-Dichloro-2-butene | 1 | 13.7352 | 0 | 20 | 69 | 50 | 150 |
| **1,3-Dichlorobenzene** | **1** | **15.3708** | **0** | **20** | **77** | **70** | **130** |
| **1,4-Dichlorobenzene** | **1** | **14.9565** | **0** | **20** | **75** | **70** | **130** |
| **1,2-Dichlorobenzene** | **1** | **15.2871** | **0** | **20** | **76** | **70** | **130** |
| **Isopropylbenzene** | **1** | **15.9354** | **0** | **20** | **80** | **70** | **130** |
| Cyclohexanone | 1 | 80.1 | 0 | 100 | 80 | 50 | 150 |
| Camphene | 1 | 17.464 | 0 | 20 | 87 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 14.0525 | 0 | 20 | 70 | 70 | 130 |
| 2-Chlorotoluene | 1 | 15.9999 | 0 | 20 | 80 | 70 | 130 |
| p-Ethyltoluene | 1 | 15.6787 | 0 | 20 | 78 | 70 | 130 |
| 4-Chlorotoluene | 1 | 15.702 | 0 | 20 | 79 | 70 | 130 |
| n-Propylbenzene | 1 | 16.304 | 0 | 20 | 82 | 70 | 130 |
| Bromobenzene | 1 | 17.2371 | 0 | 20 | 86 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 15.8618 | 0 | 20 | 79 | 70 | 130 |
| Butyl methacrylate | 1 | 16.7471 | 0 | 20 | 84 | 70 | 130 |
| t-Butylbenzene | 1 | 15.7145 | 0 | 20 | 79 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 15.789 | 0 | 20 | 79 | 70 | 130 |
| sec-Butylbenzene | 1 | 15.7787 | 0 | 20 | 79 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 15.351 | 0 | 20 | 77 | 70 | 130 |
| n-Butylbenzene | 1 | 16.5616 | 0 | 20 | 83 | 70 | 130 |
| p-Diethylbenzene | 1 | 15.3588 | 0 | 20 | 77 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 13.2065 | 0 | 20 | 66* | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | **1** | **15.1926** | **0** | **20** | **76** | **50** | **150** |
| Camphor | 1 | 156.7762 | 0 | 200 | 78 | 20 | 150 |
| Hexachlorobutadiene | 1 | 15.9735 | 0 | 20 | 80 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | **1** | **16.2172** | **0** | **20** | **81** | **70** | **130** |
| **1,2,3-Trichlorobenzene** | **1** | **17.0476** | **0** | **20** | **85** | **70** | **130** |
| Naphthalene | 1 | 16.5495 | 0 | 20 | 83 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96787

| Data File | Sample ID: | Analysis Date |
|---|---|---|
| Spike or Dup: 2M157127.D | MBS96787 | 9/22/2021 5:30:00 PM |
| Non Spike(If applicable): | | |
| Inst Blank(If applicable): | | |

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 15.9121 | 0 | 20 | 80 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 47.3869 | 0 | 20 | 237* | 50 | 150 |
| **Chloromethane** | 1 | 22.1265 | 0 | 20 | 111 | 50 | 150 |
| **Bromomethane** | 1 | 7.6277 | 0 | 20 | 38* | 50 | 150 |
| **Vinyl Chloride** | 1 | 23.4701 | 0 | 20 | 117 | 50 | 150 |
| **Chloroethane** | 1 | 21.2166 | 0 | 20 | 106 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 24.0989 | 0 | 20 | 120 | 50 | 150 |
| Ethyl ether | 1 | 17.8899 | 0 | 20 | 89 | 50 | 150 |
| Furan | 1 | 17.8629 | 0 | 20 | 89 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 22.9265 | 0 | 20 | 115 | 50 | 150 |
| **Methylene Chloride** | 1 | 19.2887 | 0 | 20 | 96 | 70 | 130 |
| Acrolein | 1 | 67.46 | 0 | 100 | 67 | 50 | 150 |
| Acrylonitrile | 1 | 17.3077 | 0 | 20 | 87 | 50 | 150 |
| Iodomethane | 1 | 19.7869 | 0 | 20 | 99 | 50 | 150 |
| **Acetone** | 1 | 87.1561 | 0 | 100 | 87 | 50 | 150 |
| **Carbon Disulfide** | 1 | 19.6094 | 0 | 20 | 98 | 50 | 150 |
| t-Butyl Alcohol | 1 | 83.6536 | 0 | 100 | 84 | 50 | 150 |
| n-Hexane | 1 | 16.1625 | 0 | 20 | 81 | 70 | 130 |
| Di-isopropyl-ether | 1 | 17.5883 | 0 | 20 | 88 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 18.177 | 0 | 20 | 91 | 70 | 130 |
| **Methyl Acetate** | 1 | 20.0024 | 0 | 20 | 100 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 17.5618 | 0 | 20 | 88 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 18.7414 | 0 | 20 | 94 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 20.983 | 0 | 20 | 105 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 17.1072 | 0 | 20 | 86 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 17.8119 | 0 | 20 | 89 | 70 | 130 |
| **Bromochloromethane** | 1 | 18.9437 | 0 | 20 | 95 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 12.038 | 0 | 20 | 60* | 70 | 130 |
| Ethyl acetate | 1 | 16.3451 | 0 | 20 | 82 | 50 | 150 |
| **1,4-Dioxane** | 1 | 1141.745 | 0 | 1000 | 114 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 20.0518 | 0 | 20 | 100 | 70 | 130 |
| **Chloroform** | 1 | 21.7056 | 0 | 20 | 109 | 70 | 130 |
| **Cyclohexane** | 1 | 18.5469 | 0 | 20 | 93 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 18.4014 | 0 | 20 | 92 | 70 | 130 |
| **2-Butanone** | 1 | 15.7504 | 0 | 20 | 79 | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 22.2561 | 0 | 20 | 111 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 22.8857 | 0 | 20 | 114 | 50 | 150 |
| Vinyl Acetate | 1 | 12.7355 | 0 | 20 | 64 | 50 | 150 |
| **Bromodichloromethane** | 1 | 19.5626 | 0 | 20 | 98 | 70 | 130 |
| **Methylcyclohexane** | 1 | 20.7857 | 0 | 20 | 104 | 70 | 130 |
| Dibromomethane | 1 | 29.1023 | 0 | 20 | 146* | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 18.6742 | 0 | 20 | 93 | 70 | 130 |
| **Trichloroethene** | 1 | 26.7161 | 0 | 20 | 134* | 70 | 130 |
| **Benzene** | 1 | 19.74 | 0 | 20 | 99 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 17.6838 | 0 | 20 | 88 | 70 | 130 |
| Iso-propylacetate | 1 | 13.2669 | 0 | 20 | 66* | 70 | 130 |
| Methyl methacrylate | 1 | 16.3991 | 0 | 20 | 82 | 70 | 130 |
| **Dibromochloromethane** | 1 | 19.737 | 0 | 20 | 99 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 10.5624 | 0 | 20 | 53* | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 14.0339 | 0 | 20 | 70 | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 13.9546 | 0 | 20 | 70 | 70 | 130 |
| Ethyl methacrylate | 1 | 12.5958 | 0 | 20 | 63* | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 18.0308 | 0 | 20 | 90 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 18.6152 | 0 | 20 | 93 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 16.0457 | 0 | 20 | 80 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 14.1701 | 0 | 20 | 71 | 50 | 150 |
| **2-Hexanone** | 1 | 14.2668 | 0 | 20 | 71 | 50 | 150 |
| **Tetrachloroethene** | 1 | 24.6705 | 0 | 20 | 123 | 50 | 150 |
| **Toluene** | 1 | 18.1724 | 0 | 20 | 91 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 20.0564 | 0 | 20 | 100 | 70 | 130 |
| **Chlorobenzene** | 1 | 19.6174 | 0 | 20 | 98 | 70 | 130 |

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Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
QC Batch: MBS96787

| Method: 8260D | Matrix: Aqueous | | Units: ug/L | QC Type: MBS | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| n-Butyl acrylate | 1 | 10.1627 | 0 | 20 | 51* | 70 | 130 |
| n-Amyl acetate | 1 | 9.1125 | 0 | 20 | 46* | 70 | 130 |
| **Bromoform** | **1** | **17.3725** | **0** | **20** | **87** | **70** | **130** |
| **Ethylbenzene** | **1** | **15.5558** | **0** | **20** | **78** | **70** | **130** |
| **1,1,2,2-Tetrachloroethane** | **1** | **13.8696** | **0** | **20** | **69*** | **70** | **130** |
| **Styrene** | **1** | **15.5772** | **0** | **20** | **78** | **70** | **130** |
| **m&p-Xylenes** | **1** | **32.1131** | **0** | **40** | **80** | **70** | **130** |
| **o-Xylene** | **1** | **16.1896** | **0** | **20** | **81** | **70** | **130** |
| trans-1,4-Dichloro-2-butene | 1 | 9.303 | 0 | 20 | 47* | 50 | 150 |
| **1,3-Dichlorobenzene** | **1** | **19.1669** | **0** | **20** | **96** | **70** | **130** |
| **1,4-Dichlorobenzene** | **1** | **19.0691** | **0** | **20** | **95** | **70** | **130** |
| **1,2-Dichlorobenzene** | **1** | **18.4855** | **0** | **20** | **92** | **70** | **130** |
| **Isopropylbenzene** | **1** | **16.9467** | **0** | **20** | **85** | **70** | **130** |
| Cyclohexanone | 1 | 55.2431 | 0 | 100 | 55 | 50 | 150 |
| Camphene | 1 | 16.0446 | 0 | 20 | 80 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 12.2609 | 0 | 20 | 61* | 70 | 130 |
| 2-Chlorotoluene | 1 | 15.573 | 0 | 20 | 78 | 70 | 130 |
| p-Ethyltoluene | 1 | 15.0047 | 0 | 20 | 75 | 70 | 130 |
| 4-Chlorotoluene | 1 | 14.8759 | 0 | 20 | 74 | 70 | 130 |
| n-Propylbenzene | 1 | 15.6649 | 0 | 20 | 78 | 70 | 130 |
| Bromobenzene | 1 | 13.7897 | 0 | 20 | 69* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 18.4622 | 0 | 20 | 92 | 70 | 130 |
| Butyl methacrylate | 1 | 11.0437 | 0 | 20 | 55* | 70 | 130 |
| t-Butylbenzene | 1 | 17.7367 | 0 | 20 | 89 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 15.9493 | 0 | 20 | 80 | 70 | 130 |
| sec-Butylbenzene | 1 | 16.7936 | 0 | 20 | 84 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 17.8298 | 0 | 20 | 89 | 70 | 130 |
| n-Butylbenzene | 1 | 15.8101 | 0 | 20 | 79 | 70 | 130 |
| p-Diethylbenzene | 1 | 17.31 | 0 | 20 | 87 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 15.8263 | 0 | 20 | 79 | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | **1** | **17.6869** | **0** | **20** | **88** | **50** | **150** |
| Camphor | 1 | 149.8212 | 0 | 200 | 75 | 20 | 150 |
| Hexachlorobutadiene | 1 | 24.5937 | 0 | 20 | 123 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | **1** | **21.3893** | **0** | **20** | **107** | **70** | **130** |
| **1,2,3-Trichlorobenzene** | **1** | **21.1444** | **0** | **20** | **106** | **70** | **130** |
| Naphthalene | 1 | 17.2178 | 0 | 20 | 86 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96792

| Data File | Sample ID: | Analysis Date |
|---|---|---|
| Spike or Dup: 1M152879.D | MBS96792 | 9/23/2021 3:21:00 AM |
| Non Spike(If applicable): | | |
| Inst Blank(If applicable): | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 11.568 | 0 | 20 | 58 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 50.9151 | 0 | 20 | 255* | 50 | 150 |
| **Chloromethane** | 1 | 32.1235 | 0 | 20 | 161* | 50 | 150 |
| **Bromomethane** | 1 | 8.7403 | 0 | 20 | 44* | 50 | 150 |
| **Vinyl Chloride** | 1 | 30.7824 | 0 | 20 | 154* | 50 | 150 |
| **Chloroethane** | 1 | 26.7436 | 0 | 20 | 134 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 26.2655 | 0 | 20 | 131 | 50 | 150 |
| Ethyl ether | 1 | 23.3139 | 0 | 20 | 117 | 50 | 150 |
| Furan | 1 | 25.7808 | 0 | 20 | 129 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 25.5749 | 0 | 20 | 128 | 50 | 150 |
| **Methylene Chloride** | 1 | 19.2204 | 0 | 20 | 96 | 70 | 130 |
| Acrolein | 1 | 141.8235 | 0 | 100 | 142 | 50 | 150 |
| Acrylonitrile | 1 | 28.5217 | 0 | 20 | 143 | 50 | 150 |
| Iodomethane | 1 | 14.5923 | 0 | 20 | 73 | 50 | 150 |
| **Acetone** | 1 | 135.4613 | 0 | 100 | 135 | 50 | 150 |
| **Carbon Disulfide** | 1 | 29.1589 | 0 | 20 | 146 | 50 | 150 |
| t-Butyl Alcohol | 1 | 127.2754 | 0 | 100 | 127 | 50 | 150 |
| n-Hexane | 1 | 31.5708 | 0 | 20 | 158* | 70 | 130 |
| Di-isopropyl-ether | 1 | 28.4821 | 0 | 20 | 142* | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 21.4718 | 0 | 20 | 107 | 70 | 130 |
| **Methyl Acetate** | 1 | 29.0945 | 0 | 20 | 145 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 22.017 | 0 | 20 | 110 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 22.5272 | 0 | 20 | 113 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 19.3767 | 0 | 20 | 97 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 23.4044 | 0 | 20 | 117 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 22.6666 | 0 | 20 | 113 | 70 | 130 |
| **Bromochloromethane** | 1 | 24.0251 | 0 | 20 | 120 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 20.9449 | 0 | 20 | 105 | 70 | 130 |
| Ethyl acetate | 1 | 24.9896 | 0 | 20 | 125 | 50 | 150 |
| **1,4-Dioxane** | 1 | 1004.219 | 0 | 1000 | 100 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 20.5434 | 0 | 20 | 103 | 70 | 130 |
| **Chloroform** | 1 | 20.8445 | 0 | 20 | 104 | 70 | 130 |
| **Cyclohexane** | 1 | 27.2085 | 0 | 20 | 136* | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 21.5857 | 0 | 20 | 108 | 70 | 130 |
| **2-Butanone** | 1 | 25.6262 | 0 | 20 | 128 | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 20.7628 | 0 | 20 | 104 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 19.7296 | 0 | 20 | 99 | 50 | 150 |
| Vinyl Acetate | 1 | 26.8786 | 0 | 20 | 134 | 50 | 150 |
| **Bromodichloromethane** | 1 | 20.2231 | 0 | 20 | 101 | 70 | 130 |
| **Methylcyclohexane** | 1 | 22.3941 | 0 | 20 | 112 | 70 | 130 |
| Dibromomethane | 1 | 18.3489 | 0 | 20 | 92 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 22.3893 | 0 | 20 | 112 | 70 | 130 |
| **Trichloroethene** | 1 | 19.1547 | 0 | 20 | 96 | 70 | 130 |
| **Benzene** | 1 | 19.1869 | 0 | 20 | 96 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 20.1458 | 0 | 20 | 101 | 70 | 130 |
| Iso-propylacetate | 1 | 25.4612 | 0 | 20 | 127 | 70 | 130 |
| Methyl methacrylate | 1 | 24.6481 | 0 | 20 | 123 | 70 | 130 |
| **Dibromochloromethane** | 1 | 17.186 | 0 | 20 | 86 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 19.821 | 0 | 20 | 99 | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 18.3866 | 0 | 20 | 92 | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 18.3628 | 0 | 20 | 92 | 70 | 130 |
| Ethyl methacrylate | 1 | 24.8878 | 0 | 20 | 124 | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 18.8101 | 0 | 20 | 94 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 17.9136 | 0 | 20 | 90 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 18.7768 | 0 | 20 | 94 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 25.5538 | 0 | 20 | 128 | 50 | 150 |
| **2-Hexanone** | 1 | 26.2584 | 0 | 20 | 131 | 50 | 150 |
| **Tetrachloroethene** | 1 | 18.1082 | 0 | 20 | 91 | 50 | 150 |
| **Toluene** | 1 | 17.8498 | 0 | 20 | 89 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 17.7212 | 0 | 20 | 89 | 70 | 130 |
| **Chlorobenzene** | 1 | 17.9467 | 0 | 20 | 90 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96792

| Method: 8260D | Matrix: Aqueous | | Units: ug/L | QC Type: MBS | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| n-Butyl acrylate | 1 | 21.9079 | 0 | 20 | 110 | 70 | 130 |
| n-Amyl acetate | 1 | 24.6101 | 0 | 20 | 123 | 70 | 130 |
| **Bromoform** | **1** | **16.391** | **0** | **20** | **82** | **70** | **130** |
| **Ethylbenzene** | **1** | **18.9356** | **0** | **20** | **95** | **70** | **130** |
| **1,1,2,2-Tetrachloroethane** | **1** | **19.5661** | **0** | **20** | **98** | **70** | **130** |
| **Styrene** | **1** | **18.3596** | **0** | **20** | **92** | **70** | **130** |
| **m&p-Xylenes** | **1** | **36.9451** | **0** | **40** | **92** | **70** | **130** |
| **o-Xylene** | **1** | **18.2035** | **0** | **20** | **91** | **70** | **130** |
| trans-1,4-Dichloro-2-butene | 1 | 19.8105 | 0 | 20 | 99 | 50 | 150 |
| **1,3-Dichlorobenzene** | **1** | **18.5073** | **0** | **20** | **93** | **70** | **130** |
| **1,4-Dichlorobenzene** | **1** | **17.6899** | **0** | **20** | **88** | **70** | **130** |
| **1,2-Dichlorobenzene** | **1** | **18.105** | **0** | **20** | **91** | **70** | **130** |
| **Isopropylbenzene** | **1** | **19.0807** | **0** | **20** | **95** | **70** | **130** |
| Cyclohexanone | 1 | 95.2025 | 0 | 100 | 95 | 50 | 150 |
| Camphene | 1 | 21.311 | 0 | 20 | 107 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 18.2238 | 0 | 20 | 91 | 70 | 130 |
| 2-Chlorotoluene | 1 | 19.178 | 0 | 20 | 96 | 70 | 130 |
| p-Ethyltoluene | 1 | 19.2636 | 0 | 20 | 96 | 70 | 130 |
| 4-Chlorotoluene | 1 | 18.8524 | 0 | 20 | 94 | 70 | 130 |
| n-Propylbenzene | 1 | 19.8592 | 0 | 20 | 99 | 70 | 130 |
| Bromobenzene | 1 | 20.7212 | 0 | 20 | 104 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 18.773 | 0 | 20 | 94 | 70 | 130 |
| Butyl methacrylate | 1 | 26.3743 | 0 | 20 | 132* | 70 | 130 |
| t-Butylbenzene | 1 | 18.812 | 0 | 20 | 94 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 18.6994 | 0 | 20 | 93 | 70 | 130 |
| sec-Butylbenzene | 1 | 19.5485 | 0 | 20 | 98 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 18.5233 | 0 | 20 | 93 | 70 | 130 |
| n-Butylbenzene | 1 | 20.2084 | 0 | 20 | 101 | 70 | 130 |
| p-Diethylbenzene | 1 | 18.5341 | 0 | 20 | 93 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 15.9395 | 0 | 20 | 80 | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | **1** | **18.2273** | **0** | **20** | **91** | **50** | **150** |
| Camphor | 1 | 172.7491 | 0 | 200 | 86 | 20 | 150 |
| Hexachlorobutadiene | 1 | 19.468 | 0 | 20 | 97 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | **1** | **18.4556** | **0** | **20** | **92** | **70** | **130** |
| **1,2,3-Trichlorobenzene** | **1** | **19.7098** | **0** | **20** | **99** | **70** | **130** |
| Naphthalene | 1 | 18.5993 | 0 | 20 | 93 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96795

| Data File | Sample ID: | Analysis Date |
|---|---|---|
| Spike or Dup: 2M157204.D | MBS96795 | 9/23/2021 6:21:00 PM |
| Non Spike(If applicable): | | |
| Inst Blank(If applicable): | | |

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 18.6109 | 0 | 20 | 93 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 34.6782 | 0 | 20 | 173* | 50 | 150 |
| **Chloromethane** | 1 | 18.4862 | 0 | 20 | 92 | 50 | 150 |
| **Bromomethane** | 1 | 11.4417 | 0 | 20 | 57 | 50 | 150 |
| **Vinyl Chloride** | 1 | 19.0498 | 0 | 20 | 95 | 50 | 150 |
| **Chloroethane** | 1 | 16.5637 | 0 | 20 | 83 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 19.5165 | 0 | 20 | 98 | 50 | 150 |
| Ethyl ether | 1 | 17.5236 | 0 | 20 | 88 | 50 | 150 |
| Furan | 1 | 17.6875 | 0 | 20 | 88 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 20.7978 | 0 | 20 | 104 | 50 | 150 |
| **Methylene Chloride** | 1 | 17.7763 | 0 | 20 | 89 | 70 | 130 |
| Acrolein | 1 | 75.2211 | 0 | 100 | 75 | 50 | 150 |
| Acrylonitrile | 1 | 15.068 | 0 | 20 | 75 | 50 | 150 |
| Iodomethane | 1 | 13.7716 | 0 | 20 | 69 | 50 | 150 |
| **Acetone** | 1 | 69.1049 | 0 | 100 | 69 | 50 | 150 |
| **Carbon Disulfide** | 1 | 14.394 | 0 | 20 | 72 | 50 | 150 |
| t-Butyl Alcohol | 1 | 69.838 | 0 | 100 | 70 | 50 | 150 |
| n-Hexane | 1 | 16.1152 | 0 | 20 | 81 | 70 | 130 |
| Di-isopropyl-ether | 1 | 14.8491 | 0 | 20 | 74 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 18.2539 | 0 | 20 | 91 | 70 | 130 |
| **Methyl Acetate** | 1 | 15.3297 | 0 | 20 | 77 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 15.13 | 0 | 20 | 76 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 16.9108 | 0 | 20 | 85 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 19.3219 | 0 | 20 | 97 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 15.1209 | 0 | 20 | 76 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 16.3364 | 0 | 20 | 82 | 70 | 130 |
| **Bromochloromethane** | 1 | 16.5463 | 0 | 20 | 83 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 16.3512 | 0 | 20 | 82 | 70 | 130 |
| Ethyl acetate | 1 | 14.0248 | 0 | 20 | 70 | 50 | 150 |
| **1,4-Dioxane** | 1 | 993.863 | 0 | 1000 | 99 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 18.1972 | 0 | 20 | 91 | 70 | 130 |
| **Chloroform** | 1 | 18.5895 | 0 | 20 | 93 | 70 | 130 |
| **Cyclohexane** | 1 | 16.3923 | 0 | 20 | 82 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 15.545 | 0 | 20 | 78 | 70 | 130 |
| **2-Butanone** | 1 | 14.2508 | 0 | 20 | 71 | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 19.8869 | 0 | 20 | 99 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 20.069 | 0 | 20 | 100 | 50 | 150 |
| Vinyl Acetate | 1 | 13.7193 | 0 | 20 | 69 | 50 | 150 |
| **Bromodichloromethane** | 1 | 16.2782 | 0 | 20 | 81 | 70 | 130 |
| **Methylcyclohexane** | 1 | 17.9516 | 0 | 20 | 90 | 70 | 130 |
| Dibromomethane | 1 | 24.7487 | 0 | 20 | 124 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 16.4017 | 0 | 20 | 82 | 70 | 130 |
| **Trichloroethene** | 1 | 22.8455 | 0 | 20 | 114 | 70 | 130 |
| **Benzene** | 1 | 17.1638 | 0 | 20 | 86 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 14.7109 | 0 | 20 | 74 | 70 | 130 |
| Iso-propylacetate | 1 | 10.9051 | 0 | 20 | 55* | 70 | 130 |
| Methyl methacrylate | 1 | 12.1089 | 0 | 20 | 61* | 70 | 130 |
| **Dibromochloromethane** | 1 | 15.585 | 0 | 20 | 78 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 10.4165 | 0 | 20 | 52* | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 12.6931 | 0 | 20 | 63* | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 12.4243 | 0 | 20 | 62* | 70 | 130 |
| Ethyl methacrylate | 1 | 11.7381 | 0 | 20 | 59* | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 14.8104 | 0 | 20 | 74 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 15.6718 | 0 | 20 | 78 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 14.0574 | 0 | 20 | 70 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 11.5628 | 0 | 20 | 58 | 50 | 150 |
| **2-Hexanone** | 1 | 11.8393 | 0 | 20 | 59 | 50 | 150 |
| **Tetrachloroethene** | 1 | 21.5151 | 0 | 20 | 108 | 50 | 150 |
| **Toluene** | 1 | 15.4162 | 0 | 20 | 77 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 16.9766 | 0 | 20 | 85 | 70 | 130 |
| **Chlorobenzene** | 1 | 16.9764 | 0 | 20 | 85 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96795

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 9.4963 | 0 | 20 | 47* | 70 | 130 |
| n-Amyl acetate | 1 | 9.5026 | 0 | 20 | 48* | 70 | 130 |
| **Bromoform** | **1** | **14.0297** | **0** | **20** | **70** | **70** | **130** |
| **Ethylbenzene** | **1** | **13.5586** | **0** | **20** | **68*** | **70** | **130** |
| **1,1,2,2-Tetrachloroethane** | **1** | **12.2298** | **0** | **20** | **61*** | **70** | **130** |
| **Styrene** | **1** | **13.6278** | **0** | **20** | **68*** | **70** | **130** |
| **m&p-Xylenes** | **1** | **27.5453** | **0** | **40** | **69*** | **70** | **130** |
| **o-Xylene** | **1** | **13.567** | **0** | **20** | **68*** | **70** | **130** |
| trans-1,4-Dichloro-2-butene | 1 | 8.9725 | 0 | 20 | 45* | 50 | 150 |
| **1,3-Dichlorobenzene** | **1** | **16.5496** | **0** | **20** | **83** | **70** | **130** |
| **1,4-Dichlorobenzene** | **1** | **16.4521** | **0** | **20** | **82** | **70** | **130** |
| **1,2-Dichlorobenzene** | **1** | **16.4541** | **0** | **20** | **82** | **70** | **130** |
| **Isopropylbenzene** | **1** | **14.4803** | **0** | **20** | **72** | **70** | **130** |
| Cyclohexanone | 1 | 53.4961 | 0 | 100 | 53 | 50 | 150 |
| Camphene | 1 | 13.5349 | 0 | 20 | 68* | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 10.7124 | 0 | 20 | 54* | 70 | 130 |
| 2-Chlorotoluene | 1 | 13.2647 | 0 | 20 | 66* | 70 | 130 |
| p-Ethyltoluene | 1 | 14.0955 | 0 | 20 | 70 | 70 | 130 |
| 4-Chlorotoluene | 1 | 12.4155 | 0 | 20 | 62* | 70 | 130 |
| n-Propylbenzene | 1 | 13.3427 | 0 | 20 | 67* | 70 | 130 |
| Bromobenzene | 1 | 11.8241 | 0 | 20 | 59* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 13.7821 | 0 | 20 | 69* | 70 | 130 |
| Butyl methacrylate | 1 | 10.5007 | 0 | 20 | 53* | 70 | 130 |
| t-Butylbenzene | 1 | 15.0036 | 0 | 20 | 75 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 13.7045 | 0 | 20 | 69* | 70 | 130 |
| sec-Butylbenzene | 1 | 14.241 | 0 | 20 | 71 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 15.2228 | 0 | 20 | 76 | 70 | 130 |
| n-Butylbenzene | 1 | 13.4026 | 0 | 20 | 67* | 70 | 130 |
| p-Diethylbenzene | 1 | 14.7471 | 0 | 20 | 74 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 13.0342 | 0 | 20 | 65* | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | **1** | **14.7851** | **0** | **20** | **74** | **50** | **150** |
| Camphor | 1 | 122.4195 | 0 | 200 | 61 | 20 | 150 |
| Hexachlorobutadiene | 1 | 21.0276 | 0 | 20 | 105 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | **1** | **19.3796** | **0** | **20** | **97** | **70** | **130** |
| **1,2,3-Trichlorobenzene** | **1** | **18.8182** | **0** | **20** | **94** | **70** | **130** |
| Naphthalene | 1 | 14.8854 | 0 | 20 | 74 | 50 | 150 |

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Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96770

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152719.D | AD25889-018(T:MS) | 9/21/2021 1:43:00 AM |
| Non Spike(If applicable): | 2M156856.D | AD25889-018(T) | 9/16/2021 1:51:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 13.0389 | 0 | 20 | 65 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 11.5986 | 0 | 20 | 58 | 50 | 150 |
| **Chloromethane** | 1 | 11.4286 | 0 | 20 | 57 | 50 | 150 |
| **Bromomethane** | 1 | 7.8549 | 0 | 20 | 39* | 50 | 150 |
| **Vinyl Chloride** | 1 | 9.7315 | 0 | 20 | 49* | 50 | 150 |
| **Chloroethane** | 1 | 23.2689 | 0 | 20 | 116 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 22.5795 | 0 | 20 | 113 | 50 | 150 |
| Ethyl ether | 1 | 23.7746 | 0 | 20 | 119 | 50 | 150 |
| Furan | 1 | 23.1737 | 0 | 20 | 116 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| **Methylene Chloride** | 1 | 26.615 | 13.8364 | 20 | 64* | 70 | 130 |
| Acrolein | 1 | 94.3624 | 0 | 100 | 94 | 50 | 150 |
| Acrylonitrile | 1 | 10.158 | 0 | 20 | 51 | 50 | 150 |
| Iodomethane | 1 | 11.3153 | 0 | 20 | 57 | 50 | 150 |
| **Acetone** | 1 | 131.3329 | 5.5365 | 100 | 126 | 50 | 150 |
| **Carbon Disulfide** | 1 | 24.4908 | 0 | 20 | 122 | 50 | 150 |
| t-Butyl Alcohol | 1 | 124.2206 | 0 | 100 | 124 | 50 | 150 |
| n-Hexane | 1 | 26.8896 | 0 | 20 | 134* | 70 | 130 |
| Di-isopropyl-ether | 1 | 25.8277 | 0 | 20 | 129 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 23.7554 | 0 | 20 | 119 | 70 | 130 |
| **Methyl Acetate** | 1 | 24.6918 | 0 | 20 | 123 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 23.6835 | 0 | 20 | 118 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 23.2303 | 0 | 20 | 116 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 22.4055 | 0 | 20 | 112 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 24.4099 | 0 | 20 | 122 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 23.1602 | 0 | 20 | 116 | 70 | 130 |
| **Bromochloromethane** | 1 | 23.1172 | 0 | 20 | 116 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 22.7794 | 0 | 20 | 114 | 70 | 130 |
| Ethyl acetate | 1 | 30.555 | 0 | 20 | 153* | 50 | 150 |
| **1,4-Dioxane** | 1 | 1208.062 | 0 | 1000 | 121 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 23.3529 | 0 | 20 | 117 | 70 | 130 |
| **Chloroform** | 1 | 22.5977 | 0 | 20 | 113 | 70 | 130 |
| **Cyclohexane** | 1 | 26.0054 | 0 | 20 | 130 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 22.8421 | 0 | 20 | 114 | 70 | 130 |
| **2-Butanone** | 1 | 54.5414 | 0 | 20 | 273* | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 23.3056 | 0 | 20 | 117 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 20.985 | 0 | 20 | 105 | 50 | 150 |
| Vinyl Acetate | 1 | 23.3968 | 0 | 20 | 117 | 50 | 150 |
| **Bromodichloromethane** | 1 | 22.0033 | 0 | 20 | 110 | 70 | 130 |
| **Methylcyclohexane** | 1 | 25.4028 | 0 | 20 | 127 | 70 | 130 |
| Dibromomethane | 1 | 21.8978 | 0 | 20 | 109 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 23.5314 | 0 | 20 | 118 | 70 | 130 |
| **Trichloroethene** | 1 | 22.1268 | 0 | 20 | 111 | 70 | 130 |
| **Benzene** | 1 | 22.5468 | 0 | 20 | 113 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 22.9544 | 0 | 20 | 115 | 70 | 130 |
| Iso-propylacetate | 1 | 24.0647 | 0 | 20 | 120 | 70 | 130 |
| Methyl methacrylate | 1 | 25.3935 | 0 | 20 | 127 | 70 | 130 |
| **Dibromochloromethane** | 1 | 20.1929 | 0 | 20 | 101 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 23.499 | 0 | 20 | 117 | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 21.0405 | 0 | 20 | 105 | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 20.6375 | 0 | 20 | 103 | 70 | 130 |
| Ethyl methacrylate | 1 | 24.1814 | 0 | 20 | 121 | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 21.8804 | 0 | 20 | 109 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 21.6205 | 0 | 20 | 108 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 21.8493 | 0 | 20 | 109 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 24.2509 | 0 | 20 | 121 | 50 | 150 |
| **2-Hexanone** | 1 | 24.8393 | 0 | 20 | 124 | 50 | 150 |
| **Tetrachloroethene** | 1 | 21.2957 | 0 | 20 | 106 | 50 | 150 |
| **Toluene** | 1 | 21.7162 | 0 | 20 | 109 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 20.2475 | 0 | 20 | 101 | 70 | 130 |
| **Chlorobenzene** | 1 | 21.4133 | 0 | 20 | 107 | 70 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96770

| Method: 8260D | Matrix: Aqueous | | Units: ug/L | QC Type: MS | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| n-Butyl acrylate | 1 | 20.5081 | 0 | 20 | 103 | 70 | 130 |
| n-Amyl acetate | 1 | 25.5671 | 0 | 20 | 128 | 70 | 130 |
| **Bromoform** | 1 | 18.6397 | 0 | 20 | 93 | 70 | 130 |
| **Ethylbenzene** | 1 | 21.2157 | 0 | 20 | 106 | 70 | 130 |
| **1,1,2,2-Tetrachloroethane** | 1 | 21.3407 | 0 | 20 | 107 | 70 | 130 |
| **Styrene** | 1 | 20.7229 | 0 | 20 | 104 | 70 | 130 |
| **m&p-Xylenes** | 1 | 42.7967 | 0 | 40 | 107 | 70 | 130 |
| **o-Xylene** | 1 | 20.6675 | 0 | 20 | 103 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 23.9089 | 0 | 20 | 120 | 50 | 150 |
| **1,3-Dichlorobenzene** | 1 | 19.8816 | 0 | 20 | 99 | 70 | 130 |
| **1,4-Dichlorobenzene** | 1 | 20.6181 | 0 | 20 | 103 | 70 | 130 |
| **1,2-Dichlorobenzene** | 1 | 19.9887 | 0 | 20 | 100 | 70 | 130 |
| **Isopropylbenzene** | 1 | 22.4491 | 0 | 20 | 112 | 70 | 130 |
| Cyclohexanone | 1 | 108.6402 | 0 | 100 | 109 | 50 | 150 |
| Camphene | 1 | 24.3612 | 0 | 20 | 122 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 19.681 | 0 | 20 | 98 | 70 | 130 |
| 2-Chlorotoluene | 1 | 21.2413 | 0 | 20 | 106 | 70 | 130 |
| p-Ethyltoluene | 1 | 21.1747 | 0 | 20 | 106 | 70 | 130 |
| 4-Chlorotoluene | 1 | 21.8336 | 0 | 20 | 109 | 70 | 130 |
| n-Propylbenzene | 1 | 24.7312 | 0 | 20 | 124 | 70 | 130 |
| Bromobenzene | 1 | 21.1679 | 0 | 20 | 106 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 21.3351 | 0 | 20 | 107 | 70 | 130 |
| Butyl methacrylate | 1 | 25.37 | 0 | 20 | 127 | 70 | 130 |
| t-Butylbenzene | 1 | 21.2137 | 0 | 20 | 106 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 21.7297 | 0 | 20 | 109 | 70 | 130 |
| sec-Butylbenzene | 1 | 22.0667 | 0 | 20 | 110 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 21.6648 | 0 | 20 | 108 | 70 | 130 |
| n-Butylbenzene | 1 | 23.8837 | 0 | 20 | 119 | 70 | 130 |
| p-Diethylbenzene | 1 | 22.6819 | 0 | 20 | 113 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 25.0194 | 0 | 20 | 125 | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | 1 | 20.8758 | 0 | 20 | 104 | 50 | 150 |
| Camphor | 1 | 209.8279 | 0 | 200 | 105 | 20 | 150 |
| Hexachlorobutadiene | 1 | 21.2479 | 0 | 20 | 106 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | 1 | 20.4887 | 0 | 20 | 102 | 70 | 130 |
| **1,2,3-Trichlorobenzene** | 1 | 21.1494 | 0 | 20 | 106 | 70 | 130 |
| Naphthalene | 1 | 22.2591 | 0 | 20 | 111 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96770

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152720.D | AD25889-018(T:MSD) | 9/21/2021 2:02:00 AM |
| Non Spike(If applicable): | 2M156856.D | AD25889-018(T) | 9/16/2021 1:51:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 5.2768 | 0 | 20 | 26* | 50 | 150 |
| **Chloromethane** | 1 | 6.4319 | 0 | 20 | 32* | 50 | 150 |
| **Bromomethane** | 1 | 9.4936 | 0 | 20 | 47* | 50 | 150 |
| **Vinyl Chloride** | 1 | 16.827 | 0 | 20 | 84 | 50 | 150 |
| **Chloroethane** | 1 | 20.4457 | 0 | 20 | 102 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 19.3786 | 0 | 20 | 97 | 50 | 150 |
| Ethyl ether | 1 | 20.4237 | 0 | 20 | 102 | 50 | 150 |
| Furan | 1 | 19.9187 | 0 | 20 | 100 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| **Methylene Chloride** | 1 | 23.5675 | 13.8364 | 20 | 49* | 70 | 130 |
| Acrolein | 1 | 86.9766 | 0 | 100 | 87 | 50 | 150 |
| Acrylonitrile | 1 | 23.1007 | 0 | 20 | 116 | 50 | 150 |
| Iodomethane | 1 | 12.7559 | 0 | 20 | 64 | 50 | 150 |
| **Acetone** | 1 | 115.8646 | 5.5365 | 100 | 110 | 50 | 150 |
| **Carbon Disulfide** | 1 | 20.7351 | 0 | 20 | 104 | 50 | 150 |
| t-Butyl Alcohol | 1 | 113.3382 | 0 | 100 | 113 | 50 | 150 |
| n-Hexane | 1 | 23.4887 | 0 | 20 | 117 | 70 | 130 |
| Di-isopropyl-ether | 1 | 22.458 | 0 | 20 | 112 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 20.4325 | 0 | 20 | 102 | 70 | 130 |
| **Methyl Acetate** | 1 | 22.2118 | 0 | 20 | 111 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 21.0171 | 0 | 20 | 105 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 20.7153 | 0 | 20 | 104 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 19.8307 | 0 | 20 | 99 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 21.6171 | 0 | 20 | 108 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 20.8571 | 0 | 20 | 104 | 70 | 130 |
| **Bromochloromethane** | 1 | 20.5476 | 0 | 20 | 103 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 20.2132 | 0 | 20 | 101 | 70 | 130 |
| Ethyl acetate | 1 | 27.4543 | 0 | 20 | 137 | 50 | 150 |
| **1,4-Dioxane** | 1 | 1108.418 | 0 | 1000 | 111 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 20.3619 | 0 | 20 | 102 | 70 | 130 |
| **Chloroform** | 1 | 20.1021 | 0 | 20 | 101 | 70 | 130 |
| **Cyclohexane** | 1 | 23.0848 | 0 | 20 | 115 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 20.1793 | 0 | 20 | 101 | 70 | 130 |
| **2-Butanone** | 1 | 48.9989 | 0 | 20 | 245* | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 20.136 | 0 | 20 | 101 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 19.0311 | 0 | 20 | 95 | 50 | 150 |
| Vinyl Acetate | 1 | 20.4376 | 0 | 20 | 102 | 50 | 150 |
| **Bromodichloromethane** | 1 | 19.8998 | 0 | 20 | 99 | 70 | 130 |
| **Methylcyclohexane** | 1 | 22.9303 | 0 | 20 | 115 | 70 | 130 |
| Dibromomethane | 1 | 20.2857 | 0 | 20 | 101 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 21.1768 | 0 | 20 | 106 | 70 | 130 |
| **Trichloroethene** | 1 | 19.774 | 0 | 20 | 99 | 70 | 130 |
| **Benzene** | 1 | 19.7312 | 0 | 20 | 99 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 20.3796 | 0 | 20 | 102 | 70 | 130 |
| Iso-propylacetate | 1 | 22.5665 | 0 | 20 | 113 | 70 | 130 |
| Methyl methacrylate | 1 | 23.0211 | 0 | 20 | 115 | 70 | 130 |
| **Dibromochloromethane** | 1 | 18.6178 | 0 | 20 | 93 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 20.5962 | 0 | 20 | 103 | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 19.2066 | 0 | 20 | 96 | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 18.8894 | 0 | 20 | 94 | 70 | 130 |
| Ethyl methacrylate | 1 | 22.6977 | 0 | 20 | 113 | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 19.605 | 0 | 20 | 98 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 19.7913 | 0 | 20 | 99 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 19.6845 | 0 | 20 | 98 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 23.1679 | 0 | 20 | 116 | 50 | 150 |
| **2-Hexanone** | 1 | 21.2015 | 0 | 20 | 106 | 50 | 150 |
| **Tetrachloroethene** | 1 | 19.334 | 0 | 20 | 97 | 50 | 150 |
| **Toluene** | 1 | 19.5503 | 0 | 20 | 98 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 18.8215 | 0 | 20 | 94 | 70 | 130 |
| **Chlorobenzene** | 1 | 19.1887 | 0 | 20 | 96 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96770

| Method: 8260D | Matrix: Aqueous | | Units: ug/L | QC Type: MSD | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| n-Butyl acrylate | 1 | 21.9823 | 0 | 20 | 110 | 70 | 130 |
| n-Amyl acetate | 1 | 22.1141 | 0 | 20 | 111 | 70 | 130 |
| **Bromoform** | 1 | 17.3375 | 0 | 20 | 87 | 70 | 130 |
| **Ethylbenzene** | 1 | 20.2945 | 0 | 20 | 101 | 70 | 130 |
| **1,1,2,2-Tetrachloroethane** | 1 | 20.5455 | 0 | 20 | 103 | 70 | 130 |
| **Styrene** | 1 | 19.5199 | 0 | 20 | 98 | 70 | 130 |
| **m&p-Xylenes** | 1 | 38.9242 | 0 | 40 | 97 | 70 | 130 |
| **o-Xylene** | 1 | 19.9241 | 0 | 20 | 100 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 20.3256 | 0 | 20 | 102 | 50 | 150 |
| **1,3-Dichlorobenzene** | 1 | 18.9131 | 0 | 20 | 95 | 70 | 130 |
| **1,4-Dichlorobenzene** | 1 | 19.0549 | 0 | 20 | 95 | 70 | 130 |
| **1,2-Dichlorobenzene** | 1 | 18.9214 | 0 | 20 | 95 | 70 | 130 |
| **Isopropylbenzene** | 1 | 20.5091 | 0 | 20 | 103 | 70 | 130 |
| Cyclohexanone | 1 | 87.7093 | 0 | 100 | 88 | 50 | 150 |
| Camphene | 1 | 22.4001 | 0 | 20 | 112 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 18.0852 | 0 | 20 | 90 | 70 | 130 |
| 2-Chlorotoluene | 1 | 20.16 | 0 | 20 | 101 | 70 | 130 |
| p-Ethyltoluene | 1 | 19.9819 | 0 | 20 | 100 | 70 | 130 |
| 4-Chlorotoluene | 1 | 19.1354 | 0 | 20 | 96 | 70 | 130 |
| n-Propylbenzene | 1 | 21.5953 | 0 | 20 | 108 | 70 | 130 |
| Bromobenzene | 1 | 19.9557 | 0 | 20 | 100 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 20.277 | 0 | 20 | 101 | 70 | 130 |
| Butyl methacrylate | 1 | 22.5659 | 0 | 20 | 113 | 70 | 130 |
| t-Butylbenzene | 1 | 20.4275 | 0 | 20 | 102 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 20.2247 | 0 | 20 | 101 | 70 | 130 |
| sec-Butylbenzene | 1 | 20.706 | 0 | 20 | 104 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 20.9519 | 0 | 20 | 105 | 70 | 130 |
| n-Butylbenzene | 1 | 21.6383 | 0 | 20 | 108 | 70 | 130 |
| p-Diethylbenzene | 1 | 20.8716 | 0 | 20 | 104 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 20.7117 | 0 | 20 | 104 | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | 1 | 19.7922 | 0 | 20 | 99 | 50 | 150 |
| Camphor | 1 | 198.5323 | 0 | 200 | 99 | 20 | 150 |
| Hexachlorobutadiene | 1 | 19.9108 | 0 | 20 | 100 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | 1 | 19.6651 | 0 | 20 | 98 | 70 | 130 |
| **1,2,3-Trichlorobenzene** | 1 | 21.1001 | 0 | 20 | 106 | 70 | 130 |
| Naphthalene | 1 | 21.1026 | 0 | 20 | 106 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: MBS96770

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152720.D | AD25889-018(T:MSD) | 9/21/2021 2:02:00 AM |
| Duplicate(If applicable): | 1M152719.D | AD25889-018(T:MS) | 9/21/2021 1:43:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | 13.0389 | 200* | 30 |
| **Dichlorodifluoromethane** | 1 | 5.2768 | 11.5986 | 75* | 30 |
| **Chloromethane** | 1 | 6.4319 | 11.4286 | 56* | 30 |
| **Bromomethane** | 1 | 9.4936 | 7.8549 | 19 | 30 |
| **Vinyl Chloride** | 1 | 16.827 | 9.7315 | 53* | 40 |
| **Chloroethane** | 1 | 20.4457 | 23.2689 | 13 | 30 |
| **Trichlorofluoromethane** | 1 | 19.3786 | 22.5795 | 15 | 30 |
| Ethyl ether | 1 | 20.4237 | 23.7746 | 15 | 30 |
| Furan | 1 | 19.9187 | 23.1737 | 15 | 30 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 0 | 0 | NA | 30 |
| **Methylene Chloride** | 1 | 23.5675 | 26.615 | 12 | 30 |
| Acrolein | 1 | 86.9766 | 94.3624 | 8.1 | 30 |
| Acrylonitrile | 1 | 23.1007 | 10.158 | 78* | 30 |
| Iodomethane | 1 | 12.7559 | 11.3153 | 12 | 30 |
| **Acetone** | 1 | 115.8646 | 131.3329 | 13 | 30 |
| **Carbon Disulfide** | 1 | 20.7351 | 24.4908 | 17 | 30 |
| t-Butyl Alcohol | 1 | 113.3382 | 124.2206 | 9.2 | 30 |
| n-Hexane | 1 | 23.4887 | 26.8896 | 14 | 30 |
| Di-isopropyl-ether | 1 | 22.458 | 25.8277 | 14 | 30 |
| **1,1-Dichloroethene** | 1 | 20.4325 | 23.7554 | 15 | 40 |
| **Methyl Acetate** | 1 | 22.2118 | 24.6918 | 11 | 30 |
| **Methyl-t-butyl ether** | 1 | 21.0171 | 23.6835 | 12 | 30 |
| **1,1-Dichloroethane** | 1 | 20.7153 | 23.2303 | 11 | 40 |
| **trans-1,2-Dichloroethene** | 1 | 19.8307 | 22.4055 | 12 | 30 |
| Ethyl-t-butyl ether | 1 | 21.6171 | 24.4099 | 12 | 30 |
| **cis-1,2-Dichloroethene** | 1 | 20.8571 | 23.1602 | 10 | 30 |
| **Bromochloromethane** | 1 | 20.5476 | 23.1172 | 12 | 30 |
| 2,2-Dichloropropane | 1 | 20.2132 | 22.7794 | 12 | 30 |
| Ethyl acetate | 1 | 27.4543 | 30.555 | 11 | 30 |
| **1,4-Dioxane** | 1 | 1108.418 | 1208.062 | 8.6 | 30 |
| 1,1-Dichloropropene | 1 | 20.3619 | 23.3529 | 14 | 30 |
| **Chloroform** | 1 | 20.1021 | 22.5977 | 12 | 40 |
| **Cyclohexane** | 1 | 23.0848 | 26.0054 | 12 | 30 |
| **1,2-Dichloroethane** | 1 | 20.1793 | 22.8421 | 12 | 40 |
| **2-Butanone** | 1 | 48.9989 | 54.5414 | 11 | 40 |
| **1,1,1-Trichloroethane** | 1 | 20.136 | 23.3056 | 15 | 30 |
| **Carbon Tetrachloride** | 1 | 19.0311 | 20.985 | 9.8 | 40 |
| Vinyl Acetate | 1 | 20.4376 | 23.3968 | 14 | 30 |
| **Bromodichloromethane** | 1 | 19.8998 | 22.0033 | 10 | 30 |
| **Methylcyclohexane** | 1 | 22.9303 | 25.4028 | 10 | 30 |
| Dibromomethane | 1 | 20.2857 | 21.8978 | 7.6 | 30 |
| **1,2-Dichloropropane** | 1 | 21.1768 | 23.5314 | 11 | 30 |
| **Trichloroethene** | 1 | 19.774 | 22.1268 | 11 | 40 |
| **Benzene** | 1 | 19.7312 | 22.5468 | 13 | 40 |
| tert-Amyl methyl ether | 1 | 20.3796 | 22.9544 | 12 | 30 |
| Iso-propylacetate | 1 | 22.5665 | 24.0647 | 6.4 | 30 |
| Methyl methacrylate | 1 | 23.0211 | 25.3935 | 9.8 | 30 |
| **Dibromochloromethane** | 1 | 18.6178 | 20.1929 | 8.1 | 30 |
| 2-Chloroethylvinylether | 1 | 20.5962 | 23.499 | 13 | 30 |
| **cis-1,3-Dichloropropene** | 1 | 19.2066 | 21.0405 | 9.1 | 30 |
| **trans-1,3-Dichloropropene** | 1 | 18.8894 | 20.6375 | 8.8 | 30 |
| Ethyl methacrylate | 1 | 22.6977 | 24.1814 | 6.3 | 30 |
| **1,1,2-Trichloroethane** | 1 | 19.605 | 21.8804 | 11 | 30 |
| **1,2-Dibromoethane** | 1 | 19.7913 | 21.6205 | 8.8 | 30 |
| 1,3-Dichloropropane | 1 | 19.6845 | 21.8493 | 10 | 30 |
| **4-Methyl-2-Pentanone** | 1 | 23.1679 | 24.2509 | 4.6 | 30 |
| **2-Hexanone** | 1 | 21.2015 | 24.8393 | 16 | 30 |
| **Tetrachloroethene** | 1 | 19.334 | 21.2957 | 9.7 | 40 |
| **Toluene** | 1 | 19.5503 | 21.7162 | 10 | 40 |
| 1,1,1,2-Tetrachloroethane | 1 | 18.8215 | 20.2475 | 7.3 | 30 |
| **Chlorobenzene** | 1 | 19.1887 | 21.4133 | 11 | 40 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: MBS96770

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 21.9823 | 20.5081 | 6.9 | 30 |
| n-Amyl acetate | 1 | 22.1141 | 25.5671 | 14 | 30 |
| **Bromoform** | **1** | **17.3375** | **18.6397** | **7.2** | **30** |
| **Ethylbenzene** | **1** | **20.2945** | **21.2157** | **4.4** | **30** |
| **1,1,2,2-Tetrachloroethane** | **1** | **20.5455** | **21.3407** | **3.8** | **30** |
| **Styrene** | **1** | **19.5199** | **20.7229** | **6** | **30** |
| **m&p-Xylenes** | **1** | **38.9242** | **42.7967** | **9.5** | **30** |
| **o-Xylene** | **1** | **19.9241** | **20.6675** | **3.7** | **30** |
| trans-1,4-Dichloro-2-butene | 1 | 20.3256 | 23.9089 | 16 | 30 |
| **1,3-Dichlorobenzene** | **1** | **18.9131** | **19.8816** | **5** | **30** |
| **1,4-Dichlorobenzene** | **1** | **19.0549** | **20.6181** | **7.9** | **40** |
| **1,2-Dichlorobenzene** | **1** | **18.9214** | **19.9887** | **5.5** | **40** |
| **Isopropylbenzene** | **1** | **20.5091** | **22.4491** | **9** | **30** |
| Cyclohexanone | 1 | 87.7093 | 108.6402 | 21 | 30 |
| Camphene | 1 | 22.4001 | 24.3612 | 8.4 | 30 |
| 1,2,3-Trichloropropane | 1 | 18.0852 | 19.681 | 8.5 | 30 |
| 2-Chlorotoluene | 1 | 20.16 | 21.2413 | 5.2 | 30 |
| p-Ethyltoluene | 1 | 19.9819 | 21.1747 | 5.8 | 30 |
| 4-Chlorotoluene | 1 | 19.1354 | 21.8336 | 13 | 30 |
| n-Propylbenzene | 1 | 21.5953 | 24.7312 | 14 | 40 |
| Bromobenzene | 1 | 19.9557 | 21.1679 | 5.9 | 30 |
| 1,3,5-Trimethylbenzene | 1 | 20.277 | 21.3351 | 5.1 | 30 |
| Butyl methacrylate | 1 | 22.5659 | 25.37 | 12 | 30 |
| t-Butylbenzene | 1 | 20.4275 | 21.2137 | 3.8 | 30 |
| 1,2,4-Trimethylbenzene | 1 | 20.2247 | 21.7297 | 7.2 | 30 |
| sec-Butylbenzene | 1 | 20.706 | 22.0667 | 6.4 | 40 |
| 4-Isopropyltoluene | 1 | 20.9519 | 21.6648 | 3.3 | 30 |
| n-Butylbenzene | 1 | 21.6383 | 23.8837 | 9.9 | 30 |
| p-Diethylbenzene | 1 | 20.8716 | 22.6819 | 8.3 | 30 |
| 1,2,4,5-Tetramethylbenzene | 1 | 20.7117 | 25.0194 | 19 | 30 |
| **1,2-Dibromo-3-Chloropropane** | **1** | **19.7922** | **20.8758** | **5.3** | **30** |
| Camphor | 1 | 198.5323 | 209.8279 | 5.5 | 30 |
| Hexachlorobutadiene | 1 | 19.9108 | 21.2479 | 6.5 | 30 |
| **1,2,4-Trichlorobenzene** | **1** | **19.6651** | **20.4887** | **4.1** | **30** |
| **1,2,3-Trichlorobenzene** | **1** | **21.1001** | **21.1494** | **0.23** | **30** |
| Naphthalene | 1 | 21.1026 | 22.2591 | 5.3 | 30 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96784

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152855.D | AD26083-042(MS:AD26083-040 | 9/22/2021 8:12:00 PM |
| Non Spike(If applicable): | 1M152892.D | AD26083-040 | 9/23/2021 7:26:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 34.8819 | 0 | 20 | 174* | 50 | 150 |
| Dichlorodifluoromethane | 1 | 33.799 | 0 | 20 | 169* | 50 | 150 |
| Chloromethane | 1 | 25.6994 | 0 | 20 | 128 | 50 | 150 |
| Bromomethane | 1 | 5.7677 | 0 | 20 | 29* | 50 | 150 |
| Vinyl Chloride | 1 | 14.5516 | 0 | 20 | 73 | 50 | 150 |
| Chloroethane | 1 | 12.5952 | 0 | 20 | 63 | 50 | 150 |
| Trichlorofluoromethane | 1 | 19.7553 | 0 | 20 | 99 | 50 | 150 |
| Ethyl ether | 1 | 47.6885 | 0 | 20 | 238* | 50 | 150 |
| Furan | 1 | 23.7385 | 0 | 20 | 119 | 50 | 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 16.4787 | 0 | 20 | 82 | 50 | 150 |
| Methylene Chloride | 1 | 17.2879 | 0 | 20 | 86 | 70 | 130 |
| Acrolein | 1 | 112.5401 | 0 | 100 | 113 | 50 | 150 |
| Acrylonitrile | 1 | 23.9829 | 0 | 20 | 120 | 50 | 150 |
| Iodomethane | 1 | 8.4472 | 0 | 20 | 42* | 50 | 150 |
| Acetone | 1 | 154.0586 | 25.1822 | 100 | 129 | 50 | 150 |
| Carbon Disulfide | 1 | 28.2637 | 0 | 20 | 141 | 50 | 150 |
| t-Butyl Alcohol | 1 | 246.3796 | 0 | 100 | 246* | 50 | 150 |
| n-Hexane | 1 | 15.3098 | 0 | 20 | 77 | 70 | 130 |
| Di-isopropyl-ether | 1 | 24.9374 | 0 | 20 | 125 | 70 | 130 |
| 1,1-Dichloroethene | 1 | 18.6672 | 0 | 20 | 93 | 70 | 130 |
| Methyl Acetate | 1 | 23.4406 | 0 | 20 | 117 | 50 | 150 |
| Methyl-t-butyl ether | 1 | 19.5292 | 1.0017 | 20 | 93 | 70 | 130 |
| 1,1-Dichloroethane | 1 | 20.051 | 0 | 20 | 100 | 70 | 130 |
| trans-1,2-Dichloroethene | 1 | 16.5059 | 0 | 20 | 83 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 20.9008 | 0 | 20 | 105 | 70 | 130 |
| cis-1,2-Dichloroethene | 1 | 18.5166 | 0 | 20 | 93 | 70 | 130 |
| Bromochloromethane | 1 | 21.6182 | 0 | 20 | 108 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 11.4108 | 0 | 20 | 57* | 70 | 130 |
| Ethyl acetate | 1 | 18.8897 | 0 | 20 | 94 | 50 | 150 |
| 1,4-Dioxane | 1 | 1026.385 | 101.6859 | 1000 | 92 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 17.0309 | 0 | 20 | 85 | 70 | 130 |
| Chloroform | 1 | 18.0651 | 0 | 20 | 90 | 70 | 130 |
| Cyclohexane | 1 | 17.9752 | 0 | 20 | 90 | 70 | 130 |
| 1,2-Dichloroethane | 1 | 18.7952 | 0 | 20 | 94 | 70 | 130 |
| 2-Butanone | 1 | 28.9936 | 0 | 20 | 145 | 50 | 150 |
| 1,1,1-Trichloroethane | 1 | 18.0495 | 0 | 20 | 90 | 70 | 130 |
| Carbon Tetrachloride | 1 | 15.1934 | 0 | 20 | 76 | 50 | 150 |
| Vinyl Acetate | 1 | 23.6448 | 0 | 20 | 118 | 50 | 150 |
| Bromodichloromethane | 1 | 17.399 | 0 | 20 | 87 | 70 | 130 |
| Methylcyclohexane | 1 | 12.9622 | 0 | 20 | 65* | 70 | 130 |
| Dibromomethane | 1 | 16.0828 | 0 | 20 | 80 | 70 | 130 |
| 1,2-Dichloropropane | 1 | 19.0836 | 0 | 20 | 95 | 70 | 130 |
| Trichloroethene | 1 | 16.133 | 0 | 20 | 81 | 70 | 130 |
| Benzene | 1 | 17.1638 | 0 | 20 | 86 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 16.9713 | 0 | 20 | 85 | 70 | 130 |
| Iso-propylacetate | 1 | 20.3851 | 0 | 20 | 102 | 70 | 130 |
| Methyl methacrylate | 1 | 20.5701 | 0 | 20 | 103 | 70 | 130 |
| Dibromochloromethane | 1 | 14.6309 | 0 | 20 | 73 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| cis-1,3-Dichloropropene | 1 | 13.6312 | 0 | 20 | 68* | 70 | 130 |
| trans-1,3-Dichloropropene | 1 | 13.3726 | 0 | 20 | 67* | 70 | 130 |
| Ethyl methacrylate | 1 | 19.7528 | 0 | 20 | 99 | 70 | 130 |
| 1,1,2-Trichloroethane | 1 | 16.1502 | 0 | 20 | 81 | 70 | 130 |
| 1,2-Dibromoethane | 1 | 15.1981 | 0 | 20 | 76 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 15.9652 | 0 | 20 | 80 | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 20.8971 | 0 | 20 | 104 | 50 | 150 |
| 2-Hexanone | 1 | 21.0918 | 0 | 20 | 105 | 50 | 150 |
| Tetrachloroethene | 1 | 14.5153 | 0 | 20 | 73 | 50 | 150 |
| Toluene | 1 | 15.5558 | 0 | 20 | 78 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 14.326 | 0 | 20 | 72 | 70 | 130 |
| Chlorobenzene | 1 | 15.2841 | 0 | 20 | 76 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96784

| Method: 8260D | Matrix: Aqueous | | Units: ug/L | QC Type: MS | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| n-Butyl acrylate | 1 | 17.5086 | 0 | 20 | 88 | 70 | 130 |
| n-Amyl acetate | 1 | 19.1235 | 0 | 20 | 96 | 70 | 130 |
| Bromoform | 1 | 13.7525 | 0 | 20 | 69* | 70 | 130 |
| Ethylbenzene | 1 | 15.3465 | 0 | 20 | 77 | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 1 | 16.2445 | 0 | 20 | 81 | 70 | 130 |
| Styrene | 1 | 14.4811 | 0 | 20 | 72 | 70 | 130 |
| m&p-Xylenes | 1 | 29.6205 | 0 | 40 | 74 | 70 | 130 |
| o-Xylene | 1 | 14.9742 | 0 | 20 | 75 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 7.3569 | 0 | 20 | 37* | 50 | 150 |
| 1,3-Dichlorobenzene | 1 | 14.3376 | 0 | 20 | 72 | 70 | 130 |
| 1,4-Dichlorobenzene | 1 | 14.3404 | 0 | 20 | 72 | 70 | 130 |
| 1,2-Dichlorobenzene | 1 | 14.4231 | 0 | 20 | 72 | 70 | 130 |
| Isopropylbenzene | 1 | 14.7816 | 0 | 20 | 74 | 70 | 130 |
| Cyclohexanone | 1 | 71.8617 | 0 | 100 | 72 | 50 | 150 |
| Camphene | 1 | 2.3761 | 0 | 20 | 12* | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 13.565 | 0 | 20 | 68* | 70 | 130 |
| 2-Chlorotoluene | 1 | 15.7975 | 0 | 20 | 79 | 70 | 130 |
| p-Ethyltoluene | 1 | 14.547 | 0 | 20 | 73 | 70 | 130 |
| 4-Chlorotoluene | 1 | 15.249 | 0 | 20 | 76 | 70 | 130 |
| n-Propylbenzene | 1 | 14.7037 | 0 | 20 | 74 | 70 | 130 |
| Bromobenzene | 1 | 13.6362 | 0 | 20 | 68* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 14.3174 | 0 | 20 | 72 | 70 | 130 |
| Butyl methacrylate | 1 | 20.2255 | 0 | 20 | 101 | 70 | 130 |
| t-Butylbenzene | 1 | 14.3455 | 0 | 20 | 72 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 14.4095 | 0 | 20 | 72 | 70 | 130 |
| sec-Butylbenzene | 1 | 14.2291 | 0 | 20 | 71 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 13.9319 | 0 | 20 | 70 | 70 | 130 |
| n-Butylbenzene | 1 | 14.7626 | 0 | 20 | 74 | 70 | 130 |
| p-Diethylbenzene | 1 | 12.933 | 0 | 20 | 65* | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 11.8071 | 0 | 20 | 59* | 70 | 130 |
| 1,2-Dibromo-3-Chloropropane | 1 | 15.5901 | 0 | 20 | 78 | 50 | 150 |
| Camphor | 1 | 182.1254 | 0 | 200 | 91 | 20 | 150 |
| Hexachlorobutadiene | 1 | 13.7963 | 0 | 20 | 69 | 50 | 150 |
| 1,2,4-Trichlorobenzene | 1 | 14.3896 | 0 | 20 | 72 | 70 | 130 |
| 1,2,3-Trichlorobenzene | 1 | 14.8139 | 0 | 20 | 74 | 70 | 130 |
| Naphthalene | 1 | 15.0783 | 0 | 20 | 75 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96784

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152856.D | AD26083-044(MSD:AD26083-0 | 9/22/2021 8:31:00 PM |
| Non Spike(If applicable): | 1M152892.D | AD26083-040 | 9/23/2021 7:26:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 33.6267 | 0 | 20 | 168* | 50 | 150 |
| Dichlorodifluoromethane | 1 | 31.1007 | 0 | 20 | 156* | 50 | 150 |
| Chloromethane | 1 | 25.4295 | 0 | 20 | 127 | 50 | 150 |
| Bromomethane | 1 | 6.0382 | 0 | 20 | 30* | 50 | 150 |
| Vinyl Chloride | 1 | 23.4708 | 0 | 20 | 117 | 50 | 150 |
| Chloroethane | 1 | 22.4981 | 0 | 20 | 112 | 50 | 150 |
| Trichlorofluoromethane | 1 | 18.47 | 0 | 20 | 92 | 50 | 150 |
| Ethyl ether | 1 | 44.0257 | 0 | 20 | 220* | 50 | 150 |
| Furan | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 15.1041 | 0 | 20 | 76 | 50 | 150 |
| Methylene Chloride | 1 | 16.0341 | 0 | 20 | 80 | 70 | 130 |
| Acrolein | 1 | 109.3152 | 0 | 100 | 109 | 50 | 150 |
| Acrylonitrile | 1 | 25.4496 | 0 | 20 | 127 | 50 | 150 |
| Iodomethane | 1 | 9.5393 | 0 | 20 | 48* | 50 | 150 |
| Acetone | 1 | 71.8528 | 25.1822 | 100 | 47* | 50 | 150 |
| Carbon Disulfide | 1 | 26.1445 | 0 | 20 | 131 | 50 | 150 |
| t-Butyl Alcohol | 1 | 255.6048 | 0 | 100 | 256* | 50 | 150 |
| n-Hexane | 1 | 14.8218 | 0 | 20 | 74 | 70 | 130 |
| Di-isopropyl-ether | 1 | 24.1482 | 0 | 20 | 121 | 70 | 130 |
| 1,1-Dichloroethene | 1 | 17.7561 | 0 | 20 | 89 | 70 | 130 |
| Methyl Acetate | 1 | 22.0021 | 0 | 20 | 110 | 50 | 150 |
| Methyl-t-butyl ether | 1 | 18.6693 | 1.0017 | 20 | 88 | 70 | 130 |
| 1,1-Dichloroethane | 1 | 18.6101 | 0 | 20 | 93 | 70 | 130 |
| trans-1,2-Dichloroethene | 1 | 15.6317 | 0 | 20 | 78 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 18.7963 | 0 | 20 | 94 | 70 | 130 |
| cis-1,2-Dichloroethene | 1 | 17.3271 | 0 | 20 | 87 | 70 | 130 |
| Bromochloromethane | 1 | 19.6495 | 0 | 20 | 98 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 10.8716 | 0 | 20 | 54* | 70 | 130 |
| Ethyl acetate | 1 | 14.6617 | 0 | 20 | 73 | 50 | 150 |
| 1,4-Dioxane | 1 | 1086.944 | 101.6859 | 1000 | 99 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 16.2251 | 0 | 20 | 81 | 70 | 130 |
| Chloroform | 1 | 16.7657 | 0 | 20 | 84 | 70 | 130 |
| Cyclohexane | 1 | 16.7875 | 0 | 20 | 84 | 70 | 130 |
| 1,2-Dichloroethane | 1 | 17.4164 | 0 | 20 | 87 | 70 | 130 |
| 2-Butanone | 1 | 22.4966 | 0 | 20 | 112 | 50 | 150 |
| 1,1,1-Trichloroethane | 1 | 16.8188 | 0 | 20 | 84 | 70 | 130 |
| Carbon Tetrachloride | 1 | 13.8447 | 0 | 20 | 69 | 50 | 150 |
| Vinyl Acetate | 1 | 22.669 | 0 | 20 | 113 | 50 | 150 |
| Bromodichloromethane | 1 | 16.0271 | 0 | 20 | 80 | 70 | 130 |
| Methylcyclohexane | 1 | 12.4177 | 0 | 20 | 62* | 70 | 130 |
| Dibromomethane | 1 | 14.9799 | 0 | 20 | 75 | 70 | 130 |
| 1,2-Dichloropropane | 1 | 18.2204 | 0 | 20 | 91 | 70 | 130 |
| Trichloroethene | 1 | 15.0273 | 0 | 20 | 75 | 70 | 130 |
| Benzene | 1 | 16.163 | 0 | 20 | 81 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 16.6162 | 0 | 20 | 83 | 70 | 130 |
| Iso-propylacetate | 1 | 20.4762 | 0 | 20 | 102 | 70 | 130 |
| Methyl methacrylate | 1 | 19.6667 | 0 | 20 | 98 | 70 | 130 |
| Dibromochloromethane | 1 | 13.8861 | 0 | 20 | 69* | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| cis-1,3-Dichloropropene | 1 | 13.2344 | 0 | 20 | 66* | 70 | 130 |
| trans-1,3-Dichloropropene | 1 | 12.9221 | 0 | 20 | 65* | 70 | 130 |
| Ethyl methacrylate | 1 | 21.3148 | 0 | 20 | 107 | 70 | 130 |
| 1,1,2-Trichloroethane | 1 | 14.8647 | 0 | 20 | 74 | 70 | 130 |
| 1,2-Dibromoethane | 1 | 15.0204 | 0 | 20 | 75 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 15.7441 | 0 | 20 | 79 | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 20.9548 | 0 | 20 | 105 | 50 | 150 |
| 2-Hexanone | 1 | 21.9793 | 0 | 20 | 110 | 50 | 150 |
| Tetrachloroethene | 1 | 13.9151 | 0 | 20 | 70 | 50 | 150 |
| Toluene | 1 | 15.2486 | 0 | 20 | 76 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 14.4123 | 0 | 20 | 72 | 70 | 130 |
| Chlorobenzene | 1 | 15.3568 | 0 | 20 | 77 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96784

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 17.5667 | 0 | 20 | 88 | 70 | 130 |
| n-Amyl acetate | 1 | 19.6903 | 0 | 20 | 98 | 70 | 130 |
| Bromoform | 1 | 13.2938 | 0 | 20 | 66* | 70 | 130 |
| Ethylbenzene | 1 | 15.312 | 0 | 20 | 77 | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 1 | 16.7064 | 0 | 20 | 84 | 70 | 130 |
| Styrene | 1 | 14.0759 | 0 | 20 | 70 | 70 | 130 |
| m&p-Xylenes | 1 | 29.4985 | 0 | 40 | 74 | 70 | 130 |
| o-Xylene | 1 | 15.0143 | 0 | 20 | 75 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 7.4952 | 0 | 20 | 37* | 50 | 150 |
| 1,3-Dichlorobenzene | 1 | 14.029 | 0 | 20 | 70 | 70 | 130 |
| 1,4-Dichlorobenzene | 1 | 14.2861 | 0 | 20 | 71 | 70 | 130 |
| 1,2-Dichlorobenzene | 1 | 14.2532 | 0 | 20 | 71 | 70 | 130 |
| Isopropylbenzene | 1 | 14.7599 | 0 | 20 | 74 | 70 | 130 |
| Cyclohexanone | 1 | 88.8203 | 0 | 100 | 89 | 50 | 150 |
| Camphene | 1 | 2.426 | 0 | 20 | 12* | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 13.8799 | 0 | 20 | 69* | 70 | 130 |
| 2-Chlorotoluene | 1 | 15.6579 | 0 | 20 | 78 | 70 | 130 |
| p-Ethyltoluene | 1 | 14.4685 | 0 | 20 | 72 | 70 | 130 |
| 4-Chlorotoluene | 1 | 14.9698 | 0 | 20 | 75 | 70 | 130 |
| n-Propylbenzene | 1 | 14.8065 | 0 | 20 | 74 | 70 | 130 |
| Bromobenzene | 1 | 13.8395 | 0 | 20 | 69* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 14.831 | 0 | 20 | 74 | 70 | 130 |
| Butyl methacrylate | 1 | 20.1904 | 0 | 20 | 101 | 70 | 130 |
| t-Butylbenzene | 1 | 14.2803 | 0 | 20 | 71 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 14.3044 | 0 | 20 | 72 | 70 | 130 |
| sec-Butylbenzene | 1 | 14.024 | 0 | 20 | 70 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 13.7037 | 0 | 20 | 69* | 70 | 130 |
| n-Butylbenzene | 1 | 14.4715 | 0 | 20 | 72 | 70 | 130 |
| p-Diethylbenzene | 1 | 13.7725 | 0 | 20 | 69* | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 11.9753 | 0 | 20 | 60* | 70 | 130 |
| 1,2-Dibromo-3-Chloropropane | 1 | 16.3803 | 0 | 20 | 82 | 50 | 150 |
| Camphor | 1 | 179.8545 | 0 | 200 | 90 | 20 | 150 |
| Hexachlorobutadiene | 1 | 13.3479 | 0 | 20 | 67 | 50 | 150 |
| 1,2,4-Trichlorobenzene | 1 | 14.1514 | 0 | 20 | 71 | 70 | 130 |
| 1,2,3-Trichlorobenzene | 1 | 15.4686 | 0 | 20 | 77 | 70 | 130 |
| Naphthalene | 1 | 16.0247 | 0 | 20 | 80 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: MBS96784

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152856.D | AD26083-044(MSD:AD26083-0 | 9/22/2021 8:31:00 PM |
| Duplicate(If applicable): | 1M152855.D | AD26083-042(MS:AD26083-040 | 9/22/2021 8:12:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 33.6267 | 34.8819 | 3.7 | 30 |
| Dichlorodifluoromethane | 1 | 31.1007 | 33.799 | 8.3 | 30 |
| Chloromethane | 1 | 25.4295 | 25.6994 | 1.1 | 30 |
| Bromomethane | 1 | 6.0382 | 5.7677 | 4.6 | 30 |
| Vinyl Chloride | 1 | 23.4708 | 14.5516 | 47* | 40 |
| Chloroethane | 1 | 22.4981 | 12.5952 | 56* | 30 |
| Trichlorofluoromethane | 1 | 18.47 | 19.7553 | 6.7 | 30 |
| Ethyl ether | 1 | 44.0257 | 47.6885 | 8 | 30 |
| Furan | 1 | 0 | 23.7385 | 200* | 30 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 15.1041 | 16.4787 | 8.7 | 30 |
| Methylene Chloride | 1 | 16.0341 | 17.2879 | 7.5 | 30 |
| Acrolein | 1 | 109.3152 | 112.5401 | 2.9 | 30 |
| Acrylonitrile | 1 | 25.4496 | 23.9829 | 5.9 | 30 |
| Iodomethane | 1 | 9.5393 | 8.4472 | 12 | 30 |
| Acetone | 1 | 71.8528 | 154.0586 | 73* | 30 |
| Carbon Disulfide | 1 | 26.1445 | 28.2637 | 7.8 | 30 |
| t-Butyl Alcohol | 1 | 255.6048 | 246.3796 | 3.7 | 30 |
| n-Hexane | 1 | 14.8218 | 15.3098 | 3.2 | 30 |
| Di-isopropyl-ether | 1 | 24.1482 | 24.9374 | 3.2 | 30 |
| 1,1-Dichloroethene | 1 | 17.7561 | 18.6672 | 5 | 40 |
| Methyl Acetate | 1 | 22.0021 | 23.4406 | 6.3 | 30 |
| Methyl-t-butyl ether | 1 | 18.6693 | 19.5292 | 4.5 | 30 |
| 1,1-Dichloroethane | 1 | 18.6101 | 20.051 | 7.5 | 40 |
| trans-1,2-Dichloroethene | 1 | 15.6317 | 16.5059 | 5.4 | 30 |
| Ethyl-t-butyl ether | 1 | 18.7963 | 20.9008 | 11 | 30 |
| cis-1,2-Dichloroethene | 1 | 17.3271 | 18.5166 | 6.6 | 30 |
| Bromochloromethane | 1 | 19.6495 | 21.6182 | 9.5 | 30 |
| 2,2-Dichloropropane | 1 | 10.8716 | 11.4108 | 4.8 | 30 |
| Ethyl acetate | 1 | 14.6617 | 18.8897 | 25 | 30 |
| 1,4-Dioxane | 1 | 1086.944 | 1026.385 | 5.7 | 30 |
| 1,1-Dichloropropene | 1 | 16.2251 | 17.0309 | 4.8 | 30 |
| Chloroform | 1 | 16.7657 | 18.0651 | 7.5 | 40 |
| Cyclohexane | 1 | 16.7875 | 17.9752 | 6.8 | 30 |
| 1,2-Dichloroethane | 1 | 17.4164 | 18.7952 | 7.6 | 40 |
| 2-Butanone | 1 | 22.4966 | 28.9936 | 25 | 40 |
| 1,1,1-Trichloroethane | 1 | 16.8188 | 18.0495 | 7.1 | 30 |
| Carbon Tetrachloride | 1 | 13.8447 | 15.1934 | 9.3 | 40 |
| Vinyl Acetate | 1 | 22.669 | 23.6448 | 4.2 | 30 |
| Bromodichloromethane | 1 | 16.0271 | 17.399 | 8.2 | 30 |
| Methylcyclohexane | 1 | 12.4177 | 12.9622 | 4.3 | 30 |
| Dibromomethane | 1 | 14.9799 | 16.0828 | 7.1 | 30 |
| 1,2-Dichloropropane | 1 | 18.2204 | 19.0836 | 4.6 | 30 |
| Trichloroethene | 1 | 15.0273 | 16.133 | 7.1 | 40 |
| Benzene | 1 | 16.163 | 17.1638 | 6 | 40 |
| tert-Amyl methyl ether | 1 | 16.6162 | 16.9713 | 2.1 | 30 |
| Iso-propylacetate | 1 | 20.4762 | 20.3851 | 0.45 | 30 |
| Methyl methacrylate | 1 | 19.6667 | 20.5701 | 4.5 | 30 |
| Dibromochloromethane | 1 | 13.8861 | 14.6309 | 5.2 | 30 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | NA | 30 |
| cis-1,3-Dichloropropene | 1 | 13.2344 | 13.6312 | 3 | 30 |
| trans-1,3-Dichloropropene | 1 | 12.9221 | 13.3726 | 3.4 | 30 |
| Ethyl methacrylate | 1 | 21.3148 | 19.7528 | 7.6 | 30 |
| 1,1,2-Trichloroethane | 1 | 14.8647 | 16.1502 | 8.3 | 30 |
| 1,2-Dibromoethane | 1 | 15.0204 | 15.1981 | 1.2 | 30 |
| 1,3-Dichloropropane | 1 | 15.7441 | 15.9652 | 1.4 | 30 |
| 4-Methyl-2-Pentanone | 1 | 20.9548 | 20.8971 | 0.28 | 30 |
| 2-Hexanone | 1 | 21.9793 | 21.0918 | 4.1 | 30 |
| Tetrachloroethene | 1 | 13.9151 | 14.5153 | 4.2 | 40 |
| Toluene | 1 | 15.2486 | 15.5558 | 2 | 40 |
| 1,1,1,2-Tetrachloroethane | 1 | 14.4123 | 14.326 | 0.6 | 30 |
| Chlorobenzene | 1 | 15.3568 | 15.2841 | 0.47 | 40 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits

**QC Batch: MBS96784**

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 17.5667 | 17.5086 | 0.33 | 30 |
| n-Amyl acetate | 1 | 19.6903 | 19.1235 | 2.9 | 30 |
| Bromoform | 1 | 13.2938 | 13.7525 | 3.4 | 30 |
| Ethylbenzene | 1 | 15.312 | 15.3465 | 0.23 | 30 |
| 1,1,2,2-Tetrachloroethane | 1 | 16.7064 | 16.2445 | 2.8 | 30 |
| Styrene | 1 | 14.0759 | 14.4811 | 2.8 | 30 |
| m&p-Xylenes | 1 | 29.4985 | 29.6205 | 0.41 | 30 |
| o-Xylene | 1 | 15.0143 | 14.9742 | 0.27 | 30 |
| trans-1,4-Dichloro-2-butene | 1 | 7.4952 | 7.3569 | 1.9 | 30 |
| 1,3-Dichlorobenzene | 1 | 14.029 | 14.3376 | 2.2 | 30 |
| 1,4-Dichlorobenzene | 1 | 14.2861 | 14.3404 | 0.38 | 40 |
| 1,2-Dichlorobenzene | 1 | 14.2532 | 14.4231 | 1.2 | 40 |
| Isopropylbenzene | 1 | 14.7599 | 14.7816 | 0.15 | 30 |
| Cyclohexanone | 1 | 88.8203 | 71.8617 | 21 | 30 |
| Camphene | 1 | 2.426 | 2.3761 | 2.1 | 30 |
| 1,2,3-Trichloropropane | 1 | 13.8799 | 13.565 | 2.3 | 30 |
| 2-Chlorotoluene | 1 | 15.6579 | 15.7975 | 0.89 | 30 |
| p-Ethyltoluene | 1 | 14.4685 | 14.547 | 0.54 | 30 |
| 4-Chlorotoluene | 1 | 14.9698 | 15.249 | 1.8 | 30 |
| n-Propylbenzene | 1 | 14.8065 | 14.7037 | 0.7 | 40 |
| Bromobenzene | 1 | 13.8395 | 13.6362 | 1.5 | 30 |
| 1,3,5-Trimethylbenzene | 1 | 14.831 | 14.3174 | 3.5 | 30 |
| Butyl methacrylate | 1 | 20.1904 | 20.2255 | 0.17 | 30 |
| t-Butylbenzene | 1 | 14.2803 | 14.3455 | 0.46 | 30 |
| 1,2,4-Trimethylbenzene | 1 | 14.3044 | 14.4095 | 0.73 | 30 |
| sec-Butylbenzene | 1 | 14.024 | 14.2291 | 1.5 | 40 |
| 4-Isopropyltoluene | 1 | 13.7037 | 13.9319 | 1.7 | 30 |
| n-Butylbenzene | 1 | 14.4715 | 14.7626 | 2 | 30 |
| p-Diethylbenzene | 1 | 13.7725 | 12.933 | 6.3 | 30 |
| 1,2,4,5-Tetramethylbenzene | 1 | 11.9753 | 11.8071 | 1.4 | 30 |
| 1,2-Dibromo-3-Chloropropane | 1 | 16.3803 | 15.5901 | 4.9 | 30 |
| Camphor | 1 | 179.8545 | 182.1254 | 1.3 | 30 |
| Hexachlorobutadiene | 1 | 13.3479 | 13.7963 | 3.3 | 30 |
| 1,2,4-Trichlorobenzene | 1 | 14.1514 | 14.3896 | 1.7 | 30 |
| 1,2,3-Trichlorobenzene | 1 | 15.4686 | 14.8139 | 4.3 | 30 |
| Naphthalene | 1 | 16.0247 | 15.0783 | 6.1 | 30 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96787

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 2M157125.D | AD26083-049(MS:AD26083-048 | 9/22/2021 4:51:00 PM |
| Non Spike(If applicable): | 2M157124.D | AD26083-048 | 9/22/2021 4:32:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 14.2058 | 0 | 20 | 71 | 50 | 150 |
| Dichlorodifluoromethane | 1 | 37.8605 | 0 | 20 | 189* | 50 | 150 |
| Chloromethane | 1 | 18.4756 | 0 | 20 | 92 | 50 | 150 |
| Bromomethane | 1 | 5.3689 | 0 | 20 | 27* | 50 | 150 |
| Vinyl Chloride | 1 | 19.9301 | 0 | 20 | 100 | 50 | 150 |
| Chloroethane | 1 | 18.3664 | 0 | 20 | 92 | 50 | 150 |
| Trichlorofluoromethane | 1 | 19.8891 | 0 | 20 | 99 | 50 | 150 |
| Ethyl ether | 1 | 16.4224 | 0 | 20 | 82 | 50 | 150 |
| Furan | 1 | 14.9563 | 0 | 20 | 75 | 50 | 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 19.4108 | 0 | 20 | 97 | 50 | 150 |
| Methylene Chloride | 1 | 16.9212 | 0 | 20 | 85 | 70 | 130 |
| Acrolein | 1 | 63.2807 | 0 | 100 | 63 | 50 | 150 |
| Acrylonitrile | 1 | 15.2524 | 0 | 20 | 76 | 50 | 150 |
| Iodomethane | 1 | 12.7076 | 0 | 20 | 64 | 50 | 150 |
| Acetone | 1 | 74.5505 | 0 | 100 | 75 | 50 | 150 |
| Carbon Disulfide | 1 | 16.9369 | 0 | 20 | 85 | 50 | 150 |
| t-Butyl Alcohol | 1 | 71.419 | 0 | 100 | 71 | 50 | 150 |
| n-Hexane | 1 | 13.2533 | 0 | 20 | 66* | 70 | 130 |
| Di-isopropyl-ether | 1 | 15.3605 | 0 | 20 | 77 | 70 | 130 |
| 1,1-Dichloroethene | 1 | 15.6608 | 0 | 20 | 78 | 70 | 130 |
| Methyl Acetate | 1 | 12.6023 | 0 | 20 | 63 | 50 | 150 |
| Methyl-t-butyl ether | 1 | 15.2747 | 0 | 20 | 76 | 70 | 130 |
| 1,1-Dichloroethane | 1 | 15.9727 | 0 | 20 | 80 | 70 | 130 |
| trans-1,2-Dichloroethene | 1 | 18.3884 | 0 | 20 | 92 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 14.777 | 0 | 20 | 74 | 70 | 130 |
| cis-1,2-Dichloroethene | 1 | 15.0621 | 0 | 20 | 75 | 70 | 130 |
| Bromochloromethane | 1 | 16.7927 | 0 | 20 | 84 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 10.2248 | 0 | 20 | 51* | 70 | 130 |
| Ethyl acetate | 1 | 13.0789 | 0 | 20 | 65 | 50 | 150 |
| 1,4-Dioxane | 1 | 876.1692 | 0 | 1000 | 88 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 17.3398 | 0 | 20 | 87 | 70 | 130 |
| Chloroform | 1 | 18.249 | 0 | 20 | 91 | 70 | 130 |
| Cyclohexane | 1 | 16.127 | 0 | 20 | 81 | 70 | 130 |
| 1,2-Dichloroethane | 1 | 15.7958 | 0 | 20 | 79 | 70 | 130 |
| 2-Butanone | 1 | 14.2469 | 0 | 20 | 71 | 50 | 150 |
| 1,1,1-Trichloroethane | 1 | 19.5699 | 0 | 20 | 98 | 70 | 130 |
| Carbon Tetrachloride | 1 | 19.271 | 0 | 20 | 96 | 50 | 150 |
| Vinyl Acetate | 1 | 13.1855 | 0 | 20 | 66 | 50 | 150 |
| Bromodichloromethane | 1 | 17.2009 | 0 | 20 | 86 | 70 | 130 |
| Methylcyclohexane | 1 | 17.0488 | 0 | 20 | 85 | 70 | 130 |
| Dibromomethane | 1 | 24.7012 | 0 | 20 | 124 | 70 | 130 |
| 1,2-Dichloropropane | 1 | 16.6015 | 0 | 20 | 83 | 70 | 130 |
| Trichloroethene | 1 | 22.347 | 0 | 20 | 112 | 70 | 130 |
| Benzene | 1 | 16.9653 | 0 | 20 | 85 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 15.5185 | 0 | 20 | 78 | 70 | 130 |
| Iso-propylacetate | 1 | 10.6231 | 0 | 20 | 53* | 70 | 130 |
| Methyl methacrylate | 1 | 12.4486 | 0 | 20 | 62* | 70 | 130 |
| Dibromochloromethane | 1 | 16.8353 | 0 | 20 | 84 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| cis-1,3-Dichloropropene | 1 | 11.8305 | 0 | 20 | 59* | 70 | 130 |
| trans-1,3-Dichloropropene | 1 | 11.8464 | 0 | 20 | 59* | 70 | 130 |
| Ethyl methacrylate | 1 | 12.5931 | 0 | 20 | 63* | 70 | 130 |
| 1,1,2-Trichloroethane | 1 | 15.2957 | 0 | 20 | 76 | 70 | 130 |
| 1,2-Dibromoethane | 1 | 16.1677 | 0 | 20 | 81 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 14.3253 | 0 | 20 | 72 | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 13.242 | 0 | 20 | 66 | 50 | 150 |
| 2-Hexanone | 1 | 13.1779 | 0 | 20 | 66 | 50 | 150 |
| Tetrachloroethene | 1 | 21.3138 | 0 | 20 | 107 | 50 | 150 |
| Toluene | 1 | 15.5519 | 0 | 20 | 78 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 18.0803 | 0 | 20 | 90 | 70 | 130 |
| Chlorobenzene | 1 | 17.1418 | 0 | 20 | 86 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96787

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 9.7472 | 0 | 20 | 49* | 70 | 130 |
| n-Amyl acetate | 1 | 8.5093 | 0 | 20 | 43* | 70 | 130 |
| Bromoform | 1 | 14.1773 | 0 | 20 | 71 | 70 | 130 |
| Ethylbenzene | 1 | 12.8175 | 0 | 20 | 64* | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 1 | 12.5888 | 0 | 20 | 63* | 70 | 130 |
| Styrene | 1 | 12.8877 | 0 | 20 | 64* | 70 | 130 |
| m&p-Xylenes | 1 | 26.6471 | 0 | 40 | 67* | 70 | 130 |
| o-Xylene | 1 | 13.5995 | 0 | 20 | 68* | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 5.0436 | 0 | 20 | 25* | 50 | 150 |
| 1,3-Dichlorobenzene | 1 | 15.4797 | 0 | 20 | 77 | 70 | 130 |
| 1,4-Dichlorobenzene | 1 | 15.3639 | 0 | 20 | 77 | 70 | 130 |
| 1,2-Dichlorobenzene | 1 | 15.1771 | 0 | 20 | 76 | 70 | 130 |
| Isopropylbenzene | 1 | 13.8024 | 0 | 20 | 69* | 70 | 130 |
| Cyclohexanone | 1 | 43.8259 | 0 | 100 | 44* | 50 | 150 |
| Camphene | 1 | 2.2611 | 0 | 20 | 11* | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 10.1309 | 0 | 20 | 51* | 70 | 130 |
| 2-Chlorotoluene | 1 | 12.7164 | 0 | 20 | 64* | 70 | 130 |
| p-Ethyltoluene | 1 | 13.839 | 0 | 20 | 69* | 70 | 130 |
| 4-Chlorotoluene | 1 | 12.2213 | 0 | 20 | 61* | 70 | 130 |
| n-Propylbenzene | 1 | 12.9445 | 0 | 20 | 65* | 70 | 130 |
| Bromobenzene | 1 | 10.5953 | 0 | 20 | 53* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 13.1451 | 0 | 20 | 66* | 70 | 130 |
| Butyl methacrylate | 1 | 10.2523 | 0 | 20 | 51* | 70 | 130 |
| t-Butylbenzene | 1 | 14.3766 | 0 | 20 | 72 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 12.8313 | 0 | 20 | 64* | 70 | 130 |
| sec-Butylbenzene | 1 | 13.6014 | 0 | 20 | 68* | 70 | 130 |
| 4-Isopropyltoluene | 1 | 14.266 | 0 | 20 | 71 | 70 | 130 |
| n-Butylbenzene | 1 | 12.3961 | 0 | 20 | 62* | 70 | 130 |
| p-Diethylbenzene | 1 | 13.3618 | 0 | 20 | 67* | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 11.9591 | 0 | 20 | 60* | 70 | 130 |
| 1,2-Dibromo-3-Chloropropane | 1 | 13.8727 | 0 | 20 | 69 | 50 | 150 |
| Camphor | 1 | 126.7695 | 0 | 200 | 63 | 20 | 150 |
| Hexachlorobutadiene | 1 | 18.1118 | 0 | 20 | 91 | 50 | 150 |
| 1,2,4-Trichlorobenzene | 1 | 15.909 | 0 | 20 | 80 | 70 | 130 |
| 1,2,3-Trichlorobenzene | 1 | 14.8433 | 0 | 20 | 74 | 70 | 130 |
| Naphthalene | 1 | 12.5643 | 0 | 20 | 63 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96787

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 2M157126.D | AD26083-050(MSD:AD26083-0 | 9/22/2021 5:10:00 PM |
| Non Spike(If applicable): | 2M157124.D | AD26083-048 | 9/22/2021 4:32:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 13.8388 | 0 | 20 | 69 | 50 | 150 |
| Dichlorodifluoromethane | 1 | 36.1387 | 0 | 20 | 181* | 50 | 150 |
| Chloromethane | 1 | 17.9161 | 0 | 20 | 90 | 50 | 150 |
| Bromomethane | 1 | 5.3183 | 0 | 20 | 27* | 50 | 150 |
| Vinyl Chloride | 1 | 18.6302 | 0 | 20 | 93 | 50 | 150 |
| Chloroethane | 1 | 18.5234 | 0 | 20 | 93 | 50 | 150 |
| Trichlorofluoromethane | 1 | 19.5363 | 0 | 20 | 98 | 50 | 150 |
| Ethyl ether | 1 | 16.0488 | 0 | 20 | 80 | 50 | 150 |
| Furan | 1 | 14.4074 | 0 | 20 | 72 | 50 | 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 18.5441 | 0 | 20 | 93 | 50 | 150 |
| Methylene Chloride | 1 | 15.5787 | 0 | 20 | 78 | 70 | 130 |
| Acrolein | 1 | 63.1224 | 0 | 100 | 63 | 50 | 150 |
| Acrylonitrile | 1 | 15.0558 | 0 | 20 | 75 | 50 | 150 |
| Iodomethane | 1 | 13.9498 | 0 | 20 | 70 | 50 | 150 |
| Acetone | 1 | 74.9361 | 0 | 100 | 75 | 50 | 150 |
| Carbon Disulfide | 1 | 14.9235 | 0 | 20 | 75 | 50 | 150 |
| t-Butyl Alcohol | 1 | 81.4792 | 0 | 100 | 81 | 50 | 150 |
| n-Hexane | 1 | 13.5103 | 0 | 20 | 68* | 70 | 130 |
| Di-isopropyl-ether | 1 | 14.6511 | 0 | 20 | 73 | 70 | 130 |
| 1,1-Dichloroethene | 1 | 14.6064 | 0 | 20 | 73 | 70 | 130 |
| Methyl Acetate | 1 | 12.1884 | 0 | 20 | 61 | 50 | 150 |
| Methyl-t-butyl ether | 1 | 14.8929 | 0 | 20 | 74 | 70 | 130 |
| 1,1-Dichloroethane | 1 | 15.2144 | 0 | 20 | 76 | 70 | 130 |
| trans-1,2-Dichloroethene | 1 | 16.7615 | 0 | 20 | 84 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 14.1248 | 0 | 20 | 71 | 70 | 130 |
| cis-1,2-Dichloroethene | 1 | 14.2066 | 0 | 20 | 71 | 70 | 130 |
| Bromochloromethane | 1 | 15.6231 | 0 | 20 | 78 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 9.7424 | 0 | 20 | 49* | 70 | 130 |
| Ethyl acetate | 1 | 12.8955 | 0 | 20 | 64 | 50 | 150 |
| 1,4-Dioxane | 1 | 968.1134 | 0 | 1000 | 97 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 15.8554 | 0 | 20 | 79 | 70 | 130 |
| Chloroform | 1 | 17.4529 | 0 | 20 | 87 | 70 | 130 |
| Cyclohexane | 1 | 15.7586 | 0 | 20 | 79 | 70 | 130 |
| 1,2-Dichloroethane | 1 | 15.2777 | 0 | 20 | 76 | 70 | 130 |
| 2-Butanone | 1 | 14.0543 | 0 | 20 | 70 | 50 | 150 |
| 1,1,1-Trichloroethane | 1 | 18.1601 | 0 | 20 | 91 | 70 | 130 |
| Carbon Tetrachloride | 1 | 18.4131 | 0 | 20 | 92 | 50 | 150 |
| Vinyl Acetate | 1 | 12.6406 | 0 | 20 | 63 | 50 | 150 |
| Bromodichloromethane | 1 | 16.5643 | 0 | 20 | 83 | 70 | 130 |
| Methylcyclohexane | 1 | 17.4564 | 0 | 20 | 87 | 70 | 130 |
| Dibromomethane | 1 | 23.9211 | 0 | 20 | 120 | 70 | 130 |
| 1,2-Dichloropropane | 1 | 15.9531 | 0 | 20 | 80 | 70 | 130 |
| Trichloroethene | 1 | 21.4618 | 0 | 20 | 107 | 70 | 130 |
| Benzene | 1 | 16.1884 | 0 | 20 | 81 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 14.8005 | 0 | 20 | 74 | 70 | 130 |
| Iso-propylacetate | 1 | 10.4314 | 0 | 20 | 52* | 70 | 130 |
| Methyl methacrylate | 1 | 12.7686 | 0 | 20 | 64* | 70 | 130 |
| Dibromochloromethane | 1 | 16.1172 | 0 | 20 | 81 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| cis-1,3-Dichloropropene | 1 | 11.315 | 0 | 20 | 57* | 70 | 130 |
| trans-1,3-Dichloropropene | 1 | 11.4766 | 0 | 20 | 57* | 70 | 130 |
| Ethyl methacrylate | 1 | 11.919 | 0 | 20 | 60* | 70 | 130 |
| 1,1,2-Trichloroethane | 1 | 14.8366 | 0 | 20 | 74 | 70 | 130 |
| 1,2-Dibromoethane | 1 | 15.2367 | 0 | 20 | 76 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 13.4411 | 0 | 20 | 67* | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 12.6919 | 0 | 20 | 63 | 50 | 150 |
| 2-Hexanone | 1 | 12.589 | 0 | 20 | 63 | 50 | 150 |
| Tetrachloroethene | 1 | 20.2342 | 0 | 20 | 101 | 50 | 150 |
| Toluene | 1 | 14.8686 | 0 | 20 | 74 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 16.6241 | 0 | 20 | 83 | 70 | 130 |
| Chlorobenzene | 1 | 16.4084 | 0 | 20 | 82 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96787

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 9.7145 | 0 | 20 | 49* | 70 | 130 |
| n-Amyl acetate | 1 | 8.1144 | 0 | 20 | 41* | 70 | 130 |
| Bromoform | 1 | 13.2981 | 0 | 20 | 66* | 70 | 130 |
| Ethylbenzene | 1 | 12.9571 | 0 | 20 | 65* | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 1 | 11.4841 | 0 | 20 | 57* | 70 | 130 |
| Styrene | 1 | 12.4504 | 0 | 20 | 62* | 70 | 130 |
| m&p-Xylenes | 1 | 25.5704 | 0 | 40 | 64* | 70 | 130 |
| o-Xylene | 1 | 13.166 | 0 | 20 | 66* | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 5.3287 | 0 | 20 | 27* | 50 | 150 |
| 1,3-Dichlorobenzene | 1 | 15.4186 | 0 | 20 | 77 | 70 | 130 |
| 1,4-Dichlorobenzene | 1 | 15.2207 | 0 | 20 | 76 | 70 | 130 |
| 1,2-Dichlorobenzene | 1 | 15.1407 | 0 | 20 | 76 | 70 | 130 |
| Isopropylbenzene | 1 | 13.6377 | 0 | 20 | 68* | 70 | 130 |
| Cyclohexanone | 1 | 44.5709 | 0 | 100 | 45* | 50 | 150 |
| Camphene | 1 | 2.3173 | 0 | 20 | 12* | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 10.0368 | 0 | 20 | 50* | 70 | 130 |
| 2-Chlorotoluene | 1 | 12.4191 | 0 | 20 | 62* | 70 | 130 |
| p-Ethyltoluene | 1 | 14.0091 | 0 | 20 | 70 | 70 | 130 |
| 4-Chlorotoluene | 1 | 11.6748 | 0 | 20 | 58* | 70 | 130 |
| n-Propylbenzene | 1 | 12.9056 | 0 | 20 | 65* | 70 | 130 |
| Bromobenzene | 1 | 10.2716 | 0 | 20 | 51* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 12.8632 | 0 | 20 | 64* | 70 | 130 |
| Butyl methacrylate | 1 | 10.1345 | 0 | 20 | 51* | 70 | 130 |
| t-Butylbenzene | 1 | 14.3945 | 0 | 20 | 72 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 13.2255 | 0 | 20 | 66* | 70 | 130 |
| sec-Butylbenzene | 1 | 13.6244 | 0 | 20 | 68* | 70 | 130 |
| 4-Isopropyltoluene | 1 | 14.4233 | 0 | 20 | 72 | 70 | 130 |
| n-Butylbenzene | 1 | 12.5629 | 0 | 20 | 63* | 70 | 130 |
| p-Diethylbenzene | 1 | 13.7077 | 0 | 20 | 69* | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 12.2071 | 0 | 20 | 61* | 70 | 130 |
| 1,2-Dibromo-3-Chloropropane | 1 | 14.5752 | 0 | 20 | 73 | 50 | 150 |
| Camphor | 1 | 140.0018 | 0 | 200 | 70 | 20 | 150 |
| Hexachlorobutadiene | 1 | 16.8933 | 0 | 20 | 84 | 50 | 150 |
| 1,2,4-Trichlorobenzene | 1 | 16.971 | 0 | 20 | 85 | 70 | 130 |
| 1,2,3-Trichlorobenzene | 1 | 16.8742 | 0 | 20 | 84 | 70 | 130 |
| Naphthalene | 1 | 14.0228 | 0 | 20 | 70 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: MBS96787

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 2M157126.D | AD26083-050(MSD:AD26083-0 | 9/22/2021 5:10:00 PM |
| Duplicate(If applicable): | 2M157125.D | AD26083-049(MS:AD26083-048 | 9/22/2021 4:51:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 13.8388 | 14.2058 | 2.6 | 30 |
| Dichlorodifluoromethane | 1 | 36.1387 | 37.8605 | 4.7 | 30 |
| Chloromethane | 1 | 17.9161 | 18.4756 | 3.1 | 30 |
| Bromomethane | 1 | 5.3183 | 5.3689 | 0.95 | 30 |
| Vinyl Chloride | 1 | 18.6302 | 19.9301 | 6.7 | 40 |
| Chloroethane | 1 | 18.5234 | 18.3664 | 0.85 | 30 |
| Trichlorofluoromethane | 1 | 19.5363 | 19.8891 | 1.8 | 30 |
| Ethyl ether | 1 | 16.0488 | 16.4224 | 2.3 | 30 |
| Furan | 1 | 14.4074 | 14.9563 | 3.7 | 30 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 18.5441 | 19.4108 | 4.6 | 30 |
| Methylene Chloride | 1 | 15.5787 | 16.9212 | 8.3 | 30 |
| Acrolein | 1 | 63.1224 | 63.2807 | 0.25 | 30 |
| Acrylonitrile | 1 | 15.0558 | 15.2524 | 1.3 | 30 |
| Iodomethane | 1 | 13.9498 | 12.7076 | 9.3 | 30 |
| Acetone | 1 | 74.9361 | 74.5505 | 0.52 | 30 |
| Carbon Disulfide | 1 | 14.9235 | 16.9369 | 13 | 30 |
| t-Butyl Alcohol | 1 | 81.4792 | 71.419 | 13 | 30 |
| n-Hexane | 1 | 13.5103 | 13.2533 | 1.9 | 30 |
| Di-isopropyl-ether | 1 | 14.6511 | 15.3605 | 4.7 | 30 |
| 1,1-Dichloroethene | 1 | 14.6064 | 15.6608 | 7 | 40 |
| Methyl Acetate | 1 | 12.1884 | 12.6023 | 3.3 | 30 |
| Methyl-t-butyl ether | 1 | 14.8929 | 15.2747 | 2.5 | 30 |
| 1,1-Dichloroethane | 1 | 15.2144 | 15.9727 | 4.9 | 40 |
| trans-1,2-Dichloroethene | 1 | 16.7615 | 18.3884 | 9.3 | 30 |
| Ethyl-t-butyl ether | 1 | 14.1248 | 14.777 | 4.5 | 30 |
| cis-1,2-Dichloroethene | 1 | 14.2066 | 15.0621 | 5.8 | 30 |
| Bromochloromethane | 1 | 15.6231 | 16.7927 | 7.2 | 30 |
| 2,2-Dichloropropane | 1 | 9.7424 | 10.2248 | 4.8 | 30 |
| Ethyl acetate | 1 | 12.8955 | 13.0789 | 1.4 | 30 |
| 1,4-Dioxane | 1 | 968.1134 | 876.1692 | 10 | 30 |
| 1,1-Dichloropropene | 1 | 15.8554 | 17.3398 | 8.9 | 30 |
| Chloroform | 1 | 17.4529 | 18.249 | 4.5 | 40 |
| Cyclohexane | 1 | 15.7586 | 16.127 | 2.3 | 30 |
| 1,2-Dichloroethane | 1 | 15.2777 | 15.7958 | 3.3 | 40 |
| 2-Butanone | 1 | 14.0543 | 14.2469 | 1.4 | 40 |
| 1,1,1-Trichloroethane | 1 | 18.1601 | 19.5699 | 7.5 | 30 |
| Carbon Tetrachloride | 1 | 18.4131 | 19.271 | 4.6 | 40 |
| Vinyl Acetate | 1 | 12.6406 | 13.1855 | 4.2 | 30 |
| Bromodichloromethane | 1 | 16.5643 | 17.2009 | 3.8 | 30 |
| Methylcyclohexane | 1 | 17.4564 | 17.0488 | 2.4 | 30 |
| Dibromomethane | 1 | 23.9211 | 24.7012 | 3.2 | 30 |
| 1,2-Dichloropropane | 1 | 15.9531 | 16.6015 | 4 | 30 |
| Trichloroethene | 1 | 21.4618 | 22.347 | 4 | 40 |
| Benzene | 1 | 16.1884 | 16.9653 | 4.7 | 40 |
| tert-Amyl methyl ether | 1 | 14.8005 | 15.5185 | 4.7 | 30 |
| Iso-propylacetate | 1 | 10.4314 | 10.6231 | 1.8 | 30 |
| Methyl methacrylate | 1 | 12.7686 | 12.4486 | 2.5 | 30 |
| Dibromochloromethane | 1 | 16.1172 | 16.8353 | 4.4 | 30 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | NA | 30 |
| cis-1,3-Dichloropropene | 1 | 11.315 | 11.8305 | 4.5 | 30 |
| trans-1,3-Dichloropropene | 1 | 11.4766 | 11.8464 | 3.2 | 30 |
| Ethyl methacrylate | 1 | 11.919 | 12.5931 | 5.5 | 30 |
| 1,1,2-Trichloroethane | 1 | 14.8366 | 15.2957 | 3 | 30 |
| 1,2-Dibromoethane | 1 | 15.2367 | 16.1677 | 5.9 | 30 |
| 1,3-Dichloropropane | 1 | 13.4411 | 14.3253 | 6.4 | 30 |
| 4-Methyl-2-Pentanone | 1 | 12.6919 | 13.242 | 4.2 | 30 |
| 2-Hexanone | 1 | 12.589 | 13.1779 | 4.6 | 30 |
| Tetrachloroethene | 1 | 20.2342 | 21.3138 | 5.2 | 40 |
| Toluene | 1 | 14.8686 | 15.5519 | 4.5 | 40 |
| 1,1,1,2-Tetrachloroethane | 1 | 16.6241 | 18.0803 | 8.4 | 30 |
| Chlorobenzene | 1 | 16.4084 | 17.1418 | 4.4 | 40 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: MBS96787

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 9.7145 | 9.7472 | 0.34 | 30 |
| n-Amyl acetate | 1 | 8.1144 | 8.5093 | 4.8 | 30 |
| Bromoform | 1 | 13.2981 | 14.1773 | 6.4 | 30 |
| Ethylbenzene | 1 | 12.9571 | 12.8175 | 1.1 | 30 |
| 1,1,2,2-Tetrachloroethane | 1 | 11.4841 | 12.5888 | 9.2 | 30 |
| Styrene | 1 | 12.4504 | 12.8877 | 3.5 | 30 |
| m&p-Xylenes | 1 | 25.5704 | 26.6471 | 4.1 | 30 |
| o-Xylene | 1 | 13.166 | 13.5995 | 3.2 | 30 |
| trans-1,4-Dichloro-2-butene | 1 | 5.3287 | 5.0436 | 5.5 | 30 |
| 1,3-Dichlorobenzene | 1 | 15.4186 | 15.4797 | 0.4 | 30 |
| 1,4-Dichlorobenzene | 1 | 15.2207 | 15.3639 | 0.94 | 40 |
| 1,2-Dichlorobenzene | 1 | 15.1407 | 15.1771 | 0.24 | 40 |
| Isopropylbenzene | 1 | 13.6377 | 13.8024 | 1.2 | 30 |
| Cyclohexanone | 1 | 44.5709 | 43.8259 | 1.7 | 30 |
| Camphene | 1 | 2.3173 | 2.2611 | 2.5 | 30 |
| 1,2,3-Trichloropropane | 1 | 10.0368 | 10.1309 | 0.93 | 30 |
| 2-Chlorotoluene | 1 | 12.4191 | 12.7164 | 2.4 | 30 |
| p-Ethyltoluene | 1 | 14.0091 | 13.839 | 1.2 | 30 |
| 4-Chlorotoluene | 1 | 11.6748 | 12.2213 | 4.6 | 30 |
| n-Propylbenzene | 1 | 12.9056 | 12.9445 | 0.3 | 40 |
| Bromobenzene | 1 | 10.2716 | 10.5953 | 3.1 | 30 |
| 1,3,5-Trimethylbenzene | 1 | 12.8632 | 13.1451 | 2.2 | 30 |
| Butyl methacrylate | 1 | 10.1345 | 10.2523 | 1.2 | 30 |
| t-Butylbenzene | 1 | 14.3945 | 14.3766 | 0.12 | 30 |
| 1,2,4-Trimethylbenzene | 1 | 13.2255 | 12.8313 | 3 | 30 |
| sec-Butylbenzene | 1 | 13.6244 | 13.6014 | 0.17 | 40 |
| 4-Isopropyltoluene | 1 | 14.4233 | 14.266 | 1.1 | 30 |
| n-Butylbenzene | 1 | 12.5629 | 12.3961 | 1.3 | 30 |
| p-Diethylbenzene | 1 | 13.7077 | 13.3618 | 2.6 | 30 |
| 1,2,4,5-Tetramethylbenzene | 1 | 12.2071 | 11.9591 | 2.1 | 30 |
| 1,2-Dibromo-3-Chloropropane | 1 | 14.5752 | 13.8727 | 4.9 | 30 |
| Camphor | 1 | 140.0018 | 126.7695 | 9.9 | 30 |
| Hexachlorobutadiene | 1 | 16.8933 | 18.1118 | 7 | 30 |
| 1,2,4-Trichlorobenzene | 1 | 16.971 | 15.909 | 6.5 | 30 |
| 1,2,3-Trichlorobenzene | 1 | 16.8742 | 14.8433 | 13 | 30 |
| Naphthalene | 1 | 14.0228 | 12.5643 | 11 | 30 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96792

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152876.D | AD26083-008(MS) | 9/23/2021 2:26:00 AM |
| Non Spike(If applicable): | 1M152896.D | AD26083-008 | 9/23/2021 8:41:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| Dichlorodifluoromethane | 1 | 55.6145 | 0 | 20 | 278* | 50 | 150 |
| Chloromethane | 1 | 35.0963 | 0 | 20 | 175* | 50 | 150 |
| Bromomethane | 1 | 8.0031 | 0 | 20 | 40* | 50 | 150 |
| Vinyl Chloride | 1 | 33.7838 | 0 | 20 | 169* | 50 | 150 |
| Chloroethane | 1 | 29.1206 | 0 | 20 | 146 | 50 | 150 |
| Trichlorofluoromethane | 1 | 28.6393 | 0 | 20 | 143 | 50 | 150 |
| Ethyl ether | 1 | 26.1221 | 0 | 20 | 131 | 50 | 150 |
| Furan | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| Methylene Chloride | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| Acrolein | 1 | 160.4081 | 0 | 100 | 160* | 50 | 150 |
| Acrylonitrile | 1 | 31.0007 | 0 | 20 | 155* | 50 | 150 |
| Iodomethane | 1 | 12.6804 | 0 | 20 | 63 | 50 | 150 |
| Acetone | 1 | 89.6703 | 0 | 100 | 90 | 50 | 150 |
| Carbon Disulfide | 1 | 33.8224 | 0 | 20 | 169* | 50 | 150 |
| t-Butyl Alcohol | 1 | 141.9782 | 0 | 100 | 142 | 50 | 150 |
| n-Hexane | 1 | 34.2904 | 0 | 20 | 171* | 70 | 130 |
| Di-isopropyl-ether | 1 | 31.1993 | 0 | 20 | 156* | 70 | 130 |
| 1,1-Dichloroethene | 1 | 24.5198 | 0 | 20 | 123 | 70 | 130 |
| Methyl Acetate | 1 | 30.9465 | 0 | 20 | 155* | 50 | 150 |
| Methyl-t-butyl ether | 1 | 24.1875 | 0 | 20 | 121 | 70 | 130 |
| 1,1-Dichloroethane | 1 | 25.5025 | 0 | 20 | 128 | 70 | 130 |
| trans-1,2-Dichloroethene | 1 | 21.5474 | 0 | 20 | 108 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 23.6822 | 0 | 20 | 118 | 70 | 130 |
| cis-1,2-Dichloroethene | 1 | 24.1266 | 0 | 20 | 121 | 70 | 130 |
| Bromochloromethane | 1 | 27.4238 | 0 | 20 | 137* | 70 | 130 |
| 2,2-Dichloropropane | 1 | 23.5207 | 0 | 20 | 118 | 70 | 130 |
| Ethyl acetate | 1 | 36.5629 | 0 | 20 | 183* | 50 | 150 |
| 1,4-Dioxane | 1 | 1211.787 | 0 | 1000 | 121 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 23.1584 | 0 | 20 | 116 | 70 | 130 |
| Chloroform | 1 | 23.4067 | 0 | 20 | 117 | 70 | 130 |
| Cyclohexane | 1 | 29.3096 | 0 | 20 | 147* | 70 | 130 |
| 1,2-Dichloroethane | 1 | 24.2183 | 0 | 20 | 121 | 70 | 130 |
| 2-Butanone | 1 | 65.2854 | 0 | 20 | 326* | 50 | 150 |
| 1,1,1-Trichloroethane | 1 | 23.8566 | 0 | 20 | 119 | 70 | 130 |
| Carbon Tetrachloride | 1 | 20.964 | 0 | 20 | 105 | 50 | 150 |
| Vinyl Acetate | 1 | 31.5018 | 0 | 20 | 158* | 50 | 150 |
| Bromodichloromethane | 1 | 22.6647 | 0 | 20 | 113 | 70 | 130 |
| Methylcyclohexane | 1 | 24.5778 | 0 | 20 | 123 | 70 | 130 |
| Dibromomethane | 1 | 21.0285 | 0 | 20 | 105 | 70 | 130 |
| 1,2-Dichloropropane | 1 | 24.0943 | 0 | 20 | 120 | 70 | 130 |
| Trichloroethene | 1 | 20.5423 | 0 | 20 | 103 | 70 | 130 |
| Benzene | 1 | 21.6593 | 0 | 20 | 108 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 22.1794 | 0 | 20 | 111 | 70 | 130 |
| Iso-propylacetate | 1 | 26.4516 | 0 | 20 | 132* | 70 | 130 |
| Methyl methacrylate | 1 | 25.7027 | 0 | 20 | 129 | 70 | 130 |
| Dibromochloromethane | 1 | 19.4112 | 0 | 20 | 97 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| cis-1,3-Dichloropropene | 1 | 19.714 | 0 | 20 | 99 | 70 | 130 |
| trans-1,3-Dichloropropene | 1 | 19.8566 | 0 | 20 | 99 | 70 | 130 |
| Ethyl methacrylate | 1 | 26.9952 | 0 | 20 | 135* | 70 | 130 |
| 1,1,2-Trichloroethane | 1 | 20.6515 | 0 | 20 | 103 | 70 | 130 |
| 1,2-Dibromoethane | 1 | 19.9719 | 0 | 20 | 100 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 20.6734 | 0 | 20 | 103 | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 25.4427 | 0 | 20 | 127 | 50 | 150 |
| 2-Hexanone | 1 | 26.0651 | 0 | 20 | 130 | 50 | 150 |
| Tetrachloroethene | 1 | 18.8447 | 0 | 20 | 94 | 50 | 150 |
| Toluene | 1 | 19.748 | 0 | 20 | 99 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 19.556 | 0 | 20 | 98 | 70 | 130 |
| Chlorobenzene | 1 | 19.6889 | 0 | 20 | 98 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96792

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 23.255 | 0 | 20 | 116 | 70 | 130 |
| n-Amyl acetate | 1 | 25.9326 | 0 | 20 | 130 | 70 | 130 |
| Bromoform | 1 | 17.2332 | 0 | 20 | 86 | 70 | 130 |
| Ethylbenzene | 1 | 20.6472 | 0 | 20 | 103 | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 1 | 21.1968 | 0 | 20 | 106 | 70 | 130 |
| Styrene | 1 | 19.1382 | 0 | 20 | 96 | 70 | 130 |
| m&p-Xylenes | 1 | 39.2874 | 0 | 40 | 98 | 70 | 130 |
| o-Xylene | 1 | 19.7507 | 0 | 20 | 99 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 16.4821 | 0 | 20 | 82 | 50 | 150 |
| 1,3-Dichlorobenzene | 1 | 18.9908 | 0 | 20 | 95 | 70 | 130 |
| 1,4-Dichlorobenzene | 1 | 19.3478 | 0 | 20 | 97 | 70 | 130 |
| 1,2-Dichlorobenzene | 1 | 18.8441 | 0 | 20 | 94 | 70 | 130 |
| Isopropylbenzene | 1 | 20.1156 | 0 | 20 | 101 | 70 | 130 |
| Cyclohexanone | 1 | 99.8646 | 0 | 100 | 100 | 50 | 150 |
| Camphene | 1 | 12.4486 | 0 | 20 | 62* | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 18.7065 | 0 | 20 | 94 | 70 | 130 |
| 2-Chlorotoluene | 1 | 20.3134 | 0 | 20 | 102 | 70 | 130 |
| p-Ethyltoluene | 1 | 19.7586 | 0 | 20 | 99 | 70 | 130 |
| 4-Chlorotoluene | 1 | 19.8353 | 0 | 20 | 99 | 70 | 130 |
| n-Propylbenzene | 1 | 20.2599 | 0 | 20 | 101 | 70 | 130 |
| Bromobenzene | 1 | 20.704 | 0 | 20 | 104 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 19.6991 | 0 | 20 | 98 | 70 | 130 |
| Butyl methacrylate | 1 | 26.5506 | 0 | 20 | 133* | 70 | 130 |
| t-Butylbenzene | 1 | 19.232 | 0 | 20 | 96 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 19.5023 | 0 | 20 | 98 | 70 | 130 |
| sec-Butylbenzene | 1 | 19.6958 | 0 | 20 | 98 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 19.3184 | 0 | 20 | 97 | 70 | 130 |
| n-Butylbenzene | 1 | 20.8205 | 0 | 20 | 104 | 70 | 130 |
| p-Diethylbenzene | 1 | 19.3859 | 0 | 20 | 97 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 16.4648 | 0 | 20 | 82 | 70 | 130 |
| 1,2-Dibromo-3-Chloropropane | 1 | 20.6668 | 0 | 20 | 103 | 50 | 150 |
| Camphor | 1 | 180.7884 | 0 | 200 | 90 | 20 | 150 |
| Hexachlorobutadiene | 1 | 20.4459 | 0 | 20 | 102 | 50 | 150 |
| 1,2,4-Trichlorobenzene | 1 | 18.2374 | 0 | 20 | 91 | 70 | 130 |
| 1,2,3-Trichlorobenzene | 1 | 20.4744 | 0 | 20 | 102 | 70 | 130 |
| Naphthalene | 1 | 19.5155 | 0 | 20 | 98 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96792

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152877.D | AD26083-008(MSD) | 9/23/2021 2:44:00 AM |
| Non Spike(If applicable): | 1M152896.D | AD26083-008 | 9/23/2021 8:41:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| Dichlorodifluoromethane | 1 | 51.9201 | 0 | 20 | 260* | 50 | 150 |
| Chloromethane | 1 | 31.8534 | 0 | 20 | 159* | 50 | 150 |
| Bromomethane | 1 | 14.92 | 0 | 20 | 75 | 50 | 150 |
| Vinyl Chloride | 1 | 30.9298 | 0 | 20 | 155* | 50 | 150 |
| Chloroethane | 1 | 27.8228 | 0 | 20 | 139 | 50 | 150 |
| Trichlorofluoromethane | 1 | 12.6738 | 0 | 20 | 63 | 50 | 150 |
| Ethyl ether | 1 | 24.308 | 0 | 20 | 122 | 50 | 150 |
| Furan | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| Methylene Chloride | 1 | 20.7946 | 0 | 20 | 104 | 70 | 130 |
| Acrolein | 1 | 69.3736 | 0 | 100 | 69 | 50 | 150 |
| Acrylonitrile | 1 | 30.3395 | 0 | 20 | 152* | 50 | 150 |
| Iodomethane | 1 | 13.8284 | 0 | 20 | 69 | 50 | 150 |
| Acetone | 1 | 161.8939 | 0 | 100 | 162* | 50 | 150 |
| Carbon Disulfide | 1 | 30.1238 | 0 | 20 | 151* | 50 | 150 |
| t-Butyl Alcohol | 1 | 146.1395 | 0 | 100 | 146 | 50 | 150 |
| n-Hexane | 1 | 32.1831 | 0 | 20 | 161* | 70 | 130 |
| Di-isopropyl-ether | 1 | 29.4301 | 0 | 20 | 147* | 70 | 130 |
| 1,1-Dichloroethene | 1 | 22.5019 | 0 | 20 | 113 | 70 | 130 |
| Methyl Acetate | 1 | 29.2923 | 0 | 20 | 146 | 50 | 150 |
| Methyl-t-butyl ether | 1 | 22.9307 | 0 | 20 | 115 | 70 | 130 |
| 1,1-Dichloroethane | 1 | 23.3331 | 0 | 20 | 117 | 70 | 130 |
| trans-1,2-Dichloroethene | 1 | 19.5757 | 0 | 20 | 98 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 24.1984 | 0 | 20 | 121 | 70 | 130 |
| cis-1,2-Dichloroethene | 1 | 23.5664 | 0 | 20 | 118 | 70 | 130 |
| Bromochloromethane | 1 | 30.6168 | 0 | 20 | 153* | 70 | 130 |
| 2,2-Dichloropropane | 1 | 22.0727 | 0 | 20 | 110 | 70 | 130 |
| Ethyl acetate | 1 | 39.2016 | 0 | 20 | 196* | 50 | 150 |
| 1,4-Dioxane | 1 | 1153.395 | 0 | 1000 | 115 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 21.4231 | 0 | 20 | 107 | 70 | 130 |
| Chloroform | 1 | 21.4643 | 0 | 20 | 107 | 70 | 130 |
| Cyclohexane | 1 | 27.7882 | 0 | 20 | 139* | 70 | 130 |
| 1,2-Dichloroethane | 1 | 22.985 | 0 | 20 | 115 | 70 | 130 |
| 2-Butanone | 1 | 70.0063 | 0 | 20 | 350* | 50 | 150 |
| 1,1,1-Trichloroethane | 1 | 21.637 | 0 | 20 | 108 | 70 | 130 |
| Carbon Tetrachloride | 1 | 20.6672 | 0 | 20 | 103 | 50 | 150 |
| Vinyl Acetate | 1 | 29.3366 | 0 | 20 | 147 | 50 | 150 |
| Bromodichloromethane | 1 | 21.4662 | 0 | 20 | 107 | 70 | 130 |
| Methylcyclohexane | 1 | 23.1238 | 0 | 20 | 116 | 70 | 130 |
| Dibromomethane | 1 | 19.841 | 0 | 20 | 99 | 70 | 130 |
| 1,2-Dichloropropane | 1 | 22.7555 | 0 | 20 | 114 | 70 | 130 |
| Trichloroethene | 1 | 19.3266 | 0 | 20 | 97 | 70 | 130 |
| Benzene | 1 | 19.888 | 0 | 20 | 99 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 20.8362 | 0 | 20 | 104 | 70 | 130 |
| Iso-propylacetate | 1 | 27.2146 | 0 | 20 | 136* | 70 | 130 |
| Methyl methacrylate | 1 | 23.265 | 0 | 20 | 116 | 70 | 130 |
| Dibromochloromethane | 1 | 17.5908 | 0 | 20 | 88 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| cis-1,3-Dichloropropene | 1 | 18.8659 | 0 | 20 | 94 | 70 | 130 |
| trans-1,3-Dichloropropene | 1 | 18.4615 | 0 | 20 | 92 | 70 | 130 |
| Ethyl methacrylate | 1 | 26.9265 | 0 | 20 | 135* | 70 | 130 |
| 1,1,2-Trichloroethane | 1 | 19.1795 | 0 | 20 | 96 | 70 | 130 |
| 1,2-Dibromoethane | 1 | 19.2157 | 0 | 20 | 96 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 20.3322 | 0 | 20 | 102 | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 27.2767 | 0 | 20 | 136 | 50 | 150 |
| 2-Hexanone | 1 | 26.161 | 0 | 20 | 131 | 50 | 150 |
| Tetrachloroethene | 1 | 17.9674 | 0 | 20 | 90 | 50 | 150 |
| Toluene | 1 | 18.6307 | 0 | 20 | 93 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 17.5086 | 0 | 20 | 88 | 70 | 130 |
| Chlorobenzene | 1 | 18.916 | 0 | 20 | 95 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96792

| Method: 8260D | Matrix: Aqueous | | Units: ug/L | QC Type: MSD | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| n-Butyl acrylate | 1 | 22.3487 | 0 | 20 | 112 | 70 | 130 |
| n-Amyl acetate | 1 | 24.8623 | 0 | 20 | 124 | 70 | 130 |
| Bromoform | 1 | 17.3181 | 0 | 20 | 87 | 70 | 130 |
| Ethylbenzene | 1 | 18.6983 | 0 | 20 | 93 | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 1 | 20.2878 | 0 | 20 | 101 | 70 | 130 |
| Styrene | 1 | 18.6908 | 0 | 20 | 93 | 70 | 130 |
| m&p-Xylenes | 1 | 37.902 | 0 | 40 | 95 | 70 | 130 |
| o-Xylene | 1 | 18.7572 | 0 | 20 | 94 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 16.1593 | 0 | 20 | 81 | 50 | 150 |
| 1,3-Dichlorobenzene | 1 | 17.9981 | 0 | 20 | 90 | 70 | 130 |
| 1,4-Dichlorobenzene | 1 | 18.0203 | 0 | 20 | 90 | 70 | 130 |
| 1,2-Dichlorobenzene | 1 | 18.038 | 0 | 20 | 90 | 70 | 130 |
| Isopropylbenzene | 1 | 18.8753 | 0 | 20 | 94 | 70 | 130 |
| Cyclohexanone | 1 | 98.646 | 0 | 100 | 99 | 50 | 150 |
| Camphene | 1 | 10.2556 | 0 | 20 | 51 * | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 18.1251 | 0 | 20 | 91 | 70 | 130 |
| 2-Chlorotoluene | 1 | 19.0907 | 0 | 20 | 95 | 70 | 130 |
| p-Ethyltoluene | 1 | 18.5686 | 0 | 20 | 93 | 70 | 130 |
| 4-Chlorotoluene | 1 | 18.8559 | 0 | 20 | 94 | 70 | 130 |
| n-Propylbenzene | 1 | 19.4498 | 0 | 20 | 97 | 70 | 130 |
| Bromobenzene | 1 | 18.4139 | 0 | 20 | 92 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 18.9715 | 0 | 20 | 95 | 70 | 130 |
| Butyl methacrylate | 1 | 25.3271 | 0 | 20 | 127 | 70 | 130 |
| t-Butylbenzene | 1 | 18.7223 | 0 | 20 | 94 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 18.3695 | 0 | 20 | 92 | 70 | 130 |
| sec-Butylbenzene | 1 | 19.2185 | 0 | 20 | 96 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 18.5916 | 0 | 20 | 93 | 70 | 130 |
| n-Butylbenzene | 1 | 20.3115 | 0 | 20 | 102 | 70 | 130 |
| p-Diethylbenzene | 1 | 18.4186 | 0 | 20 | 92 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 15.7979 | 0 | 20 | 79 | 70 | 130 |
| 1,2-Dibromo-3-Chloropropane | 1 | 18.377 | 0 | 20 | 92 | 50 | 150 |
| Camphor | 1 | 182.6739 | 0 | 200 | 91 | 20 | 150 |
| Hexachlorobutadiene | 1 | 18.7756 | 0 | 20 | 94 | 50 | 150 |
| 1,2,4-Trichlorobenzene | 1 | 18.8208 | 0 | 20 | 94 | 70 | 130 |
| 1,2,3-Trichlorobenzene | 1 | 20.6585 | 0 | 20 | 103 | 70 | 130 |
| Naphthalene | 1 | 19.626 | 0 | 20 | 98 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: MBS96792

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152877.D | AD26083-008(MSD) | 9/23/2021 2:44:00 AM |
| Duplicate(If applicable): | 1M152876.D | AD26083-008(MS) | 9/23/2021 2:26:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | 0 | NA | 30 |
| Dichlorodifluoromethane | 1 | 51.9201 | 55.6145 | 6.9 | 30 |
| Chloromethane | 1 | 31.8534 | 35.0963 | 9.7 | 30 |
| Bromomethane | 1 | 14.92 | 8.0031 | 60* | 30 |
| Vinyl Chloride | 1 | 30.9298 | 33.7838 | 8.8 | 40 |
| Chloroethane | 1 | 27.8228 | 29.1206 | 4.6 | 30 |
| Trichlorofluoromethane | 1 | 12.6738 | 28.6393 | 77* | 30 |
| Ethyl ether | 1 | 24.308 | 26.1221 | 7.2 | 30 |
| Furan | 1 | 0 | 0 | NA | 30 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 0 | 0 | NA | 30 |
| Methylene Chloride | 1 | 20.7946 | 0 | 200* | 30 |
| Acrolein | 1 | 69.3736 | 160.4081 | 79* | 30 |
| Acrylonitrile | 1 | 30.3395 | 31.0007 | 2.2 | 30 |
| Iodomethane | 1 | 13.8284 | 12.6804 | 8.7 | 30 |
| Acetone | 1 | 161.8939 | 89.6703 | 57* | 30 |
| Carbon Disulfide | 1 | 30.1238 | 33.8224 | 12 | 30 |
| t-Butyl Alcohol | 1 | 146.1395 | 141.9782 | 2.9 | 30 |
| n-Hexane | 1 | 32.1831 | 34.2904 | 6.3 | 30 |
| Di-isopropyl-ether | 1 | 29.4301 | 31.1993 | 5.8 | 30 |
| 1,1-Dichloroethene | 1 | 22.5019 | 24.5198 | 8.6 | 40 |
| Methyl Acetate | 1 | 29.2923 | 30.9465 | 5.5 | 30 |
| Methyl-t-butyl ether | 1 | 22.9307 | 24.1875 | 5.3 | 30 |
| 1,1-Dichloroethane | 1 | 23.3331 | 25.5025 | 8.9 | 40 |
| trans-1,2-Dichloroethene | 1 | 19.5757 | 21.5474 | 9.6 | 30 |
| Ethyl-t-butyl ether | 1 | 24.1984 | 23.6822 | 2.2 | 30 |
| cis-1,2-Dichloroethene | 1 | 23.5664 | 24.1266 | 2.3 | 30 |
| Bromochloromethane | 1 | 30.6168 | 27.4238 | 11 | 30 |
| 2,2-Dichloropropane | 1 | 22.0727 | 23.5207 | 6.4 | 30 |
| Ethyl acetate | 1 | 39.2016 | 36.5629 | 7 | 30 |
| 1,4-Dioxane | 1 | 1153.395 | 1211.787 | 4.9 | 30 |
| 1,1-Dichloropropene | 1 | 21.4231 | 23.1584 | 7.8 | 30 |
| Chloroform | 1 | 21.4643 | 23.4067 | 8.7 | 40 |
| Cyclohexane | 1 | 27.7882 | 29.3096 | 5.3 | 30 |
| 1,2-Dichloroethane | 1 | 22.985 | 24.2183 | 5.2 | 40 |
| 2-Butanone | 1 | 70.0063 | 65.2854 | 7 | 40 |
| 1,1,1-Trichloroethane | 1 | 21.637 | 23.8566 | 9.8 | 30 |
| Carbon Tetrachloride | 1 | 20.6672 | 20.964 | 1.4 | 40 |
| Vinyl Acetate | 1 | 29.3366 | 31.5018 | 7.1 | 30 |
| Bromodichloromethane | 1 | 21.4662 | 22.6647 | 5.4 | 30 |
| Methylcyclohexane | 1 | 23.1238 | 24.5778 | 6.1 | 30 |
| Dibromomethane | 1 | 19.841 | 21.0285 | 5.8 | 30 |
| 1,2-Dichloropropane | 1 | 22.7555 | 24.0943 | 5.7 | 30 |
| Trichloroethene | 1 | 19.3266 | 20.5423 | 6.1 | 40 |
| Benzene | 1 | 19.888 | 21.6593 | 8.5 | 40 |
| tert-Amyl methyl ether | 1 | 20.8362 | 22.1794 | 6.2 | 30 |
| Iso-propylacetate | 1 | 27.2146 | 26.4516 | 2.8 | 30 |
| Methyl methacrylate | 1 | 23.265 | 25.7027 | 10 | 30 |
| Dibromochloromethane | 1 | 17.5908 | 19.4112 | 9.8 | 30 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | NA | 30 |
| cis-1,3-Dichloropropene | 1 | 18.8659 | 19.714 | 4.4 | 30 |
| trans-1,3-Dichloropropene | 1 | 18.4615 | 19.8566 | 7.3 | 30 |
| Ethyl methacrylate | 1 | 26.9265 | 26.9952 | 0.25 | 30 |
| 1,1,2-Trichloroethane | 1 | 19.1795 | 20.6515 | 7.4 | 30 |
| 1,2-Dibromoethane | 1 | 19.2157 | 19.9719 | 3.9 | 30 |
| 1,3-Dichloropropane | 1 | 20.3322 | 20.6734 | 1.7 | 30 |
| 4-Methyl-2-Pentanone | 1 | 27.2767 | 25.4427 | 7 | 30 |
| 2-Hexanone | 1 | 26.161 | 26.0651 | 0.37 | 30 |
| Tetrachloroethene | 1 | 17.9674 | 18.8447 | 4.8 | 40 |
| Toluene | 1 | 18.6307 | 19.748 | 5.8 | 40 |
| 1,1,1,2-Tetrachloroethane | 1 | 17.5086 | 19.556 | 11 | 30 |
| Chlorobenzene | 1 | 18.916 | 19.6889 | 4 | 40 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: MBS96792

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 22.3487 | 23.255 | 4 | 30 |
| n-Amyl acetate | 1 | 24.8623 | 25.9326 | 4.2 | 30 |
| Bromoform | 1 | 17.3181 | 17.2332 | 0.49 | 30 |
| Ethylbenzene | 1 | 18.6983 | 20.6472 | 9.9 | 30 |
| 1,1,2,2-Tetrachloroethane | 1 | 20.2878 | 21.1968 | 4.4 | 30 |
| Styrene | 1 | 18.6908 | 19.1382 | 2.4 | 30 |
| m&p-Xylenes | 1 | 37.902 | 39.2874 | 3.6 | 30 |
| o-Xylene | 1 | 18.7572 | 19.7507 | 5.2 | 30 |
| trans-1,4-Dichloro-2-butene | 1 | 16.1593 | 16.4821 | 2 | 30 |
| 1,3-Dichlorobenzene | 1 | 17.9981 | 18.9908 | 5.4 | 30 |
| 1,4-Dichlorobenzene | 1 | 18.0203 | 19.3478 | 7.1 | 40 |
| 1,2-Dichlorobenzene | 1 | 18.038 | 18.8441 | 4.4 | 40 |
| Isopropylbenzene | 1 | 18.8753 | 20.1156 | 6.4 | 30 |
| Cyclohexanone | 1 | 98.646 | 99.8646 | 1.2 | 30 |
| Camphene | 1 | 10.2556 | 12.4486 | 19 | 30 |
| 1,2,3-Trichloropropane | 1 | 18.1251 | 18.7065 | 3.2 | 30 |
| 2-Chlorotoluene | 1 | 19.0907 | 20.3134 | 6.2 | 30 |
| p-Ethyltoluene | 1 | 18.5686 | 19.7586 | 6.2 | 30 |
| 4-Chlorotoluene | 1 | 18.8559 | 19.8353 | 5.1 | 30 |
| n-Propylbenzene | 1 | 19.4498 | 20.2599 | 4.1 | 40 |
| Bromobenzene | 1 | 18.4139 | 20.704 | 12 | 30 |
| 1,3,5-Trimethylbenzene | 1 | 18.9715 | 19.6991 | 3.8 | 30 |
| Butyl methacrylate | 1 | 25.3271 | 26.5506 | 4.7 | 30 |
| t-Butylbenzene | 1 | 18.7223 | 19.232 | 2.7 | 30 |
| 1,2,4-Trimethylbenzene | 1 | 18.3695 | 19.5023 | 6 | 30 |
| sec-Butylbenzene | 1 | 19.2185 | 19.6958 | 2.5 | 40 |
| 4-Isopropyltoluene | 1 | 18.5916 | 19.3184 | 3.8 | 30 |
| n-Butylbenzene | 1 | 20.3115 | 20.8205 | 2.5 | 30 |
| p-Diethylbenzene | 1 | 18.4186 | 19.3859 | 5.1 | 30 |
| 1,2,4,5-Tetramethylbenzene | 1 | 15.7979 | 16.4648 | 4.1 | 30 |
| 1,2-Dibromo-3-Chloropropane | 1 | 18.377 | 20.6668 | 12 | 30 |
| Camphor | 1 | 182.6739 | 180.7884 | 1 | 30 |
| Hexachlorobutadiene | 1 | 18.7756 | 20.4459 | 8.5 | 30 |
| 1,2,4-Trichlorobenzene | 1 | 18.8208 | 18.2374 | 3.1 | 30 |
| 1,2,3-Trichlorobenzene | 1 | 20.6585 | 20.4744 | 0.9 | 30 |
| Naphthalene | 1 | 19.626 | 19.5155 | 0.56 | 30 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M156840.D
Matrix: Aqueous

Blank Analysis Date: 09/16/21 08:39
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

| Sample Number | Data File | Analysis Date |
|---|---|---|
| MBS96749 | 2M156847.D | 09/16/21 10:55 |
| AD25889-018(T) | 2M156856.D | 09/16/21 13:51 |

# FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 1M152700.D
Matrix: Aqueous

Blank Analysis Date: 09/20/21 19:47
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

| Sample Number | Data File | Analysis Date |
|---|---|---|
| AD26083-003 | 1M152702.D | 09/20/21 20:25 |
| AD25889-018(T:M | 1M152720.D | 09/21/21 02:02 |
| AD25889-018(T:M | 1M152719.D | 09/21/21 01:43 |
| MBS96770 | 1M152710.D | 09/20/21 22:55 |

# FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 1M152828.D
Matrix: Aqueous

Blank Analysis Date: 09/22/21 11:44
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

| Sample Number | Data File | Analysis Date |
|---|---|---|
| AD26083-012 | 1M152829.D | 09/22/21 12:03 |
| AD26083-014 | 1M152830.D | 09/22/21 12:22 |
| AD26083-016 | 1M152831.D | 09/22/21 12:41 |
| AD26083-018 | 1M152832.D | 09/22/21 13:00 |
| AD26083-019 | 1M152833.D | 09/22/21 13:18 |
| AD26083-021 | 1M152834.D | 09/22/21 13:37 |
| AD26083-023 | 1M152835.D | 09/22/21 13:56 |
| AD26083-026 | 1M152836.D | 09/22/21 14:15 |
| AD26083-028 | 1M152837.D | 09/22/21 14:34 |
| AD26083-030 | 1M152838.D | 09/22/21 14:53 |
| AD26083-042(MS: | 1M152855.D | 09/22/21 20:12 |
| AD26083-044(MSD | 1M152856.D | 09/22/21 20:31 |
| MBS96784 | 1M152842.D | 09/22/21 16:07 |

# FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M157118.D
Matrix: Aqueous

Blank Analysis Date: 09/22/21 14:34
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

| Sample Number | Data File | Analysis Date |
|---|---|---|
| AD26083-032 | 2M157119.D | 09/22/21 14:53 |
| AD26083-035 | 2M157120.D | 09/22/21 15:13 |
| AD26083-036 | 2M157121.D | 09/22/21 15:33 |
| AD26083-038 | 2M157122.D | 09/22/21 15:52 |
| AD26083-046 | 2M157123.D | 09/22/21 16:12 |
| AD26083-048 | 2M157124.D | 09/22/21 16:32 |
| AD26083-049(MS: | 2M157125.D | 09/22/21 16:51 |
| AD26083-050(MSD | 2M157126.D | 09/22/21 17:10 |
| MBS96787 | 2M157127.D | 09/22/21 17:30 |

# FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 1M152875.D
Matrix: Aqueous

Blank Analysis Date: 09/23/21 02:07
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

| Sample Number | Data File | Analysis Date |
|---|---|---|
| AD26083-001 | 1M152893.D | 09/23/21 07:45 |
| AD26083-002 | 1M152894.D | 09/23/21 08:04 |
| AD26083-005 | 1M152886.D | 09/23/21 05:33 |
| AD26083-006 | 1M152895.D | 09/23/21 08:23 |
| AD26083-008 | 1M152896.D | 09/23/21 08:41 |
| AD26083-009 | 1M152897.D | 09/23/21 09:00 |
| AD26083-011 | 1M152898.D | 09/23/21 09:19 |
| AD26083-025 | 1M152887.D | 09/23/21 05:52 |
| AD26083-027 | 1M152891.D | 09/23/21 07:07 |
| AD26083-033 | 1M152882.D | 09/23/21 04:18 |
| AD26083-034 | 1M152883.D | 09/23/21 04:37 |
| AD26083-040 | 1M152892.D | 09/23/21 07:26 |
| AD26083-051 | 1M152884.D | 09/23/21 04:56 |
| AD26083-008(MS) | 1M152876.D | 09/23/21 02:26 |
| AD26083-008(MSD | 1M152877.D | 09/23/21 02:44 |
| MBS96792 | 1M152879.D | 09/23/21 03:21 |

# FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M157199.D
Matrix: Aqueous

Blank Analysis Date: 09/23/21 16:43
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

| Sample Number | Data File | Analysis Date |
|---|---|---|
| AD26083-010 | 2M157206.D | 09/23/21 19:00 |
| MBS96795 | 2M157204.D | 09/23/21 18:21 |

# Form 5

**Tune Name:** BFB TUNE
**Instrument:** GCMS 1
**Data File:** 1M151942.D
**Analysis Date:** 08/25/21 18:09
**Method:** EPA 8260D

**Tune Scan/Time Range:** Average of 7.563 to 7.602 min

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 23.9 | 901 | PASS |
| 75 | 95 | 30 | 60 | 52.6 | 1982 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 3771 | PASS |
| 96 | 95 | 5 | 9 | 6.3 | 239 | PASS |
| 173 | 174 | 0.00 | 2 | 0.6 | 20 | PASS |
| 174 | 95 | 50 | 100 | 83.3 | 3141 | PASS |
| 175 | 174 | 5 | 9 | 6.1 | 190 | PASS |
| 176 | 174 | 95 | 101 | 98.2 | 3086 | PASS |
| 177 | 176 | 5 | 9 | 5.2 | 161 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 1M151944.D | CAL @ 0.5 PPB | 08/25/21 18:42 |
| 1M151945.D | CAL @ 1 PPB | 08/25/21 19:01 |
| 1M151946.D | CAL @ 5 PPB | 08/25/21 19:20 |
| 1M151947.D | CAL @ 10 PPB | 08/25/21 19:38 |
| 1M151948.D | CAL @ 20 PPB | 08/25/21 19:57 |
| 1M151949.D | CAL @ 50 PPB | 08/25/21 20:16 |
| 1M151950.D | CAL @500 PPB | 08/25/21 20:35 |
| 1M151952.D | CAL @ 250 PPB | 08/25/21 21:12 |
| 1M151954.D | CAL @ 100 PPB | 08/25/21 21:50 |
| 1M151960.D | STD | 08/25/21 23:43 |
| 1M151961.D | ICV | 08/26/21 00:01 |
| 1M151964.D | BLK | 08/26/21 00:58 |

# Form 5

**Tune Name:** BFB TUNE
**Instrument:** GCMS 2
**Data File:** 2M156178.D
**Analysis Date:** 08/31/21 19:36
**Method:** EPA 8260D

**Tune Scan/Time Range:** Average of 7.342 to 7.379 min

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 20.8 | 2246 | PASS |
| 75 | 95 | 30 | 60 | 50.8 | 5472 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 10778 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 720 | PASS |
| 173 | 174 | 0.00 | 2 | 1.1 | 101 | PASS |
| 174 | 95 | 50 | 100 | 86.0 | 9272 | PASS |
| 175 | 174 | 5 | 9 | 7.9 | 731 | PASS |
| 176 | 174 | 95 | 101 | 98.6 | 9138 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 587 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 2M156181.D | CAL @0.5 PPB | 08/31/21 20:31 |
| 2M156182.D | CAL @1 PPB | 08/31/21 20:51 |
| 2M156183.D | CAL @ 5 PPB | 08/31/21 21:10 |
| 2M156184.D | CAL @10 PPB | 08/31/21 21:30 |
| 2M156185.D | CAL @20 PPB | 08/31/21 21:50 |
| 2M156186.D | CAL @50 PPB | 08/31/21 22:09 |
| 2M156187.D | CAL @500 PPB | 08/31/21 22:29 |
| 2M156189.D | CAL @250 PPB | 08/31/21 23:08 |
| 2M156191.D | CAL @100 PPB | 08/31/21 23:47 |
| 2M156192.D | 250 PPB | 09/01/21 00:07 |
| 2M156196.D | STD | 09/01/21 01:25 |
| 2M156197.D | ICV | 09/01/21 01:44 |
| 2M156198.D | BLK | 09/01/21 02:04 |

# Form 5

**Tune Name:** BFB TUNE
**Instrument:** GCMS 1
**Data File:** 1M152694.D
**Analysis Date:** 09/20/21 17:59
**Method:** EPA 8260D

**Tune Scan/Time Range:** Average of 7.567 to 7.602 min

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 26.4 | 663 | PASS |
| 75 | 95 | 30 | 60 | 52.6 | 1319 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 2510 | PASS |
| 96 | 95 | 5 | 9 | 7.2 | 182 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 79.6 | 1998 | PASS |
| 175 | 174 | 5 | 9 | 5.6 | 112 | PASS |
| 176 | 174 | 95 | 101 | 96.0 | 1917 | PASS |
| 177 | 176 | 5 | 9 | 5.9 | 113 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 1M152695.D | BLK | 09/20/21 18:14 |
| 1M152696.D | CAL @ 20 PPB | 09/20/21 18:32 |
| 1M152697.D | BLK | 09/20/21 18:51 |
| 1M152698.D | BLK | 09/20/21 19:10 |
| 1M152699.D | BLK | 09/20/21 19:29 |
| 1M152700.D | DAILY BLANK | 09/20/21 19:47 |
| 1M152701.D | DAILY BLANK | 09/20/21 20:06 |
| 1M152702.D | AD26083-003 | 09/20/21 20:25 |
| 1M152703.D | AD25947-003(10X) | 09/20/21 20:44 |
| 1M152704.D | AD25947-002(10X) | 09/20/21 21:03 |
| 1M152705.D | 25889-018(T) | 09/20/21 21:21 |
| 1M152706.D | AD25947-003(100X | 09/20/21 21:40 |
| 1M152707.D | AD25947-002(100X | 09/20/21 21:59 |
| 1M152708.D | AD25889-018(T) | 09/20/21 22:18 |
| 1M152709.D | MBS96769 | 09/20/21 22:36 |
| 1M152710.D | MBS96770 | 09/20/21 22:55 |
| 1M152711.D | AD26025-002 | 09/20/21 23:14 |
| 1M152712.D | AD25991-001(80uL | 09/20/21 23:33 |
| 1M152713.D | AD26025-002(MS) | 09/20/21 23:51 |
| 1M152714.D | AD26025-002(MSD | 09/21/21 00:10 |
| 1M152715.D | BLK | 09/21/21 00:29 |
| 1M152716.D | AD26002-001 | 09/21/21 00:47 |
| 1M152717.D | AD26073-001 | 09/21/21 01:06 |
| 1M152718.D | AD26030-001 | 09/21/21 01:25 |
| 1M152719.D | AD25889-018(T:M | 09/21/21 01:43 |
| 1M152720.D | AD25889-018(T:M | 09/21/21 02:02 |
| 1M152721.D | BLK | 09/21/21 02:21 |
| 1M152722.D | BLK | 09/21/21 02:39 |
| 1M152723.D | AD26024-002 | 09/21/21 02:58 |
| 1M152724.D | AD26024-004(50X) | 09/21/21 03:17 |
| 1M152725.D | AD26024-007(5X) | 09/21/21 03:36 |
| 1M152726.D | BLK | 09/21/21 03:54 |
| 1M152727.D | AD26048-002(5X) | 09/21/21 04:13 |
| 1M152728.D | AD26048-001(20X) | 09/21/21 04:32 |
| 1M152729.D | AD26048-007(20X) | 09/21/21 04:50 |
| 1M152730.D | BLK | 09/21/21 05:09 |
| 1M152731.D | AD26024-006 | 09/21/21 05:28 |
| 1M152732.D | AD26024-005 | 09/21/21 05:47 |
| 1M152733.D | BLK | 09/21/21 06:05 |
| 1M152734.D | BLK | 09/21/21 06:24 |
| 1M152735.D | BLK | 09/21/21 06:43 |
| 1M152736.D | BLK | 09/21/21 07:02 |

# Form 5

**Tune Name:** BFB TUNE **Data File:** 1M152821.D
**Instrument:** GCMS 1 **Analysis Date:** 09/22/21 09:33
**Method:** EPA 8260D
**Tune Scan/Time Range:** Average of 7.576 to 7.615 min

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 29.3 | 4386 | PASS |
| 75 | 95 | 30 | 60 | 56.9 | 8514 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 14957 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 1045 | PASS |
| 173 | 174 | 0.00 | 2 | 1.4 | 175 | PASS |
| 174 | 95 | 50 | 100 | 82.0 | 12272 | PASS |
| 175 | 174 | 5 | 9 | 7.2 | 878 | PASS |
| 176 | 174 | 95 | 101 | 96.1 | 11789 | PASS |
| 177 | 176 | 5 | 9 | 5.9 | 701 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 1M152822.D | 20 PPB | 09/22/21 09:51 |
| 1M152823.D | 20 PPB | 09/22/21 10:10 |
| 1M152824.D | CAL @ 20 PPB | 09/22/21 10:29 |
| 1M152825.D | BLK | 09/22/21 10:48 |
| 1M152826.D | BLK | 09/22/21 11:06 |
| 1M152827.D | BLK | 09/22/21 11:25 |
| 1M152828.D | DAILY BLANK | 09/22/21 11:44 |
| 1M152829.D | AD26083-012 | 09/22/21 12:03 |
| 1M152830.D | AD26083-014 | 09/22/21 12:22 |
| 1M152831.D | AD26083-016 | 09/22/21 12:41 |
| 1M152832.D | AD26083-018 | 09/22/21 13:00 |
| 1M152833.D | AD26083-019 | 09/22/21 13:18 |
| 1M152834.D | AD26083-021 | 09/22/21 13:37 |
| 1M152835.D | AD26083-023 | 09/22/21 13:56 |
| 1M152836.D | AD26083-026 | 09/22/21 14:15 |
| 1M152837.D | AD26083-028 | 09/22/21 14:34 |
| 1M152838.D | AD26083-030 | 09/22/21 14:53 |
| 1M152839.D | STD | 09/22/21 15:11 |
| 1M152840.D | STD | 09/22/21 15:30 |
| 1M152841.D | MBS96783 | 09/22/21 15:49 |
| 1M152842.D | MBS96784 | 09/22/21 16:07 |
| 1M152843.D | BLK | 09/22/21 16:26 |
| 1M152844.D | BLK | 09/22/21 16:45 |
| 1M152845.D | AD26046-001 | 09/22/21 17:04 |
| 1M152846.D | AD26046-002 | 09/22/21 17:23 |
| 1M152847.D | AD26162-002 | 09/22/21 17:42 |
| 1M152848.D | AD26162-003 | 09/22/21 18:01 |
| 1M152849.D | AD26162-002 | 09/22/21 18:19 |
| 1M152850.D | AD26162-001 | 09/22/21 18:38 |
| 1M152851.D | AD26046-006 | 09/22/21 18:57 |
| 1M152852.D | AD26046-007 | 09/22/21 19:16 |
| 1M152853.D | AD26083-027 | 09/22/21 19:35 |
| 1M152854.D | AD26083-040 | 09/22/21 19:54 |
| 1M152855.D | AD26083-042(MS: | 09/22/21 20:12 |
| 1M152856.D | AD26083-044(MSD | 09/22/21 20:31 |
| 1M152857.D | BLK | 09/22/21 20:50 |
| 1M152858.D | AD26047-004 | 09/22/21 21:09 |
| 1M152859.D | AD25975-002 | 09/22/21 21:27 |

# Form 5

**Tune Name:** BFB TUNE **Data File:** 2M157113.D
**Instrument:** GCMS 2 **Analysis Date:** 09/22/21 12:56
**Method:** EPA 8260D

**Tune Scan/Time Range:** Average of 7.342 to 7.355 min

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.4 | 2804 | PASS |
| 75 | 95 | 30 | 60 | 51.3 | 6710 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 13075 | PASS |
| 96 | 95 | 5 | 9 | 7.4 | 970 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 1 | PASS |
| 174 | 95 | 50 | 100 | 90.7 | 11865 | PASS |
| 175 | 174 | 5 | 9 | 7.3 | 870 | PASS |
| 176 | 174 | 95 | 101 | 95.7 | 11357 | PASS |
| 177 | 176 | 5 | 9 | 6.9 | 780 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 2M157114.D | CAL @ 20 PPB | 09/22/21 13:16 |
| 2M157115.D | 20 PPB | 09/22/21 13:35 |
| 2M157116.D | BLK | 09/22/21 13:54 |
| 2M157117.D | BLK | 09/22/21 14:14 |
| 2M157118.D | DAILY BLANK | 09/22/21 14:34 |
| 2M157119.D | AD26083-032 | 09/22/21 14:53 |
| 2M157120.D | AD26083-035 | 09/22/21 15:13 |
| 2M157121.D | AD26083-036 | 09/22/21 15:33 |
| 2M157122.D | AD26083-038 | 09/22/21 15:52 |
| 2M157123.D | AD26083-046 | 09/22/21 16:12 |
| 2M157124.D | AD26083-048 | 09/22/21 16:32 |
| 2M157125.D | AD26083-049(MS: | 09/22/21 16:51 |
| 2M157126.D | AD26083-050(MSD | 09/22/21 17:10 |
| 2M157127.D | MBS96787 | 09/22/21 17:30 |
| 2M157128.D | MBS96788 | 09/22/21 17:49 |
| 2M157129.D | BLK | 09/22/21 18:09 |
| 2M157130.D | BLK | 09/22/21 18:28 |
| 2M157131.D | AD25995-001(50X) | 09/22/21 18:48 |
| 2M157132.D | AD25995-003(50X) | 09/22/21 19:09 |
| 2M157133.D | AD25995-005(50X) | 09/22/21 19:29 |
| 2M157134.D | AD26030-001(50X) | 09/22/21 19:49 |
| 2M157135.D | AD26063-001(T) | 09/22/21 20:08 |
| 2M157136.D | AD25995-001(50X) | 09/22/21 20:28 |
| 2M157137.D | AD25995-001(50X) | 09/22/21 20:48 |
| 2M157138.D | AD26009-002(50X) | 09/22/21 21:08 |
| 2M157139.D | AD26010-002(50X) | 09/22/21 21:28 |
| 2M157140.D | AD26052-001(50X) | 09/22/21 21:48 |
| 2M157141.D | AD26073-001(50X) | 09/22/21 22:08 |
| 2M157142.D | AD26088-001(50X) | 09/22/21 22:28 |
| 2M157143.D | AD26088-003(50X) | 09/22/21 22:48 |
| 2M157144.D | AD26089-001(50X) | 09/22/21 23:08 |
| 2M157145.D | 26151-001 | 09/22/21 23:28 |
| 2M157146.D | EF-1-V-357518(092 | 09/22/21 23:48 |
| 2M157147.D | AD26111-001(100X | 09/23/21 00:08 |
| 2M157148.D | AD26111-001(10X) | 09/23/21 00:27 |

# Form 5

**Tune Name:** BFB TUNE
**Instrument:** GCMS 1
**Data File:** 1M152868.D
**Analysis Date:** 09/22/21 23:59
**Method:** EPA 8260D

**Tune Scan/Time Range:** Average of 7.586 to 7.595 min

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 25.6 | 2382 | PASS |
| 75 | 95 | 30 | 60 | 53.7 | 4986 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 9288 | PASS |
| 96 | 95 | 5 | 9 | 6.0 | 558 | PASS |
| 173 | 174 | 0.00 | 2 | 1.5 | 115 | PASS |
| 174 | 95 | 50 | 100 | 85.0 | 7894 | PASS |
| 175 | 174 | 5 | 9 | 7.4 | 585 | PASS |
| 176 | 174 | 95 | 101 | 99.5 | 7858 | PASS |
| 177 | 176 | 5 | 9 | 5.4 | 425 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 1M152870.D | CAL @ 20 PPB | 09/23/21 00:33 |
| 1M152871.D | 20 PPB | 09/23/21 00:52 |
| 1M152872.D | BLK | 09/23/21 01:11 |
| 1M152873.D | BLK | 09/23/21 01:29 |
| 1M152874.D | BLK | 09/23/21 01:48 |
| 1M152875.D | DAILY BLANK | 09/23/21 02:07 |
| 1M152876.D | AD26083-008(MS) | 09/23/21 02:26 |
| 1M152877.D | AD26083-008(MSD | 09/23/21 02:44 |
| 1M152878.D | MBS96791 | 09/23/21 03:03 |
| 1M152879.D | MBS96792 | 09/23/21 03:21 |
| 1M152880.D | BLK | 09/23/21 03:40 |
| 1M152881.D | BLK | 09/23/21 03:59 |
| 1M152882.D | AD26083-033 | 09/23/21 04:18 |
| 1M152883.D | AD26083-034 | 09/23/21 04:37 |
| 1M152884.D | AD26083-051 | 09/23/21 04:56 |
| 1M152885.D | AD26083-010 | 09/23/21 05:14 |
| 1M152886.D | AD26083-005 | 09/23/21 05:33 |
| 1M152887.D | AD26083-025 | 09/23/21 05:52 |
| 1M152888.D | AD26051-012 | 09/23/21 06:11 |
| 1M152889.D | AD26051-013 | 09/23/21 06:29 |
| 1M152890.D | AD26051-014 | 09/23/21 06:48 |
| 1M152891.D | AD26083-027 | 09/23/21 07:07 |
| 1M152892.D | AD26083-040 | 09/23/21 07:26 |
| 1M152893.D | AD26083-001 | 09/23/21 07:45 |
| 1M152894.D | AD26083-002 | 09/23/21 08:04 |
| 1M152895.D | AD26083-006 | 09/23/21 08:23 |
| 1M152896.D | AD26083-008 | 09/23/21 08:41 |
| 1M152897.D | AD26083-009 | 09/23/21 09:00 |
| 1M152898.D | AD26083-011 | 09/23/21 09:19 |
| 1M152899.D | AD26046-003 | 09/23/21 09:38 |
| 1M152900.D | AD26046-004 | 09/23/21 09:57 |
| 1M152901.D | AD26046-005 | 09/23/21 10:15 |
| 1M152902.D | BLK | 09/23/21 10:34 |
| 1M152903.D | BLK | 09/23/21 10:53 |

# Form 5

**Tune Name:** BFB TUNE **Data File:** 2M157193.D
**Instrument:** GCMS 2 **Analysis Date:** 09/23/21 14:51
**Method:** EPA 8260D
**Tune Scan/Time Range:** Average of 7.342 to 7.348 min

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.4 | 1491 | PASS |
| 75 | 95 | 30 | 60 | 53.5 | 3733 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 6974 | PASS |
| 96 | 95 | 5 | 9 | 7.6 | 530 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 83.2 | 5804 | PASS |
| 175 | 174 | 5 | 9 | 7.8 | 451 | PASS |
| 176 | 174 | 95 | 101 | 95.3 | 5532 | PASS |
| 177 | 176 | 5 | 9 | 8.3 | 459 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 2M157195.D | CAL @ 20 PPB | 09/23/21 15:25 |
| 2M157196.D | 20 PPB | 09/23/21 15:45 |
| 2M157198.D | BLK | 09/23/21 16:24 |
| 2M157199.D | DAILY BLANK | 09/23/21 16:43 |
| 2M157200.D | DAILY BLANK | 09/23/21 17:03 |
| 2M157202.D | AD26047-005(5X) | 09/23/21 17:42 |
| 2M157203.D | MBS96794 | 09/23/21 18:02 |
| 2M157204.D | MBS96795 | 09/23/21 18:21 |
| 2M157205.D | AD26002-005 | 09/23/21 18:41 |
| 2M157206.D | AD26083-010 | 09/23/21 19:00 |
| 2M157207.D | AD26151-001 | 09/23/21 19:20 |
| 2M157208.D | AD26152-001 | 09/23/21 19:39 |
| 2M157209.D | AD26170-001(5X) | 09/23/21 19:59 |
| 2M157210.D | AD26002-005(MS) | 09/23/21 20:19 |
| 2M157211.D | AD26120-001 | 09/23/21 20:38 |
| 2M157212.D | AD26002-005(MSD | 09/23/21 20:58 |
| 2M157213.D | BLK | 09/23/21 21:18 |
| 2M157214.D | BLK | 09/23/21 21:37 |
| 2M157215.D | AD26005-005 | 09/23/21 21:57 |
| 2M157216.D | AD26078-001 | 09/23/21 22:16 |
| 2M157217.D | AD26051-005 | 09/23/21 22:36 |
| 2M157218.D | AD26100-007 | 09/23/21 22:55 |
| 2M157219.D | AD26051-010 | 09/23/21 23:15 |
| 2M157220.D | AD26100-006(10X) | 09/23/21 23:34 |
| 2M157221.D | AD26051-011(5X) | 09/23/21 23:54 |
| 2M157222.D | AD26051-009 | 09/24/21 00:14 |
| 2M157223.D | AD26051-006 | 09/24/21 00:33 |
| 2M157224.D | BLK | 09/24/21 00:53 |
| 2M157225.D | AD26121-001 | 09/24/21 01:12 |
| 2M157226.D | AD26121-002 | 09/24/21 01:32 |
| 2M157227.D | AD26121-003 | 09/24/21 01:52 |
| 2M157228.D | AD26121-004 | 09/24/21 02:11 |
| 2M157229.D | AD26121-005 | 09/24/21 02:31 |
| 2M157230.D | AD26121-006 | 09/24/21 02:50 |
| 2M157231.D | STD | 09/24/21 03:10 |
| 2M157232.D | BLK | 09/24/21 03:29 |
| 2M157233.D | BLK | 09/24/21 03:49 |
| 2M157234.D | BLK | 09/24/21 04:09 |
| 2M157235.D | BLK | 09/24/21 04:28 |
| 2M157236.D | BLK | 09/24/21 04:48 |
| 2M157237.D | BLK | 09/24/21 05:07 |
| 2M157238.D | BLK | 09/24/21 05:27 |
| 2M157239.D | STD | 09/24/21 05:46 |
| 2M157240.D | STD | 09/24/21 06:05 |
| 2M157241.D | BLK | 09/24/21 06:25 |
| 2M157242.D | BLK | 09/24/21 06:45 |

1091738 0514

# FORM8

Internal Standard Areas

Evaluation Std Data File: 1M151948.D  Method: EPA 8260D

Analysis Date/Time: 08/25/21 19:57

Lab File ID: CAL @ 20 PPB

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 138750 | 5.30 | 107276 | 6.96 | 57588 | 8.25 | | | | | | | | |
| Eval File Area Limit: | 69375-277500 | | 53638-214552 | | 28794-115176 | | | | | | | | | |
| Eval File Rt Limit: | 4.8-5.8 | | 6.46-7.46 | | 7.75-8.75 | | | | | | | | | |

| Data File | Sample# | | | | | | |
|---|---|---|---|---|---|---|---|
| 1M151944.D | CAL @ 0.5 PPB | 126849 | 5.30 | 97967 | 6.96 | 49740 | 8.25 |
| 1M151945.D | CAL @ 1 PPB | 132450 | 5.30 | 103467 | 6.96 | 53418 | 8.25 |
| 1M151946.D | CAL @ 5 PPB | 138135 | 5.30 | 106718 | 6.96 | 55540 | 8.25 |
| 1M151947.D | CAL @ 10 PPB | 132477 | 5.30 | 103422 | 6.96 | 54909 | 8.25 |
| 1M151948.D | CAL @ 20 PPB | 138750 | 5.30 | 107276 | 6.96 | 57588 | 8.25 |
| 1M151949.D | CAL @ 50 PPB | 154563 | 5.30 | 120237 | 6.96 | 68054 | 8.25 |
| 1M151950.D | CAL @500 PPB | 152668 | 5.30 | 124978 | 6.96 | 88062 | 8.26 |
| 1M151952.D | CAL @ 250 PPB | 162232 | 5.30 | 124674 | 6.96 | 80094 | 8.25 |
| 1M151954.D | CAL @ 100 PPB | 160503 | 5.30 | 121807 | 6.96 | 68408 | 8.25 |
| 1M151960.D | STD | 146627 | 5.30 | 113219 | 6.96 | 60816 | 8.25 |
| 1M151961.D | ICV | 161461 | 5.30 | 122496 | 6.96 | 68619 | 8.25 |
| 1M151964.D | BLK | 152339 | 5.30 | 115871 | 6.96 | 60148 | 8.25 |

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1091738 0515

# FORM8

Internal Standard Areas

Evaluation Std Data File: 2M156185.D  Method: EPA 8260D

Analysis Date/Time: 08/31/21 21:50

Lab File ID: CAL @20 PPB

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 298016 | 5.10 | 214495 | 6.73 | 106962 | 8.02 | | | | | | | | |
| Eval File Area Limit: | 149008-596032 | | 107248-428990 | | 53481-213924 | | | | | | | | | |
| Eval File Rt Limit: | 4.6-5.6 | | 6.23-7.23 | | 7.52-8.52 | | | | | | | | | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2M156181.D | CAL @0.5 PPB | 291942 | 5.10 | 210942 | 6.73 | 94196 | 8.02 | | | | | | | |
| 2M156182.D | CAL @1 PPB | 300686 | 5.10 | 215569 | 6.73 | 95889 | 8.02 | | | | | | | |
| 2M156183.D | CAL @ 5 PPB | 299730 | 5.10 | 217020 | 6.73 | 102747 | 8.02 | | | | | | | |
| 2M156184.D | CAL @10 PPB | 301936 | 5.10 | 218401 | 6.73 | 102721 | 8.02 | | | | | | | |
| 2M156185.D | CAL @20 PPB | 298016 | 5.10 | 214495 | 6.73 | 106962 | 8.02 | | | | | | | |
| 2M156186.D | CAL @50 PPB | 295164 | 5.10 | 227457 | 6.73 | 116673 | 8.02 | | | | | | | |
| 2M156187.D | CAL @500 PPB | 303998 | 5.10 | 245550 | 6.73 | 127734 | 8.03 | | | | | | | |
| 2M156189.D | CAL @250 PPB | 315374 | 5.10 | 251795 | 6.73 | 130852 | 8.02 | | | | | | | |
| 2M156191.D | CAL @100 PPB | 327149 | 5.10 | 251919 | 6.73 | 136041 | 8.02 | | | | | | | |
| 2M156192.D | 250 PPB | 320530 | 5.10 | 253001 | 6.73 | 129946 | 8.02 | | | | | | | |
| 2M156196.D | STD | 285972 | 5.10 | 214201 | 6.73 | 107065 | 8.02 | | | | | | | |
| 2M156197.D | ICV | 303556 | 5.10 | 231374 | 6.73 | 118887 | 8.02 | | | | | | | |
| 2M156198.D | BLK | 298619 | 5.10 | 220774 | 6.74 | 99580 | 8.02 | | | | | | | |

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1091738 0516

# FORM8

Internal Standard Areas

Evaluation Std Data File: 1M152696.D  Method: EPA 8260D

Analysis Date/Time: 09/20/21 18:32

Lab File ID: CAL @ 20 PPB

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 104380 | 5.30 | 83717 | 6.96 | 46618 | 8.25 | | | | | | | | |
| Eval File Area Limit: | 52190-208760 | | 41858-167434 | | 23309-93236 | | | | | | | | | |
| Eval File Rt Limit: | 4.8-5.8 | | 6.46-7.46 | | 7.75-8.75 | | | | | | | | | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M152695.D | BLK | 210986 | 5.29 | 149131 | 6.95 | 54701 | 8.25 | | | | | | | |
| 1M152697.D | BLK | 100151 | 5.30 | 81291 | 6.96 | 44652 | 8.25 | | | | | | | |
| 1M152698.D | BLK | 92116 | 5.30 | 76455 | 6.96 | 39672 | 8.25 | | | | | | | |
| 1M152699.D | BLK | 100017 | 5.30 | 82216 | 6.96 | 43926 | 8.25 | | | | | | | |
| 1M152700.D | DAILY BLANK | 98990 | 5.30 | 81936 | 6.96 | 43990 | 8.25 | | | | | | | |
| 1M152701.D | DAILY BLANK | 96976 | 5.30 | 77199 | 6.96 | 40409 | 8.25 | | | | | | | |
| 1M152702.D | AD26083-003 | 99912 | 5.30 | 80502 | 6.96 | 41496 | 8.25 | | | | | | | |
| 1M152703.D | AD25947-003(10X)(T) | 103331 | 5.30 | 91752 | 6.96 | 62977 | 8.25 | | | | | | | |
| 1M152704.D | AD25947-002(10X)(T) | 122816 | 5.30 | 106346 | 6.96 | 78801 | 8.25 | | | | | | | |
| 1M152705.D | 25889-018(T) | 122010 | 5.30 | 96434 | 6.96 | 52743 | 8.25 | | | | | | | |
| 1M152706.D | AD25947-003(100X)(T | 115900 | 5.30 | 91822 | 6.96 | 51519 | 8.25 | | | | | | | |
| 1M152707.D | AD25947-002(100X)(T | 111414 | 5.30 | 89663 | 6.96 | 49727 | 8.25 | | | | | | | |
| 1M152708.D | AD25889-018(T) | 112658 | 5.30 | 90418 | 6.96 | 49688 | 8.25 | | | | | | | |
| 1M152709.D | MBS96769 | 104145 | 5.30 | 85097 | 6.96 | 51382 | 8.25 | | | | | | | |
| 1M152710.D | MBS96770 | 107163 | 5.30 | 87743 | 6.96 | 50070 | 8.25 | | | | | | | |
| 1M152711.D | AD26025-002 | 104550 | 5.30 | 85945 | 6.96 | 52217 | 8.25 | | | | | | | |
| 1M152712.D | AD25991-001(80uL) | 102146 | 5.30 | 84339 | 6.96 | 51383 | 8.25 | | | | | | | |
| 1M152713.D | AD26025-002(MS) | 103913 | 5.29 | 84544 | 6.96 | 53500 | 8.25 | | | | | | | |
| 1M152714.D | AD26025-002(MSD) | 109339 | 5.30 | 87719 | 6.96 | 53545 | 8.25 | | | | | | | |
| 1M152715.D | BLK | 109758 | 5.30 | 88864 | 6.96 | 50688 | 8.25 | | | | | | | |
| 1M152716.D | AD26002-001 | 102259 | 5.30 | 82701 | 6.96 | 45613 | 8.25 | | | | | | | |
| 1M152717.D | AD26073-001 | 110719 | 5.30 | 94283 | 6.96 | 55700 | 8.25 | | | | | | | |
| 1M152718.D | AD26030-001 | 109358 | 5.30 | 94395 | 6.96 | 62789 | 8.25 | | | | | | | |
| 1M152719.D | AD25889-018(T:MS) | 107906 | 5.30 | 86420 | 6.96 | 48397 | 8.25 | | | | | | | |
| 1M152720.D | AD25889-018(T:MSD) | 116031 | 5.30 | 91779 | 6.96 | 50945 | 8.25 | | | | | | | |
| 1M152721.D | BLK | 106222 | 5.30 | 85761 | 6.96 | 47909 | 8.25 | | | | | | | |
| 1M152722.D | BLK | 107571 | 5.30 | 87392 | 6.96 | 47535 | 8.25 | | | | | | | |
| 1M152723.D | AD26024-002 | 103344 | 5.30 | 84917 | 6.96 | 45610 | 8.25 | | | | | | | |
| 1M152724.D | AD26024-004(50X) | 110901 | 5.30 | 88760 | 6.96 | 49528 | 8.25 | | | | | | | |
| 1M152725.D | AD26024-007(5X) | 109864 | 5.30 | 90287 | 6.96 | 49137 | 8.25 | | | | | | | |
| 1M152726.D | BLK | 101919 | 5.30 | 80790 | 6.96 | 43722 | 8.25 | | | | | | | |
| 1M152727.D | AD26048-002(5X) | 102795 | 5.30 | 83730 | 6.96 | 46334 | 8.25 | | | | | | | |

| | | | | |
|---|---|---|---|---|
| I1 = | Fluorobenzene | I4 = | I7 = | 625/8270 Internal Standard concentration = 40 mg/L (in final extract) |
| I2 = | Chlorobenzene-d5 | I5 = | | 624/8260 Internal Standard concentration = 30ug/L |
| I3 = | 1,4-Dichlorobenzene-d4 | I6 = | | 524 Internal Standard concentration =5ug/L |

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1091738 0517

# FORM8

Internal Standard Areas

Evaluation Std Data File: 1M152696.D  Method: EPA 8260D

Analysis Date/Time: 09/20/21 18:32

Lab File ID: CAL @ 20 PPB

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 104380 | 5.30 | 83717 | 6.96 | 46618 | 8.25 | | | | | | | | |
| Eval File Area Limit: | 52190-208760 | | 41858-167434 | | 23309-93236 | | | | | | | | | |
| Eval File Rt Limit: | 4.8-5.8 | | 6.46-7.46 | | 7.75-8.75 | | | | | | | | | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M152728.D | AD26048-001(20X) | 108826 | 5.30 | 88735 | 6.96 | 51376 | 8.25 | | | | | | | |
| 1M152729.D | AD26048-007(20X) | 107448 | 5.30 | 86978 | 6.96 | 50155 | 8.25 | | | | | | | |
| 1M152730.D | BLK | 100579 | 5.30 | 78818 | 6.96 | 43292 | 8.25 | | | | | | | |
| 1M152731.D | AD26024-006 | 99852 | 5.30 | 79708 | 6.96 | 42479 | 8.25 | | | | | | | |
| 1M152732.D | AD26024-005 | 100971 | 5.30 | 84807 | 6.96 | 45618 | 8.25 | | | | | | | |
| 1M152733.D | BLK | 102873 | 5.30 | 84580 | 6.96 | 45872 | 8.25 | | | | | | | |
| 1M152734.D | BLK | 102502 | 5.30 | 86138 | 6.96 | 45908 | 8.25 | | | | | | | |
| 1M152735.D | BLK | 100316 | 5.30 | 85050 | 6.96 | 46324 | 8.25 | | | | | | | |
| 1M152736.D | BLK | 99169 | 5.30 | 80605 | 6.96 | 42218 | 8.25 | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| I1 = | Fluorobenzene | I4 = | | I7 = | 625/8270 Internal Standard concentration = 40 mg/L (in final extract) |
| I2 = | Chlorobenzene-d5 | I5 = | | | 624/8260 Internal Standard concentration = 30ug/L |
| I3 = | 1,4-Dichlorobenzene-d4 | I6 = | | | 524 Internal Standard concentration =5ug/L |

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1091738 0518

# FORM8

Internal Standard Areas

Evaluation Std Data File: 1M152824.D  Method: EPA 8260D

Analysis Date/Time: 09/22/21 10:29

Lab File ID: CAL @ 20 PPB

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 95377 | 5.30 | 78052 | 6.96 | 44917 | 8.25 | | | | | | | | |
| Eval File Area Limit: | 47688-190754 | | 39026-156104 | | 22458-89834 | | | | | | | | | |
| Eval File Rt Limit: | 4.8-5.8 | | 6.46-7.46 | | 7.75-8.75 | | | | | | | | | |

| Data File | Sample# | | | | | | |
|---|---|---|---|---|---|---|---|
| 1M152822.D | 20 PPB | 87943 | 5.30 | 72503 | 6.96 | 40141 | 8.25 |
| 1M152823.D | 20 PPB | 95254 | 5.30 | 78450 | 6.96 | 44323 | 8.25 |
| 1M152825.D | BLK | 97038 | 5.30 | 78791 | 6.96 | 44539 | 8.25 |
| 1M152826.D | BLK | 86008 | 5.30 | 71217 | 6.96 | 38025 | 8.25 |
| 1M152827.D | BLK | 91448 | 5.30 | 75457 | 6.96 | 39727 | 8.25 |
| 1M152828.D | DAILY BLANK | 90195 | 5.30 | 74520 | 6.96 | 39382 | 8.25 |
| 1M152829.D | AD26083-012 | 90607 | 5.30 | 73882 | 6.96 | 38890 | 8.25 |
| 1M152830.D | AD26083-014 | 92743 | 5.30 | 76180 | 6.96 | 38520 | 8.25 |
| 1M152831.D | AD26083-016 | 94576 | 5.30 | 78346 | 6.96 | 40840 | 8.25 |
| 1M152832.D | AD26083-018 | 94230 | 5.30 | 76612 | 6.96 | 38773 | 8.25 |
| 1M152833.D | AD26083-019 | 88382 | 5.30 | 70366 | 6.96 | 36709 | 8.25 |
| 1M152834.D | AD26083-021 | 87471 | 5.30 | 73209 | 6.96 | 37473 | 8.25 |
| 1M152835.D | AD26083-023 | 90286 | 5.30 | 74108 | 6.96 | 38837 | 8.25 |
| 1M152836.D | AD26083-026 | 95611 | 5.30 | 80383 | 6.96 | 41332 | 8.25 |
| 1M152837.D | AD26083-028 | 91124 | 5.30 | 75750 | 6.96 | 41300 | 8.25 |
| 1M152838.D | AD26083-030 | 90648 | 5.30 | 74638 | 6.96 | 38363 | 8.25 |
| 1M152839.D | STD | 86809 | 5.30 | 69992 | 6.96 | 39554 | 8.25 |
| 1M152840.D | STD | 97342 | 5.30 | 78416 | 6.96 | 46007 | 8.25 |
| 1M152841.D | MBS96783 | 86508 | 5.30 | 68873 | 6.96 | 39865 | 8.25 |
| 1M152842.D | MBS96784 | 96662 | 5.30 | 77782 | 6.96 | 44221 | 8.25 |
| 1M152843.D | BLK | 92273 | 5.30 | 72117 | 6.96 | 39797 | 8.25 |
| 1M152844.D | BLK | 97116 | 5.30 | 80608 | 6.96 | 43035 | 8.25 |
| 1M152845.D | AD26046-001 | 97220 | 5.30 | 78312 | 6.96 | 42277 | 8.25 |
| 1M152846.D | AD26046-002 | 96486 | 5.30 | 80760 | 6.96 | 42691 | 8.25 |
| 1M152847.D | AD26162-002 | 88782 | 5.30 | 73932 | 6.96 | 39172 | 8.25 |
| 1M152848.D | AD26162-003 | 87973 | 5.30 | 73867 | 6.96 | 38844 | 8.25 |
| 1M152849.D | AD26162-002 | 89645 | 5.30 | 74859 | 6.96 | 39826 | 8.25 |
| 1M152850.D | AD26162-001 | 91165 | 5.30 | 76309 | 6.96 | 39841 | 8.25 |
| 1M152851.D | AD26046-006 | 90396 | 5.30 | 73643 | 6.96 | 38548 | 8.25 |
| 1M152852.D | AD26046-007 | 89334 | 5.30 | 74453 | 6.96 | 37720 | 8.25 |
| 1M152853.D | AD26083-027 | 89806 | 5.30 | 75326 | 6.96 | 39437 | 8.25 |
| 1M152854.D | AD26083-040 | 84782 | 5.30 | 70858 | 6.96 | 37113 | 8.25 |

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1091738 0519

# FORM8

Internal Standard Areas

Evaluation Std Data File: 1M152824.D  Method: EPA 8260D

Analysis Date/Time: 09/22/21 10:29

Lab File ID: CAL @ 20 PPB

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 95377 | 5.30 | 78052 | 6.96 | 44917 | 8.25 | | | | | | | | |
| Eval File Area Limit: | 47688-190754 | | 39026-156104 | | 22458-89834 | | | | | | | | | |
| Eval File Rt Limit: | 4.8-5.8 | | 6.46-7.46 | | 7.75-8.75 | | | | | | | | | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1M152855.D | AD26083-042(MS:AD | 84206 | 5.30 | 69881 | 6.96 | 38668 | 8.25 | | | | | | | |
| 1M152856.D | AD26083-044(MSD:A | 88460 | 5.30 | 72333 | 6.96 | 39866 | 8.25 | | | | | | | |
| 1M152857.D | BLK | 88925 | 5.30 | 73829 | 6.96 | 39346 | 8.25 | | | | | | | |
| 1M152858.D | AD26047-004 | 87278 | 5.30 | 71381 | 6.96 | 37614 | 8.25 | | | | | | | |
| 1M152859.D | AD25975-002 | 86932 | 5.30 | 72750 | 6.96 | 39505 | 8.25 | | | | | | | |

| | | | |
|---|---|---|---|
| I1 = | Fluorobenzene | I4 = | |
| I2 = | Chlorobenzene-d5 | I5 = | |
| I3 = | 1,4-Dichlorobenzene-d4 | I6 = | |

I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1091738 0520

# FORM8

Internal Standard Areas

Evaluation Std Data File: 2M157114.D  Method: EPA 8260D

Analysis Date/Time: 09/22/21 13:16

Lab File ID: CAL @ 20 PPB

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 215735 | 5.10 | 188989 | 6.73 | 107529 | 8.02 | | | | | | | | |
| Eval File Area Limit: | 107868-431470 | | 94494-377978 | | 53764-215058 | | | | | | | | | |
| Eval File Rt Limit: | 4.6-5.6 | | 6.23-7.23 | | 7.52-8.52 | | | | | | | | | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2M157115.D | 20 PPB | 233142 | 5.10 | 204291 | 6.73 | 119718 | 8.02 | | | | | | | |
| 2M157116.D | BLK | 216129 | 5.10 | 191949 | 6.73 | 107877 | 8.02 | | | | | | | |
| 2M157117.D | BLK | 229143 | 5.10 | 205039 | 6.73 | 108839 | 8.02 | | | | | | | |
| 2M157118.D | DAILY BLANK | 237559 | 5.10 | 212880 | 6.73 | 115364 | 8.02 | | | | | | | |
| 2M157119.D | AD26083-032 | 226714 | 5.10 | 203839 | 6.73 | 112756 | 8.02 | | | | | | | |
| 2M157120.D | AD26083-035 | 223983 | 5.10 | 202401 | 6.73 | 112862 | 8.02 | | | | | | | |
| 2M157121.D | AD26083-036 | 224908 | 5.10 | 203652 | 6.73 | 109292 | 8.02 | | | | | | | |
| 2M157122.D | AD26083-038 | 226865 | 5.10 | 202871 | 6.73 | 111102 | 8.02 | | | | | | | |
| 2M157123.D | AD26083-046 | 242816 | 5.10 | 218001 | 6.73 | 118568 | 8.02 | | | | | | | |
| 2M157124.D | AD26083-048 | 254039 | 5.10 | 230045 | 6.73 | 124543 | 8.02 | | | | | | | |
| 2M157125.D | AD26083-049(MS:AD | 210739 | 5.10 | 187116 | 6.73 | 110974 | 8.02 | | | | | | | |
| 2M157126.D | AD26083-050(MSD:A | 227933 | 5.10 | 205827 | 6.73 | 121368 | 8.02 | | | | | | | |
| 2M157127.D | MBS96787 | 216892 | 5.10 | 194152 | 6.73 | 110490 | 8.02 | | | | | | | |
| 2M157128.D | MBS96788 | 230056 | 5.10 | 202634 | 6.73 | 114020 | 8.02 | | | | | | | |
| 2M157129.D | BLK | 227636 | 5.10 | 203716 | 6.73 | 110712 | 8.02 | | | | | | | |
| 2M157130.D | BLK | 229229 | 5.10 | 205200 | 6.73 | 110495 | 8.02 | | | | | | | |
| 2M157131.D | AD25995-001(50X)(T) | 229309 | 5.10 | 204303 | 6.73 | 111843 | 8.02 | | | | | | | |
| 2M157132.D | AD25995-003(50X)(T) | 226627 | 5.10 | 200010 | 6.73 | 112126 | 8.02 | | | | | | | |
| 2M157133.D | AD25995-005(50X)(T) | 223347 | 5.10 | 201034 | 6.73 | 111859 | 8.02 | | | | | | | |
| 2M157134.D | AD26030-001(50X)(T) | 223107 | 5.10 | 200661 | 6.73 | 111436 | 8.02 | | | | | | | |
| 2M157135.D | AD26063-001(T) | 227075 | 5.10 | 206226 | 6.73 | 119397 | 8.02 | | | | | | | |
| 2M157136.D | AD25995-001(50X)(T: | 206727 | 5.10 | 184269 | 6.73 | 99897 | 8.02 | | | | | | | |
| 2M157137.D | AD25995-001(50X)(T: | 224765 | 5.10 | 202048 | 6.73 | 115259 | 8.02 | | | | | | | |
| 2M157138.D | AD26009-002(50X)(T) | 229184 | 5.10 | 207057 | 6.73 | 111846 | 8.02 | | | | | | | |
| 2M157139.D | AD26010-002(50X)(T) | 224103 | 5.10 | 199698 | 6.73 | 108043 | 8.02 | | | | | | | |
| 2M157140.D | AD26052-001(50X)(T) | 221422 | 5.10 | 197095 | 6.73 | 105974 | 8.02 | | | | | | | |
| 2M157141.D | AD26073-001(50X)(T) | 218875 | 5.10 | 199156 | 6.73 | 109658 | 8.02 | | | | | | | |
| 2M157142.D | AD26088-001(50X)(T) | 219321 | 5.10 | 197719 | 6.73 | 109359 | 8.02 | | | | | | | |
| 2M157143.D | AD26088-003(50X)(T) | 217646 | 5.10 | 195003 | 6.73 | 109450 | 8.02 | | | | | | | |
| 2M157144.D | AD26089-001(50X)(T) | 220151 | 5.10 | 199733 | 6.73 | 110390 | 8.02 | | | | | | | |
| 2M157145.D | 26151-001 | 222399 | 5.10 | 194194 | 6.73 | 107344 | 8.02 | | | | | | | |
| 2M157146.D | EF-1-V-357518(09212 | 221885 | 5.10 | 197448 | 6.73 | 111740 | 8.02 | | | | | | | |

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1091738 0521

# FORM8

Internal Standard Areas

Evaluation Std Data File: 2M157114.D  Method: EPA 8260D

Analysis Date/Time: 09/22/21 13:16

Lab File ID: CAL @ 20 PPB

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 215735 | 5.10 | 188989 | 6.73 | 107529 | 8.02 | | | | | | | | |
| Eval File Area Limit: | 107868-431470 | | 94494-377978 | | 53764-215058 | | | | | | | | | |
| Eval File Rt Limit: | 4.6-5.6 | | 6.23-7.23 | | 7.52-8.52 | | | | | | | | | |

| Data File | Sample# | | | | | | |
|---|---|---|---|---|---|---|---|
| 2M157147.D | AD26111-001(100X) | 219685 | 5.10 | 194655 | 6.73 | 107572 | 8.02 |
| 2M157148.D | AD26111-001(10X) | 218182 | 5.10 | 194668 | 6.73 | 106970 | 8.02 |

| | | | | | |
|---|---|---|---|---|---|
| I1 = | Fluorobenzene | I4 = | | I7 = | 625/8270 Internal Standard concentration = 40 mg/L (in final extract) |
| I2 = | Chlorobenzene-d5 | I5 = | | | 624/8260 Internal Standard concentration = 30ug/L |
| I3 = | 1,4-Dichlorobenzene-d4 | I6 = | | | 524 Internal Standard concentration =5ug/L |

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1091738 0522

# FORM8

Internal Standard Areas

Evaluation Std Data File: 1M152870.D  Method: EPA 8260D

Analysis Date/Time: 09/23/21 00:33

Lab File ID: CAL @ 20 PPB

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 91994 | 5.30 | 74895 | 6.96 | 42051 | 8.25 | | | | | | | | |
| Eval File Area Limit: | 45997-183988 | | 37448-149790 | | 21026-84102 | | | | | | | | | |
| Eval File Rt Limit: | 4.8-5.8 | | 6.46-7.46 | | 7.75-8.75 | | | | | | | | | |

| Data File | Sample# | | | | | | |
|---|---|---|---|---|---|---|---|
| 1M152871.D | 20 PPB | 95702 | 5.30 | 77542 | 6.96 | 45277 | 8.25 |
| 1M152872.D | BLK | 81804 | 5.30 | 65724 | 6.96 | 35971 | 8.25 |
| 1M152873.D | BLK | 85056 | 5.30 | 70723 | 6.96 | 37693 | 8.25 |
| 1M152874.D | BLK | 87076 | 5.30 | 73043 | 6.96 | 38665 | 8.25 |
| 1M152875.D | DAILY BLANK | 88271 | 5.30 | 73425 | 6.96 | 40304 | 8.25 |
| 1M152876.D | AD26083-008(MS) | 82517 | 5.30 | 67977 | 6.96 | 37505 | 8.25 |
| 1M152877.D | AD26083-008(MSD) | 87730 | 5.30 | 72996 | 6.96 | 40825 | 8.25 |
| 1M152878.D | MBS96791 | 85500 | 5.30 | 69611 | 6.96 | 39144 | 8.25 |
| 1M152879.D | MBS96792 | 88432 | 5.30 | 72523 | 6.96 | 40091 | 8.25 |
| 1M152880.D | BLK | 86848 | 5.30 | 71431 | 6.96 | 38878 | 8.25 |
| 1M152881.D | BLK | 86811 | 5.30 | 71256 | 6.96 | 39478 | 8.25 |
| 1M152882.D | AD26083-033 | 89349 | 5.30 | 73425 | 6.96 | 38953 | 8.25 |
| 1M152883.D | AD26083-034 | 92935 | 5.30 | 77047 | 6.96 | 42003 | 8.25 |
| 1M152884.D | AD26083-051 | 88562 | 5.30 | 72970 | 6.96 | 38680 | 8.25 |
| 1M152885.D | AD26083-010 | 86915 | 5.30 | 74123 | 6.96 | 38982 | 8.25 |
| 1M152886.D | AD26083-005 | 88298 | 5.30 | 73126 | 6.96 | 38518 | 8.25 |
| 1M152887.D | AD26083-025 | 82349 | 5.30 | 68574 | 6.96 | 35850 | 8.25 |
| 1M152888.D | AD26051-012 | 85517 | 5.30 | 72016 | 6.96 | 38688 | 8.25 |
| 1M152889.D | AD26051-013 | 85274 | 5.30 | 71137 | 6.96 | 38262 | 8.25 |
| 1M152890.D | AD26051-014 | 83960 | 5.30 | 69089 | 6.96 | 36719 | 8.25 |
| 1M152891.D | AD26083-027 | 91776 | 5.30 | 77266 | 6.96 | 40727 | 8.25 |
| 1M152892.D | AD26083-040 | 87089 | 5.30 | 73682 | 6.96 | 38686 | 8.25 |
| 1M152893.D | AD26083-001 | 85842 | 5.30 | 71433 | 6.96 | 36705 | 8.25 |
| 1M152894.D | AD26083-002 | 86937 | 5.30 | 72680 | 6.96 | 38204 | 8.25 |
| 1M152895.D | AD26083-006 | 86707 | 5.30 | 74535 | 6.96 | 38989 | 8.25 |
| 1M152896.D | AD26083-008 | 87742 | 5.30 | 76150 | 6.96 | 39119 | 8.25 |
| 1M152897.D | AD26083-009 | 86754 | 5.30 | 73024 | 6.96 | 37943 | 8.25 |
| 1M152898.D | AD26083-011 | 83625 | 5.30 | 71035 | 6.96 | 36991 | 8.25 |
| 1M152899.D | AD26046-003 | 86632 | 5.30 | 73368 | 6.96 | 38974 | 8.25 |
| 1M152900.D | AD26046-004 | 86432 | 5.30 | 72053 | 6.96 | 37411 | 8.25 |
| 1M152901.D | AD26046-005 | 88417 | 5.30 | 73765 | 6.96 | 38169 | 8.25 |
| 1M152902.D | BLK | 88924 | 5.30 | 72626 | 6.96 | 36983 | 8.25 |

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1091738 0523

# FORM8

Internal Standard Areas

Evaluation Std Data File: 2M157195.D  Method: EPA 8260D

Analysis Date/Time: 09/23/21 15:25

Lab File ID: CAL @ 20 PPB

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 219573 | 5.10 | 194965 | 6.73 | 110871 | 8.02 | | | | | | | | |
| Eval File Area Limit: | 109786-439146 | | 97482-389930 | | 55436-221742 | | | | | | | | | |
| Eval File Rt Limit: | 4.6-5.6 | | 6.23-7.23 | | 7.52-8.52 | | | | | | | | | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2M157196.D | 20 PPB | 228310 | 5.10 | 203770 | 6.73 | 118094 | 8.02 | | | | | | | |
| 2M157198.D | BLK | 231803 | 5.10 | 209767 | 6.73 | 115192 | 8.02 | | | | | | | |
| 2M157199.D | DAILY BLANK | 225675 | 5.10 | 207477 | 6.73 | 116938 | 8.02 | | | | | | | |
| 2M157200.D | DAILY BLANK | 230688 | 5.09 | 210308 | 6.73 | 121675 | 8.02 | | | | | | | |
| 2M157202.D | AD26047-005(5X) | 237276 | 5.10 | 218208 | 6.73 | 124289 | 8.02 | | | | | | | |
| 2M157203.D | MBS96794 | 232095 | 5.09 | 211386 | 6.73 | 126636 | 8.02 | | | | | | | |
| 2M157204.D | MBS96795 | 235622 | 5.10 | 211039 | 6.73 | 121364 | 8.02 | | | | | | | |
| 2M157205.D | AD26002-005 | 235643 | 5.10 | 214664 | 6.73 | 118381 | 8.02 | | | | | | | |
| 2M157206.D | AD26083-010 | 236929 | 5.10 | 214890 | 6.73 | 119073 | 8.02 | | | | | | | |
| 2M157210.D | AD26002-005(MS) | 236418 | 5.10 | 214149 | 6.73 | 123438 | 8.02 | | | | | | | |
| 2M157211.D | AD26120-001 | 235104 | 5.10 | 214102 | 6.73 | 118257 | 8.02 | | | | | | | |
| 2M157212.D | AD26002-005(MSD) | 237388 | 5.10 | 215098 | 6.73 | 123766 | 8.02 | | | | | | | |
| 2M157213.D | BLK | 236003 | 5.10 | 212718 | 6.73 | 120021 | 8.02 | | | | | | | |
| 2M157214.D | BLK | 232148 | 5.10 | 207393 | 6.73 | 112615 | 8.02 | | | | | | | |
| 2M157215.D | AD26005-005 | 229261 | 5.10 | 211021 | 6.73 | 117998 | 8.03 | | | | | | | |
| 2M157216.D | AD26078-001 | 230380 | 5.10 | 210349 | 6.73 | 114359 | 8.02 | | | | | | | |
| 2M157217.D | AD26051-005 | 229146 | 5.10 | 204754 | 6.73 | 113249 | 8.02 | | | | | | | |
| 2M157218.D | AD26100-007 | 225151 | 5.10 | 206665 | 6.73 | 116129 | 8.02 | | | | | | | |
| 2M157219.D | AD26051-010 | 226206 | 5.10 | 206761 | 6.73 | 114080 | 8.02 | | | | | | | |
| 2M157220.D | AD26100-006(10X) | 229613 | 5.10 | 208897 | 6.73 | 113019 | 8.02 | | | | | | | |
| 2M157221.D | AD26051-011(5X) | 223367 | 5.10 | 203531 | 6.73 | 113630 | 8.02 | | | | | | | |
| 2M157222.D | AD26051-009 | 230502 | 5.10 | 209872 | 6.73 | 117702 | 8.02 | | | | | | | |
| 2M157223.D | AD26051-006 | 228898 | 5.10 | 205902 | 6.73 | 110271 | 8.02 | | | | | | | |
| 2M157224.D | BLK | 226110 | 5.10 | 208243 | 6.73 | 115022 | 8.02 | | | | | | | |
| 2M157225.D | AD26121-001 | 222392 | 5.10 | 204665 | 6.73 | 113213 | 8.02 | | | | | | | |
| 2M157226.D | AD26121-002 | 220476 | 5.10 | 200478 | 6.73 | 111034 | 8.02 | | | | | | | |
| 2M157227.D | AD26121-003 | 256827 | 5.10 | 236878 | 6.73 | 130637 | 8.02 | | | | | | | |
| 2M157228.D | AD26121-004 | 229093 | 5.10 | 204997 | 6.73 | 114456 | 8.02 | | | | | | | |
| 2M157229.D | AD26121-005 | 233691 | 5.10 | 216768 | 6.73 | 121515 | 8.02 | | | | | | | |
| 2M157230.D | AD26121-006 | 228317 | 5.10 | 206013 | 6.73 | 113417 | 8.02 | | | | | | | |
| 2M157231.D | STD | 229176 | 5.10 | 204844 | 6.73 | 119002 | 8.02 | | | | | | | |
| 2M157232.D | BLK | 228347 | 5.10 | 204270 | 6.73 | 111192 | 8.02 | | | | | | | |

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1091738 0524

# FORM8

Internal Standard Areas

Evaluation Std Data File: 2M157195.D  Method: EPA 8260D

Analysis Date/Time: 09/23/21 15:25

Lab File ID: CAL @ 20 PPB

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 219573 | 5.10 | 194965 | 6.73 | 110871 | 8.02 | | | | | | | | |
| Eval File Area Limit: | 109786-439146 | | 97482-389930 | | 55436-221742 | | | | | | | | | |
| Eval File Rt Limit: | 4.6-5.6 | | 6.23-7.23 | | 7.52-8.52 | | | | | | | | | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2M157233.D | BLK | 221860 | 5.10 | 205851 | 6.73 | 114293 | 8.02 | | | | | | | |
| 2M157234.D | BLK | 222047 | 5.10 | 201281 | 6.73 | 113705 | 8.02 | | | | | | | |
| 2M157235.D | BLK | 218209 | 5.10 | 197722 | 6.73 | 106684 | 8.02 | | | | | | | |
| 2M157236.D | BLK | 222554 | 5.10 | 203920 | 6.73 | 110521 | 8.02 | | | | | | | |
| 2M157237.D | BLK | 236694 | 5.10 | 213928 | 6.73 | 115385 | 8.02 | | | | | | | |
| 2M157238.D | BLK | 226751 | 5.10 | 205325 | 6.73 | 108492 | 8.02 | | | | | | | |
| 2M157239.D | STD | 213133 | 5.10 | 188449 | 6.73 | 107747 | 8.02 | | | | | | | |
| 2M157240.D | STD | 218984 | 5.10 | 197424 | 6.73 | 117316 | 8.02 | | | | | | | |
| 2M157241.D | BLK | 226385 | 5.10 | 206986 | 6.73 | 117020 | 8.02 | | | | | | | |
| 2M157242.D | BLK | 221441 | 5.10 | 201858 | 6.73 | 111138 | 8.02 | | | | | | | |

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

# GC/MS Volatile Data
# Sample Data

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-001
Client Id: LTMW-22-20210913
Data File: 1M152893.D
Analysis Date: 09/23/21 07:45
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

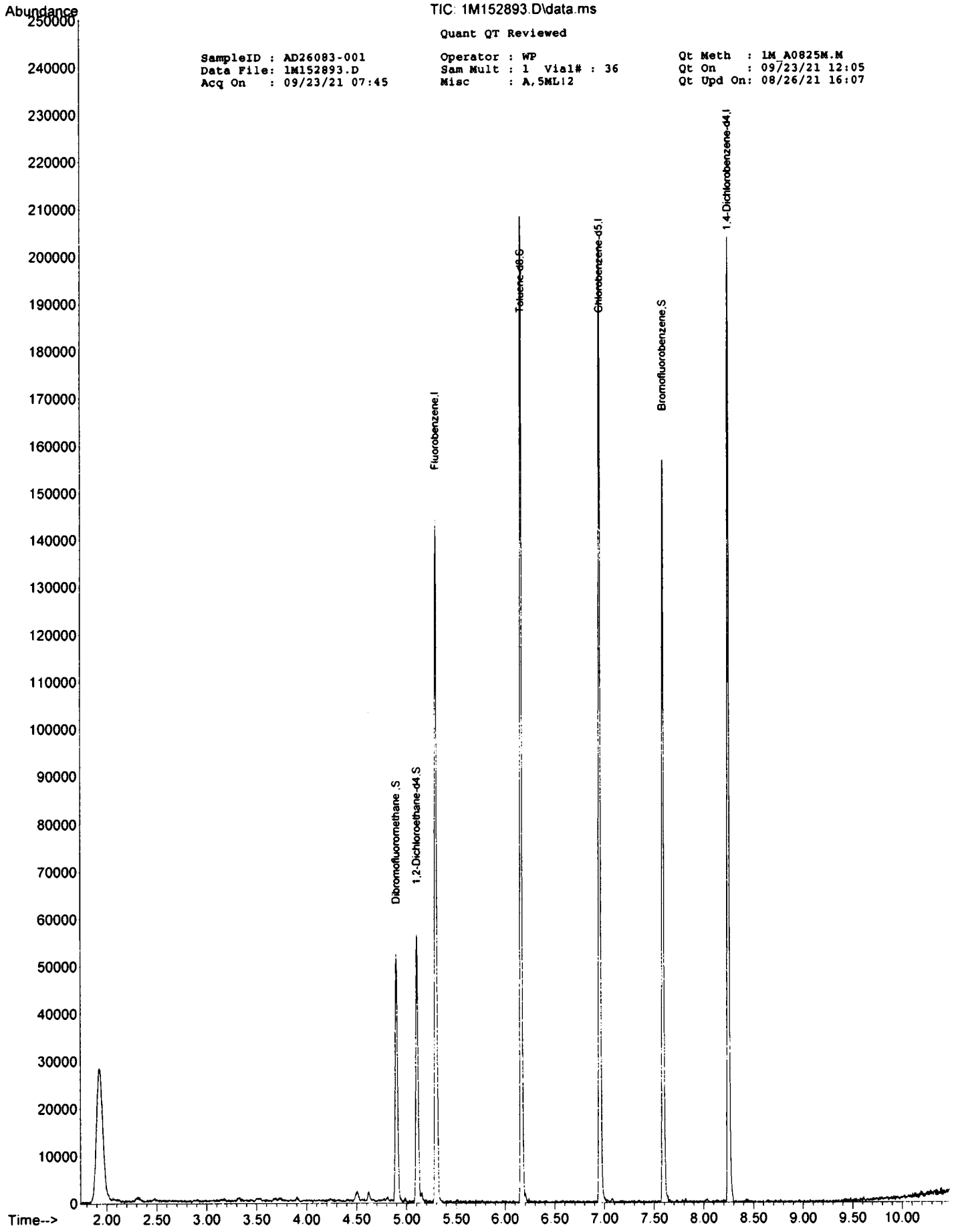
Quantitation Report (QT Reviewed)

SampleID : AD26083-001 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152893.D Sam Mult : 1 Vial# : 36 Qt On : 09/23/21 12:05
Acq On : 09/23/21 07:45 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 85842 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 71433 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 36705 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 23847 | 31.78 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 105.93% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 14147 | 34.68 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 115.60% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 86409 | 28.42 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 94.73% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 28300 | 29.74 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.13% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152893.D\data.ms
Quant QT Reviewed
SampleID : AD26083-001
Data File: 1M152893.D
Acq On : 09/23/21 07:45
Operator : WP
Sam Mult : 1 Vial# : 36
Misc : A,5ML;2
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:05
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-002
Client Id: LTMW-8-20210913
Data File: 1M152894.D
Analysis Date: 09/23/21 08:04
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| **123-91-1** | **1,4-Dioxane** | **50** | **130** | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | **1634-04-4** | **Methyl-t-butyl ether** | **0.50** | **0.69** |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| **67-64-1** | **Acetone** | **5.0** | **24** | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

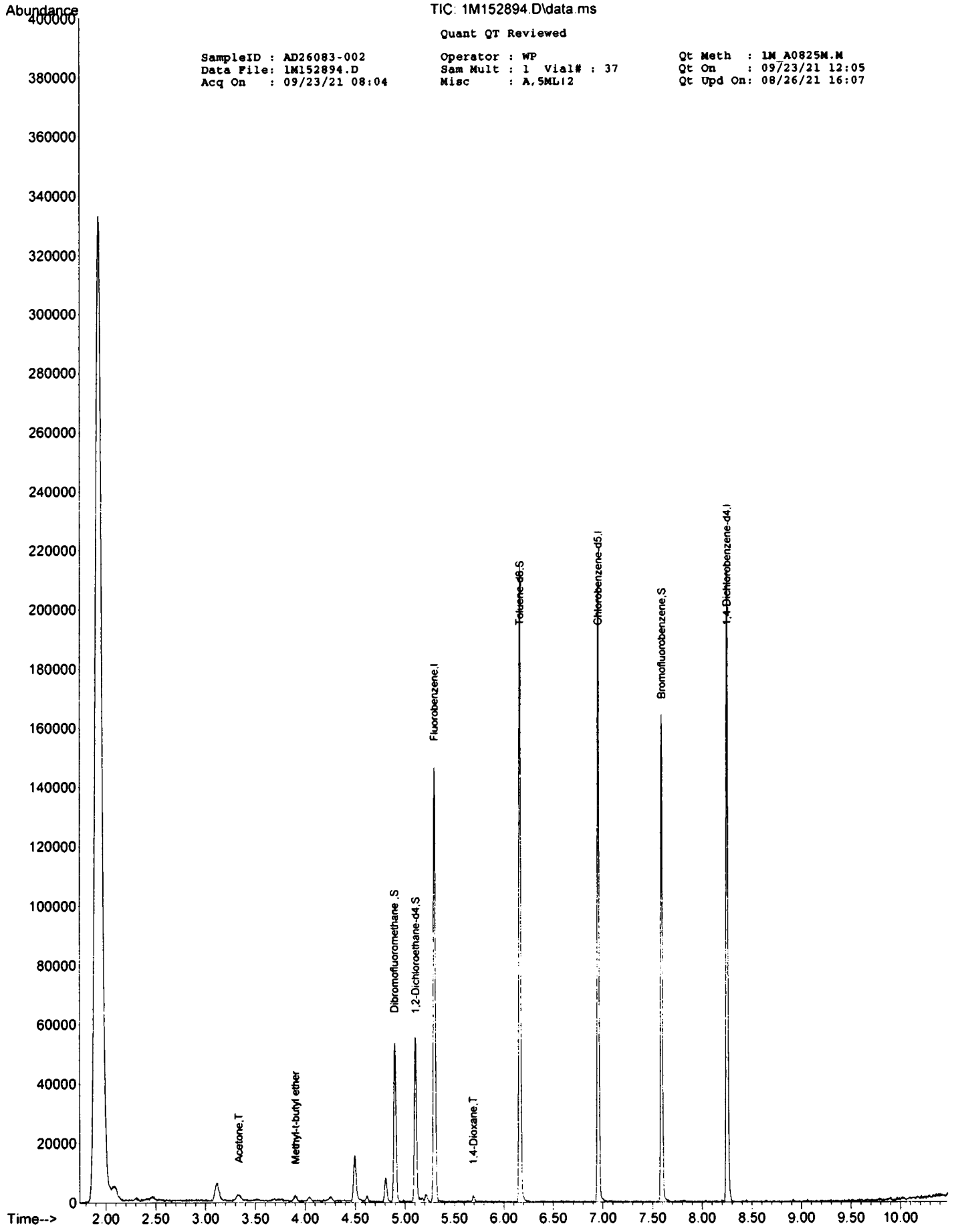
Quantitation Report (QT Reviewed)

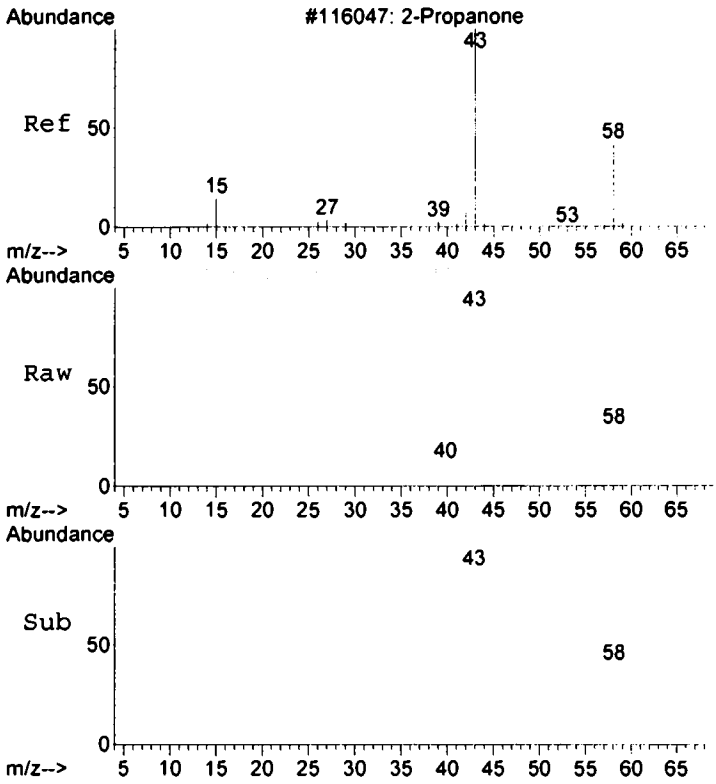
SampleID : AD26083-002 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152894.D Sam Mult : 1 Vial# : 37 Qt On : 09/23/21 12:05
Acq On : 09/23/21 08:04 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 86937 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 72680 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 38204 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.898 | 111 | 24757 | 32.58 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.60% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 14320 | 34.66 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 115.53% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 89373 | 28.89 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.30% | | | |
| 76) Bromofluorobenzene | 7.596 | 174 | 29531 | 29.81 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.37% | | | |
| Target Compounds | | | | | | Qvalue |
| 19) Acetone | 3.335 | 43 | 4032m | 24.2056 | ug/l | |
| 26) Methyl-t-butyl ether | 3.904 | 73 | 1178m | 0.6853 | ug/l | |
| 34) 1,4-Dioxane | 5.695 | 88 | 976 | 126.4872 | ug/l | 82 |

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

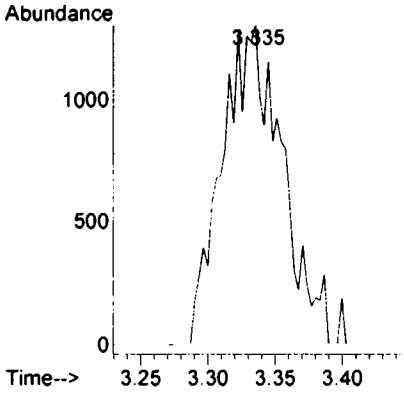

Abundance
TIC: 1M152894.D\data.ms
Quant QT Reviewed
SampleID : AD26083-002
Data File: 1M152894.D
Acq On : 09/23/21 08:04
Operator : WP
Sam Mult : 1 Vial# : 37
Misc : A,5ML;2
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:05
Qt Upd On: 08/26/21 16:07
Acetone,T
Methyl-t-butyl ether
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
1,4-Dioxane,T
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

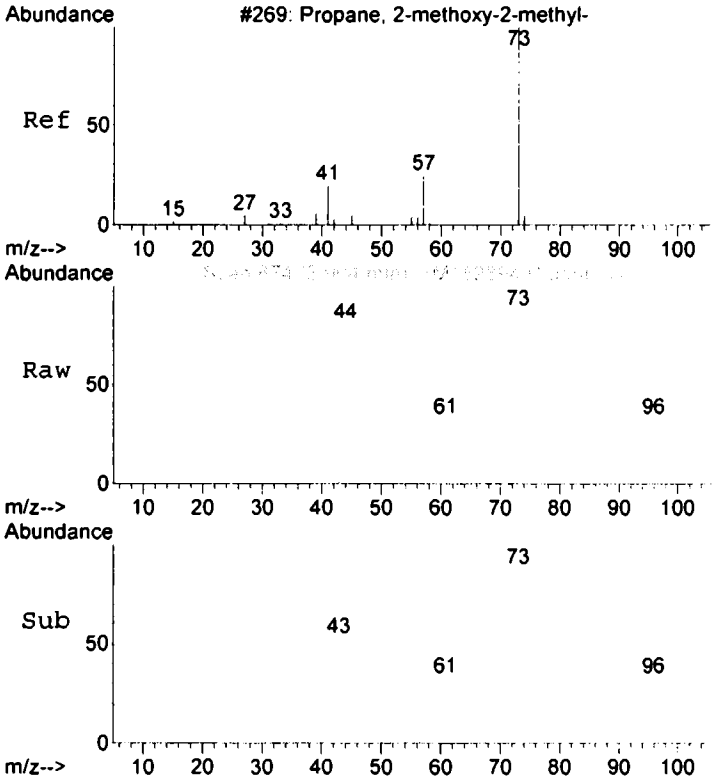



#19
Acetone
Concen: 24.21 ug/l m
RT: 3.335 min Scan# 497
Delta R.T. 0.007 min
Lab File: 1M152894.D
Acq: 23 Sep 2021 08:04

Tgt Ion: 43 Resp: 4032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.4 | 0.0 | 64.2 |

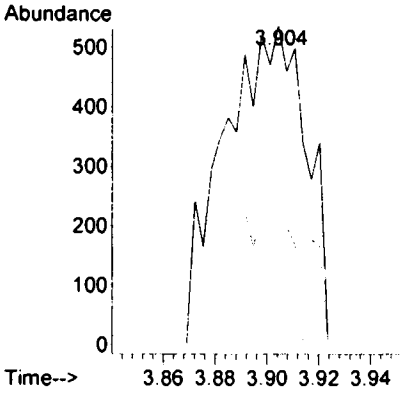


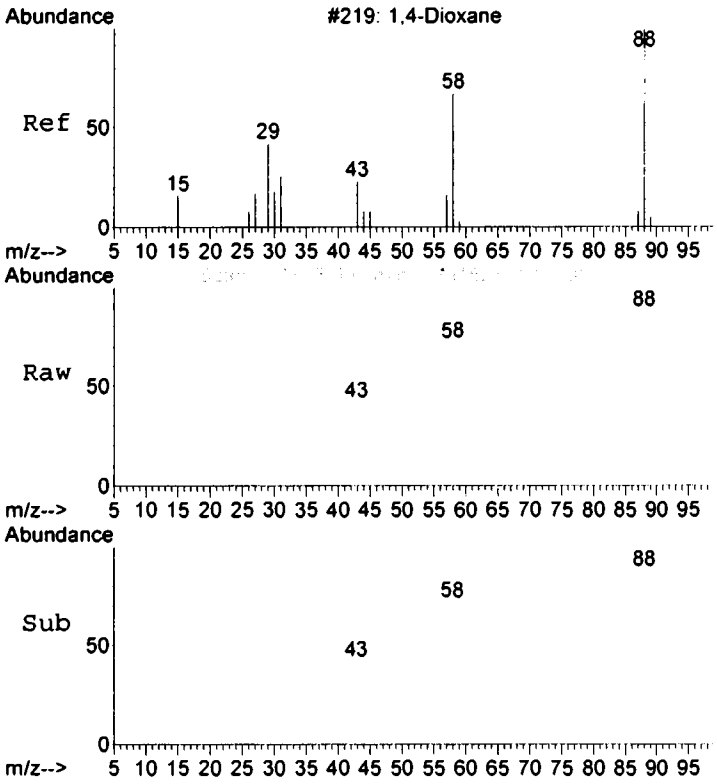




#26
Methyl-t-butyl ether
Concen: 0.69 ug/l m
RT: 3.904 min Scan# 674
Delta R.T. 0.007 min
Lab File: 1M152894.D
Acq: 23 Sep 2021 08:04

Tgt Ion: 73 Resp: 1178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 43 | 32.9 | 0.0 | 121.4 |
| 41 | 24.2 | 0.0 | 117.8 |
| 57 | 22.9 | 0.0 | 139.7 |

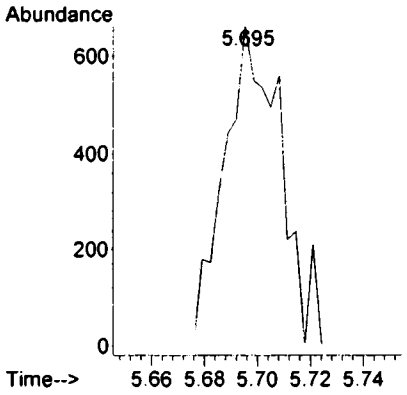





#34
1,4-Dioxane
Concen: 126.49 ug/l
RT: 5.695 min Scan# 1231
Delta R.T. 0.000 min
Lab File: 1M152894.D
Acq: 23 Sep 2021 08:04

Tgt Ion: 88 Resp: 976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 72.4 | 3.7 | 123.7 |
| 57 | 40.0 | 0.0 | 82.0 |



# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-003
Client Id: LTMW-10-20210913 U
Data File: 1M152702.D
Analysis Date: 09/20/21 20:25
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | **1634-04-4** | **Methyl-t-butyl ether** | **0.50** | **0.76** |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0.76

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

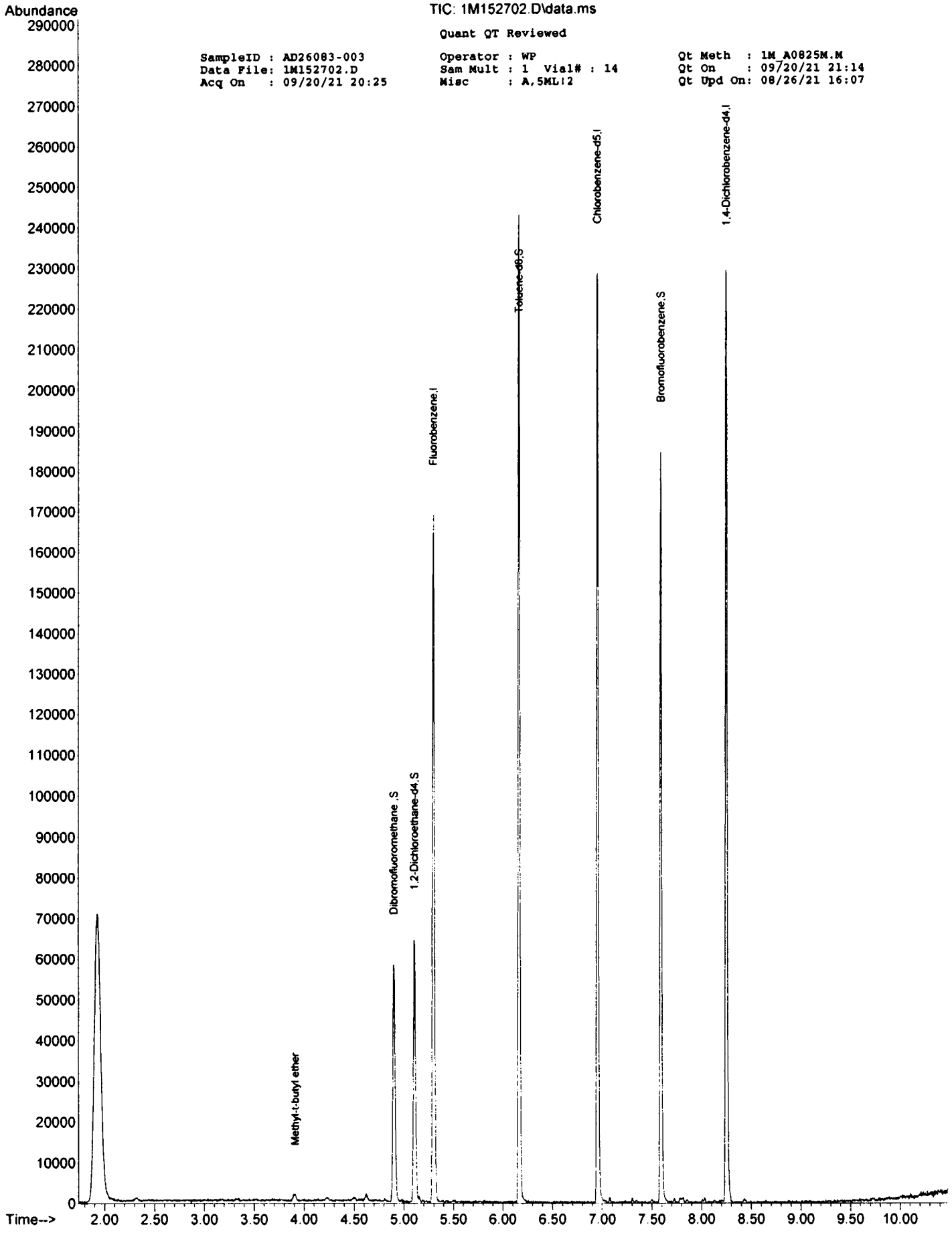
Quantitation Report (QT Reviewed)

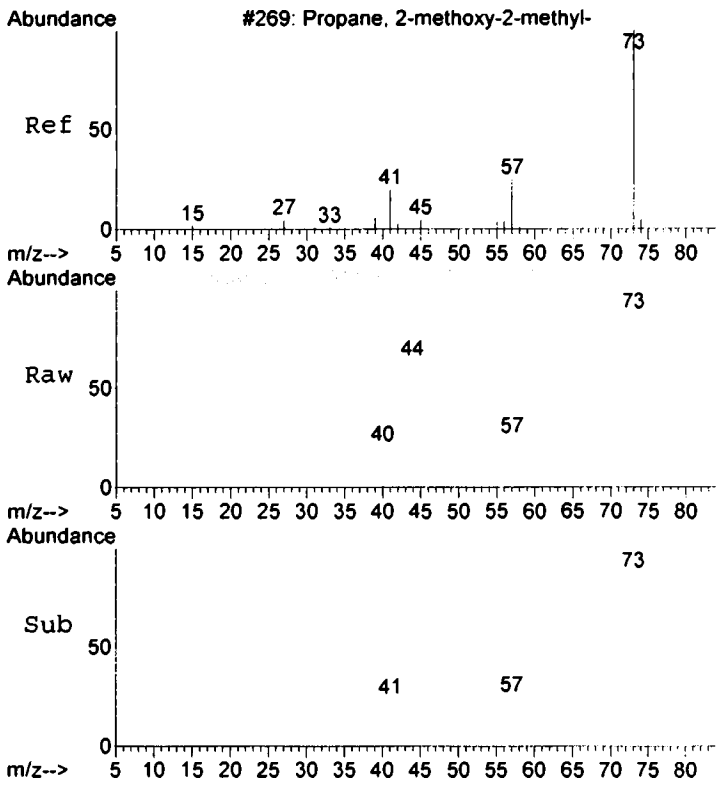
SampleID : AD26083-003 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152702.D Sam Mult : 1 Vial# : 14 Qt On : 09/20/21 21:14
Acq On : 09/20/21 20:25 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-20-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 99912 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 80502 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 41496 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 26993 | 30.90 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.00% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 16287 | 34.30 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 114.33% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 99332 | 28.99 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.63% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 33219 | 30.88 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 102.93% | | | |
| Target Compounds | | | | | | Qvalue |
| 26) Methyl-t-butyl ether | 3.911 | 73 | 1507m | 0.7628 | ug/l | |

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

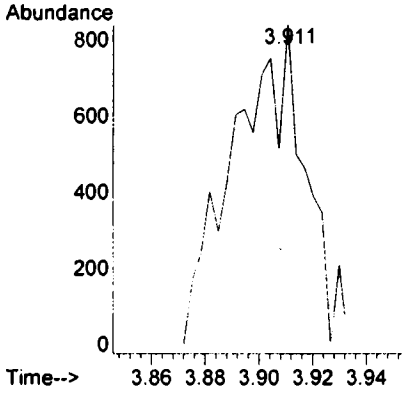

Abundance
TIC: 1M152702.D\data.ms
Quant QT Reviewed
SampleID : AD26083-003
Data File: 1M152702.D
Acq On : 09/20/21 20:25
Operator : WP
Sam Mult : 1 Vial# : 14
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/20/21 21:14
Qt Upd On: 08/26/21 16:07
Methyl-t-butyl ether
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->




#26
Methyl-t-butyl ether
Concen: 0.76 ug/l m
RT: 3.911 min Scan# 676
Delta R.T. 0.014 min
Lab File: 1M152702.D
Acq: 20 Sep 2021 20:25

Tgt Ion: 73 Resp: 1507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 43 | 10.0 | 0.0 | 121.4 |
| 41 | 25.1 | 0.0 | 117.8 |
| 57 | 17.8 | 0.0 | 139.7 |



# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-005
Client Id: FB-20210913
Data File: 1M152886.D
Analysis Date: 09/23/21 05:33
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

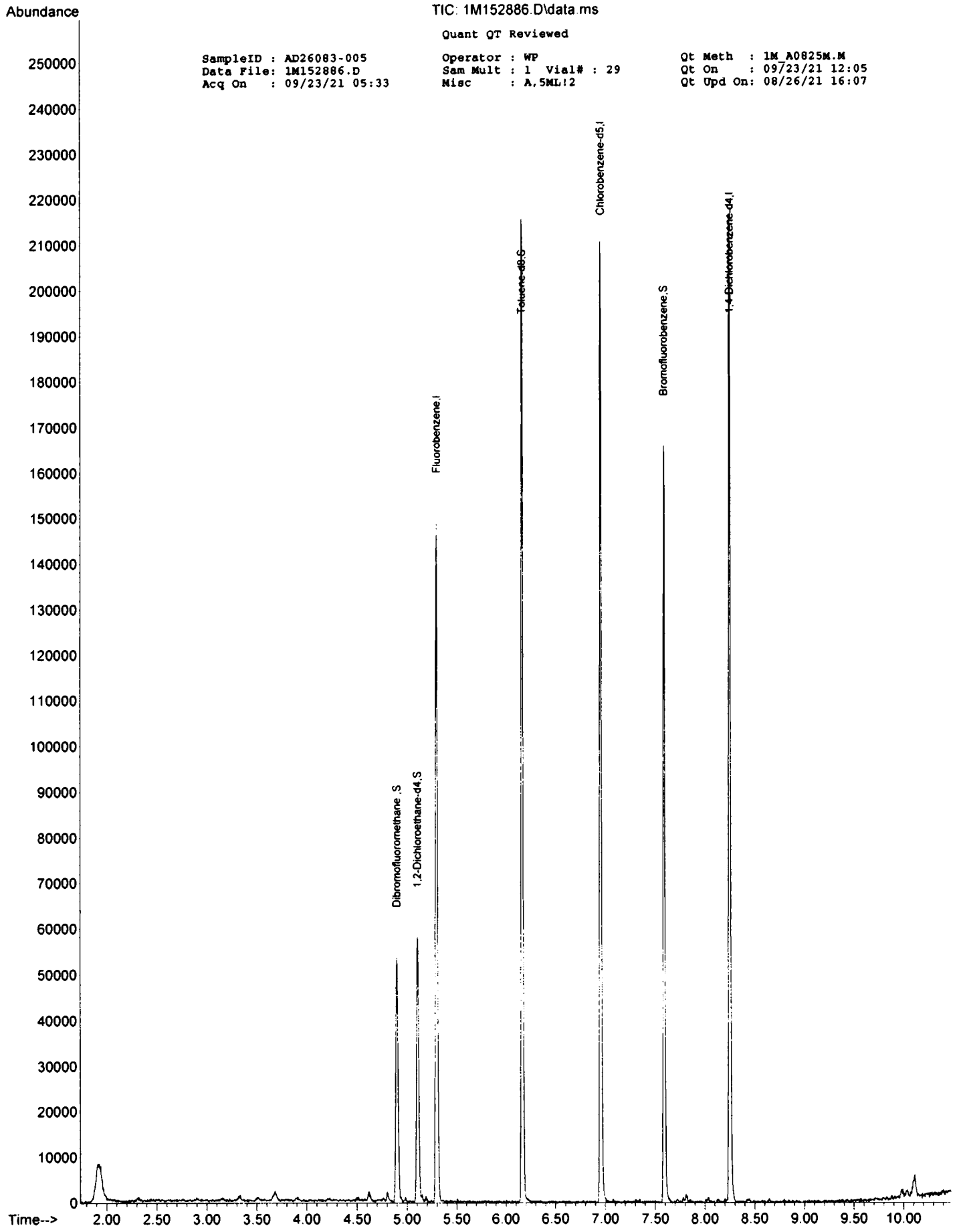
Quantitation Report (QT Reviewed)

SampleID : AD26083-005 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152886.D Sam Mult : 1 Vial# : 29 Qt On : 09/23/21 12:05
Acq On : 09/23/21 05:33 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 88298 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 73126 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 38518 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 25601 | 33.17 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 110.57% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 14617 | 34.83 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 116.10% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 88865 | 28.55 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.17% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 30966 | 31.01 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.37% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152886.D\data.ms
Quant QT Reviewed
SampleID : AD26083-005
Data File: 1M152886.D
Acq On : 09/23/21 05:33
Operator : WP
Sam Mult : 1 Vial# : 29
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:05
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-006
Client Id: LTMW-9-20210913 U
Data File: 1M152895.D
Analysis Date: 09/23/21 08:23
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Quantitation Report (QT Reviewed)

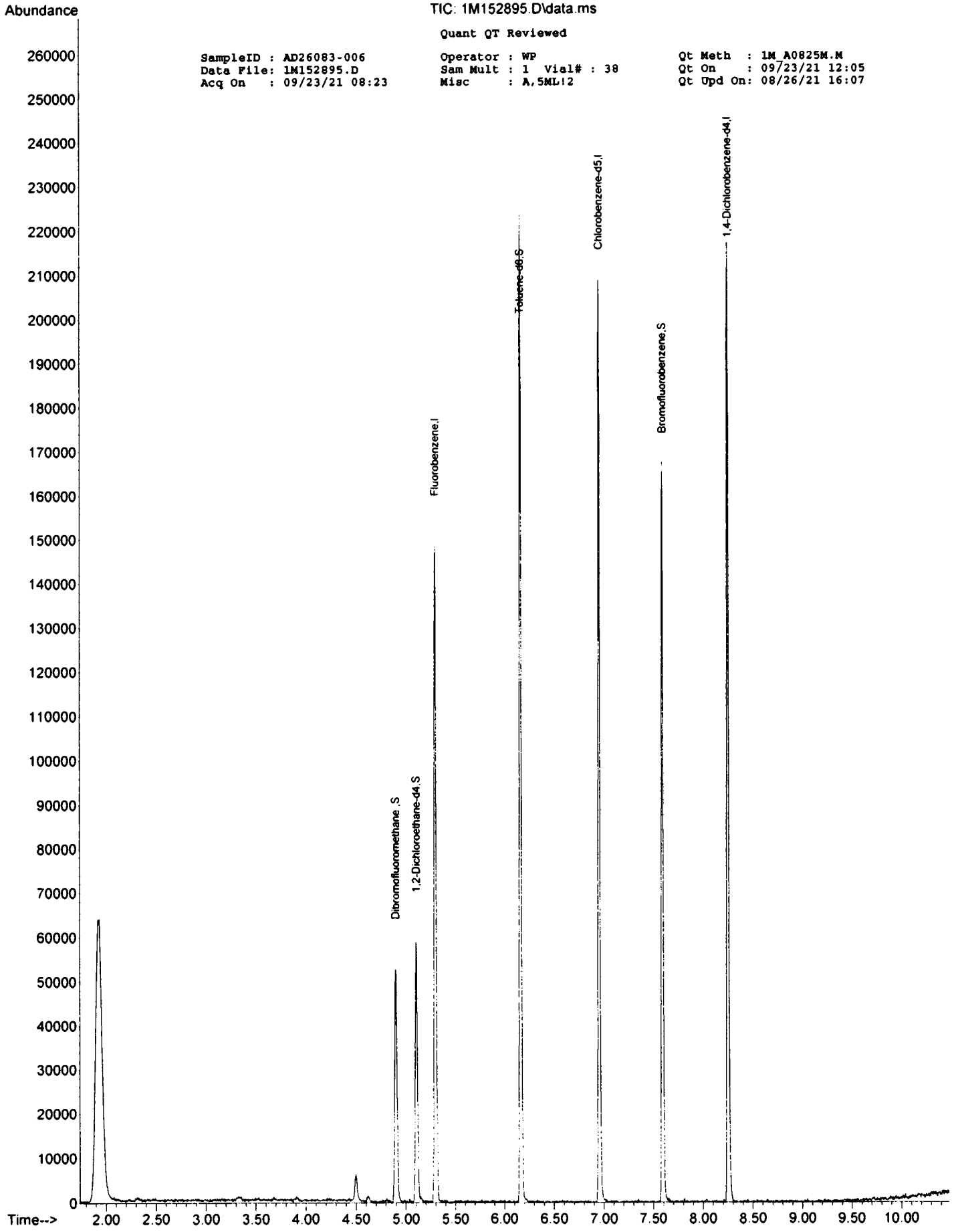
SampleID : AD26083-006 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152895.D Sam Mult : 1 Vial# : 38 Qt On : 09/23/21 12:05
Acq On : 09/23/21 08:23 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 86707 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 74535 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.254 | 152 | 38989 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 25263 | 33.33 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 111.10% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 14745 | 35.78 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 119.27% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 90129 | 28.41 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 94.70% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 30127 | 29.80 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.33% | | | |

Target Compounds Qvalue

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


Abundance
TIC: 1M152895.D\data.ms
Quant QT Reviewed
SampleID : AD26083-006
Data File: 1M152895.D
Acq On : 09/23/21 08:23
Operator : WP
Sam Mult : 1 Vial# : 38
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:05
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-008
Client Id: LTMW-11-20210913
Data File: 1M152896.D
Analysis Date: 09/23/21 08:41
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Quantitation Report (Not Reviewed)

SampleID : AD26083-008 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152896.D Sam Mult : 1 Vial# : 39 Qt On : 09/23/21 12:06
Acq On : 09/23/21 08:41 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 87742 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.955 | 117 | 76150 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.254 | 152 | 39119 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.904 | 111 | 25555 | 33.32 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 111.07% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 15265 | 36.61 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 122.03% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 91574 | 28.25 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 94.17% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 31456 | 31.01 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.37% | | | |
| Target Compounds | | | | | | Qvalue |

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

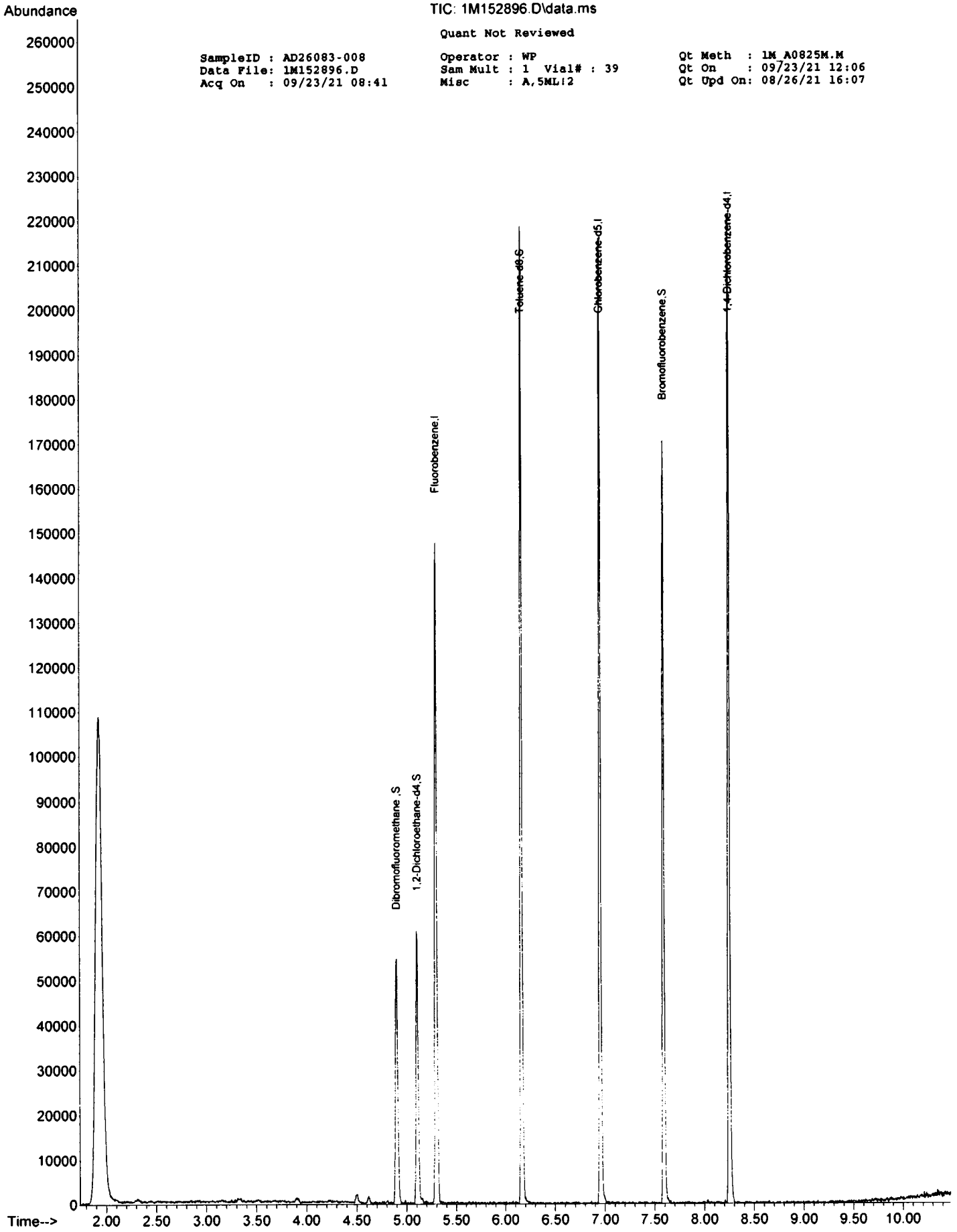
TIC: 1M152896.D\data.ms

Quant Not Reviewed

SampleID : AD26083-008
Data File: 1M152896.D
Acq On : 09/23/21 08:41

Operator : WP
Sam Mult : 1 Vial# : 39
Misc : A,5ML;2

Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:06
Qt Upd On: 08/26/21 16:07



# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-009
Client Id: DUP-01-20210913
Data File: 1M152897.D
Analysis Date: 09/23/21 09:00
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Quantitation Report (Not Reviewed)

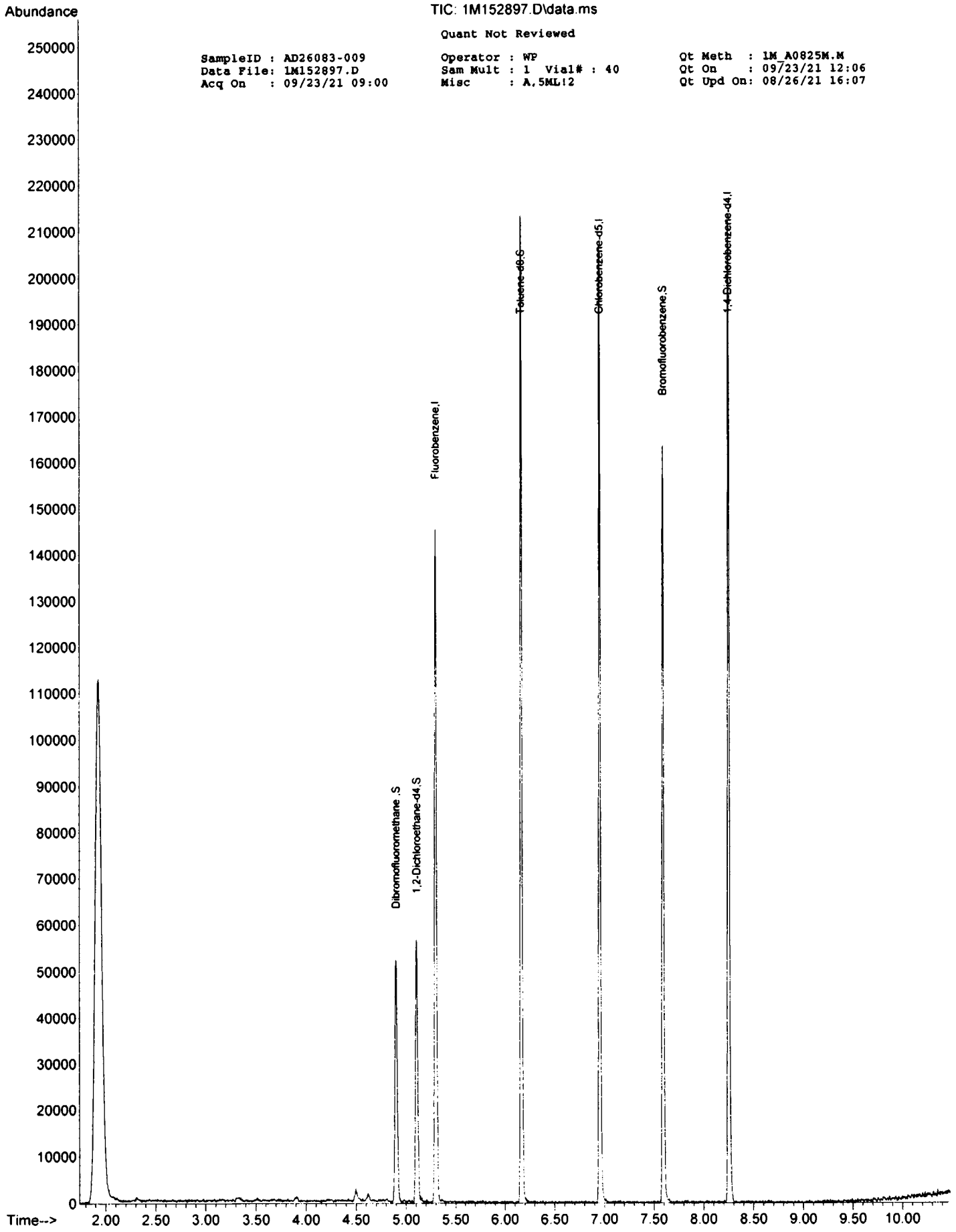
SampleID : AD26083-009 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152897.D Sam Mult : 1 Vial# : 40 Qt On : 09/23/21 12:06
Acq On : 09/23/21 09:00 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 86754 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 73024 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 37943 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 25331 | 33.40 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 111.33% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 14786 | 35.86 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 119.53% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 89128 | 28.68 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.60% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 29933 | 30.43 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 101.43% | | | |

Target Compounds Qvalue

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


Abundance
TIC: 1M152897.D\data.ms
Quant Not Reviewed
SampleID : AD26083-009
Data File: 1M152897.D
Acq On : 09/23/21 09:00
Operator : WP
Sam Mult : 1 Vial# : 40
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:06
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-010
Client Id: TB-01-20210913
Data File: 2M157206.D
Analysis Date: 09/23/21 19:00
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

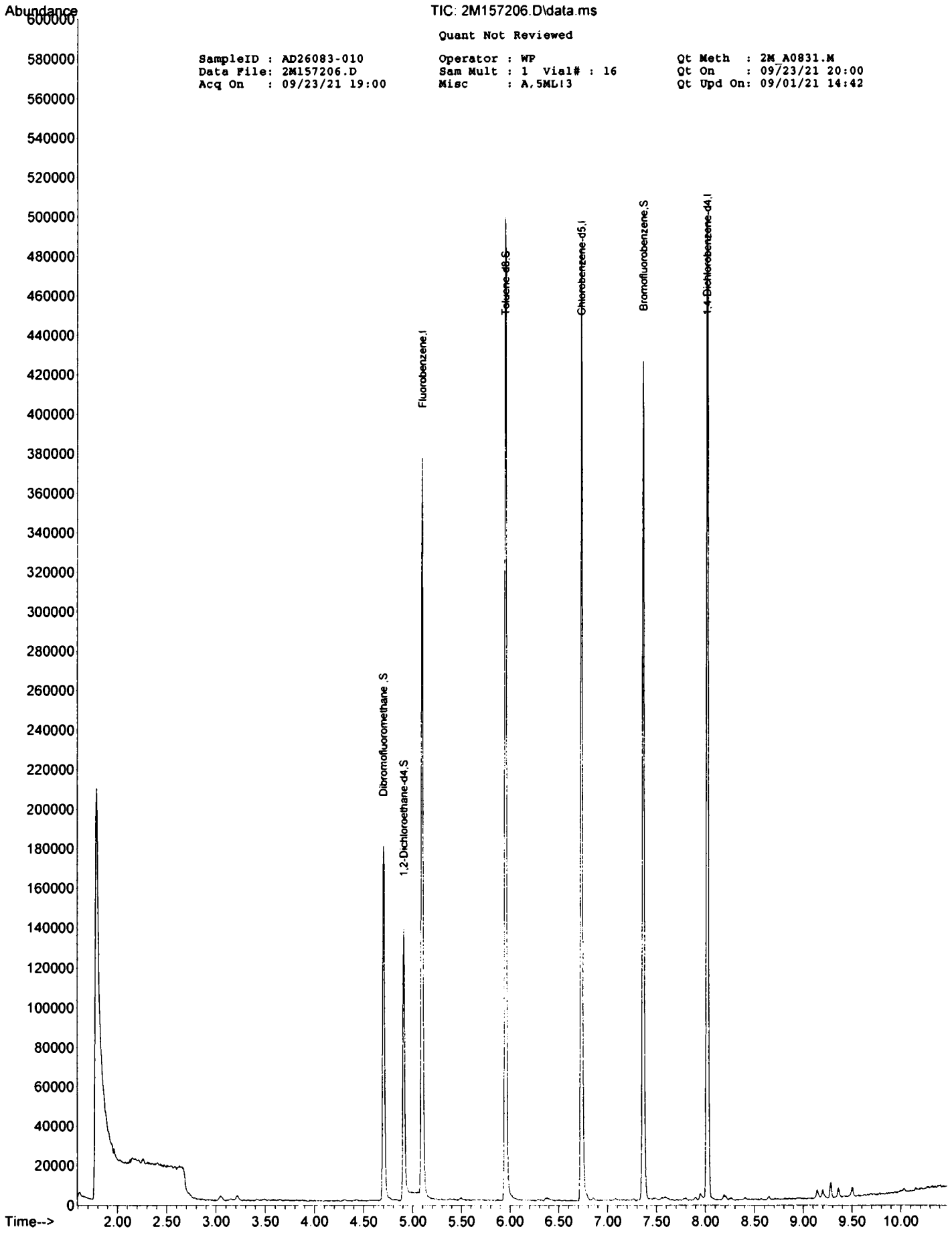
Quantitation Report (Not Reviewed)

SampleID : AD26083-010 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157206.D Sam Mult : 1 Vial# : 16 Qt On : 09/23/21 20:00
Acq On : 09/23/21 19:00 Misc : A,5ML!3 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\09-2321\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 236929 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 214890 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 119073 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 68605 | 31.78 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 105.93% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 30509 | 26.01 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 86.70% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 237657 | 25.47 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 84.90% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 113505 | 31.35 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 104.50% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 2M157206.D\data.ms
Quant Not Reviewed
SampleID : AD26083-010
Data File: 2M157206.D
Acq On : 09/23/21 19:00
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : A,5ML;13
Qt Meth : 2M_A0831.M
Qt On : 09/23/21 20:00
Qt Upd On: 09/01/21 14:42
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-011
Client Id: LTMW-7-20210913
Data File: 1M152898.D
Analysis Date: 09/23/21 09:19
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

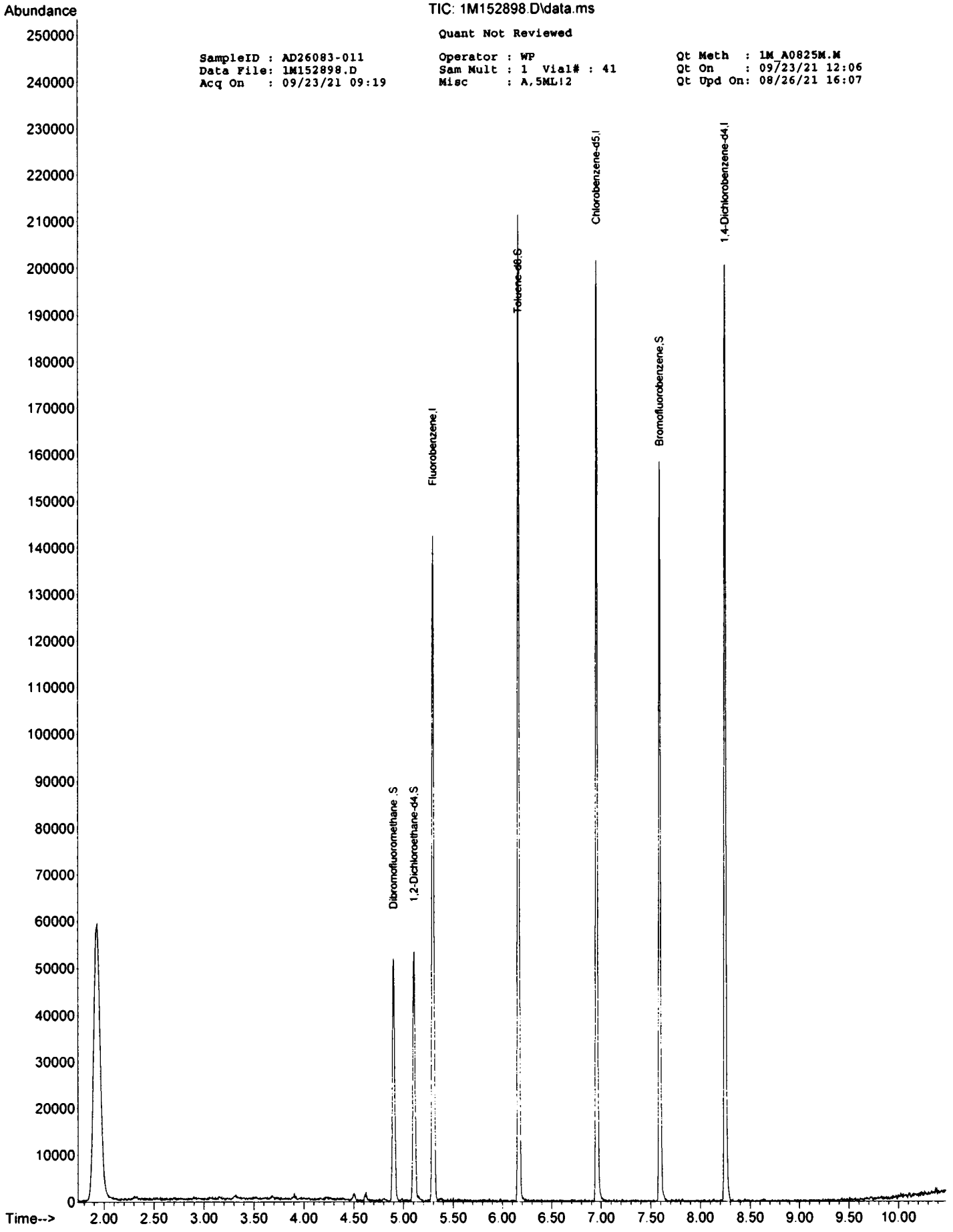
Quantitation Report (Not Reviewed)

SampleID : AD26083-011 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152898.D Sam Mult : 1 Vial# : 41 Qt On : 09/23/21 12:06
Acq On : 09/23/21 09:19 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 83625 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 71035 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 36991 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 24191 | 33.09 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 110.30% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 13676 | 34.41 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 114.70% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 86893 | 28.74 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.80% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 28869 | 30.10 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 100.33% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152898.D\data.ms
Quant Not Reviewed
SampleID : AD26083-011
Data File: 1M152898.D
Acq On : 09/23/21 09:19
Operator : WP
Sam Mult : 1 Vial# : 41
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:06
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-012
Client Id: LTMW-21-20210914 U
Data File: 1M152829.D
Analysis Date: 09/22/21 12:03
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

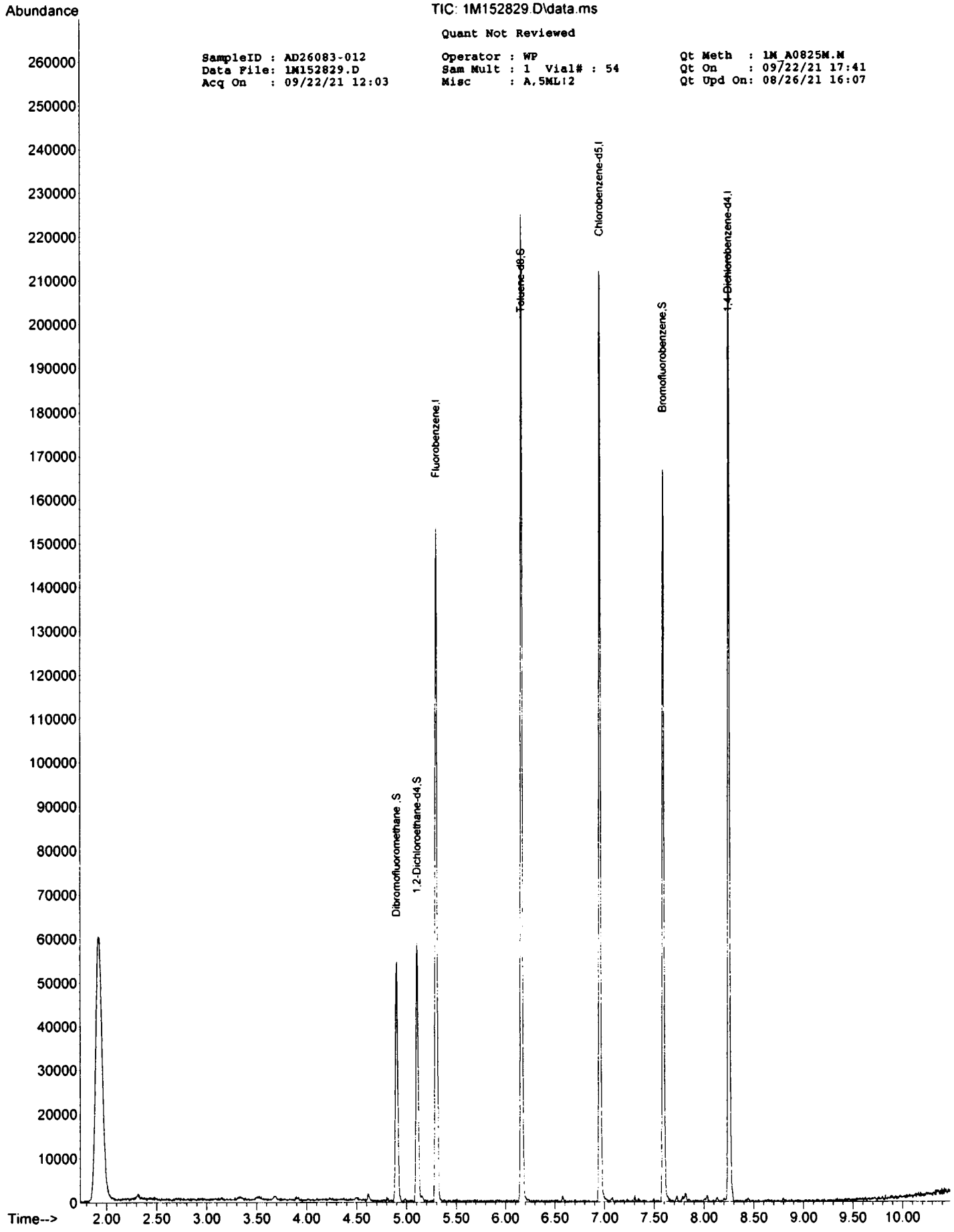
Quantitation Report (Not Reviewed)

SampleID : AD26083-012 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152829.D Sam Mult : 1 Vial# : 54 Qt On : 09/22/21 17:41
Acq On : 09/22/21 12:03 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 90607 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 73882 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 38890 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 25456 | 32.14 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 107.13% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 14885 | 34.57 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 115.23% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 90893 | 28.91 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.37% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 30478 | 30.23 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 100.77% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152829.D\data.ms
Quant Not Reviewed
SampleID : AD26083-012
Data File: 1M152829.D
Acq On : 09/22/21 12:03
Operator : WP
Sam Mult : 1 Vial# : 54
Misc : A,5ML;2
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:41
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-014
Client Id: LTMW-12-20210914 U
Data File: 1M152830.D
Analysis Date: 09/22/21 12:22
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

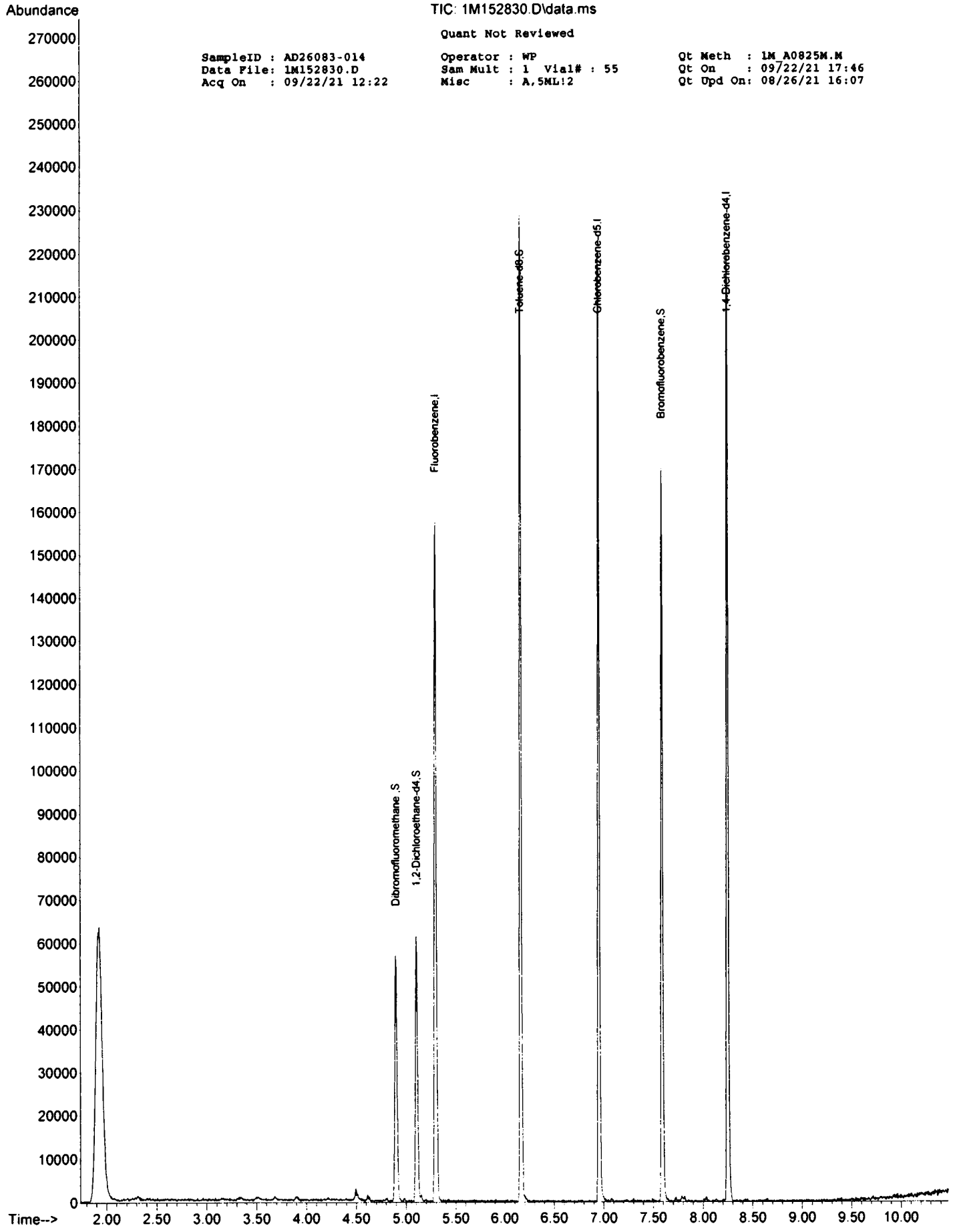
*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-014 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152830.D Sam Mult : 1 Vial# : 55 Qt On : 09/22/21 17:46
Acq On : 09/22/21 12:22 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 92743 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 76180 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 38520 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 25677 | 31.67 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 105.57% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 15051 | 34.15 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 113.83% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 93039 | 28.70 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.67% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 30326 | 30.36 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 101.20% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152830.D\data.ms
Quant Not Reviewed
SampleID : AD26083-014
Data File: 1M152830.D
Acq On : 09/22/21 12:22
Operator : WP
Sam Mult : 1 Vial# : 55
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:46
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-016
Client Id: LTMW-6-20210914 U
Data File: 1M152831.D
Analysis Date: 09/22/21 12:41
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

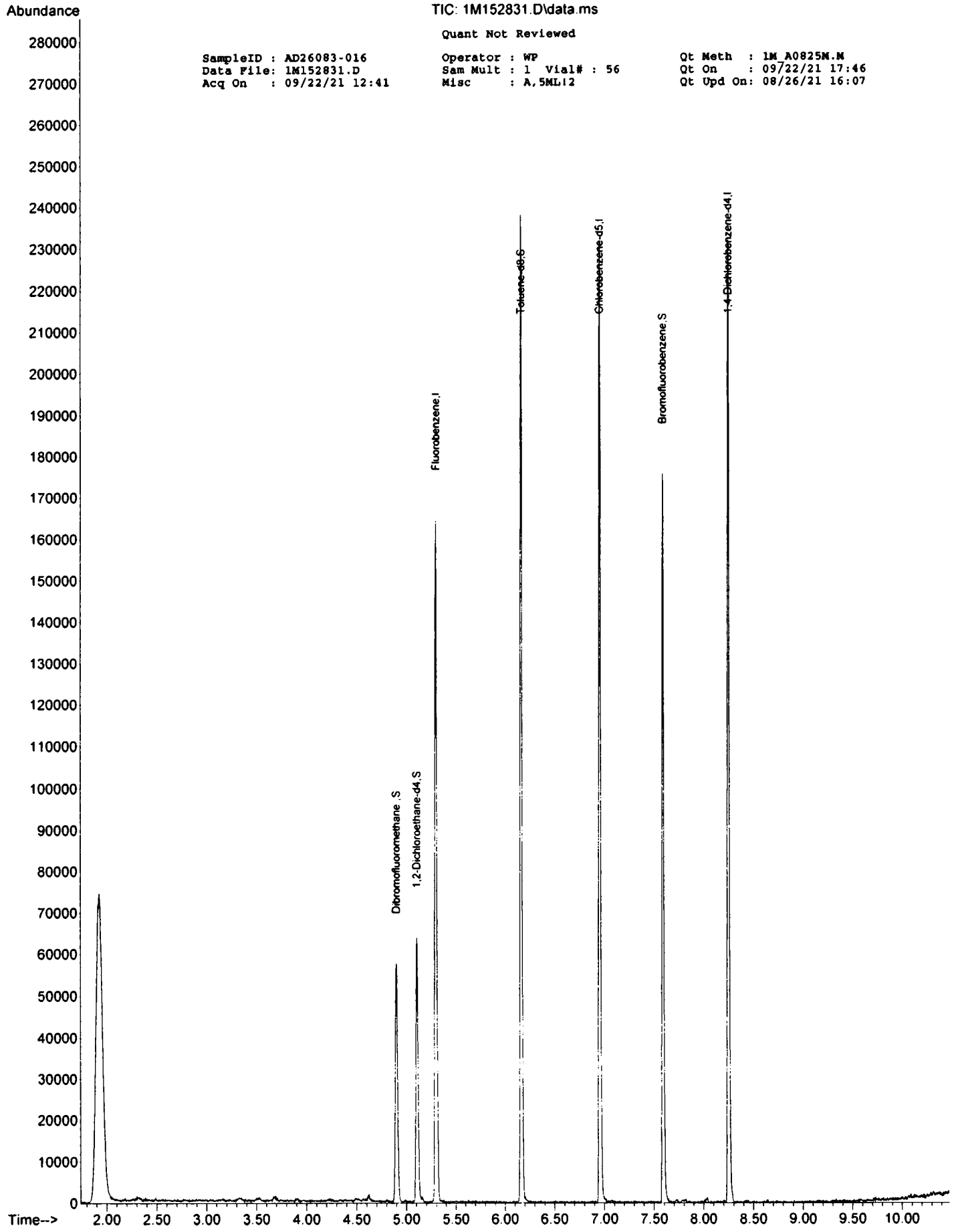
Quantitation Report (Not Reviewed)

SampleID : AD26083-016 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152831.D Sam Mult : 1 Vial# : 56 Qt On : 09/22/21 17:46
Acq On : 09/22/21 12:41 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 94576 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 78346 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 40840 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 26988 | 32.64 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.80% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 15731 | 35.00 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 116.67% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 97258 | 29.17 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.23% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 31864 | 30.09 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 100.30% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152831.D\data.ms
Quant Not Reviewed
SampleID : AD26083-016
Data File: 1M152831.D
Acq On : 09/22/21 12:41
Operator : WP
Sam Mult : 1 Vial# : 56
Misc : A,5ML;2
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:46
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-018
Client Id: LTMW-13-20210914
Data File: 1M152832.D
Analysis Date: 09/22/21 13:00
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

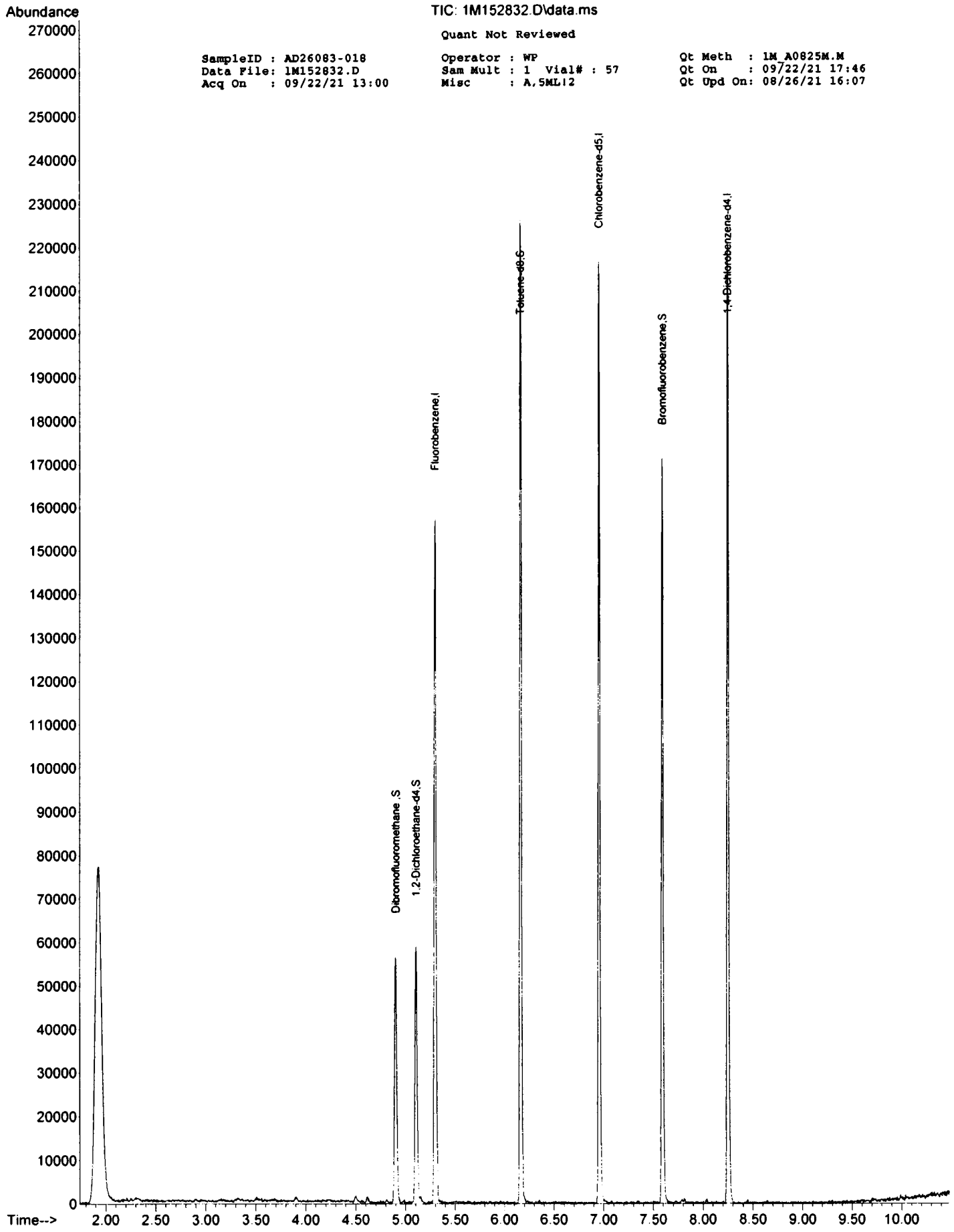
Quantitation Report (Not Reviewed)

SampleID : AD26083-018 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152832.D Sam Mult : 1 Vial# : 57 Qt On : 09/22/21 17:46
Acq On : 09/22/21 13:00 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 94230 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 76612 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 38773 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.904 | 111 | 26274 | 31.90 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.33% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 15621 | 34.88 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 116.27% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 95307 | 29.23 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.43% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 31263 | 31.10 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.67% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152832.D\data.ms
Quant Not Reviewed
SampleID : AD26083-018
Data File: 1M152832.D
Acq On : 09/22/21 13:00
Operator : WP
Sam Mult : 1 Vial# : 57
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:46
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,C
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-019
Client Id: LTMW-15-20210914 U
Data File: 1M152833.D
Analysis Date: 09/22/21 13:18
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

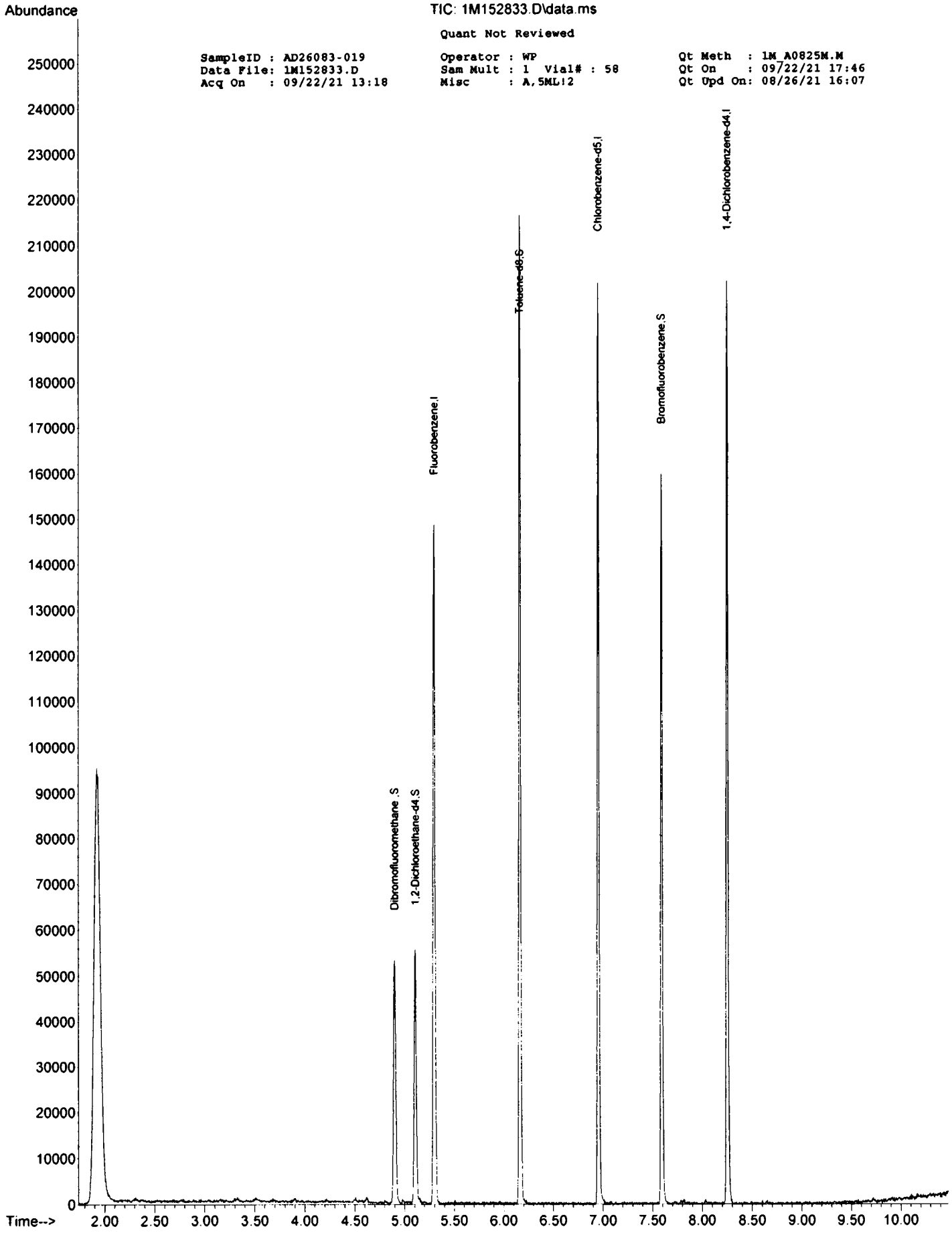
*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-019 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152833.D Sam Mult : 1 Vial# : 58 Qt On : 09/22/21 17:46
Acq On : 09/22/21 13:18 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 88382 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 70366 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 36709 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 25118 | 32.51 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.37% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 14081 | 33.52 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 111.73% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 89246 | 29.80 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.33% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 28690 | 30.14 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 100.47% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152833.D\data.ms
Quant Not Reviewed
SampleID : AD26083-019
Data File: 1M152833.D
Acq On : 09/22/21 13:18
Operator : WP
Sam Mult : 1 Vial# : 58
Misc : A,5ML;2
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:46
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-021
Client Id: LTMW-5B-20210914 U
Data File: 1M152834.D
Analysis Date: 09/22/21 13:37
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

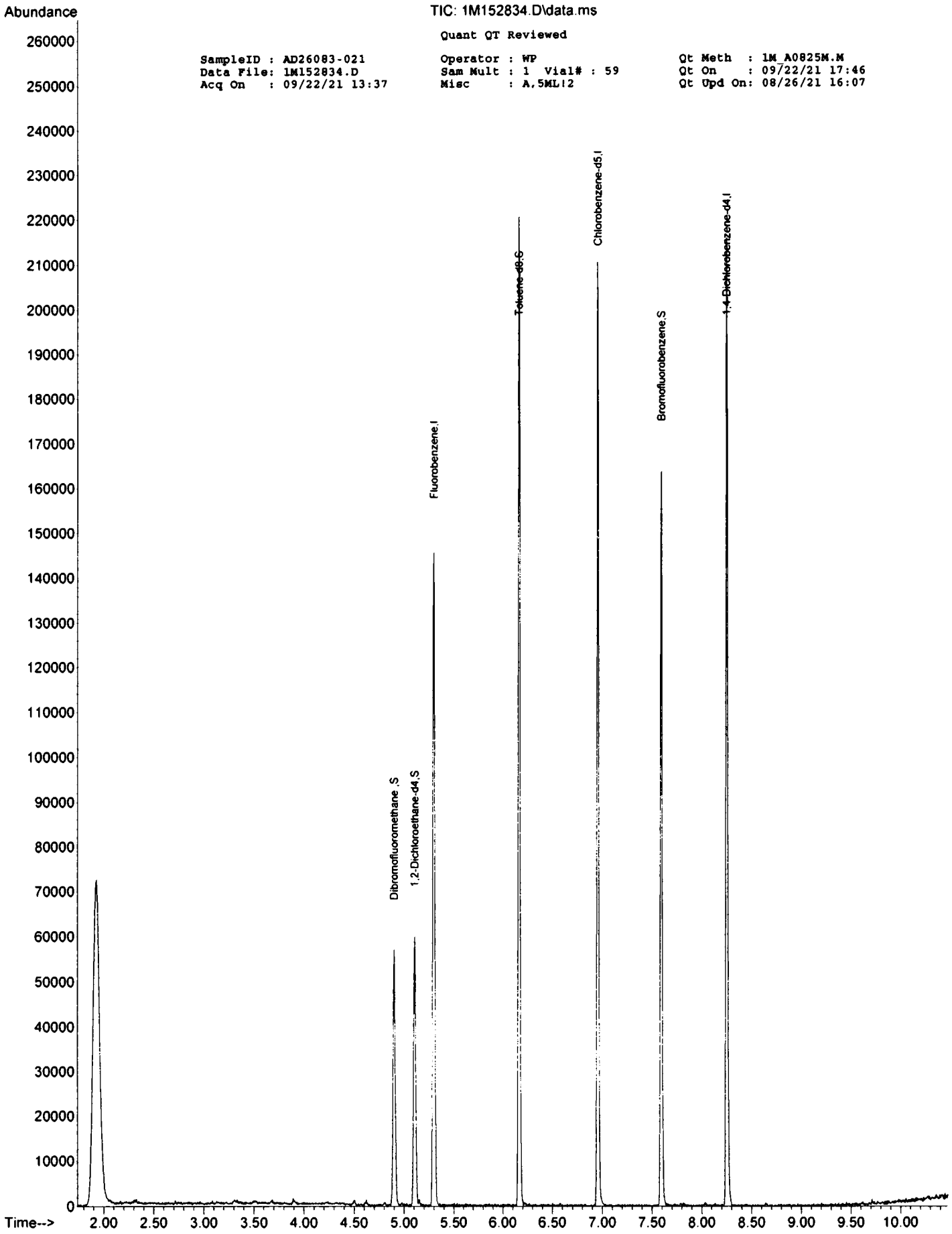
Quantitation Report (QT Reviewed)

SampleID : AD26083-021 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152834.D Sam Mult : 1 Vial# : 59 Qt On : 09/22/21 17:46
Acq On : 09/22/21 13:37 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 87471 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 73209 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 37473 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 24734 | 32.35 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 107.83% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 14681 | 35.32 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 117.73% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 89788 | 28.82 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.07% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 29493 | 30.36 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 101.20% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152834.D\data.ms
Quant QT Reviewed
SampleID : AD26083-021
Data File: 1M152834.D
Acq On : 09/22/21 13:37
Operator : WP
Sam Mult : 1 Vial# : 59
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:46
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-023
Client Id: DUP-02-20210914 U
Data File: 1M152835.D
Analysis Date: 09/22/21 13:56
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

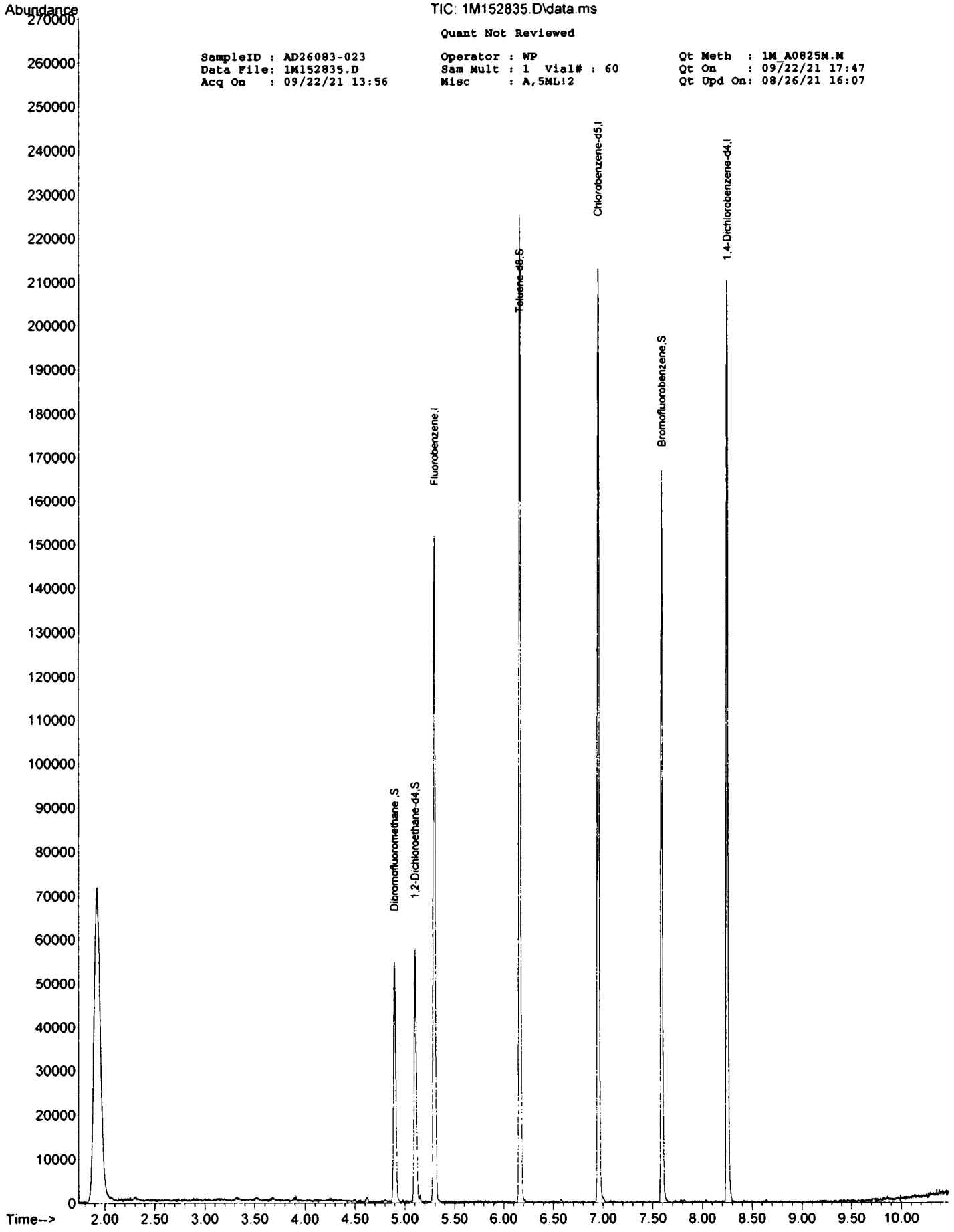
Quantitation Report (Not Reviewed)

SampleID : AD26083-023 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152835.D Sam Mult : 1 Vial# : 60 Qt On : 09/22/21 17:47
Acq On : 09/22/21 13:56 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 90286 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 74108 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 38837 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 25115 | 31.82 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.07% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 14761 | 34.40 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 114.67% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 91744 | 29.09 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.97% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 29768 | 29.56 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 98.53% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152835.D\data.ms
Quant Not Reviewed
SampleID : AD26083-023
Data File: 1M152835.D
Acq On : 09/22/21 13:56
Operator : WP
Sam Mult : 1 Vial# : 60
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:47
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-025
Client Id: TB-02-20210914
Data File: 1M152887.D
Analysis Date: 09/23/21 05:52
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

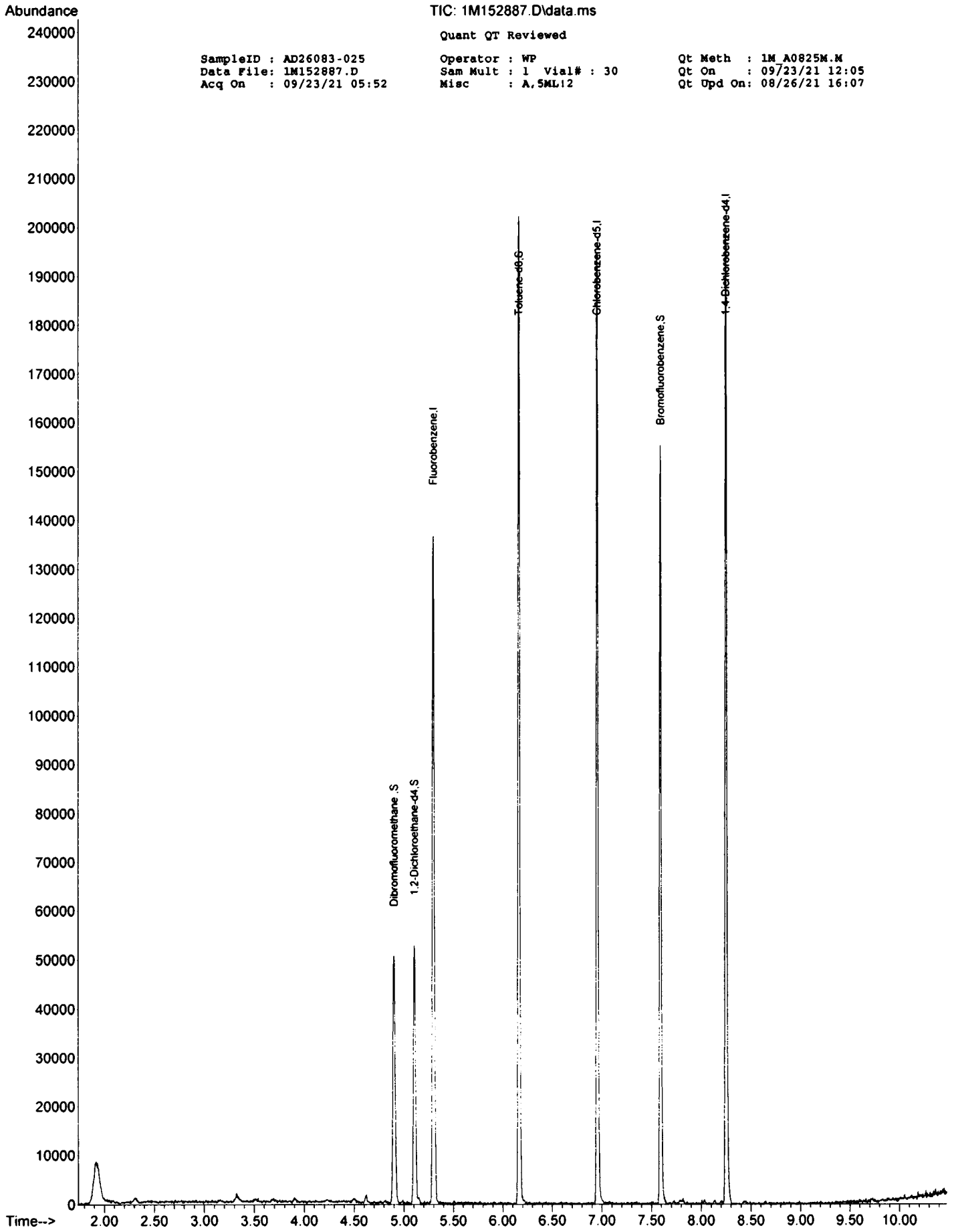
Quantitation Report (QT Reviewed)

SampleID : AD26083-025 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152887.D Sam Mult : 1 Vial# : 30 Qt On : 09/23/21 12:05
Acq On : 09/23/21 05:52 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 82349 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 68574 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 35850 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.904 | 111 | 23369 | 32.46 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.20% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 13247 | 33.85 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 112.83% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 84077 | 28.81 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.03% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 27990 | 30.11 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 100.37% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152887.D\data.ms
Quant QT Reviewed
SampleID : AD26083-025
Data File: 1M152887.D
Acq On : 09/23/21 05:52
Operator : WP
Sam Mult : 1 Vial# : 30
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:05
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-026
Client Id: LTMW-5A-20210915
Data File: 1M152836.D
Analysis Date: 09/22/21 14:15
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

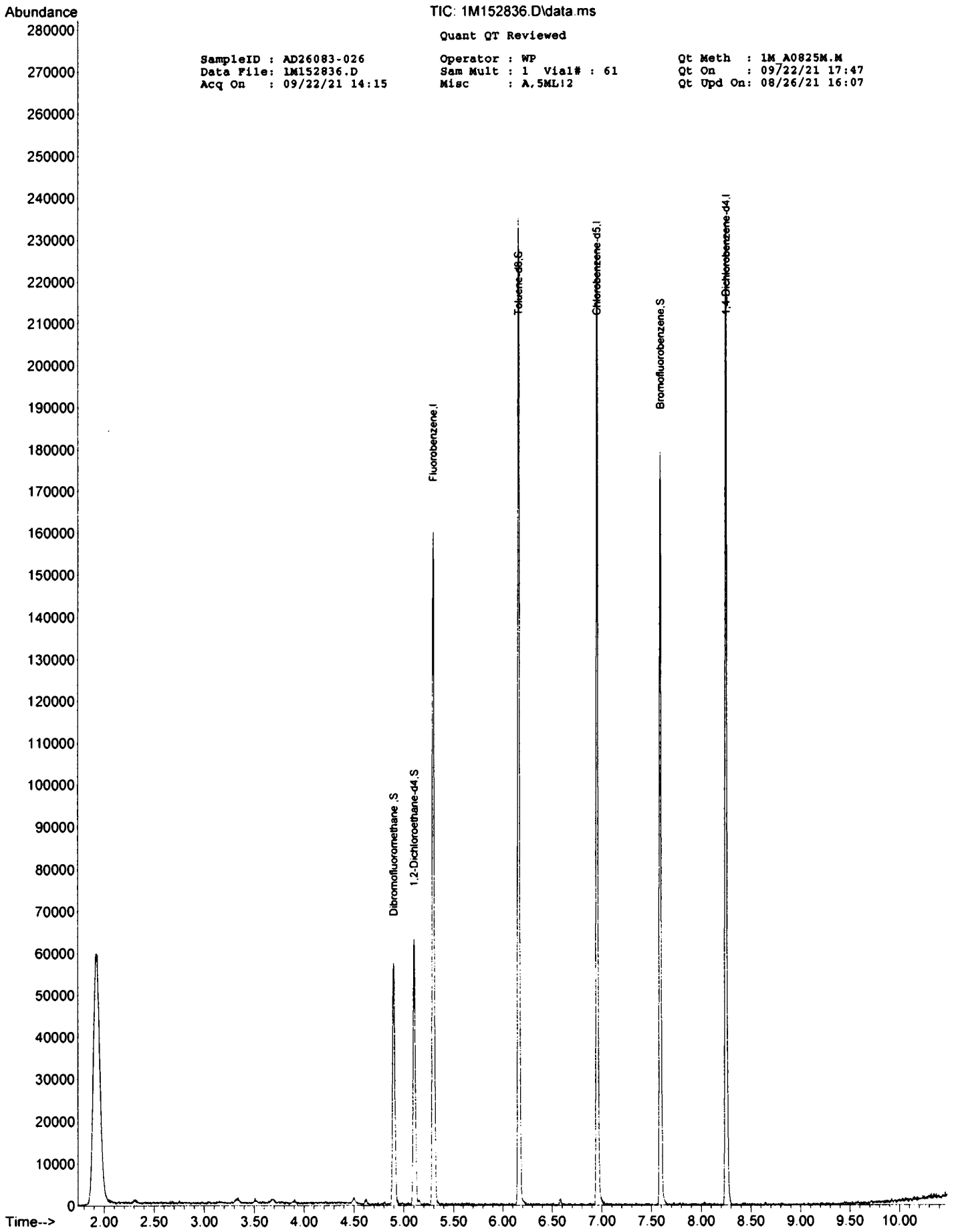
Quantitation Report (QT Reviewed)

SampleID : AD26083-026 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152836.D Sam Mult : 1 Vial# : 61 Qt On : 09/22/21 17:47
Acq On : 09/22/21 14:15 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 95611 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 80383 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 41332 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.904 | 111 | 27373 | 32.75 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 109.17% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 16071 | 35.37 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 117.90% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 97047 | 28.37 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 94.57% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 31834 | 29.71 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.03% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152836.D\data.ms
Quant QT Reviewed
SampleID : AD26083-026
Data File: 1M152836.D
Acq On : 09/22/21 14:15
Operator : WP
Sam Mult : 1 Vial# : 61
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:47
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-027
Client Id: LTMW-17-20210915
Data File: 1M152891.D
Analysis Date: 09/23/21 07:07
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

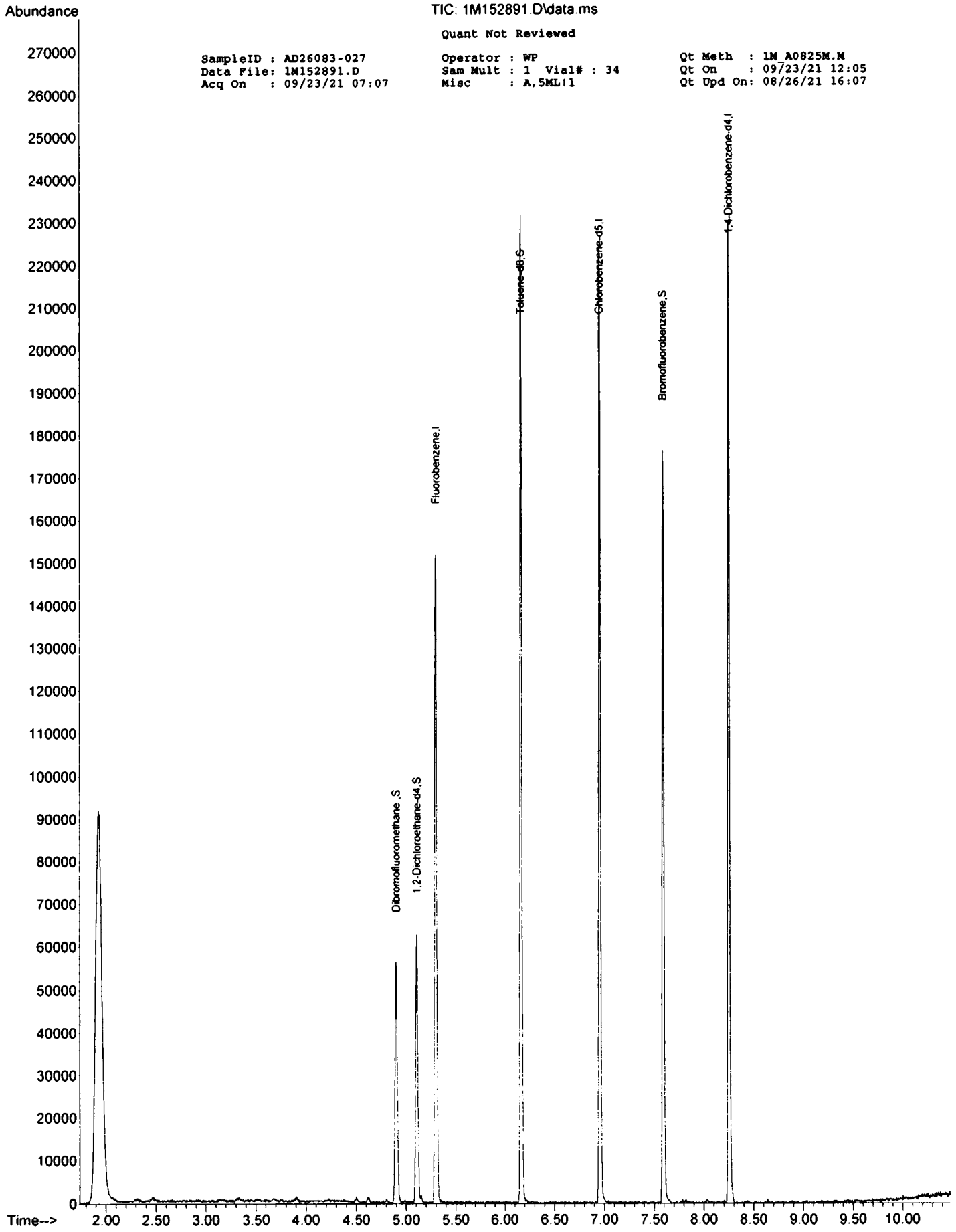
Quantitation Report (Not Reviewed)

SampleID : AD26083-027 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152891.D Sam Mult : 1 Vial# : 34 Qt On : 09/23/21 12:05
Acq On : 09/23/21 07:07 Misc : A,5ML!1 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 91776 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 77266 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 40727 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 26310 | 32.79 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 109.30% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 15629 | 35.83 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 119.43% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 94249 | 28.66 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.53% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 31044 | 29.40 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 98.00% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152891.D\data.ms
Quant Not Reviewed
SampleID : AD26083-027
Data File: 1M152891.D
Acq On : 09/23/21 07:07
Operator : WP
Sam Mult : 1 Vial# : 34
Misc : A,5ML;1
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:05
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-028
Client Id: LTMW-4-20210915 U
Data File: 1M152837.D
Analysis Date: 09/22/21 14:34
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

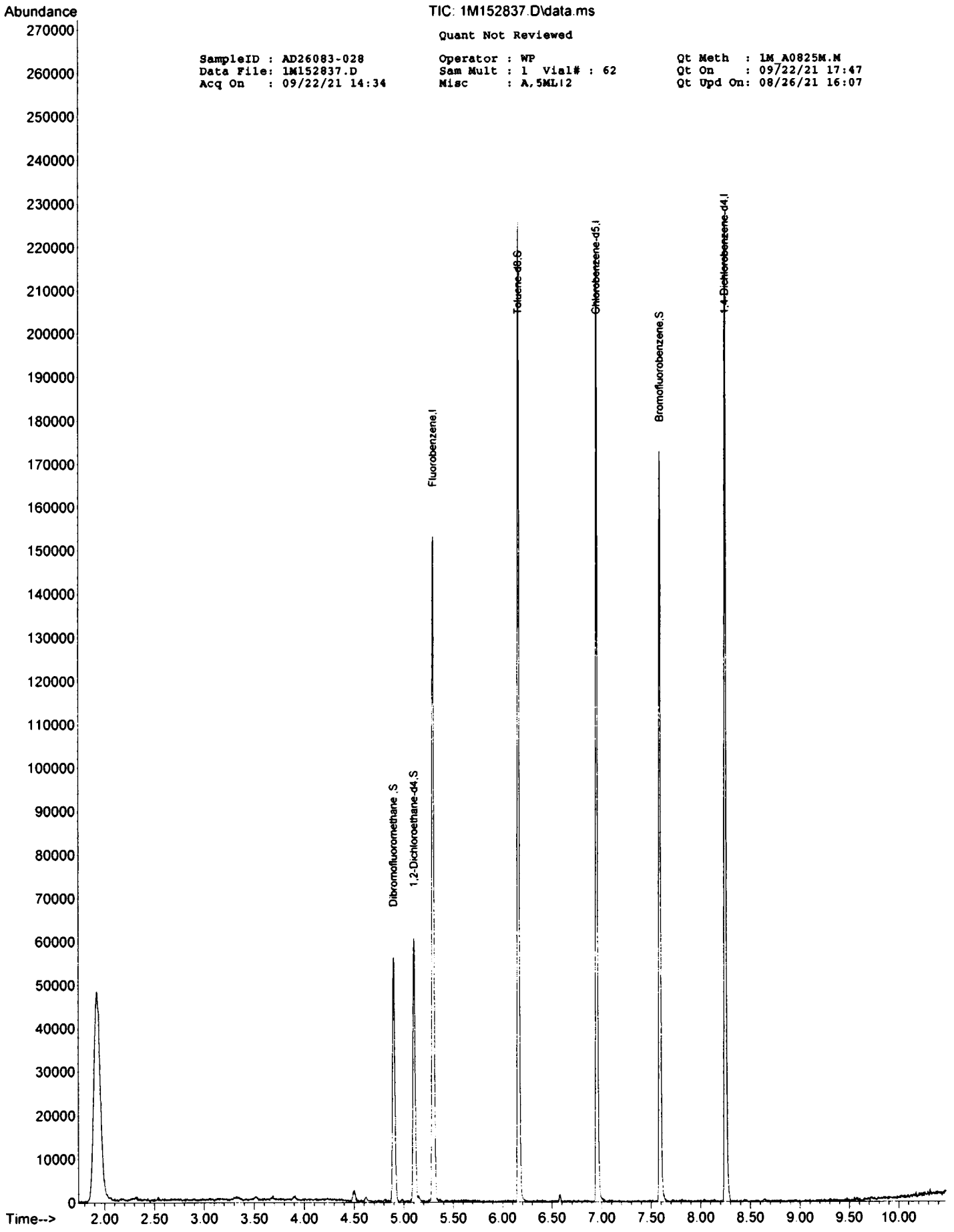
Quantitation Report (Not Reviewed)

SampleID : AD26083-028 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152837.D Sam Mult : 1 Vial# : 62 Qt On : 09/22/21 17:47
Acq On : 09/22/21 14:34 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 91124 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.955 | 117 | 75750 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 41300 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 26717 | 33.54 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 111.80% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 15890 | 36.69 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 122.30% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 93431 | 28.98 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.60% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 30628 | 28.60 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.33% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152837.D\data.ms
Quant Not Reviewed
SampleID : AD26083-028
Data File: 1M152837.D
Acq On : 09/22/21 14:34
Operator : WP
Sam Mult : 1 Vial# : 62
Misc : A,5ML;2
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:47
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-030
Client Id: LTMW-16-20210915 U
Data File: 1M152838.D
Analysis Date: 09/22/21 14:53
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

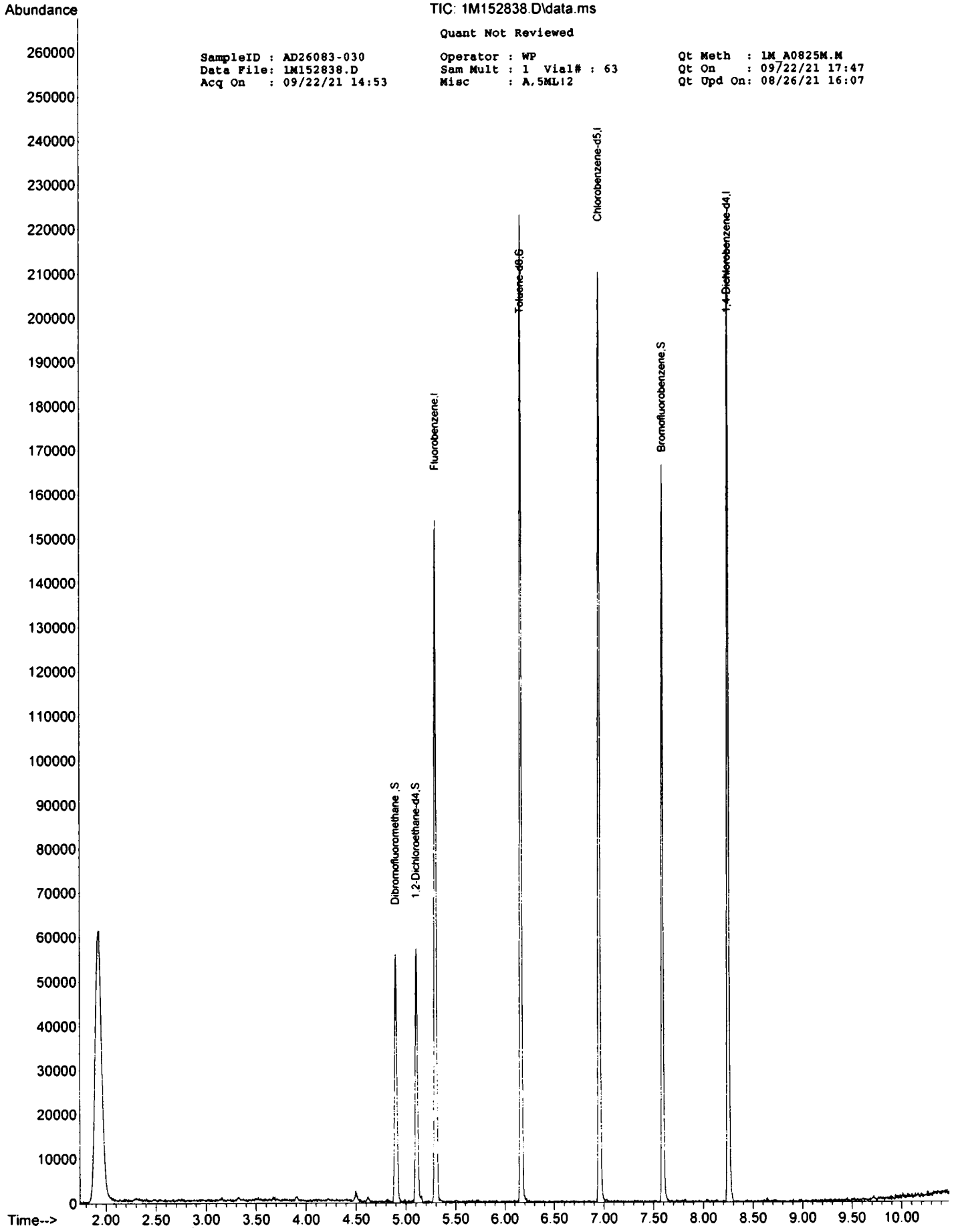
*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-030 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152838.D Sam Mult : 1 Vial# : 63 Qt On : 09/22/21 17:47
Acq On : 09/22/21 14:53 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 90648 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 74638 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 38363 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 25142 | 31.73 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 105.77% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 14496 | 33.65 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 112.17% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 91169 | 28.70 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.67% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 29797 | 29.96 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.87% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152838.D\data.ms
Quant Not Reviewed
SampleID : AD26083-030
Data File: 1M152838.D
Acq On : 09/22/21 14:53
Operator : WP
Sam Mult : 1 Vial# : 63
Misc : A,5ML;2
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:47
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-032
Client Id: LTMW-3-20210915
Data File: 2M157119.D
Analysis Date: 09/22/21 14:53
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

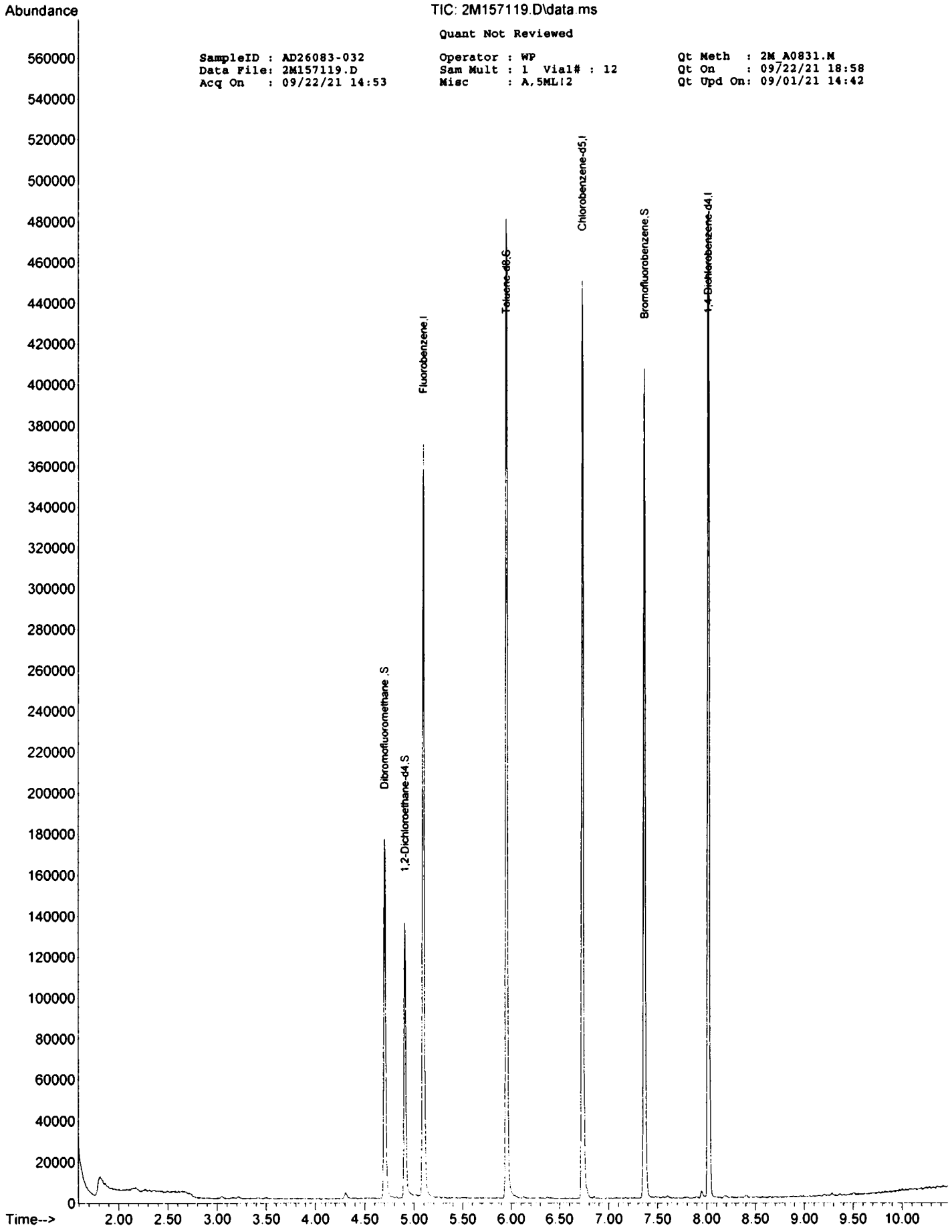
Quantitation Report (Not Reviewed)

SampleID : AD26083-032 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157119.D Sam Mult : 1 Vial# : 12 Qt On : 09/22/21 18:58
Acq On : 09/22/21 14:53 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 226714 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 203839 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 112756 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.703 | 111 | 67992 | 32.91 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 109.70% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 30452 | 27.13 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 90.43% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 231617 | 26.17 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 87.23% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 109503 | 31.94 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.47% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 2M157119.D\data.ms
Quant Not Reviewed
SampleID : AD26083-032
Data File: 2M157119.D
Acq On : 09/22/21 14:53
Operator : WP
Sam Mult : 1 Vial# : 12
Misc : A,5ML;2
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:58
Qt Upd On: 09/01/21 14:42
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-033
Client Id: FB-20210915
Data File: 1M152882.D
Analysis Date: 09/23/21 04:18
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

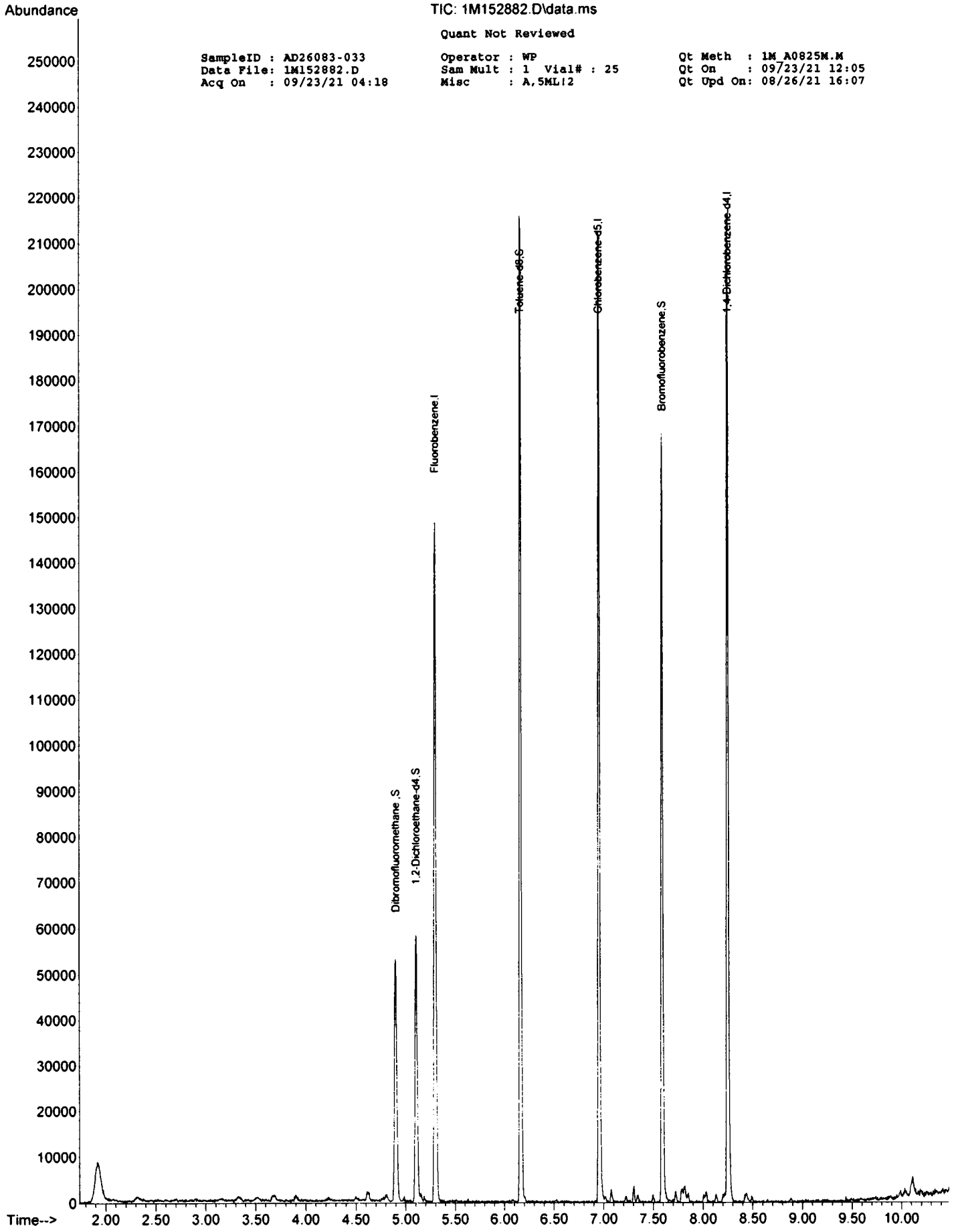
Quantitation Report (Not Reviewed)

SampleID : AD26083-033 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152882.D Sam Mult : 1 Vial# : 25 Qt On : 09/23/21 12:05
Acq On : 09/23/21 04:18 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 89349 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 73425 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 38953 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.904 | 111 | 25332 | 32.43 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.10% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 14925 | 35.15 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 117.17% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 90252 | 28.88 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.27% | | | |
| 76) Bromofluorobenzene | 7.596 | 174 | 29804 | 29.51 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 98.37% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152882.D\data.ms
Quant Not Reviewed
SampleID : AD26083-033
Data File: 1M152882.D
Acq On : 09/23/21 04:18
Operator : WP
Sam Mult : 1 Vial# : 25
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:05
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-034
Client Id: TB-03-20210915
Data File: 1M152883.D
Analysis Date: 09/23/21 04:37
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

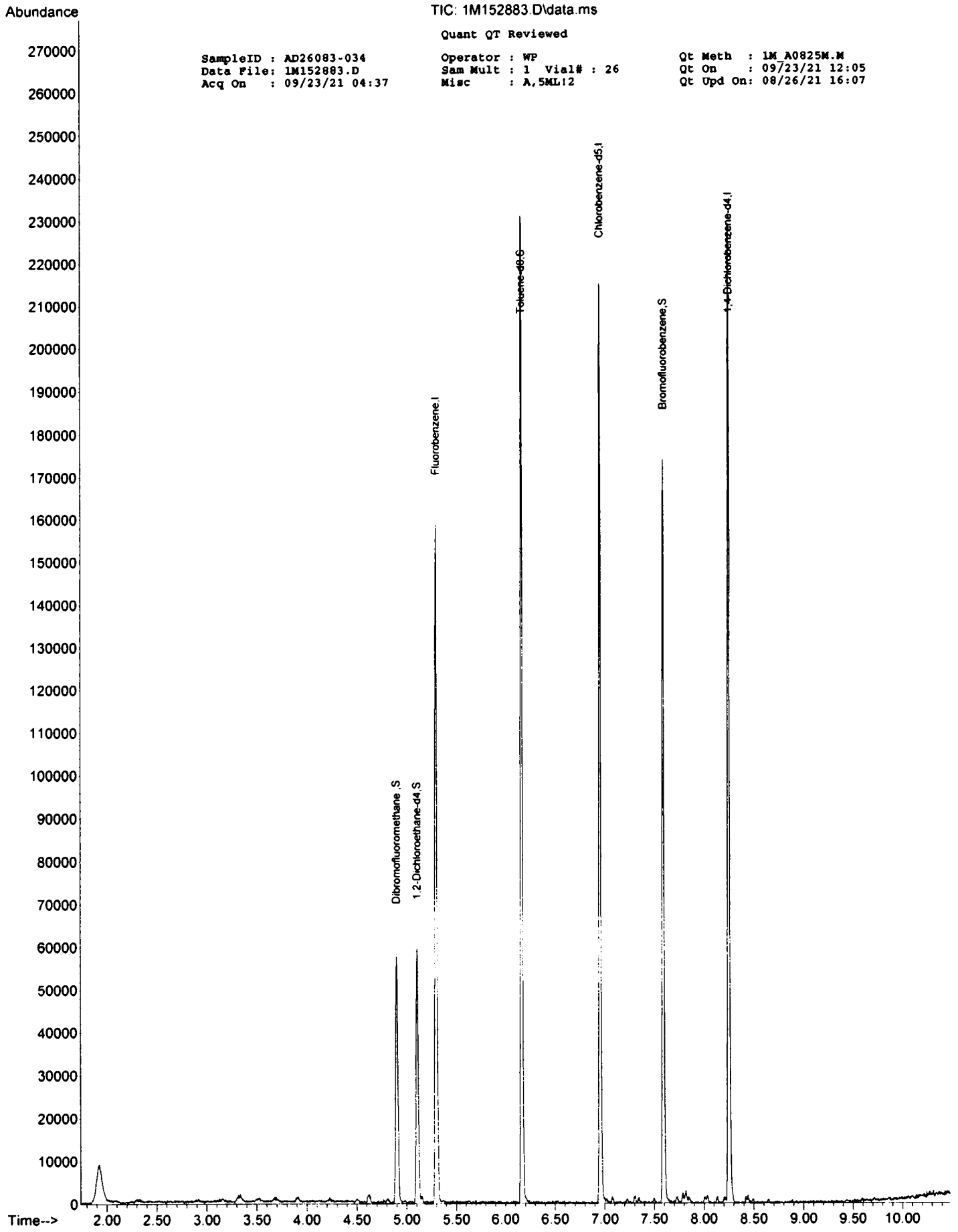
Quantitation Report (QT Reviewed)

SampleID : AD26083-034 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152883.D Sam Mult : 1 Vial# : 26 Qt On : 09/23/21 12:05
Acq On : 09/23/21 04:37 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 92935 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 77047 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 42003 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 26692 | 32.85 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 109.50% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 15336 | 34.72 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 115.73% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 95511 | 29.13 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.10% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 31669 | 29.08 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.93% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152883.D\data.ms
Quant QT Reviewed
SampleID : AD26083-034
Data File: 1M152883.D
Acq On : 09/23/21 04:37
Operator : WP
Sam Mult : 1 Vial# : 26
Misc : A,5ML:2
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:05
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-035
Client Id: LTMW-18C-20210916
Data File: 2M157120.D
Analysis Date: 09/22/21 15:13
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

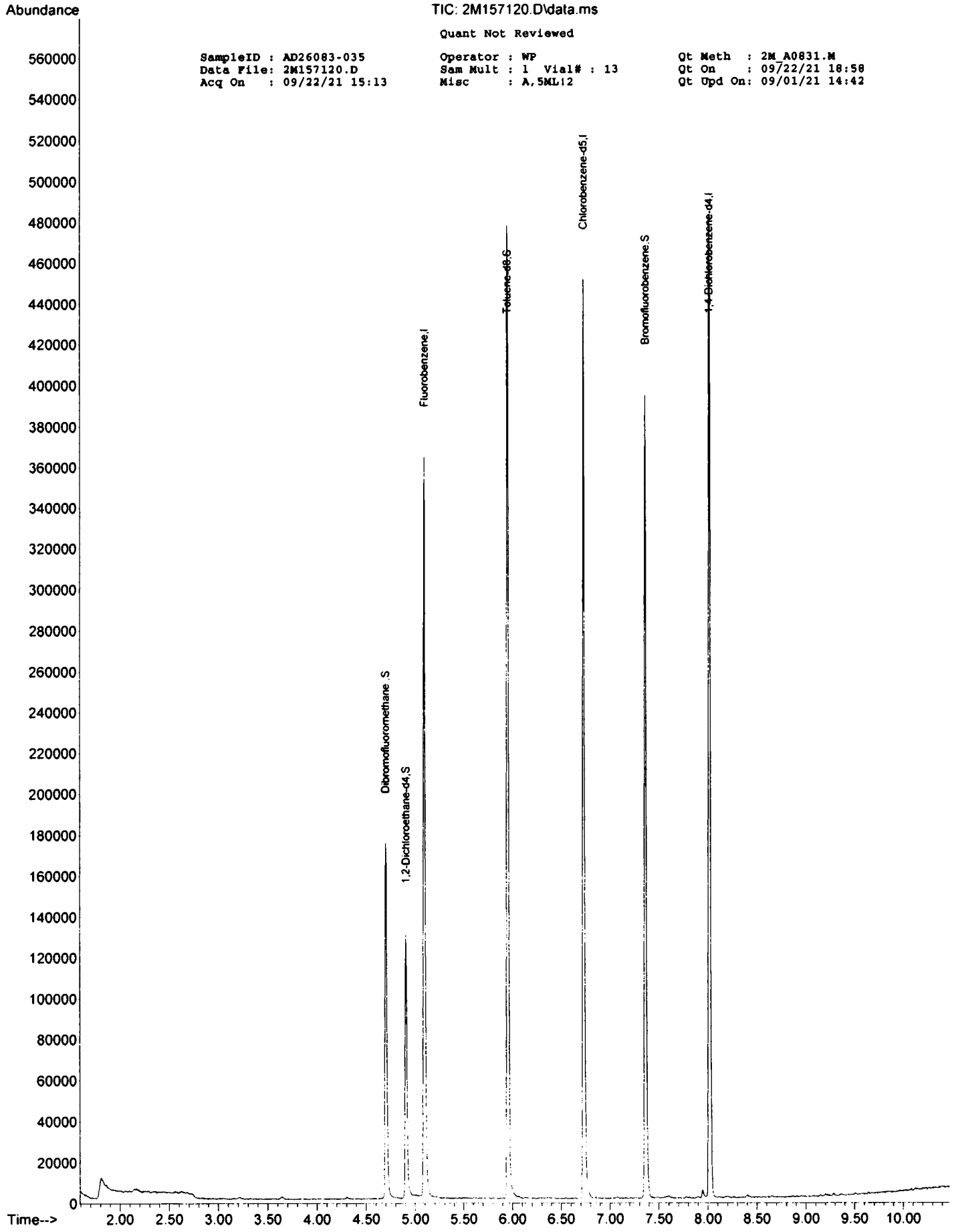
Quantitation Report (Not Reviewed)

SampleID : AD26083-035 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157120.D Sam Mult : 1 Vial# : 13 Qt On : 09/22/21 18:58
Acq On : 09/22/21 15:13 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 223983 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 202401 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 112862 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 67334 | 32.99 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 109.97% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 30293 | 27.32 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 91.07% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 226632 | 25.79 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 85.97% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 106531 | 31.04 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.47% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 2M157120.D\data.ms
Quant Not Reviewed
SampleID : AD26083-035
Data File: 2M157120.D
Acq On : 09/22/21 15:13
Operator : WP
Sam Mult : 1 Vial# : 13
Misc : A,5ML;2
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:58
Qt Upd On: 09/01/21 14:42
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-036
Client Id: LTMW-2-20210916 U
Data File: 2M157121.D
Analysis Date: 09/22/21 15:33
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Quantitation Report (Not Reviewed)

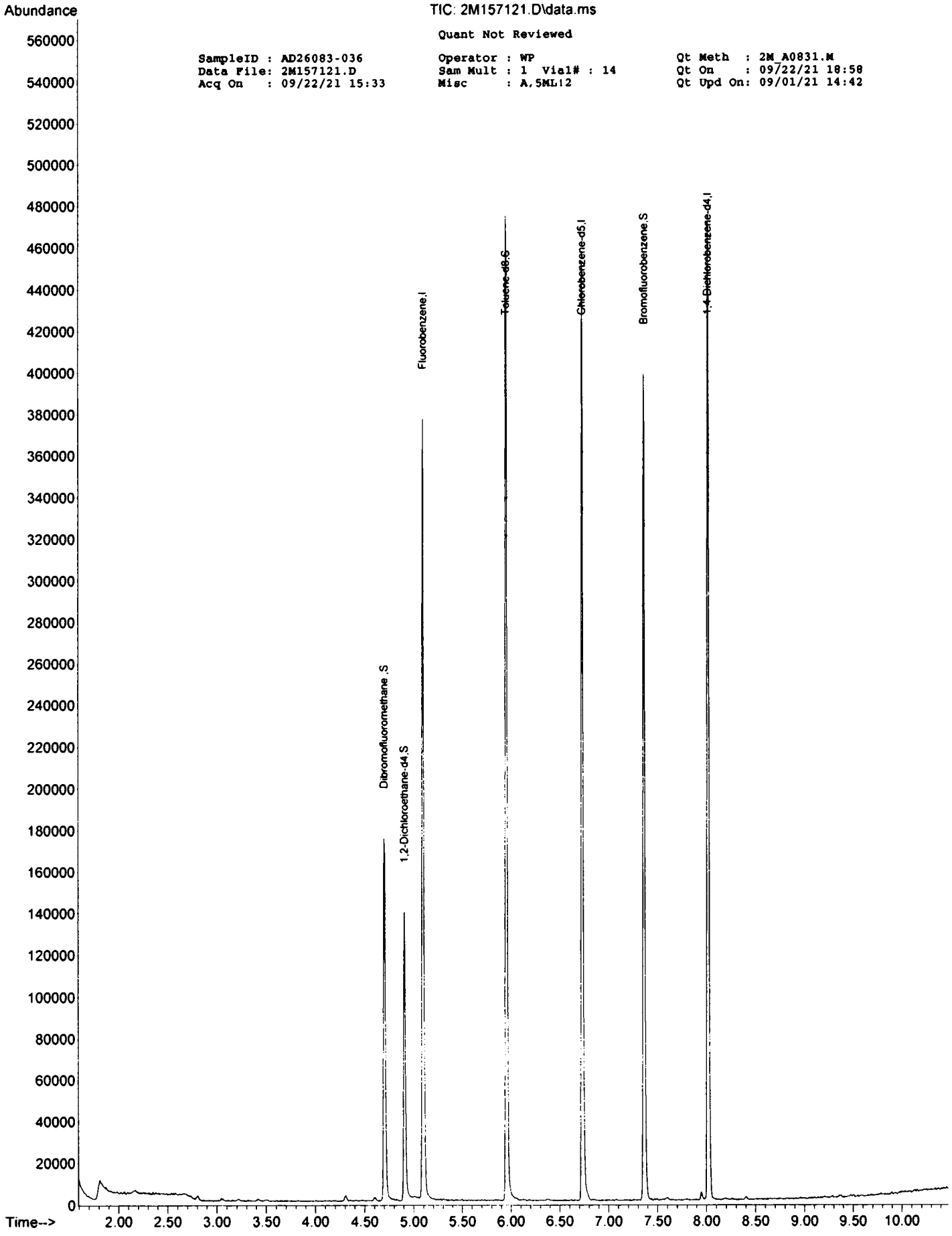
SampleID : AD26083-036 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157121.D Sam Mult : 1 Vial# : 14 Qt On : 09/22/21 18:58
Acq On : 09/22/21 15:33 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 224908 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 203652 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 109292 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 66509 | 32.45 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.17% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 30800 | 27.66 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 92.20% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 224869 | 25.43 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 84.77% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 108564 | 32.67 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.90% | | | |

Target Compounds Qvalue

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


Abundance
TIC: 2M157121.D\data.ms
Quant Not Reviewed
SampleID : AD26083-036
Data File: 2M157121.D
Acq On : 09/22/21 15:33
Operator : WP
Sam Mult : 1 Vial# : 14
Misc : A,5ML;2
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:58
Qt Upd On: 09/01/21 14:42
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-038
Client Id: LTMW-18UG-20210916 U
Data File: 2M157122.D
Analysis Date: 09/22/21 15:52
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

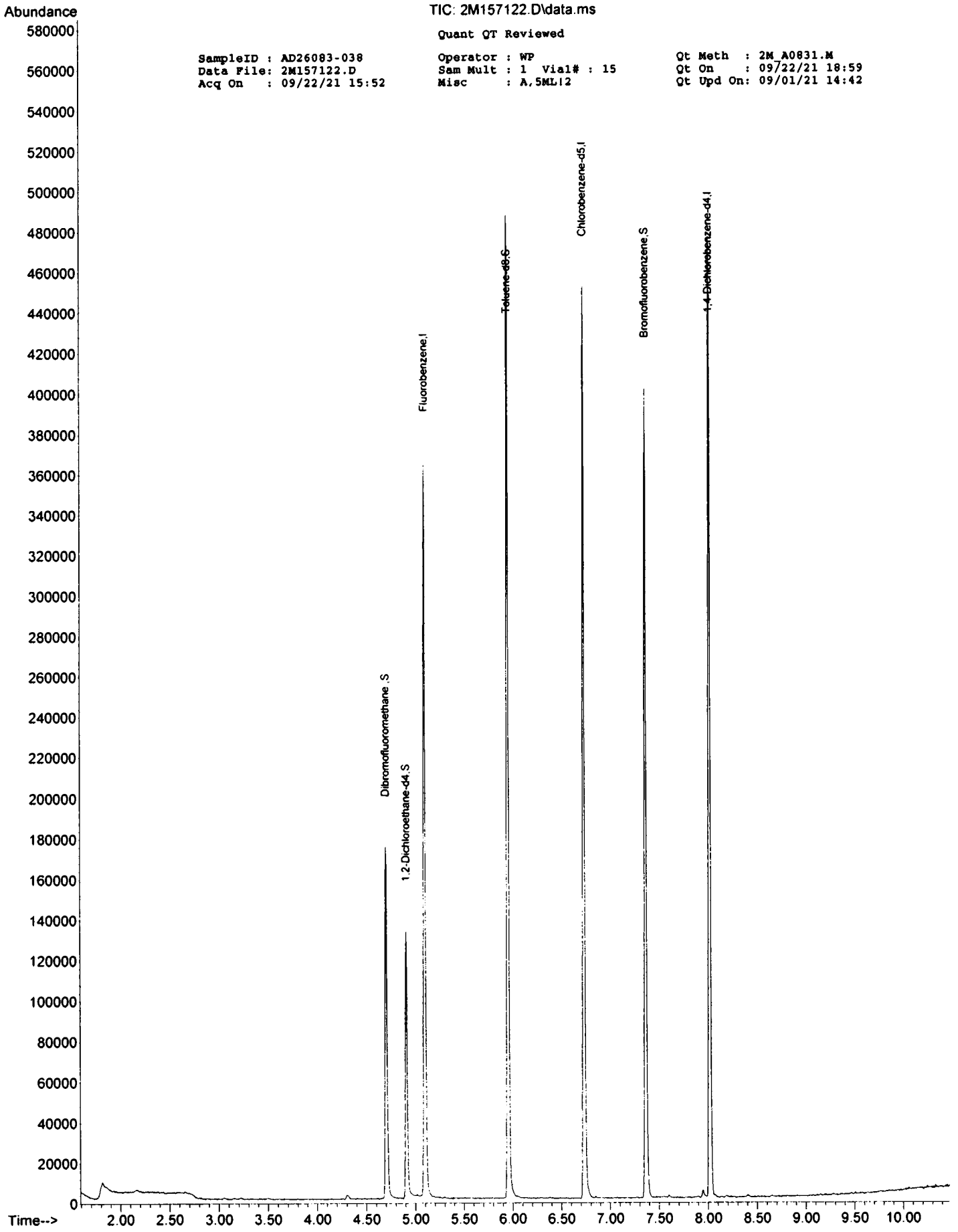
Quantitation Report (QT Reviewed)

SampleID : AD26083-038 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157122.D Sam Mult : 1 Vial# : 15 Qt On : 09/22/21 18:59
Acq On : 09/22/21 15:52 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 226865 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 202871 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 111102 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 67731 | 32.76 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 109.20% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 29805 | 26.54 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 88.47% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 226864 | 25.75 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 85.83% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 108101 | 32.00 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.67% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 2M157122.D\data.ms
Quant QT Reviewed
SampleID : AD26083-038
Data File: 2M157122.D
Acq On : 09/22/21 15:52
Operator : WP
Sam Mult : 1 Vial# : 15
Misc : A,5ML,2
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:59
Qt Upd On: 09/01/21 14:42
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-040
Client Id: LTMW-1-20210916 U
Data File: 1M152892.D
Analysis Date: 09/23/21 07:26
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| **123-91-1** | **1,4-Dioxane** | **50** | **100** | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | **1634-04-4** | **Methyl-t-butyl ether** | **0.50** | **1.0** |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| **67-64-1** | **Acetone** | **5.0** | **25** | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

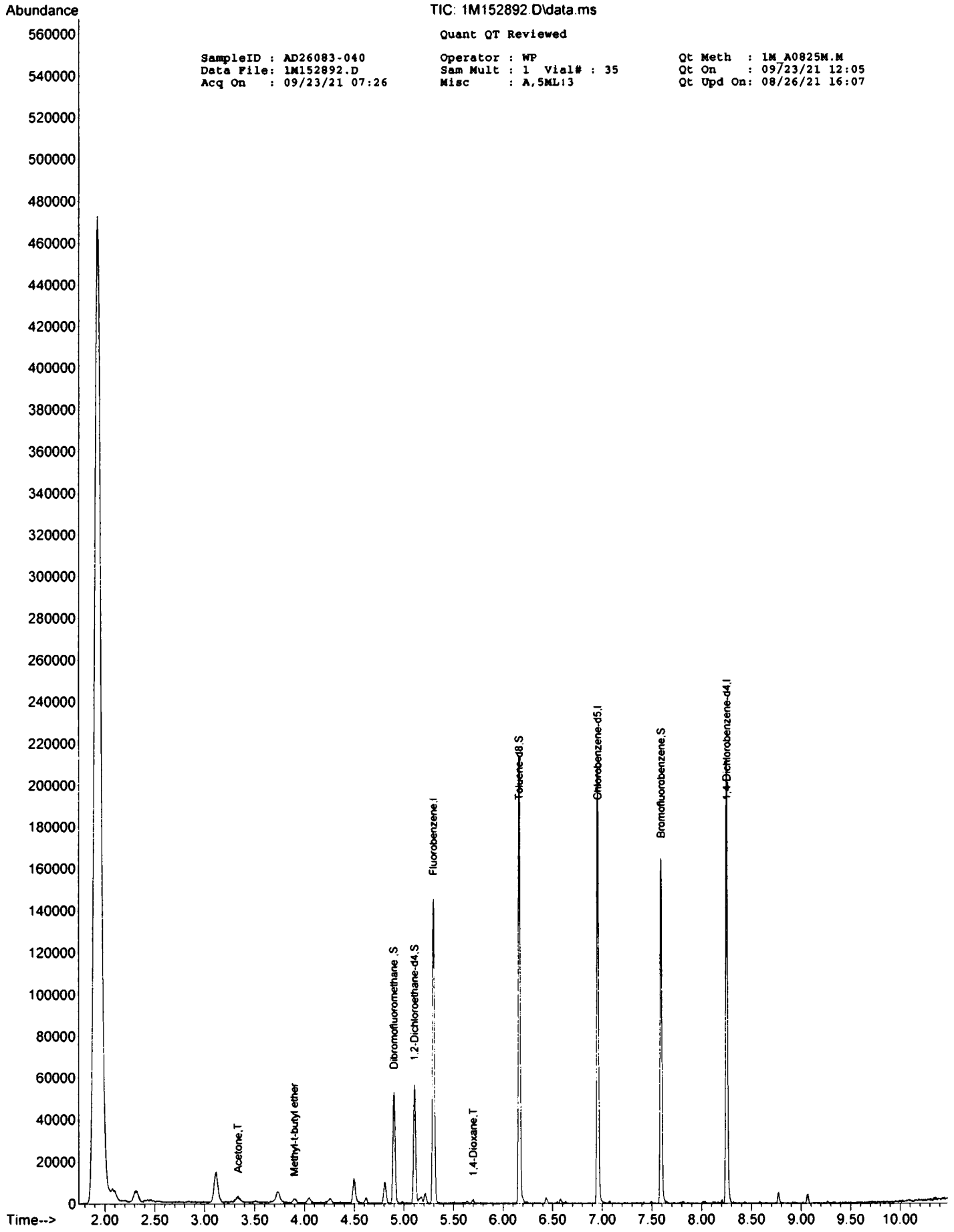
Quantitation Report (QT Reviewed)

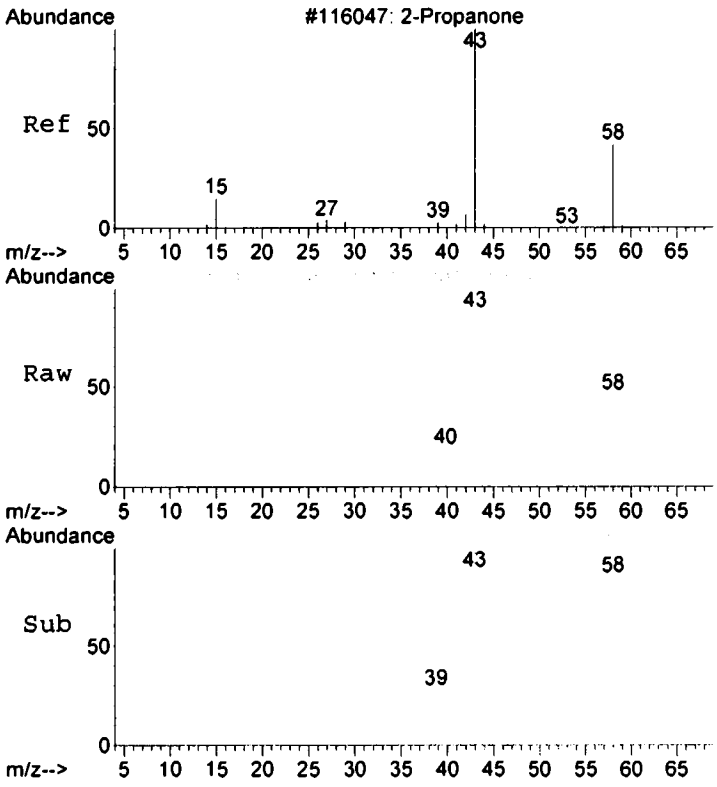
SampleID : AD26083-040 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152892.D Sam Mult : 1 Vial# : 35 Qt On : 09/23/21 12:05
Acq On : 09/23/21 07:26 Misc : A,5ML!3 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 87089 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 73682 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 38686 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 24279 | 31.89 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.30% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 14200 | 34.31 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 114.37% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 87717 | 27.97 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.23% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 29584 | 29.49 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 98.30% | | | |
| Target Compounds | | | | | | Qvalue |
| 19) Acetone | 3.335 | 43 | 4202m | 25.1822 | ug/l | |
| 26) Methyl-t-butyl ether | 3.898 | 73 | 1725m | 1.0017 | ug/l | |
| 34) 1,4-Dioxane | 5.702 | 88 | 786 | 101.6859 | ug/l | 49 |

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

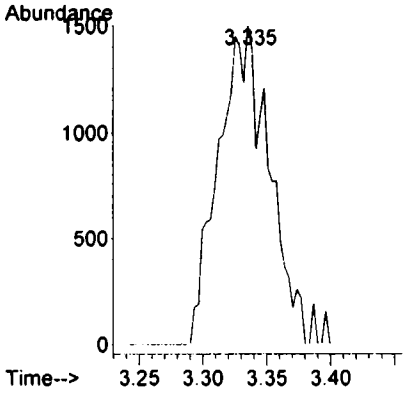

Abundance
TIC: 1M152892.D\data.ms
Quant QT Reviewed
SampleID : AD26083-040
Data File: 1M152892.D
Acq On : 09/23/21 07:26
Operator : WP
Sam Mult : 1 Vial# : 35
Misc : A,5ML;3
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:05
Qt Upd On: 08/26/21 16:07
560000
540000
520000
500000
480000
460000
440000
420000
400000
380000
360000
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
Acetone,T
Methyl-t-butyl ether
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
1,4-Dioxane,T
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I

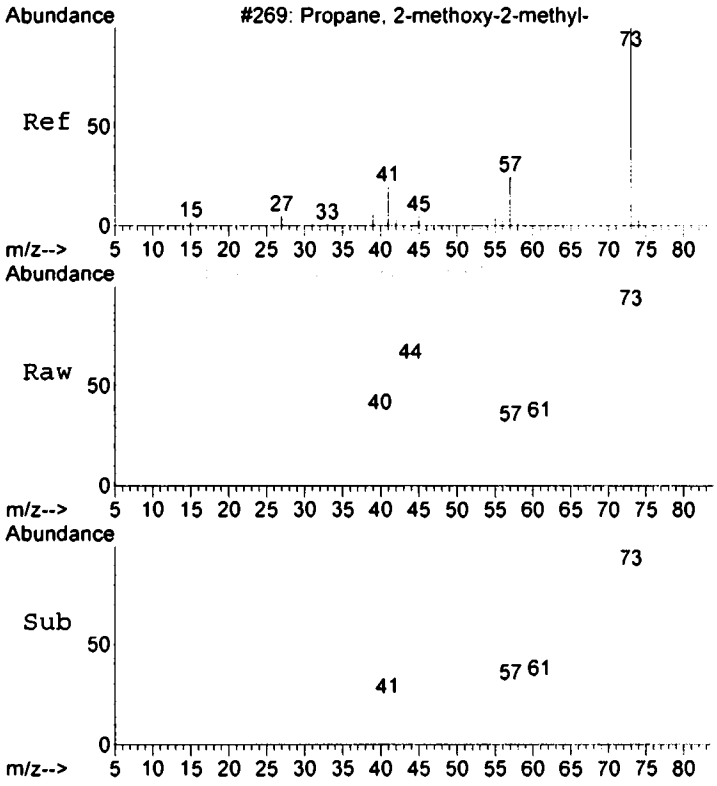



#19
Acetone
Concen: 25.18 ug/l m
RT: 3.335 min Scan# 497
Delta R.T. 0.007 min
Lab File: 1M152892.D
Acq: 23 Sep 2021 07:26

Tgt Ion: 43 Resp: 4202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 45.9 | 0.0 | 64.2 |

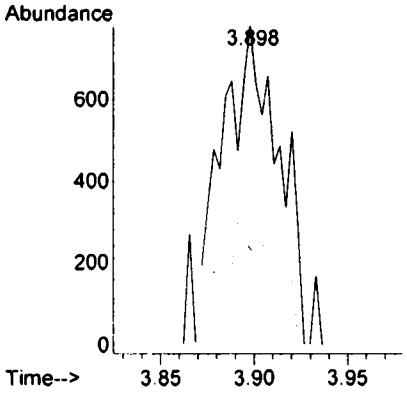


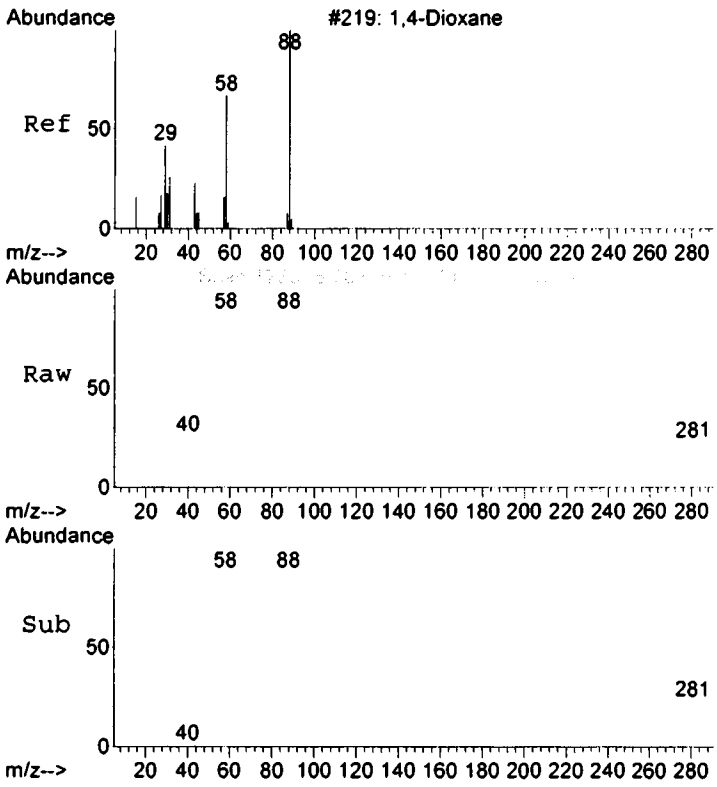




#26
Methyl-t-butyl ether
Concen: 1.00 ug/l m
RT: 3.898 min Scan# 672
Delta R.T. 0.001 min
Lab File: 1M152892.D
Acq: 23 Sep 2021 07:26

Tgt Ion: 73 Resp: 1725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 43 | 13.3 | 0.0 | 121.4 |
| 41 | 14.4 | 0.0 | 117.8 |
| 57 | 16.3 | 0.0 | 139.7 |

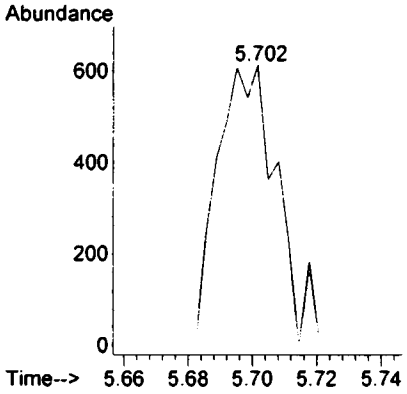





#34
1,4-Dioxane
Concen: 101.69 ug/l
RT: 5.702 min Scan# 1233
Delta R.T. 0.007 min
Lab File: 1M152892.D
Acq: 23 Sep 2021 07:26

Tgt Ion: 88 Resp: 786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 114.2 | 3.7 | 123.7 |
| 57 | 28.3 | 0.0 | 82.0 |



# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-042(MS:AD26
Client Id: LTMW-1-20210916MS U
Data File: 1M152855.D
Analysis Date: 09/22/21 20:12
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | 18 | 56-23-5 | Carbon Tetrachloride | 1.0 | 15 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | 16 | 108-90-7 | Chlorobenzene | 1.0 | 15 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-triflu | 1.0 | 16 | 75-00-3 | Chloroethane | 1.0 | 13 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | 16 | 67-66-3 | Chloroform | 2.0 | 18 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | 20 | 74-87-3 | Chloromethane | 1.0 | 26 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | 19 | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | 19 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | 15 | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | 14 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | 14 | 110-82-7 | Cyclohexane | 1.0 | 18 |
| 96-12-8 | 1,2-Dibromo-3-Chloroprop | 1.0 | 16 | 124-48-1 | Dibromochloromethane | 1.0 | 15 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | 15 | 75-71-8 | Dichlorodifluoromethane | 1.0 | 34 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | 14 | 100-41-4 | Ethylbenzene | 1.0 | 15 |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | 19 | 98-82-8 | Isopropylbenzene | 1.0 | 15 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | 19 | 79601-23-1 | m&p-Xylenes | 1.0 | 30 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | 14 | 79-20-9 | Methyl Acetate | 1.0 | 23 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | 14 | 108-87-2 | Methylcyclohexane | 1.0 | 13 |
| 123-91-1 | 1,4-Dioxane | 50 | 1000 | 75-09-2 | Methylene Chloride | 1.0 | 17 |
| 78-93-3 | 2-Butanone | 1.0 | 29 | 1634-04-4 | Methyl-t-butyl ether | 0.50 | 20 |
| 591-78-6 | 2-Hexanone | 1.0 | 21 | 95-47-6 | o-Xylene | 1.0 | 15 |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | 21 | 100-42-5 | Styrene | 1.0 | 14 |
| 67-64-1 | Acetone | 5.0 | 150 | 127-18-4 | Tetrachloroethene | 1.0 | 15 |
| 71-43-2 | Benzene | 0.50 | 17 | 108-88-3 | Toluene | 1.0 | 16 |
| 74-97-5 | Bromochloromethane | 1.0 | 22 | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | 17 |
| 75-27-4 | Bromodichloromethane | 1.0 | 17 | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | 13 |
| 75-25-2 | Bromoform | 1.0 | 14 | 79-01-6 | Trichloroethene | 1.0 | 16 |
| 74-83-9 | Bromomethane | 1.0 | 5.8 | 75-69-4 | Trichlorofluoromethane | 1.0 | 20 |
| 75-15-0 | Carbon Disulfide | 1.0 | 28 | 75-01-4 | Vinyl Chloride | 1.0 | 15 |
| 1330-20-7 | Xylenes (Total) | 1.0 | 45 | | | | |

Worksheet #: 611541

*Total Target Concentration* 2000

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-042(MS:AD26 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152855.D Sam Mult : 1 Vial# : 78 Qt On : 09/22/21 20:24
Acq On : 09/22/21 20:12 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 84206 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 69881 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 38668 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 23457 | 31.87 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.23% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 14004 | 34.99 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 116.63% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 85586 | 28.78 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.93% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 30005 | 29.93 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.77% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.088 | 51 | 36340 | 34.8819 | ug/l | 47 |
| 6) Dichlorodifluoromethane | 2.078 | 85 | 14538 | 33.7990 | ug/l | 100 |
| 7) Chloromethane | 2.239 | 50 | 19373 | 25.6994 | ug/l | 93 |
| 8) Bromomethane | 2.612 | 94 | 2335 | 5.7677 | ug/l | 88 |
| 9) Vinyl Chloride | 2.329 | 62 | 10593 | 14.5516 | ug/l | 100 |
| 10) Chloroethane | 2.689 | 64 | 6064 | 12.5952 | ug/l | 92 |
| 11) Trichlorofluoromethane | 2.904 | 101 | 21145 | 19.7553 | ug/l | 97 |
| 12) Ethyl ether | 3.113 | 59 | 23071 | 47.6885 | ug/l | 70 |
| 13) Furan | 3.152 | 39 | 21489m | 23.7385 | ug/l | |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.300 | 101 | 8138m | 16.4787 | ug/l | |
| 15) Methylene Chloride | 3.679 | 84 | 11881m | 17.2879 | ug/l | |
| 16) Acrolein | 3.213 | 56 | 10286 | 112.5401 | ug/l | 95 |
| 17) Acrylonitrile | 3.863 | 53 | 5836 | 23.9829 | ug/l | 89 |
| 18) Iodomethane | 3.445 | 142 | 6039 | 8.4472 | ug/l | 97 |
| 19) Acetone | 3.326 | 43 | 24848 | 154.0586 | ug/l | 91 |
| 20) Carbon Disulfide | 3.515 | 76 | 41380 | 28.2637 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.734 | 59 | 16538 | 246.3796 | ug/l | 74 |
| 22) n-Hexane | 4.117 | 57 | 9274 | 15.3098 | ug/l | 97 |
| 23) Di-isopropyl-ether | 4.255 | 45 | 48631 | 24.9374 | ug/l | 76 |
| 24) 1,1-Dichloroethene | 3.306 | 61 | 21210 | 18.6672 | ug/l | 83 |
| 25) Methyl Acetate | 3.580 | 43 | 12188 | 23.4406 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.901 | 73 | 32532 | 19.5292 | ug/l | 76 |
| 27) 1,1-Dichloroethane | 4.223 | 63 | 26424 | 20.0510 | ug/l | 89 |
| 28) trans-1,2-Dichloroethene | 3.898 | 96 | 11527 | 16.5059 | ug/l | 71 |
| 29) Ethyl-t-butyl ether | 4.506 | 59 | 42783 | 20.9008 | ug/l | 86 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 25109 | 18.5166 | ug/l | 83 |
| 31) Bromochloromethane | 4.769 | 49 | 14685 | 21.6182 | ug/l | 67 |
| 32) 2,2-Dichloropropane | 4.628 | 77 | 12604 | 11.4108 | ug/l | 97 |
| 33) Ethyl acetate | 4.641 | 43 | 12594m | 18.8897 | ug/l | |
| 34) 1,4-Dioxane | 5.695 | 88 | 7671 | 1026.3854 | ug/l | 79 |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 15927 | 17.0309 | ug/l | 94 |
| 36) Chloroform | 4.805 | 83 | 23200 | 18.0651 | ug/l | 95 |
| 38) Cyclohexane | 4.981 | 56 | 16300 | 17.9752 | ug/l | 72 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 21474 | 18.7952 | ug/l | 96 |
| 41) 2-Butanone | 4.631 | 43 | 10837m | 28.9936 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.940 | 97 | 21408 | 18.0495 | ug/l | 95 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 15000 | 15.1934 | ug/l | 98 |
| 44) Vinyl Acetate | 4.252 | 43 | 45636 | 23.6448 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 16896 | 17.3990 | ug/l | 98 |
| 46) Methylcyclohexane | 5.628 | 83 | 9696 | 12.9622 | ug/l | 78 |
| 47) Dibromomethane | 5.695 | 174 | 7711 | 16.0828 | ug/l | 88 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 14011 | 19.0836 | ug/l | 100 |
| 49) Trichloroethene | 5.506 | 130 | 12431 | 16.1330 | ug/l | 95 |
| 50) Benzene | 5.152 | 78 | 46571 | 17.1638 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 29612 | 16.9713 | ug/l | 88 |
| 53) Iso-propylacetate | 5.145 | 43 | 25534 | 20.3851 | ug/l | 92 |
| 54) Methyl methacrylate | 5.657 | 41 | 10897 | 20.5701 | ug/l | 65 |
| 55) Dibromochloromethane | 6.634 | 129 | 11477 | 14.6309 | ug/l | 95 |
| 57) cis-1,3-Dichloropropene | 6.007 | 75 | 14915 | 13.6312 | ug/l | 100 |
| 58) trans-1,3-Dichloropropene | 6.297 | 75 | 13762 | 13.3726 | ug/l | 98 |
| 59) Ethyl methacrylate | 6.325 | 41 | 11733 | 19.7528 | ug/l | 62 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 10698 | 16.1502 | ug/l | 93 |
| 61) 1,2-Dibromoethane | 6.711 | 107 | 10352 | 15.1981 | ug/l | 96 |
| 62) 1,3-Dichloropropane | 6.499 | 76 | 17926 | 15.9652 | ug/l | 92 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 12807 | 20.8971 | ug/l | 90 |
| 64) 2-Hexanone | 6.522 | 43 | 8876 | 21.0918 | ug/l | 97 |
| 65) Tetrachloroethene | 6.509 | 164 | 9464 | 14.5153 | ug/l | 86 |
| 67) Toluene | 6.203 | 92 | 29352 | 15.5558 | ug/l | 92 |
| 68) 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 10382 | 14.3260 | ug/l | 100 |

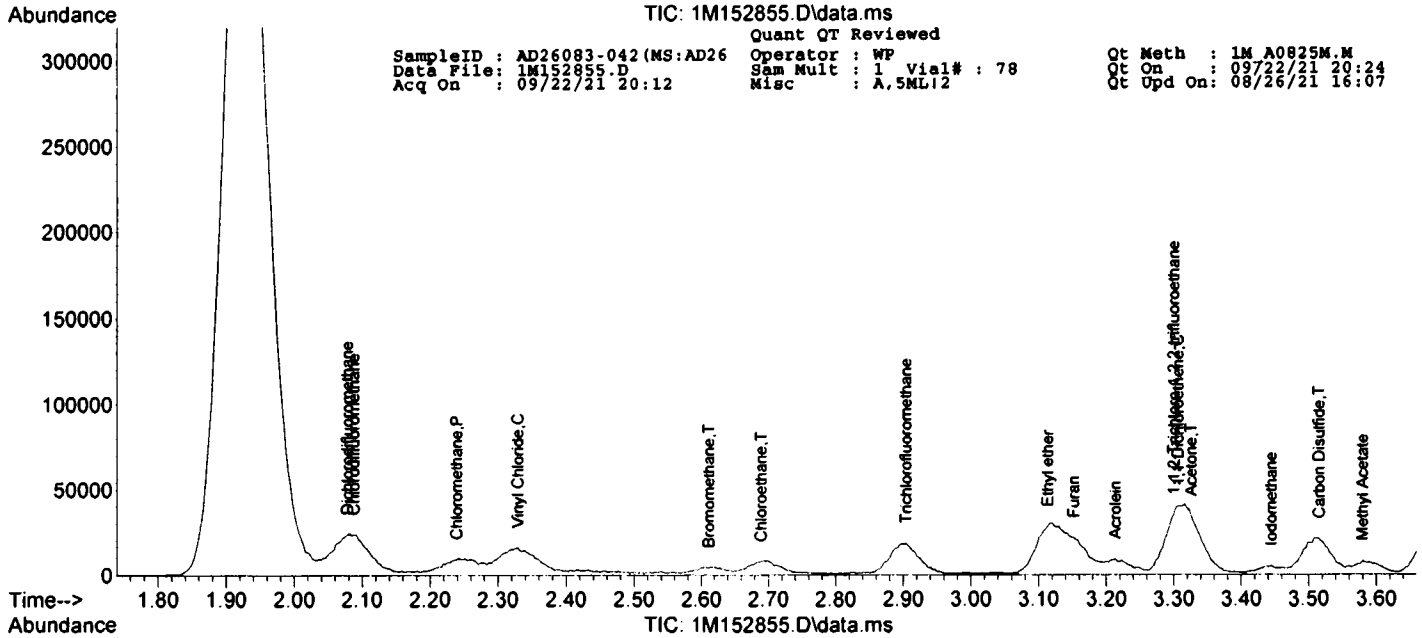
Quantitation Report (QT Reviewed)

SampleID : AD26083-042(MS:AD26 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152855.D Sam Mult : 1 Vial# : 78 Qt On : 09/22/21 20:24
Acq On : 09/22/21 20:12 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 69) | Chlorobenzene | 6.975 | 112 | 31916 | 15.2841 | ug/l | 95 |
| 71) | n-Butyl acrylate | 7.223 | 55 | 24735 | 17.5086 | ug/l | 86 |
| 72) | n-Amyl acetate | 7.341 | 43 | 21223 | 19.1235 | ug/l | 82 |
| 73) | Bromoform | 7.425 | 173 | 7335 | 13.7525 | ug/l | 83 |
| 74) | Ethylbenzene | 7.017 | 106 | 14652 | 15.3465 | ug/l | 97 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 13501 | 16.2445 | ug/l | 99 |
| 77) | Styrene | 7.303 | 104 | 33209 | 14.4811 | ug/l | 95 |
| 78) | m&p-Xylenes | 7.075 | 106 | 40357 | 29.6205 | ug/l | 99 |
| 79) | o-Xylene | 7.300 | 106 | 19770 | 14.9742 | ug/l | 88 |
| 80) | trans-1,4-Dichloro-2-b... | 7.676 | 53 | 2561 | 7.3569 | ug/l | 91 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 23087 | 14.3376 | ug/l | 96 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 23856 | 14.3404 | ug/l | 97 |
| 83) | 1,2-Dichlorobenzene | 8.489 | 146 | 22191 | 14.4231 | ug/l | 96 |
| 84) | Isopropylbenzene | 7.496 | 105 | 47708 | 14.7816 | ug/l | 98 |
| 85) | Cyclohexanone | 7.567 | 55 | 2337 | 71.8617 | ug/l | 84 |
| 86) | Camphene | 7.673 | 93 | 1729 | 2.3761 | ug/l | 92 |
| 87) | 1,2,3-Trichloropropane | 7.686 | 75 | 14531 | 13.5650 | ug/l | 94 |
| 88) | 2-Chlorotoluene | 7.792 | 91 | 33464 | 15.7975 | ug/l | 91 |
| 89) | p-Ethyltoluene | 7.782 | 105 | 46549 | 14.5470 | ug/l | 92 |
| 90) | 4-Chlorotoluene | 7.849 | 91 | 32392 | 15.2490 | ug/l | 96 |
| 91) | n-Propylbenzene | 7.724 | 91 | 55589 | 14.7037 | ug/l | 96 |
| 92) | Bromobenzene | 7.698 | 77 | 25220 | 13.6362 | ug/l | 74 |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 37593 | 14.3174 | ug/l | 98 |
| 94) | Butyl methacrylate | 7.817 | 41 | 19389 | 20.2255 | ug/l | 53 |
| 95) | t-Butylbenzene | 8.010 | 119 | 34988 | 14.3455 | ug/l | 98 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 39337 | 14.4095 | ug/l | 96 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 42562 | 14.2291 | ug/l | 97 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 34918 | 13.9319 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.441 | 91 | 39898 | 14.7626 | ug/l | 95 |
| 100) | p-Diethylbenzene | 8.422 | 119 | 18620 | 12.9330 | ug/l | 96 |
| 101) | 1,2,4,5-Tetramethylben... | 8.882 | 119 | 23299 | 11.8071 | ug/l | 95 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.936 | 157 | 2691 | 15.5901 | ug/l | 91 |
| 103) | Camphor | 9.377 | 95 | 14840 | 182.1254 | ug/l | 96 |
| 104) | Hexachlorobutadiene | 9.518 | 225 | 5153 | 13.7963 | ug/l | 97 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 12221 | 14.3896 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.734 | 180 | 10046 | 14.8139 | ug/l | 97 |
| 107) | Naphthalene | 9.592 | 128 | 30734 | 15.0783 | ug/l | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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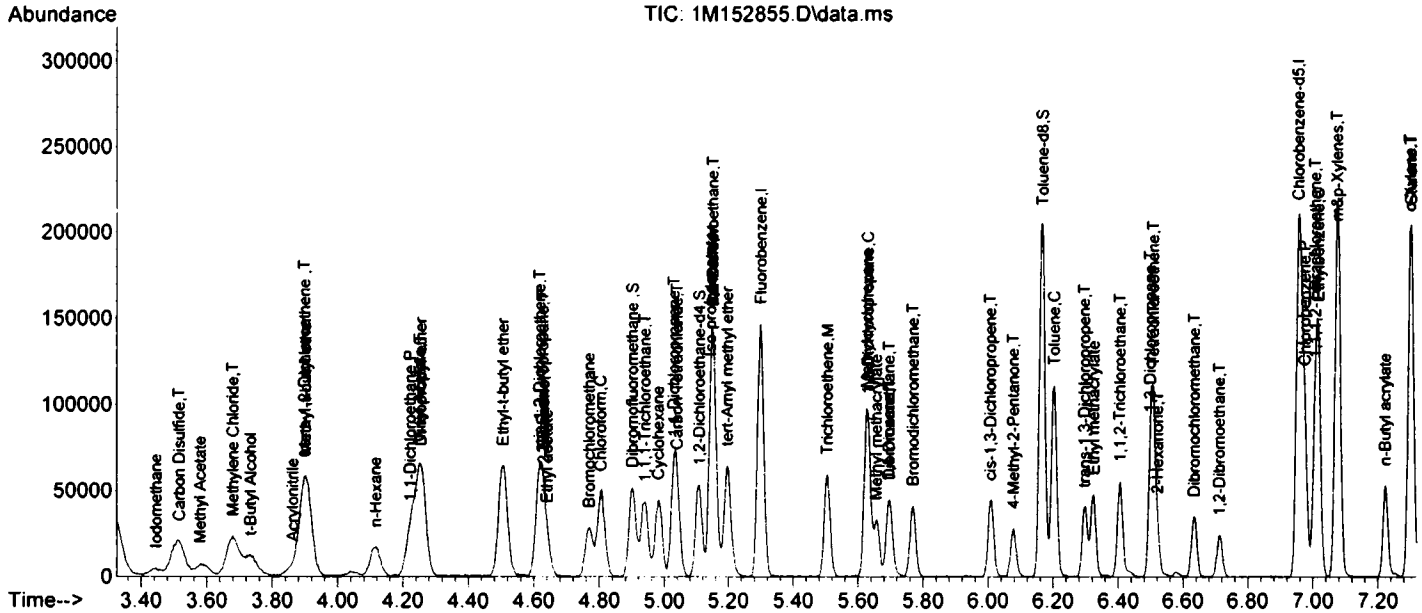
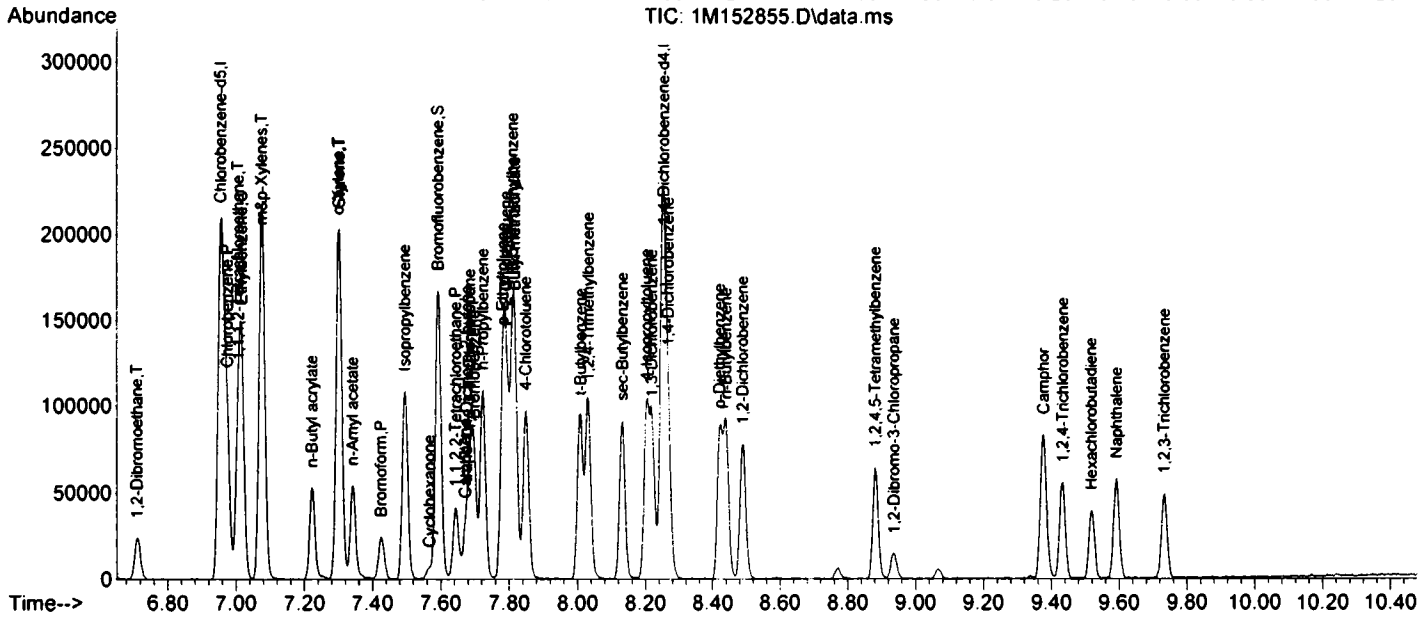
TIC: 1M152855.D\data.ms
Quant QT Reviewed
SampleID : AD26083-042(MS:AD26
Data File: 1M152855.D
Acq On : 09/22/21 20:12
Operator : WP
Sam Mult : 1 Vial# : 78
Misc : A,5ML;2
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 20:24
Qt Upd On: 08/26/21 16:07
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->


Abundance
TIC: 1M152855.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->


Abundance
TIC: 1M152855.D\data.ms
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-044(MSD:AD
Client Id: LTMW-1-20210916MSD U
Data File: 1M152856.D
Analysis Date: 09/22/21 20:31
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | 17 | 56-23-5 | Carbon Tetrachloride | 1.0 | 14 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | 17 | 108-90-7 | Chlorobenzene | 1.0 | 15 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-triflu | 1.0 | 15 | 75-00-3 | Chloroethane | 1.0 | 22 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | 15 | 67-66-3 | Chloroform | 2.0 | 17 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | 19 | 74-87-3 | Chloromethane | 1.0 | 25 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | 18 | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | 17 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | 15 | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | 13 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | 14 | 110-82-7 | Cyclohexane | 1.0 | 17 |
| 96-12-8 | 1,2-Dibromo-3-Chloroprop | 1.0 | 16 | 124-48-1 | Dibromochloromethane | 1.0 | 14 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | 15 | 75-71-8 | Dichlorodifluoromethane | 1.0 | 31 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | 14 | 100-41-4 | Ethylbenzene | 1.0 | 15 |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | 17 | 98-82-8 | Isopropylbenzene | 1.0 | 15 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | 18 | 79601-23-1 | m&p-Xylenes | 1.0 | 29 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | 14 | 79-20-9 | Methyl Acetate | 1.0 | 22 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | 14 | 108-87-2 | Methylcyclohexane | 1.0 | 12 |
| 123-91-1 | 1,4-Dioxane | 50 | 1100 | 75-09-2 | Methylene Chloride | 1.0 | 16 |
| 78-93-3 | 2-Butanone | 1.0 | 22 | 1634-04-4 | Methyl-t-butyl ether | 0.50 | 19 |
| 591-78-6 | 2-Hexanone | 1.0 | 22 | 95-47-6 | o-Xylene | 1.0 | 15 |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | 21 | 100-42-5 | Styrene | 1.0 | 14 |
| 67-64-1 | Acetone | 5.0 | 72 | 127-18-4 | Tetrachloroethene | 1.0 | 14 |
| 71-43-2 | Benzene | 0.50 | 16 | 108-88-3 | Toluene | 1.0 | 15 |
| 74-97-5 | Bromochloromethane | 1.0 | 20 | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | 16 |
| 75-27-4 | Bromodichloromethane | 1.0 | 16 | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | 13 |
| 75-25-2 | Bromoform | 1.0 | 13 | 79-01-6 | Trichloroethene | 1.0 | 15 |
| 74-83-9 | Bromomethane | 1.0 | 6.0 | 75-69-4 | Trichlorofluoromethane | 1.0 | 18 |
| 75-15-0 | Carbon Disulfide | 1.0 | 26 | 75-01-4 | Vinyl Chloride | 1.0 | 23 |
| 1330-20-7 | Xylenes (Total) | 1.0 | 44 | | | | |

Worksheet #: 611541 *Total Target Concentration* 2000 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-044(MSD:AD2 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152856.D Sam Mult : 1 Vial# : 79 Qt On : 09/22/21 20:54
Acq On : 09/22/21 20:31 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 88460 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 72333 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 39866 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 24938 | 32.25 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 107.50% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 14061 | 33.45 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 111.50% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 88844 | 28.86 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.20% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 30750 | 29.75 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.17% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.088 | 51 | 36800 | 33.6267 | ug/l | 45 |
| 6) Dichlorodifluoromethane | 2.072 | 85 | 13996 | 31.1007 | ug/l | 96 |
| 7) Chloromethane | 2.245 | 50 | 20138 | 25.4295 | ug/l | 86 |
| 8) Bromomethane | 2.615 | 94 | 2568 | 6.0382 | ug/l | 99 |
| 9) Vinyl Chloride | 2.332 | 62 | 17949 | 23.4708 | ug/l | 96 |
| 10) Chloroethane | 2.686 | 64 | 11379 | 22.4981 | ug/l | 93 |
| 11) Trichlorofluoromethane | 2.901 | 101 | 20768 | 18.4700 | ug/l | 95 |
| 12) Ethyl ether | 3.110 | 59 | 22375m | 44.0257 | ug/l | |
| 13) Furan | 3.281 | 39 | 129 | 0.1357 | ug/l | 98 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.300 | 101 | 7836m | 15.1041 | ug/l | |
| 15) Methylene Chloride | 3.676 | 84 | 11576 | 16.0341 | ug/l | 61 |
| 16) Acrolein | 3.216 | 56 | 10496 | 109.3152 | ug/l | 91 |
| 17) Acrylonitrile | 3.862 | 53 | 6507 | 25.4496 | ug/l | 97 |
| 18) Iodomethane | 3.448 | 142 | 7165 | 9.5393 | ug/l | 100 |
| 19) Acetone | 3.326 | 43 | 12177 | 71.8528 | ug/l | 97 |
| 20) Carbon Disulfide | 3.512 | 76 | 40211 | 26.1445 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.724 | 59 | 18024 | 255.6048 | ug/l | 91 |
| 22) n-Hexane | 4.117 | 57 | 9432m | 14.8218 | ug/l | |
| 23) Di-isopropyl-ether | 4.255 | 45 | 49471 | 24.1482 | ug/l | 75 |
| 24) 1,1-Dichloroethene | 3.313 | 61 | 21194 | 17.7561 | ug/l | 83 |
| 25) Methyl Acetate | 3.589 | 43 | 12018 | 22.0021 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.901 | 73 | 32670 | 18.6693 | ug/l | 78 |
| 27) 1,1-Dichloroethane | 4.226 | 63 | 25764 | 18.6101 | ug/l | 94 |
| 28) trans-1,2-Dichloroethene | 3.904 | 96 | 11468 | 15.6317 | ug/l | 77 |
| 29) Ethyl-t-butyl ether | 4.506 | 59 | 40419 | 18.7963 | ug/l | 87 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 24683 | 17.3271 | ug/l | 78 |
| 31) Bromochloromethane | 4.766 | 49 | 14022 | 19.6495 | ug/l | 63 |
| 32) 2,2-Dichloropropane | 4.628 | 77 | 12615 | 10.8716 | ug/l | 93 |
| 33) Ethyl acetate | 4.641 | 43 | 10269m | 14.6617 | ug/l | |
| 34) 1,4-Dioxane | 5.695 | 88 | 8534 | 1086.9441 | ug/l | 80 |
| 35) 1,1-Dichloropropene | 5.033 | 75 | 15940 | 16.2251 | ug/l | 92 |
| 36) Chloroform | 4.805 | 83 | 22619 | 16.7657 | ug/l | 91 |
| 38) Cyclohexane | 4.985 | 56 | 15992 | 16.7875 | ug/l | 74 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 20904 | 17.4164 | ug/l | 97 |
| 41) 2-Butanone | 4.628 | 43 | 8835m | 22.4966 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.940 | 97 | 20956 | 16.8188 | ug/l | 99 |
| 43) Carbon Tetrachloride | 5.043 | 117 | 14359 | 13.8447 | ug/l | 98 |
| 44) Vinyl Acetate | 4.248 | 43 | 45963 | 22.6690 | ug/l | 100 |
| 45) Bromodichloromethane | 5.766 | 83 | 16350 | 16.0271 | ug/l | 98 |
| 46) Methylcyclohexane | 5.624 | 83 | 9758 | 12.4177 | ug/l | 76 |
| 47) Dibromomethane | 5.695 | 174 | 7545 | 14.9799 | ug/l | 95 |
| 48) 1,2-Dichloropropane | 5.628 | 63 | 14053 | 18.2204 | ug/l | 93 |
| 49) Trichloroethene | 5.505 | 130 | 12164 | 15.0273 | ug/l | 98 |
| 50) Benzene | 5.155 | 78 | 46071 | 16.1630 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 30457 | 16.6162 | ug/l | 88 |
| 53) Iso-propylacetate | 5.145 | 43 | 26548 | 20.4762 | ug/l | 93 |
| 54) Methyl methacrylate | 5.660 | 41 | 10784 | 19.6667 | ug/l | 68 |
| 55) Dibromochloromethane | 6.634 | 129 | 11275 | 13.8861 | ug/l | 98 |
| 57) cis-1,3-Dichloropropene | 6.007 | 75 | 14989 | 13.2344 | ug/l | 97 |
| 58) trans-1,3-Dichloropropene | 6.296 | 75 | 13765 | 12.9221 | ug/l | 98 |
| 59) Ethyl methacrylate | 6.322 | 41 | 13105 | 21.3148 | ug/l | 57 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 10192 | 14.8647 | ug/l | 90 |
| 61) 1,2-Dibromoethane | 6.714 | 107 | 10590 | 15.0204 | ug/l | 95 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 18298 | 15.7441 | ug/l | 96 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 13293 | 20.9548 | ug/l | 87 |
| 64) 2-Hexanone | 6.522 | 43 | 9574 | 21.9793 | ug/l | 89 |
| 65) Tetrachloroethene | 6.509 | 164 | 9391 | 13.9151 | ug/l | 100 |
| 67) Toluene | 6.200 | 92 | 29782 | 15.2486 | ug/l | 99 |
| 68) 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 10811 | 14.4123 | ug/l | 96 |

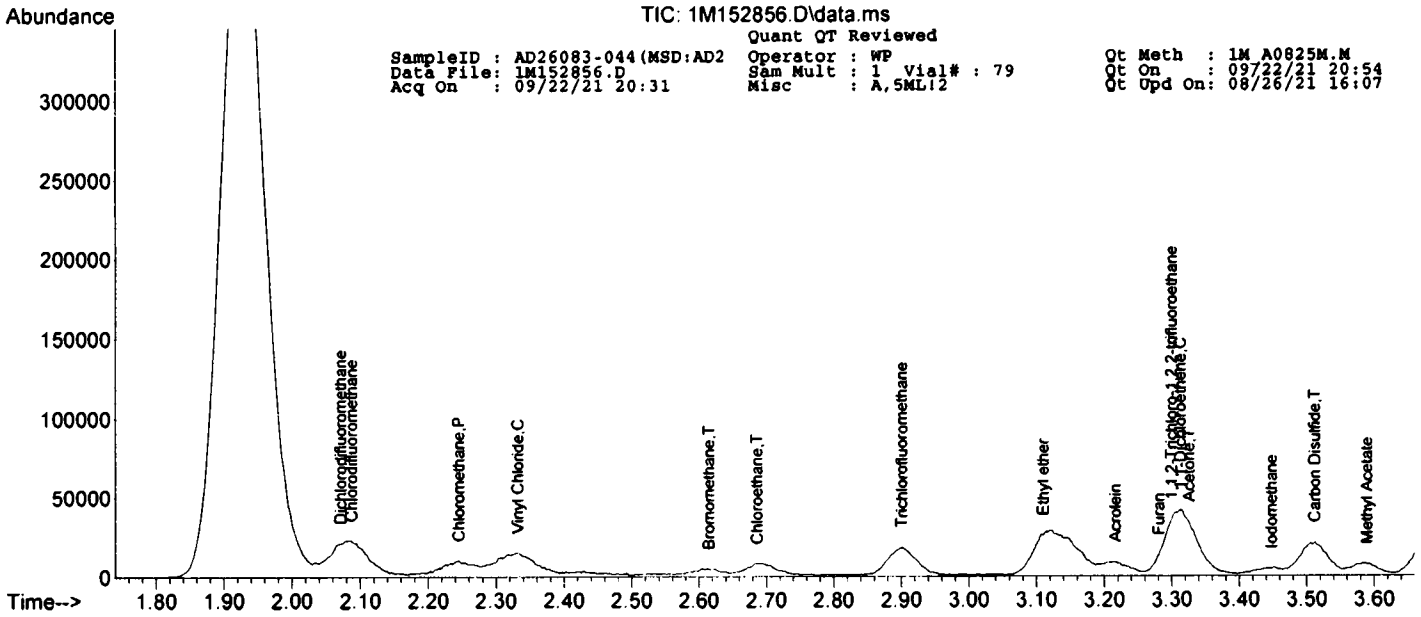
Quantitation Report (QT Reviewed)

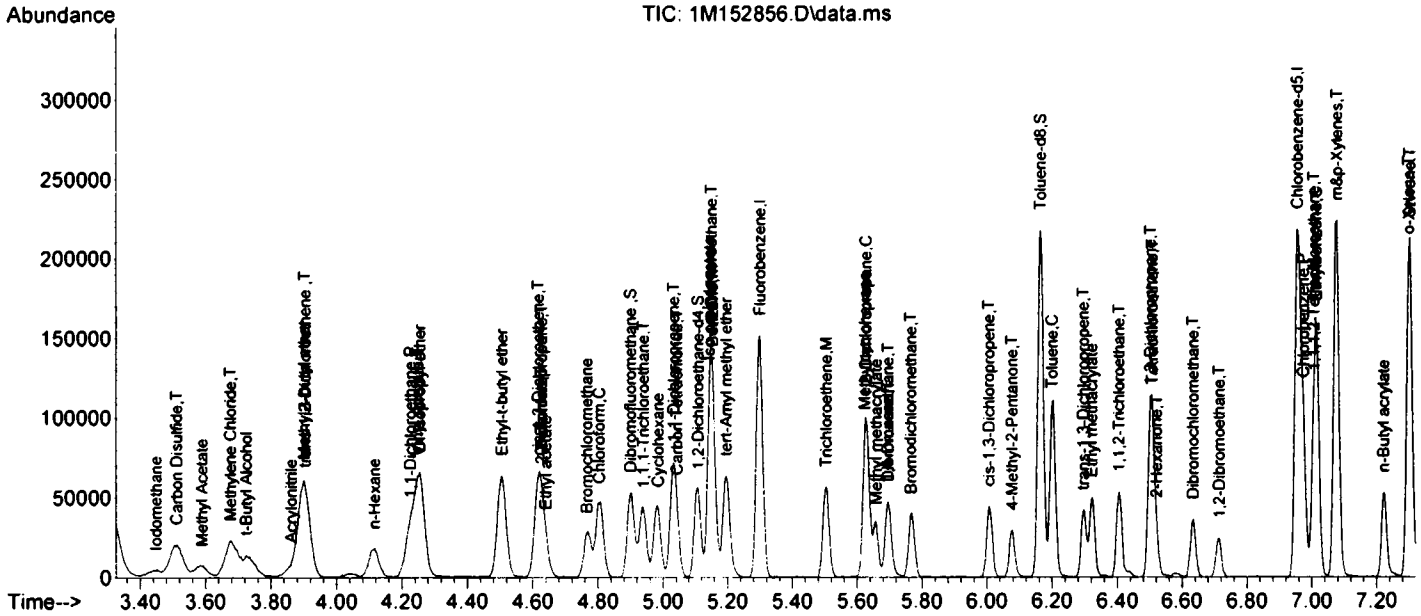
SampleID : AD26083-044(MSD:AD2 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152856.D Sam Mult : 1 Vial# : 79 Qt On : 09/22/21 20:54
Acq On : 09/22/21 20:31 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

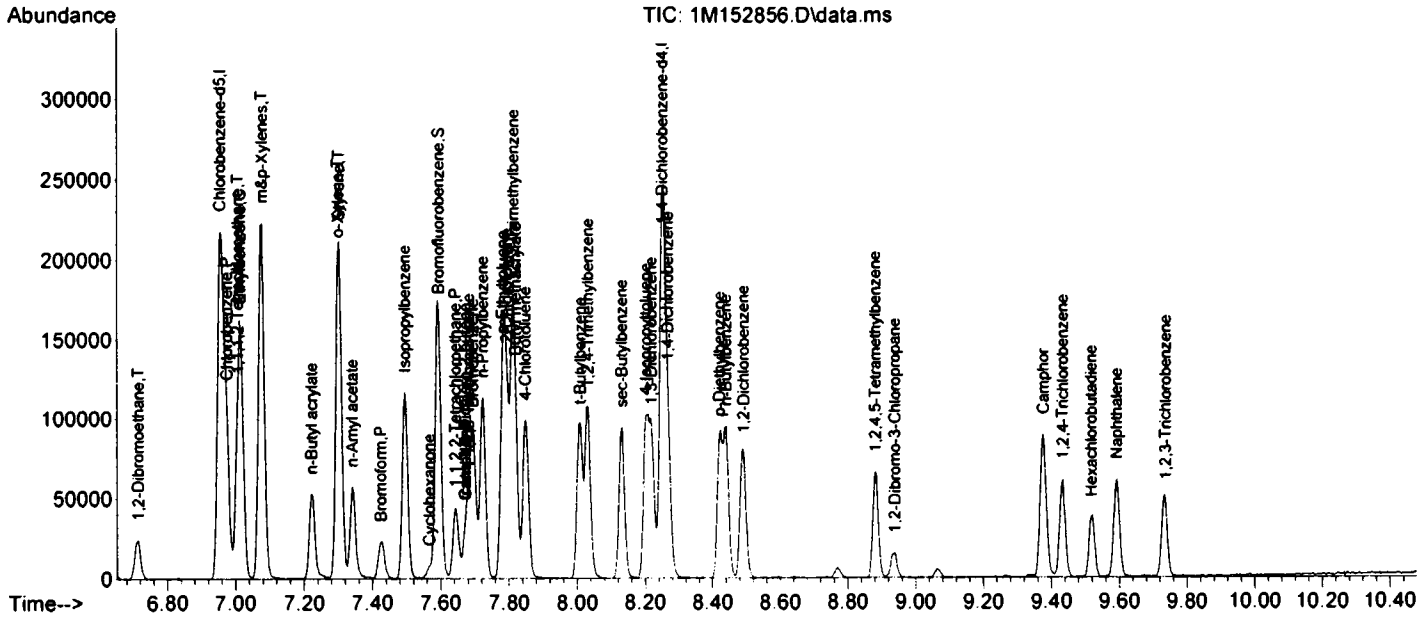
Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 69) | Chlorobenzene | 6.975 | 112 | 33193 | 15.3568 | ug/l | 93 |
| 71) | n-Butyl acrylate | 7.222 | 55 | 25586 | 17.5667 | ug/l | 87 |
| 72) | n-Amyl acetate | 7.341 | 43 | 22529 | 19.6903 | ug/l | 82 |
| 73) | Bromoform | 7.425 | 173 | 7310 | 13.2938 | ug/l | 88 |
| 74) | Ethylbenzene | 7.013 | 106 | 15072 | 15.3120 | ug/l | 88 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 14315 | 16.7064 | ug/l | 96 |
| 77) | Styrene | 7.303 | 104 | 33280 | 14.0759 | ug/l | 93 |
| 78) | m&p-Xylenes | 7.078 | 106 | 41436 | 29.4985 | ug/l | 96 |
| 79) | o-Xylene | 7.300 | 106 | 20437 | 15.0143 | ug/l | 95 |
| 80) | trans-1,4-Dichloro-2-b... | 7.673 | 53 | 2690 | 7.4952 | ug/l | 87 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 23290 | 14.0290 | ug/l | 98 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 24502 | 14.2861 | ug/l | 97 |
| 83) | 1,2-Dichlorobenzene | 8.493 | 146 | 22609 | 14.2532 | ug/l | 98 |
| 84) | Isopropylbenzene | 7.496 | 105 | 49114 | 14.7599 | ug/l | 98 |
| 85) | Cyclohexanone | 7.567 | 55 | 2978 | 88.8203 | ug/l | 87 |
| 86) | Camphene | 7.673 | 93 | 1820 | 2.4260 | ug/l | 91 |
| 87) | 1,2,3-Trichloropropane | 7.682 | 75 | 15329 | 13.8799 | ug/l | 93 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 34196 | 15.6579 | ug/l | 91 |
| 89) | p-Ethyltoluene | 7.782 | 105 | 47732 | 14.4685 | ug/l | 96 |
| 90) | 4-Chlorotoluene | 7.849 | 91 | 32784 | 14.9698 | ug/l | 95 |
| 91) | n-Propylbenzene | 7.724 | 91 | 57712 | 14.8065 | ug/l | 96 |
| 92) | Bromobenzene | 7.695 | 77 | 26389 | 13.8395 | ug/l | 75 |
| 93) | 1,3,5-Trimethylbenzene | 7.814 | 105 | 40148 | 14.8310 | ug/l | 94 |
| 94) | Butyl methacrylate | 7.821 | 41 | 19955 | 20.1904 | ug/l | 51 |
| 95) | t-Butylbenzene | 8.010 | 119 | 35908 | 14.2803 | ug/l | 96 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 40260 | 14.3044 | ug/l | 98 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 43248 | 14.0240 | ug/l | 97 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 35410 | 13.7037 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.441 | 91 | 40323 | 14.4715 | ug/l | 97 |
| 100) | p-Diethylbenzene | 8.422 | 119 | 20443 | 13.7725 | ug/l | 97 |
| 101) | 1,2,4,5-Tetramethylben... | 8.882 | 119 | 24363 | 11.9753 | ug/l | 96 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.939 | 157 | 2915 | 16.3803 | ug/l | 95 |
| 103) | Camphor | 9.377 | 95 | 15109 | 179.8545 | ug/l | 98 |
| 104) | Hexachlorobutadiene | 9.518 | 225 | 5140 | 13.3479 | ug/l | 94 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 12391 | 14.1514 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.737 | 180 | 10815 | 15.4686 | ug/l | 97 |
| 107) | Naphthalene | 9.592 | 128 | 33675 | 16.0247 | ug/l | 99 |

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


Abundance
TIC: 1M152856.D\data.ms
Quant QT Reviewed
SampleID : AD26083-044(MSD:AD2
Data File: 1M152856.D
Acq On : 09/22/21 20:31
Operator : WP
Sam Mult : 1 Vial# : 79
Misc : A,5ML;2
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 20:54
Qt Upd On: 08/26/21 16:07
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Acrolein
Furan
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->


Abundance
TIC: 1M152856.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->


Abundance
TIC: 1M152856.D\data.ms
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
t-Butylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-046
Client Id: LTMW-23-20210916 U
Data File: 2M157123.D
Analysis Date: 09/22/21 16:12
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

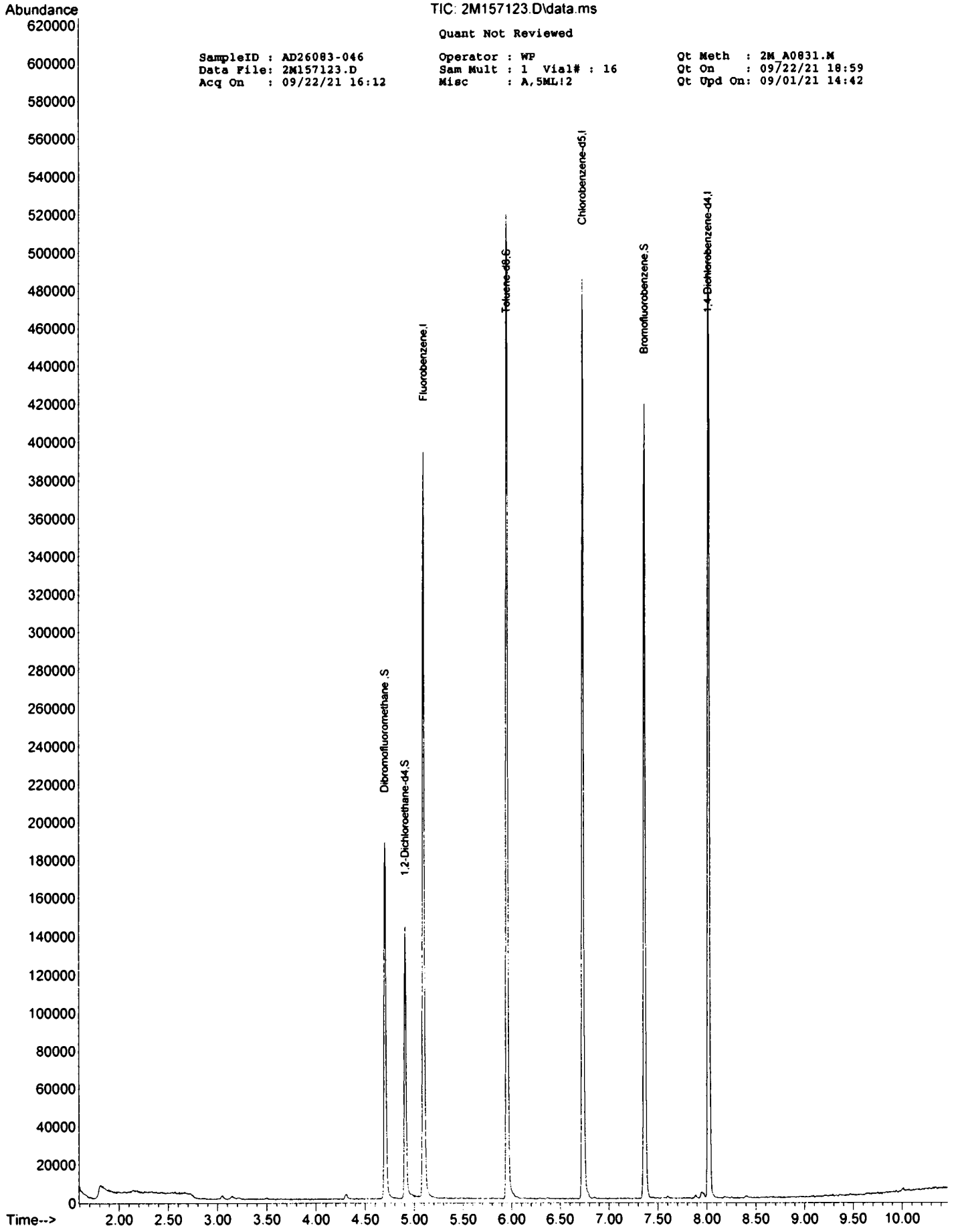
Quantitation Report (Not Reviewed)

SampleID : AD26083-046 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157123.D Sam Mult : 1 Vial# : 16 Qt On : 09/22/21 18:59
Acq On : 09/22/21 16:12 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 242816 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 218001 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 118568 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.703 | 111 | 71977 | 32.53 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.43% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 32102 | 26.71 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 89.03% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 246725 | 26.07 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 86.90% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 112934 | 31.33 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 104.43% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 2M157123.D\data.ms
Quant Not Reviewed
SampleID : AD26083-046
Data File: 2M157123.D
Acq On : 09/22/21 16:12
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : A,5ML;2
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:59
Qt Upd On: 09/01/21 14:42
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,C
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-048
Client Id: LTMW-19-20210916
Data File: 2M157124.D
Analysis Date: 09/22/21 16:32
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

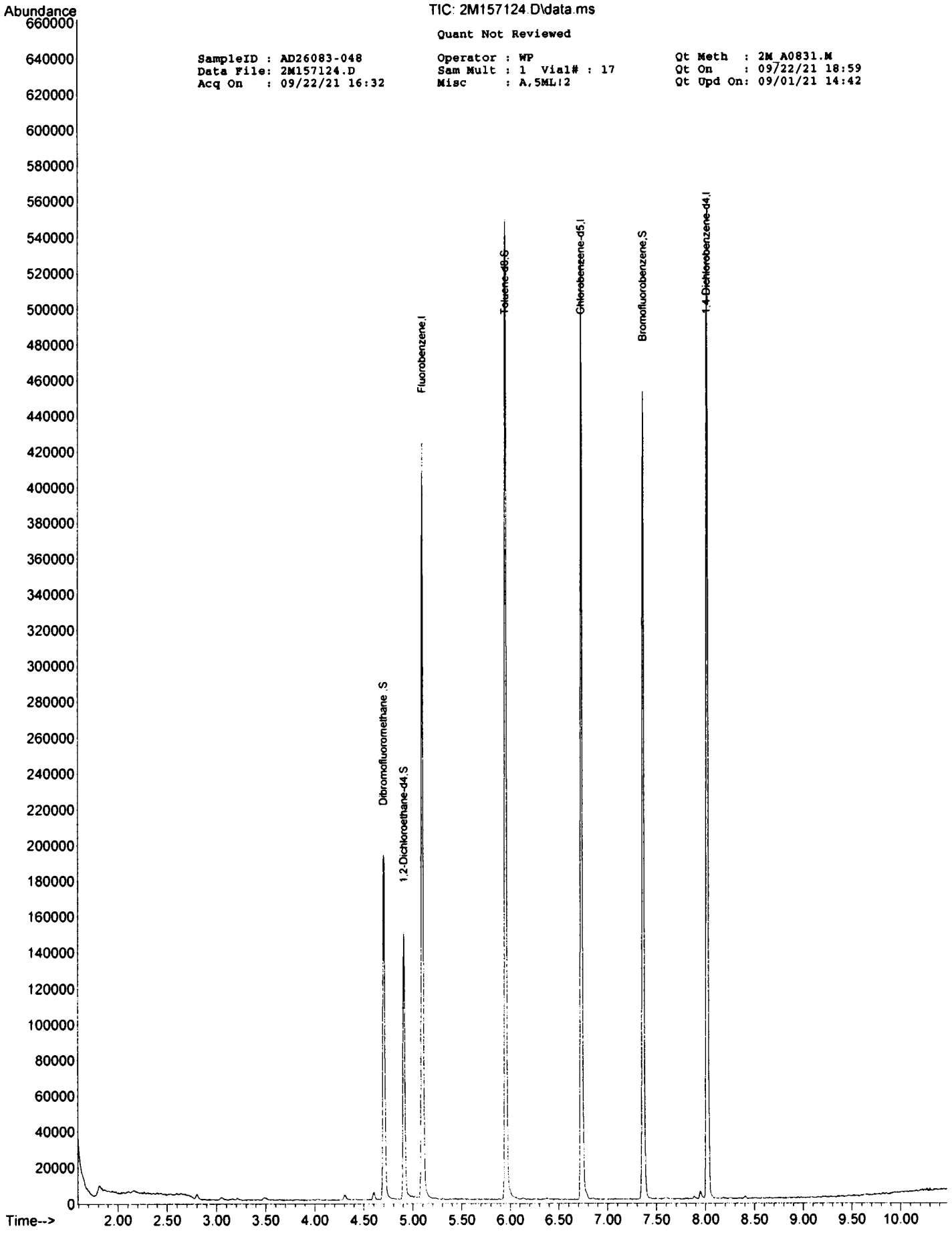
Quantitation Report (Not Reviewed)

SampleID : AD26083-048 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157124.D Sam Mult : 1 Vial# : 17 Qt On : 09/22/21 18:59
Acq On : 09/22/21 16:32 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 254039 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 230045 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 124543 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 76687 | 33.13 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 110.43% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 34276 | 27.26 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 90.87% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 257548 | 25.78 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 85.93% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 122395 | 32.32 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 107.73% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 2M157124.D\data.ms
Quant Not Reviewed
SampleID : AD26083-048
Data File: 2M157124.D
Acq On : 09/22/21 16:32
Operator : WP
Sam Mult : 1 Vial# : 17
Misc : A,5ML;2
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:59
Qt Upd On: 09/01/21 14:42
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-049(MS:AD26
Client Id: LTMW-19-20210916MS
Data File: 2M157125.D
Analysis Date: 09/22/21 16:51
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | 20 | 56-23-5 | Carbon Tetrachloride | 1.0 | 19 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | 13 | 108-90-7 | Chlorobenzene | 1.0 | 17 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-triflu | 1.0 | 19 | 75-00-3 | Chloroethane | 1.0 | 18 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | 15 | 67-66-3 | Chloroform | 2.0 | 18 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | 16 | 74-87-3 | Chloromethane | 1.0 | 18 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | 16 | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | 15 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | 15 | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | 12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | 16 | 110-82-7 | Cyclohexane | 1.0 | 16 |
| 96-12-8 | 1,2-Dibromo-3-Chloroprop | 1.0 | 14 | 124-48-1 | Dibromochloromethane | 1.0 | 17 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | 16 | 75-71-8 | Dichlorodifluoromethane | 1.0 | 38 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | 15 | 100-41-4 | Ethylbenzene | 1.0 | 13 |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | 16 | 98-82-8 | Isopropylbenzene | 1.0 | 14 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | 17 | 79601-23-1 | m&p-Xylenes | 1.0 | 27 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | 15 | 79-20-9 | Methyl Acetate | 1.0 | 13 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | 15 | 108-87-2 | Methylcyclohexane | 1.0 | 17 |
| 123-91-1 | 1,4-Dioxane | 50 | 880 | 75-09-2 | Methylene Chloride | 1.0 | 17 |
| 78-93-3 | 2-Butanone | 1.0 | 14 | 1634-04-4 | Methyl-t-butyl ether | 0.50 | 15 |
| 591-78-6 | 2-Hexanone | 1.0 | 13 | 95-47-6 | o-Xylene | 1.0 | 14 |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | 13 | 100-42-5 | Styrene | 1.0 | 13 |
| 67-64-1 | Acetone | 5.0 | 75 | 127-18-4 | Tetrachloroethene | 1.0 | 21 |
| 71-43-2 | Benzene | 0.50 | 17 | 108-88-3 | Toluene | 1.0 | 16 |
| 74-97-5 | Bromochloromethane | 1.0 | 17 | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | 18 |
| 75-27-4 | Bromodichloromethane | 1.0 | 17 | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | 12 |
| 75-25-2 | Bromoform | 1.0 | 14 | 79-01-6 | Trichloroethene | 1.0 | 22 |
| 74-83-9 | Bromomethane | 1.0 | 5.4 | 75-69-4 | Trichlorofluoromethane | 1.0 | 20 |
| 75-15-0 | Carbon Disulfide | 1.0 | 17 | 75-01-4 | Vinyl Chloride | 1.0 | 20 |
| 1330-20-7 | Xylenes (Total) | 1.0 | 41 | | | | |

Worksheet #: 611541

*Total Target Concentration* 1800

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-049(MS:AD26 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157125.D Sam Mult : 1 Vial# : 18 Qt On : 09/22/21 18:59
Acq On : 09/22/21 16:51 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 210739 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.732 | 117 | 187116 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 110974 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 63316 | 32.97 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 109.90% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 27902 | 26.75 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 89.17% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 214243 | 26.37 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 87.90% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 106908 | 31.68 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 105.60% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 33284 | 14.2058 | ug/l | 82 |
| 6) Dichlorodifluoromethane | 1.685 | 85 | 37930 | 37.8605 | ug/l | 100 |
| 7) Chloromethane | 1.861 | 50 | 24900 | 18.4756 | ug/l | 99 |
| 8) Bromomethane | 2.252 | 94 | 6526 | 5.3689 | ug/l | 96 |
| 9) Vinyl Chloride | 1.953 | 62 | 30325 | 19.9301 | ug/l | 99 |
| 10) Chloroethane | 2.343 | 64 | 19199 | 18.3664 | ug/l | 88 |
| 11) Trichlorofluoromethane | 2.563 | 101 | 52352 | 19.8891 | ug/l | 95 |
| 12) Ethyl ether | 2.800 | 59 | 17514 | 16.4224 | ug/l | 96 |
| 13) Furan | 2.843 | 39 | 31892 | 14.9563 | ug/l | 91 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.001 | 101 | 25287 | 19.4108 | ug/l | 88 |
| 15) Methylene Chloride | 3.416 | 84 | 26739 | 16.9212 | ug/l | 97 |
| 16) Acrolein | 2.916 | 56 | 18648 | 63.2807 | ug/l | 93 |
| 17) Acrylonitrile | 3.623 | 53 | 12491 | 15.2524 | ug/l | 95 |
| 18) Iodomethane | 3.148 | 142 | 20404 | 12.7076 | ug/l | 97 |
| 19) Acetone | 3.044 | 43 | 47165 | 74.5505 | ug/l | 94 |
| 20) Carbon Disulfide | 3.215 | 76 | 70426 | 16.9369 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.483 | 59 | 16598 | 71.4190 | ug/l | 92 |
| 22) n-Hexane | 3.873 | 57 | 20720 | 13.2533 | ug/l | 96 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 78577 | 15.3605 | ug/l | 98 |
| 24) 1,1-Dichloroethene | 3.008 | 61 | 33851 | 15.6608 | ug/l | 99 |
| 25) Methyl Acetate | 3.318 | 43 | 24030 | 12.6023 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 68521 | 15.2747 | ug/l | 93 |
| 27) 1,1-Dichloroethane | 4.001 | 63 | 42592 | 15.9727 | ug/l | 98 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 28708 | 18.3884 | ug/l | 93 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 64242 | 14.7770 | ug/l | 99 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 41582 | 15.0621 | ug/l | 94 |
| 31) Bromochloromethane | 4.568 | 49 | 22219 | 16.7927 | ug/l | 83 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 23032 | 10.2248 | ug/l | 96 |
| 33) Ethyl acetate | 4.440 | 43 | 27430m | 13.0789 | ug/l | |
| 34) 1,4-Dioxane | 5.495 | 88 | 25009 | 876.1692 | ug/l | 95 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 36363 | 17.3398 | ug/l | 95 |
| 36) Chloroform | 4.605 | 83 | 50254 | 18.2490 | ug/l | 96 |
| 38) Cyclohexane | 4.769 | 56 | 34667 | 16.1270 | ug/l | 93 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 36584 | 15.7958 | ug/l | 100 |
| 41) 2-Butanone | 4.410 | 43 | 15231m | 14.2469 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 48185 | 19.5699 | ug/l | 95 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 42165 | 19.2710 | ug/l | 96 |
| 44) Vinyl Acetate | 4.026 | 43 | 73541 | 13.1855 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 37194 | 17.2009 | ug/l | 99 |
| 46) Methylcyclohexane | 5.416 | 83 | 32219 | 17.0488 | ug/l | 97 |
| 47) Dibromomethane | 5.501 | 174 | 31815 | 24.7012 | ug/l | 96 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 26305 | 16.6015 | ug/l | 96 |
| 49) Trichloroethene | 5.300 | 130 | 38947 | 22.3470 | ug/l | 96 |
| 50) Benzene | 4.946 | 78 | 104321 | 16.9653 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 69195 | 15.5185 | ug/l | 94 |
| 53) Iso-propylacetate | 4.946 | 43 | 48737 | 10.6231 | ug/l | 94 |
| 54) Methyl methacrylate | 5.458 | 41 | 24643 | 12.4486 | ug/l | 95 |
| 55) Dibromochloromethane | 6.422 | 129 | 35270 | 16.8353 | ug/l | 97 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 34767 | 11.8305 | ug/l | 98 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 32301 | 11.8464 | ug/l | 99 |
| 59) Ethyl methacrylate | 6.111 | 41 | 25490 | 12.5931 | ug/l | 87 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 27382 | 15.2957 | ug/l | 98 |
| 61) 1,2-Dibromoethane | 6.495 | 107 | 31622 | 16.1677 | ug/l | 96 |
| 62) 1,3-Dichloropropane | 6.287 | 76 | 42863 | 14.3253 | ug/l | 99 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 32359 | 13.2420 | ug/l | 87 |
| 64) 2-Hexanone | 6.306 | 43 | 24097 | 13.1779 | ug/l | 90 |
| 65) Tetrachloroethene | 6.287 | 164 | 35595 | 21.3138 | ug/l | 97 |
| 67) Toluene | 5.995 | 92 | 72368 | 15.5519 | ug/l | 99 |
| 68) 1,1,1,2-Tetrachloroethane | 6.787 | 133 | 33488 | 18.0803 | ug/l | 92 |

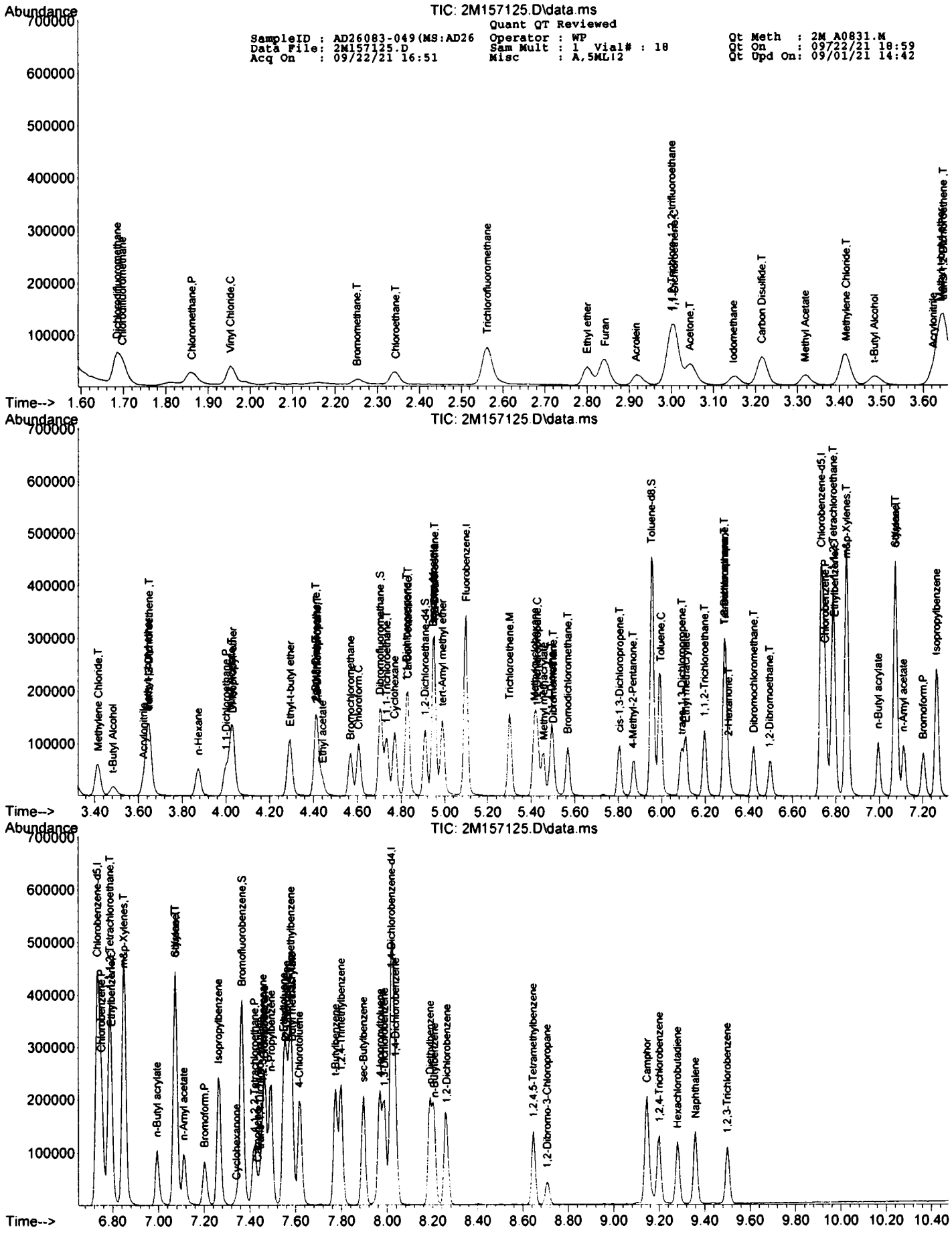
Quantitation Report (QT Reviewed)

SampleID : AD26083-049(MS:AD26 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157125.D Sam Mult : 1 Vial# : 18 Qt On : 09/22/21 18:59
Acq On : 09/22/21 16:51 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 69) | Chlorobenzene | 6.751 | 112 | 88640 | 17.1418 | ug/l | 98 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 45772 | 9.7472 | ug/l | 98 |
| 72) | n-Amyl acetate | 7.110 | 43 | 39207 | 8.5093 | ug/l | 95 |
| 73) | Bromoform | 7.202 | 173 | 29415 | 14.1773 | ug/l | 100 |
| 74) | Ethylbenzene | 6.793 | 106 | 35215 | 12.8175 | ug/l | 91 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.421 | 83 | 39508 | 12.5888 | ug/l | 95 |
| 77) | Styrene | 7.074 | 104 | 85886 | 12.8877 | ug/l | 99 |
| 78) | m&p-Xylenes | 6.848 | 106 | 108829 | 26.6471 | ug/l | 98 |
| 79) | o-Xylene | 7.074 | 106 | 53090 | 13.5995 | ug/l | 86 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 6702 | 5.0436 | ug/l | 90 |
| 81) | 1,3-Dichlorobenzene | 7.988 | 146 | 68102 | 15.4797 | ug/l | 96 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 69155 | 15.3639 | ug/l | 97 |
| 83) | 1,2-Dichlorobenzene | 8.263 | 146 | 64071 | 15.1771 | ug/l | 95 |
| 84) | Isopropylbenzene | 7.263 | 105 | 125207 | 13.8024 | ug/l | 97 |
| 85) | Cyclohexanone | 7.342 | 55 | 6031 | 43.8259 | ug/l | 97 |
| 86) | Camphene | 7.434 | 93 | 4991 | 2.2611 | ug/l | 99 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 40622 | 10.1309 | ug/l | 86 |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 69640 | 12.7164 | ug/l | 97 |
| 89) | p-Ethyltoluene | 7.549 | 105 | 126563 | 13.8390 | ug/l | 96 |
| 90) | 4-Chlorotoluene | 7.616 | 91 | 67236 | 12.2213 | ug/l | 97 |
| 91) | n-Propylbenzene | 7.495 | 91 | 132282 | 12.9445 | ug/l | 94 |
| 92) | Bromobenzene | 7.464 | 77 | 62330 | 10.5953 | ug/l | 74 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 84216 | 13.1451 | ug/l | 86 |
| 94) | Butyl methacrylate | 7.586 | 41 | 32898 | 10.2523 | ug/l | 87 |
| 95) | t-Butylbenzene | 7.775 | 119 | 95747 | 14.3766 | ug/l | 96 |
| 96) | 1,2,4-Trimethylbenzene | 7.799 | 105 | 93655 | 12.8313 | ug/l | 94 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 106640 | 13.6014 | ug/l | 93 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 93803 | 14.2660 | ug/l | 99 |
| 99) | n-Butylbenzene | 8.208 | 91 | 85652 | 12.3961 | ug/l | 95 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 50471 | 13.3618 | ug/l | 95 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 55407 | 11.9591 | ug/l | 100 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 10903 | 13.8727 | ug/l | 86 |
| 103) | Camphor | 9.147 | 95 | 44582 | 126.7695 | ug/l | 96 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 19471 | 18.1118 | ug/l | 94 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 34626 | 15.9090 | ug/l | 98 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 29018 | 14.8433 | ug/l | 95 |
| 107) | Naphthalene | 9.360 | 128 | 85416 | 12.5643 | ug/l | 100 |

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


TIC: 2M157125.D\data.ms
Quant QT Reviewed
SampleID : AD26083-049(MS:AD26
Data File: 2M157125.D
Acq On : 09/22/21 16:51
Operator : WP
Sam Mult : 1 Vial# : 18
Misc : A,5ML12
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:59
Qt Upd On: 09/01/21 14:42
Abundance
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-050(MSD:AD
Client Id: LTMW-19-20210916MSD
Data File: 2M157126.D
Analysis Date: 09/22/21 17:10
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | 18 | 56-23-5 | Carbon Tetrachloride | 1.0 | 18 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | 11 | 108-90-7 | Chlorobenzene | 1.0 | 16 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-triflu | 1.0 | 19 | 75-00-3 | Chloroethane | 1.0 | 19 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | 15 | 67-66-3 | Chloroform | 2.0 | 17 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | 15 | 74-87-3 | Chloromethane | 1.0 | 18 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | 15 | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | 14 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | 17 | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | 11 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | 17 | 110-82-7 | Cyclohexane | 1.0 | 16 |
| 96-12-8 | 1,2-Dibromo-3-Chloroprop | 1.0 | 15 | 124-48-1 | Dibromochloromethane | 1.0 | 16 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | 15 | 75-71-8 | Dichlorodifluoromethane | 1.0 | 36 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | 15 | 100-41-4 | Ethylbenzene | 1.0 | 13 |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | 15 | 98-82-8 | Isopropylbenzene | 1.0 | 14 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | 16 | 79601-23-1 | m&p-Xylenes | 1.0 | 26 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | 15 | 79-20-9 | Methyl Acetate | 1.0 | 12 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | 15 | 108-87-2 | Methylcyclohexane | 1.0 | 17 |
| 123-91-1 | 1,4-Dioxane | 50 | 970 | 75-09-2 | Methylene Chloride | 1.0 | 16 |
| 78-93-3 | 2-Butanone | 1.0 | 14 | 1634-04-4 | Methyl-t-butyl ether | 0.50 | 15 |
| 591-78-6 | 2-Hexanone | 1.0 | 13 | 95-47-6 | o-Xylene | 1.0 | 13 |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | 13 | 100-42-5 | Styrene | 1.0 | 12 |
| 67-64-1 | Acetone | 5.0 | 75 | 127-18-4 | Tetrachloroethene | 1.0 | 20 |
| 71-43-2 | Benzene | 0.50 | 16 | 108-88-3 | Toluene | 1.0 | 15 |
| 74-97-5 | Bromochloromethane | 1.0 | 16 | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | 17 |
| 75-27-4 | Bromodichloromethane | 1.0 | 17 | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | 11 |
| 75-25-2 | Bromoform | 1.0 | 13 | 79-01-6 | Trichloroethene | 1.0 | 21 |
| 74-83-9 | Bromomethane | 1.0 | 5.3 | 75-69-4 | Trichlorofluoromethane | 1.0 | 20 |
| 75-15-0 | Carbon Disulfide | 1.0 | 15 | 75-01-4 | Vinyl Chloride | 1.0 | 19 |
| 1330-20-7 | Xylenes (Total) | 1.0 | 39 | | | | |

Worksheet #: 611541 *Total Target Concentration* 1800 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-050(MSD:AD2 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157126.D Sam Mult : 1 Vial# : 19 Qt On : 09/22/21 18:59
Acq On : 09/22/21 17:10 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.098 | 96 | 227933 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.732 | 117 | 205827 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 121368 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 70659 | 34.02 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 113.40% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.909 | 67 | 31620 | 28.02 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.40% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 233744 | 26.15 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 87.17% | | | |
| 76) Bromofluorobenzene | 7.366 | 174 | 117522 | 31.85 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.17% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 35071 | 13.8388 | ug/l | 84 |
| 6) Dichlorodifluoromethane | 1.684 | 85 | 39159 | 36.1387 | ug/l | 100 |
| 7) Chloromethane | 1.855 | 50 | 26116 | 17.9161 | ug/l | 96 |
| 8) Bromomethane | 2.251 | 94 | 6992 | 5.3183 | ug/l | 91 |
| 9) Vinyl Chloride | 1.953 | 62 | 30660 | 18.6302 | ug/l | 99 |
| 10) Chloroethane | 2.337 | 64 | 20943 | 18.5234 | ug/l | 98 |
| 11) Trichlorofluoromethane | 2.562 | 101 | 55619 | 19.5363 | ug/l | 99 |
| 12) Ethyl ether | 2.800 | 59 | 18512 | 16.0488 | ug/l | 96 |
| 13) Furan | 2.837 | 39 | 33228 | 14.4074 | ug/l | 90 |
| 14) 1,1,2-Trichloro-1,2,2-... | 2.995 | 101 | 26129 | 18.5441 | ug/l | 89 |
| 15) Methylene Chloride | 3.416 | 84 | 26626 | 15.5787 | ug/l | 95 |
| 16) Acrolein | 2.916 | 56 | 20119 | 63.1224 | ug/l | 95 |
| 17) Acrylonitrile | 3.623 | 53 | 13336 | 15.0558 | ug/l | 96 |
| 18) Iodomethane | 3.148 | 142 | 24252 | 13.9498 | ug/l | 100 |
| 19) Acetone | 3.044 | 43 | 51277 | 74.9361 | ug/l | 98 |
| 20) Carbon Disulfide | 3.215 | 76 | 67117 | 14.9235 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.483 | 59 | 20481 | 81.4792 | ug/l | 92 |
| 22) n-Hexane | 3.873 | 57 | 22845 | 13.5103 | ug/l | 94 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 81063 | 14.6511 | ug/l | 96 |
| 24) 1,1-Dichloroethene | 3.007 | 61 | 34148 | 14.6064 | ug/l | 98 |
| 25) Methyl Acetate | 3.318 | 43 | 25137 | 12.1884 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.641 | 73 | 72259 | 14.8929 | ug/l | 94 |
| 27) 1,1-Dichloroethane | 4.001 | 63 | 43880 | 15.2144 | ug/l | 97 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 28303 | 16.7615 | ug/l | 94 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 66417 | 14.1248 | ug/l | 98 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 42420 | 14.2066 | ug/l | 88 |
| 31) Bromochloromethane | 4.568 | 49 | 22358 | 15.6231 | ug/l | 81 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 23736 | 9.7424 | ug/l | 95 |
| 33) Ethyl acetate | 4.440 | 43 | 29252m | 12.8955 | ug/l | |
| 34) 1,4-Dioxane | 5.489 | 88 | 29888 | 968.1134 | ug/l | 98 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 35963 | 15.8554 | ug/l | 92 |
| 36) Chloroform | 4.605 | 83 | 51983 | 17.4529 | ug/l | 99 |
| 38) Cyclohexane | 4.769 | 56 | 36639 | 15.7586 | ug/l | 96 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 38271 | 15.2777 | ug/l | 95 |
| 41) 2-Butanone | 4.410 | 43 | 16251m | 14.0543 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 48362 | 18.1601 | ug/l | 99 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 43575 | 18.4131 | ug/l | 99 |
| 44) Vinyl Acetate | 4.026 | 43 | 76254 | 12.6406 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 38740 | 16.5643 | ug/l | 99 |
| 46) Methylcyclohexane | 5.415 | 83 | 35681 | 17.4564 | ug/l | 97 |
| 47) Dibromomethane | 5.495 | 174 | 33324 | 23.9211 | ug/l | 99 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 27340 | 15.9531 | ug/l | 92 |
| 49) Trichloroethene | 5.300 | 130 | 40456 | 21.4618 | ug/l | 95 |
| 50) Benzene | 4.946 | 78 | 107666 | 16.1884 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 71378 | 14.8005 | ug/l | 94 |
| 53) Iso-propylacetate | 4.946 | 43 | 52643 | 10.4314 | ug/l | 94 |
| 54) Methyl methacrylate | 5.458 | 41 | 27804 | 12.7686 | ug/l | 90 |
| 55) Dibromochloromethane | 6.421 | 129 | 37142 | 16.1172 | ug/l | 97 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 36577 | 11.3150 | ug/l | 99 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 34422 | 11.4766 | ug/l | 95 |
| 59) Ethyl methacrylate | 6.111 | 41 | 26538 | 11.9190 | ug/l | 88 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 29216 | 14.8366 | ug/l | 98 |
| 61) 1,2-Dibromoethane | 6.495 | 107 | 32781 | 15.2367 | ug/l | 100 |
| 62) 1,3-Dichloropropane | 6.287 | 76 | 44239 | 13.4411 | ug/l | 99 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 34116 | 12.6919 | ug/l | 87 |
| 64) 2-Hexanone | 6.306 | 43 | 25322 | 12.5890 | ug/l | 94 |
| 65) Tetrachloroethene | 6.293 | 164 | 37171 | 20.2342 | ug/l | 100 |
| 67) Toluene | 5.989 | 92 | 76107 | 14.8686 | ug/l | 100 |
| 68) 1,1,1,2-Tetrachloroethane | 6.787 | 133 | 33870 | 16.6241 | ug/l | 93 |

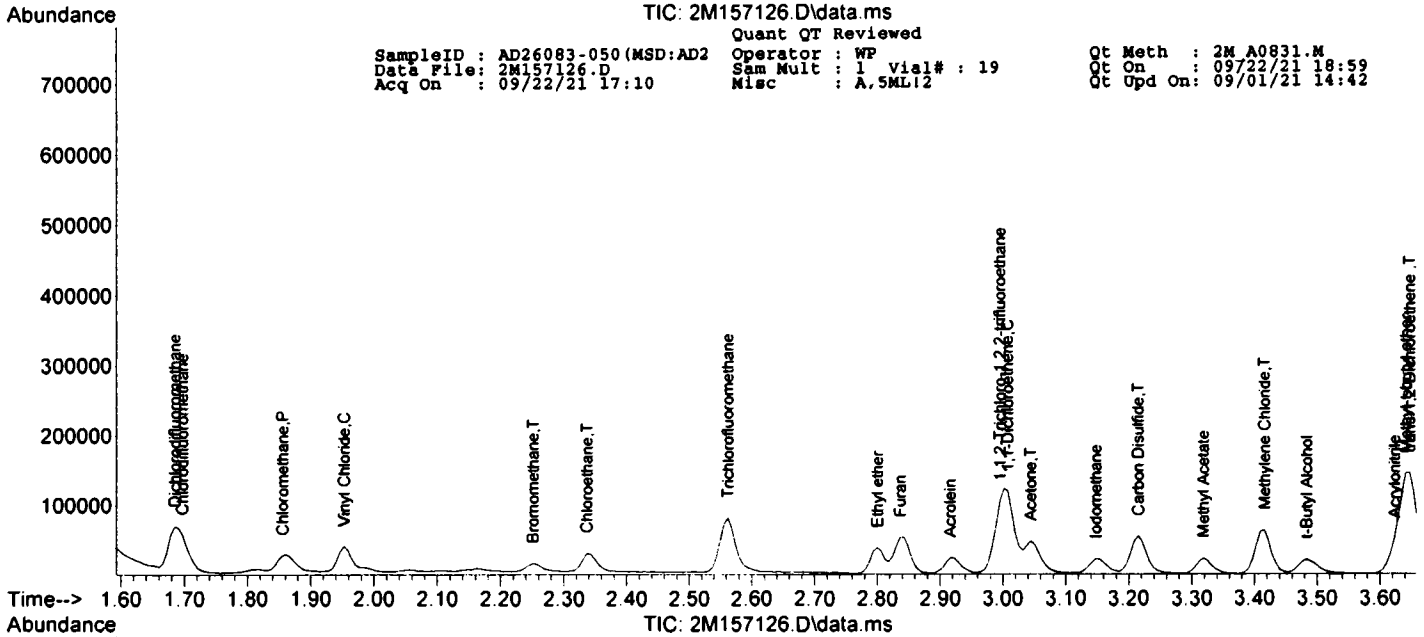
Quantitation Report (QT Reviewed)

SampleID : AD26083-050(MSD:AD2 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157126.D Sam Mult : 1 Vial# : 19 Qt On : 09/22/21 18:59
Acq On : 09/22/21 17:10 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 69) Chlorobenzene | 6.751 | 112 | 93332 | 16.4084 | ug/l | 98 |
| 71) n-Butyl acrylate | 6.994 | 55 | 49891 | 9.7145 | ug/l | 95 |
| 72) n-Amyl acetate | 7.110 | 43 | 40889 | 8.1144 | ug/l | 94 |
| 73) Bromoform | 7.202 | 173 | 30175 | 13.2981 | ug/l | 97 |
| 74) Ethylbenzene | 6.793 | 106 | 38933 | 12.9571 | ug/l | 92 |
| 75) 1,1,2,2-Tetrachloroethane | 7.421 | 83 | 39417 | 11.4841 | ug/l | 96 |
| 77) Styrene | 7.074 | 104 | 90743 | 12.4504 | ug/l | 97 |
| 78) m&p-Xylenes | 6.848 | 106 | 114213 | 25.5704 | ug/l | 96 |
| 79) o-Xylene | 7.074 | 106 | 56212 | 13.1660 | ug/l | 90 |
| 80) trans-1,4-Dichloro-2-b... | 7.446 | 53 | 7744 | 5.3287 | ug/l | 96 |
| 81) 1,3-Dichlorobenzene | 7.988 | 146 | 74187 | 15.4186 | ug/l | 96 |
| 82) 1,4-Dichlorobenzene | 8.037 | 146 | 74927 | 15.2207 | ug/l | 97 |
| 83) 1,2-Dichlorobenzene | 8.256 | 146 | 69904 | 15.1407 | ug/l | 96 |
| 84) Isopropylbenzene | 7.263 | 105 | 135300 | 13.6377 | ug/l | 97 |
| 85) Cyclohexanone | 7.342 | 55 | 6708 | 44.5709 | ug/l | 93 |
| 86) Camphene | 7.433 | 93 | 5594 | 2.3173 | ug/l | 96 |
| 87) 1,2,3-Trichloropropane | 7.458 | 75 | 44014 | 10.0368 | ug/l | 86 |
| 88) 2-Chlorotoluene | 7.561 | 91 | 74382 | 12.4191 | ug/l | 95 |
| 89) p-Ethyltoluene | 7.549 | 105 | 140118 | 14.0091 | ug/l | 94 |
| 90) 4-Chlorotoluene | 7.616 | 91 | 70245 | 11.6748 | ug/l | 93 |
| 91) n-Propylbenzene | 7.488 | 91 | 144237 | 12.9056 | ug/l | 95 |
| 92) Bromobenzene | 7.464 | 77 | 66085 | 10.2716 | ug/l | 75 |
| 93) 1,3,5-Trimethylbenzene | 7.580 | 105 | 90129 | 12.8632 | ug/l | 84 |
| 94) Butyl methacrylate | 7.586 | 41 | 35566 | 10.1345 | ug/l | 85 |
| 95) t-Butylbenzene | 7.775 | 119 | 104845 | 14.3945 | ug/l | 95 |
| 96) 1,2,4-Trimethylbenzene | 7.799 | 105 | 105574 | 13.2255 | ug/l | 95 |
| 97) sec-Butylbenzene | 7.897 | 105 | 116825 | 13.6244 | ug/l | 93 |
| 98) 4-Isopropyltoluene | 7.970 | 119 | 103720 | 14.4233 | ug/l | 98 |
| 99) n-Butylbenzene | 8.202 | 91 | 94935 | 12.5629 | ug/l | 94 |
| 100) p-Diethylbenzene | 8.189 | 119 | 56627 | 13.7077 | ug/l | 94 |
| 101) 1,2,4,5-Tetramethylben... | 8.647 | 119 | 61853 | 12.2071 | ug/l | 97 |
| 102) 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 12528 | 14.5752 | ug/l | 83 |
| 103) Camphor | 9.147 | 95 | 53847 | 140.0018 | ug/l | 97 |
| 104) Hexachlorobutadiene | 9.281 | 225 | 19862 | 16.8933 | ug/l | 93 |
| 105) 1,2,4-Trichlorobenzene | 9.201 | 180 | 40397 | 16.9710 | ug/l | 99 |
| 106) 1,2,3-Trichlorobenzene | 9.500 | 180 | 36078 | 16.8742 | ug/l | 97 |
| 107) Naphthalene | 9.360 | 128 | 104260 | 14.0228 | ug/l | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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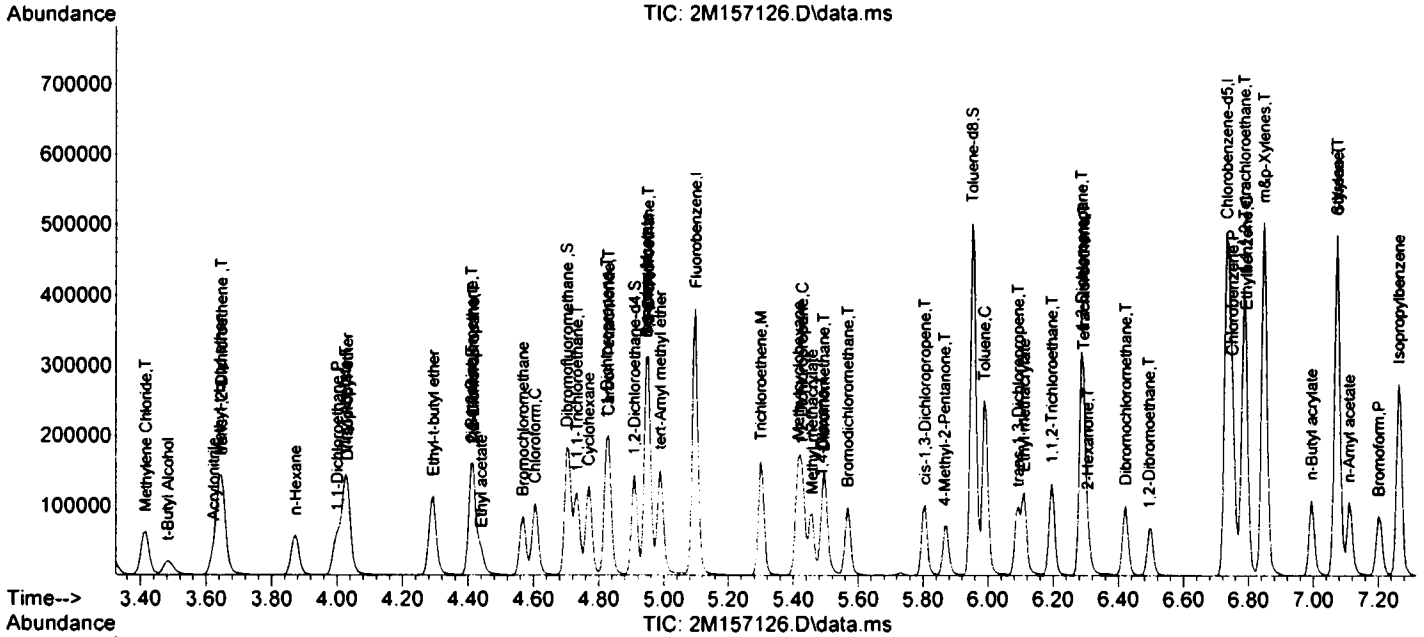
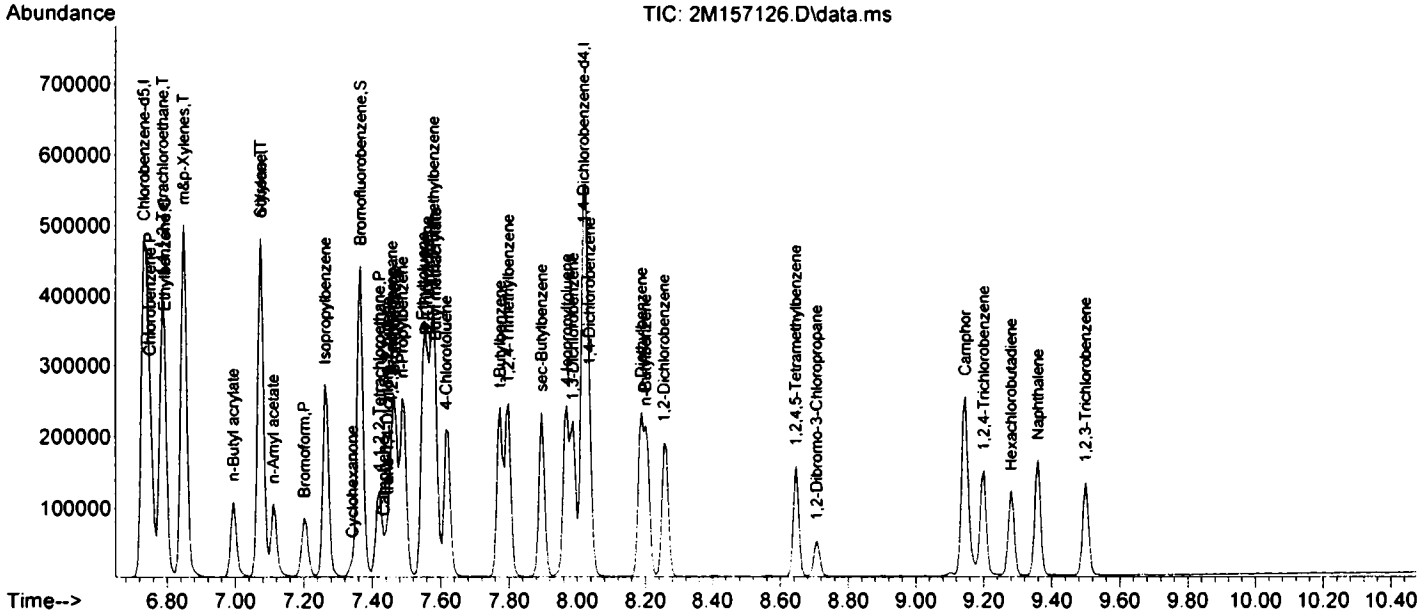
Quant QT Reviewed
SampleID : AD26083-050(MSD:AD2
Data File: 2M157126.D
Acq On : 09/22/21 17:10
Operator : WP
Sam Mult : 1 vial# : 19
Misc : A,5ML12
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:59
Qt Upd On: 09/01/21 14:42
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->


Abundance
TIC: 2M157126.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Fluorobenzene,I
Trichloroethene,M
Toluene-d8,S
Toluene,C
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M157126.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
4-Chlorotoluene
sec-Butylbenzene
1,2-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-051
Client Id: TB-20210916
Data File: 1M152884.D
Analysis Date: 09/23/21 04:56
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

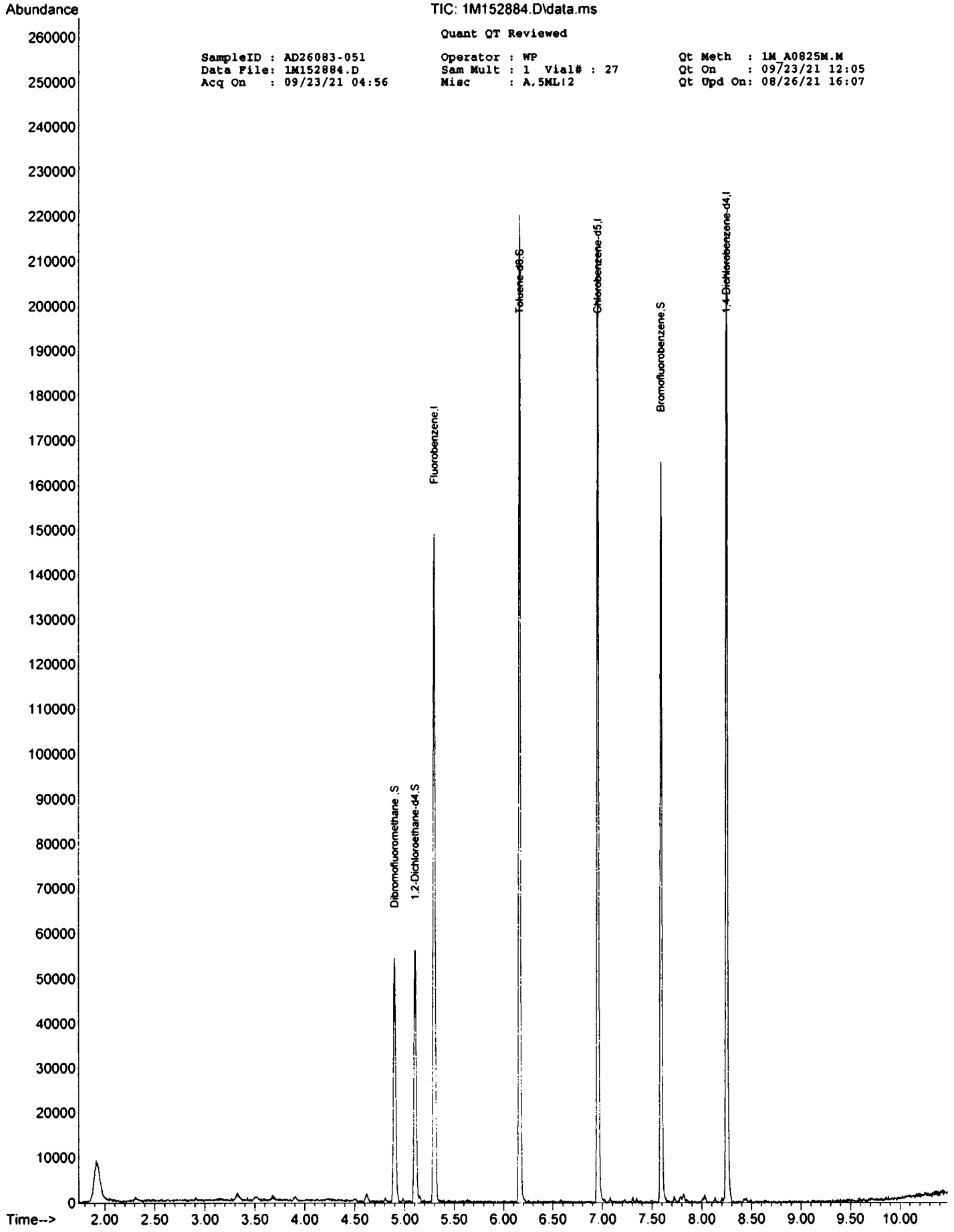
Quantitation Report (QT Reviewed)

SampleID : AD26083-051 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152884.D Sam Mult : 1 Vial# : 27 Qt On : 09/23/21 12:05
Acq On : 09/23/21 04:56 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 88562 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 72970 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 38680 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 25297 | 32.67 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.90% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 14568 | 34.61 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 115.37% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 89860 | 28.93 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.43% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 29396 | 29.31 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.70% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152884.D\data.ms
Quant QT Reviewed
SampleID : AD26083-051
Data File: 1M152884.D
Acq On : 09/23/21 04:56
Operator : WP
Sam Mult : 1 Vial# : 27
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:05
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# GC/MS Volatile Data
# Standards Data

1091738 0641

Method: EPA 8260D

# Form 6
## Initial Calibration

Instrument: GCMS_1

| Level # | Data File | Cal Identifier | Analysis Date/Time | Level # | Data File | Cal Identifier | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 1M151948.D | CAL @ 20 PPB | 08/25/21 19:57 | 2 | 1M151946.D | CAL @ 5 PPB | 08/25/21 19:20 |
| 3 | 1M151947.D | CAL @ 10 PPB | 08/25/21 19:38 | 4 | 1M151949.D | CAL @ 50 PPB | 08/25/21 20:16 |
| 5 | 1M151954.D | CAL @ 100 PPB | 08/25/21 21:50 | 6 | 1M151952.D | CAL @ 250 PPB | 08/25/21 21:12 |
| 7 | 1M151950.D | CAL @500 PPB | 08/25/21 20:35 | 8 | 1M151945.D | CAL @ 1 PPB | 08/25/21 19:01 |
| 9 | 1M151944.D | CAL @ 0.5 PPB | 08/25/21 18:42 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | Qua | 0.3592 | 0.3020 | 0.3226 | 0.3443 | 0.3874 | 0.3732 | 0.3790 | 0.0600 | ---- | 0.316 | 2.09 | 1.00 | 1.00 | 34 | 0.10 a | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Dichlorodifluorometha | 1 | 0 | Qua | 0.1845 | 0.1464 | 0.1617 | 0.1908 | 0.2083 | 0.1901 | 0.2622 | 0.0720 | ---- | 0.177 | 2.07 | 0.983 | 0.998 | 31 | 0.10 a | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Chloromethane | 1 | 0 | Avg | 0.2817 | 0.2762 | 0.2906 | 0.2618 | 0.2824 | 0.2594 | 0.3027 | 0.1934 | ---- | 0.269 | 2.25 | 0.995 | 0.999 | 12 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Bromomethane | 1 | 0 | Avg | 0.1352 | 0.1416 | 0.1505 | 0.1380 | 0.1512 | 0.1513 | 0.1850 | 0.1007 | ---- | 0.144 | 2.61 | 0.992 | 1.00 | 16 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Vinyl Chloride | 1 | 0 | Avg | 0.2459 | 0.2627 | 0.2757 | 0.2493 | 0.2794 | 0.2575 | 0.2925 | 0.2115 | ---- | 0.259 | 2.33 | 0.997 | 0.999 | 9.6 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Chloroethane | 1 | 0 | Avg | 0.1585 | 0.1768 | 0.1959 | 0.1589 | 0.1744 | 0.1631 | 0.1798 | 0.1644 | ---- | 0.172 | 2.69 | 0.998 | 1.00 | 7.5 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Trichlorofluoromethan | 1 | 0 | Avg | 0.3249 | 0.3885 | 0.4213 | 0.3495 | 0.3869 | 0.3801 | 0.4101 | 0.3889 | ---- | 0.381 | 2.89 | 0.999 | 1.00 | 8.2 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Ethyl ether | 1 | 0 | Avg | 0.1532 | 0.1843 | 0.1962 | 0.1557 | 0.1730 | 0.1683 | 0.1965 | 0.1513 | ---- | 0.172 | 3.11 | 0.995 | 1.00 | 11 | 0.50 a | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Furan | 1 | 0 | Avg | 0.2985 | 0.3187 | 0.3404 | 0.2732 | 0.3009 | 0.2839 | 0.3546 | 0.4095 | ---- | 0.323 | 3.15 | 0.991 | 0.999 | 14 | 0.50 a | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,1,2-Trichloro-1,2,2-tr | 1 | 0 | Avg | 0.1447 | 0.1952 | 0.2108 | 0.1643 | 0.1874 | 0.1828 | 0.1820 | 0.1399 | ---- | 0.176 | 3.31 | 1.00 | 1.00 | 14 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Methylene Chloride | 1 | 0 | Avg | 0.2227 | 0.2546 | 0.2684 | 0.2144 | 0.2384 | 0.2298 | 0.2386 | 0.2915 | ---- | 0.245 | 3.68 | 1.00 | 1.00 | 10 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Acrolein | 1 | 0 | Avg | 0.0275 | 0.0370 | 0.0360 | 0.0283 | 0.0302 | 0.0311 | 0.0374 | 0.0327 | ---- | 0.0326 | 3.22 | 0.993 | 1.00 | 12 | | 100.0 | 25.00 | 50.00 | 250.0 | 500.0 | 1250. | 2500. | 5.00 | |
| Acrylonitrile | 1 | 0 | Qua | 0.0838 | 0.0989 | 0.1139 | 0.0443 | 0.0912 | 0.0912 | 0.0916 | 0.0575 | ---- | 0.0841 | 3.86 | 0.997 | 0.997 | 27 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Iodomethane | 1 | 0 | Qua | 0.1948 | 0.1766 | 0.1987 | 0.2202 | 0.2655 | 0.2617 | 0.2661 | 0.1227 | ---- | 0.213 | 3.44 | 1.00 | 1.00 | 24 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Acetone | 1 | 0 | Qua | 0.0565 | 0.0805 | 0.0716 | 0.0562 | 0.0573 | 0.0573 | 0.0571 | 0.1360 | ---- | 0.0716 | 3.33 | 1.00 | 1.00 | 38 | 0.10 a | 100.0 | 25.00 | 50.00 | 250.0 | 500.0 | 1250. | 2500. | 5.00 | |
| Carbon Disulfide | 1 | 0 | Avg | 0.4674 | 0.5496 | 0.5852 | 0.4840 | 0.5420 | 0.5217 | 0.5364 | 0.4860 | ---- | 0.522 | 3.51 | 1.00 | 1.00 | 7.6 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| t-Butyl Alcohol | 1 | 0 | Avg | 0.0216 | 0.0257 | 0.0291 | 0.0225 | 0.0214 | 0.0235 | 0.0230 | 0.0242 | ---- | 0.0239 | 3.73 | 1.00 | 1.00 | 11 | | 100.0 | 25.00 | 50.00 | 250.0 | 500.0 | 1250. | 2500. | 5.00 | |
| n-Hexane | 1 | 0 | Avg | 0.1602 | 0.2252 | 0.2689 | 0.1946 | 0.2281 | 0.2185 | 0.2210 | 0.2097 | ---- | 0.216 | 4.12 | 1.00 | 1.00 | 14 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Di-isopropyl-ether | 1 | 0 | Avg | 0.6248 | 0.7148 | 0.7772 | 0.6399 | 0.7171 | 0.6888 | 0.7101 | 0.6851 | ---- | 0.695 | 4.26 | 1.00 | 1.00 | 6.9 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,1-Dichloroethene | 1 | 0 | Avg | 0.3532 | 0.4406 | 0.4447 | 0.3632 | 0.4028 | 0.3864 | 0.4206 | 0.4267 | ---- | 0.405 | 3.31 | 0.998 | 1.00 | 8.5 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Methyl Acetate | 1 | 0 | Avg | 0.1560 | 0.2049 | 0.2231 | 0.1677 | 0.1713 | 0.1718 | 0.1513 | 0.2355 | ---- | 0.185 | 3.58 | 0.996 | 1.00 | 17 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Methyl-t-butyl ether | 1 | 0 | Qua | 0.5492 | 0.6339 | 0.6690 | 0.5604 | 0.6087 | 0.5957 | 0.6002 | 0.6896 | 1.0363 | 0.660 | 3.90 | 1.00 | 1.00 | 22 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | 0.50 |
| 1,1-Dichloroethane | 1 | 0 | Avg | 0.4367 | 0.5044 | 0.5211 | 0.4243 | 0.4694 | 0.4487 | 0.4820 | 0.4690 | ---- | 0.470 | 4.22 | 0.999 | 1.00 | 7.0 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| trans-1,2-Dichloroethe | 1 | 0 | Avg | 0.2267 | 0.2702 | 0.2802 | 0.2281 | 0.2439 | 0.2369 | 0.2529 | 0.2511 | ---- | 0.249 | 3.91 | 0.999 | 1.00 | 7.7 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Ethyl-t-butyl ether | 1 | 0 | Avg | 0.6651 | 0.7517 | 0.8312 | 0.6881 | 0.7527 | 0.7393 | 0.7486 | 0.6570 | ---- | 0.729 | 4.51 | 1.00 | 1.00 | 7.9 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| cis-1,2-Dichloroethene | 1 | 0 | Avg | 0.4287 | 0.5070 | 0.5377 | 0.4188 | 0.4624 | 0.4587 | 0.4775 | 0.5737 | ---- | 0.483 | 4.61 | 1.00 | 1.00 | 11 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Bromochloromethane | 1 | 0 | Avg | 0.2019 | 0.2936 | 0.2507 | 0.2123 | 0.2347 | 0.2486 | 0.2184 | 0.2754 | ---- | 0.242 | 4.77 | 0.996 | 0.999 | 13 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 2,2-Dichloropropane | 1 | 0 | Avg | 0.3506 | 0.4288 | 0.4382 | 0.3532 | 0.3789 | 0.3742 | 0.4047 | 0.4192 | ---- | 0.394 | 4.62 | 0.999 | 1.00 | 8.6 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Ethyl acetate | 1 | 0 | Avg | 0.2184 | 0.2585 | 0.2676 | 0.2045 | 0.2077 | 0.2286 | 0.2212 | 0.2933 | ---- | 0.238 | 4.64 | 0.999 | 0.999 | 13 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,4-Dioxane | 1 | 0 | Avg | 0.0023 | 0.0029 | 0.0032 | 0.0025 | 0.0020 | 0.0027 | 0.0029 | 0.0024 | ---- | 0.00266 | 5.70 | 0.996 | 0.998 | 15 | | 1000. | 250.0 | 500.0 | 2500. | 5000. | 12500 | 25000 | 50.00 | |
| 1,1-Dichloropropene | 1 | 0 | Avg | 0.2862 | 0.3478 | 0.3758 | 0.3040 | 0.3365 | 0.3283 | 0.3496 | 0.3368 | ---- | 0.333 | 5.03 | 0.999 | 1.00 | 8.3 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Chloroform | 1 | 0 | Avg | 0.4115 | 0.4863 | 0.5158 | 0.4110 | 0.4526 | 0.4315 | 0.4546 | 0.4967 | ---- | 0.458 | 4.80 | 0.999 | 1.00 | 8.6 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Dibromofluoromethan | 1 | 0 | Avg | 0.2609 | 0.2611 | 0.2620 | 0.2607 | 0.2631 | 0.2613 | 0.2636 | 0.2652 | 0.2620 | 0.262 | 4.90 | -1 | -1 | 0.57 | | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| Cyclohexane | 1 | 0 | Avg | 0.2472 | 0.3414 | 0.3650 | 0.2859 | 0.3352 | 0.3315 | 0.3274 | 0.3506 | ---- | 0.323 | 4.98 | 1.00 | 1.00 | 12 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2-Dichloroethane-d4 | 1 | 0 | Avg | 0.1393 | 0.1422 | 0.1422 | 0.1461 | 0.1453 | 0.1398 | 0.1476 | 0.1445 | 0.1356 | 0.143 | 5.11 | -1 | -1 | 2.7 | | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| 1,2-Dichloroethane | 1 | 0 | Avg | 0.3399 | 0.3929 | 0.4310 | 0.3458 | 0.3824 | 0.3696 | 0.3924 | 0.4235 | 0.5855 | 0.407 | 5.15 | 0.999 | 1.00 | 18 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | 0.50 |
| 2-Butanone | 1 | 0 | Qua | 0.1623 | 0.2240 | 0.2134 | 0.1594 | 0.1271 | 0.1312 | 0.1315 | 0.1984 | ---- | 0.168 | 4.63 | 0.999 | 1.00 | 23 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,1,1-Trichloroethane | 1 | 0 | Avg | 0.3695 | 0.4487 | 0.4555 | 0.3824 | 0.4244 | 0.4090 | 0.4352 | 0.4554 | ---- | 0.423 | 4.94 | 0.999 | 1.00 | 7.8 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Carbon Tetrachloride | 1 | 0 | Avg | 0.3131 | 0.3590 | 0.4015 | 0.3264 | 0.3691 | 0.3627 | 0.3810 | 0.3007 | ---- | 0.352 | 5.04 | 0.999 | 1.00 | 9.9 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Vinyl Acetate | 1 | 0 | Avg | 0.5822 | 0.6929 | 0.7567 | 0.6079 | 0.6860 | 0.6908 | 0.7871 | 0.6969 | ---- | 0.688 | 4.25 | 0.996 | 1.00 | 9.9 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Bromodichloromethan | 1 | 0 | Avg | 0.3107 | 0.3507 | 0.3828 | 0.3190 | 0.3530 | 0.3497 | 0.3681 | 0.3334 | ---- | 0.346 | 5.77 | 0.999 | 1.00 | 7.0 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |

***Flags***

***a - failed the min rf criteria***

***c - failed the minimum correlation coeff criteria(if applicable)***

***Note:***

Avg Rsd: 10.62

***Corr 1 = Correlation Coefficient for linear Eq.***

***Corr 2 = Correlation Coefficient for quad Eq.***

***Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.***

1091738 0642

Method: EPA 8260D

# Form 6
## Initial Calibration

Instrument: GCMS_1

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 1M151948.D | CAL @ 20 PPB | 08/25/21 19:57 | 2 | 1M151946.D | CAL @ 5 PPB | 08/25/21 19:20 |
| 3 | 1M151947.D | CAL @ 10 PPB | 08/25/21 19:38 | 4 | 1M151949.D | CAL @ 50 PPB | 08/25/21 20:16 |
| 5 | 1M151954.D | CAL @ 100 PPB | 08/25/21 21:50 | 6 | 1M151952.D | CAL @ 250 PPB | 08/25/21 21:12 |
| 7 | 1M151950.D | CAL @500 PPB | 08/25/21 20:35 | 8 | 1M151945.D | CAL @ 1 PPB | 08/25/21 19:01 |
| 9 | 1M151944.D | CAL @ 0.5 PPB | 08/25/21 18:42 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Methylcyclohexane | 1 | 0 | Avg | 0.1941 | 0.2792 | 0.3204 | 0.2441 | 0.2873 | 0.2785 | 0.2782 | 0.2498 | ---- | 0.266 | 5.62 | 1.00 | 1.00 | 14 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Dibromomethane | 1 | 0 | Avg | 0.1500 | 0.1833 | 0.1947 | 0.1608 | 0.1711 | 0.1687 | 0.1773 | 0.1603 | ---- | 0.171 | 5.69 | 0.999 | 1.00 | 8.3 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2-Dichloropropane | 1 | 0 | Avg | 0.2370 | 0.2586 | 0.2877 | 0.2401 | 0.2633 | 0.2578 | 0.2739 | 0.2738 | ---- | 0.262 | 5.63 | 0.999 | 1.00 | 6.6 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Trichloroethene | 1 | 0 | Avg | 0.2485 | 0.2858 | 0.3105 | 0.2524 | 0.2708 | 0.2646 | 0.2817 | 0.2815 | ---- | 0.275 | 5.51 | 0.999 | 1.00 | 7.3 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Benzene | 1 | 0 | Avg | 0.8557 | 0.9820 | 1.0442 | 0.8729 | 0.9405 | 0.9176 | 0.9902 | 0.8933 | 1.2033 | 0.967 | 5.15 | 0.999 | 1.00 | 11 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | 0.50 |
| tert-Amyl methyl ether | 1 | 0 | Avg | 0.5625 | 0.6574 | 0.6889 | 0.5733 | 0.6266 | 0.6222 | 0.6297 | 0.6122 | ---- | 0.622 | 5.20 | 1.00 | 1.00 | 6.6 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Iso-propylacetate | 1 | 0 | Avg | 0.4945 | 0.5567 | 0.6095 | 0.5090 | 0.5517 | 0.5474 | 0.5199 | 0.5129 | ---- | 0.538 | 5.15 | 0.999 | 1.00 | 6.8 | 0.50 a | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Methyl methacrylate | 1 | 0 | Avg | 0.1945 | 0.2450 | 0.2693 | 0.2066 | 0.2353 | 0.2126 | 0.2214 | 0.2342 | ---- | 0.227 | 5.66 | 0.999 | 0.999 | 10 | 0.50 a | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Dibromochloromethan | 1 | 0 | Avg | 0.2913 | 0.3390 | 0.3689 | 0.3157 | 0.3544 | 0.3577 | 0.3629 | 0.3038 | ---- | 0.337 | 6.63 | 1.00 | 1.00 | 8.7 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 2-Chloroethylvinylethe | 1 | 0 | Avg | 0.1757 | 0.1991 | 0.2090 | 0.1887 | 0.2123 | 0.2113 | ---- | 0.1429 | ---- | 0.191 | 5.91 | 0.999 | 0.999 | 13 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | | 1.00 | |
| cis-1,3-Dichloropropen | 1 | 0 | Avg | 0.4360 | 0.4922 | 0.5283 | 0.4424 | 0.4921 | 0.4865 | 0.4858 | 0.3943 | ---- | 0.470 | 6.01 | 1.00 | 1.00 | 9.0 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| trans-1,3-Dichloroprop | 1 | 0 | Avg | 0.4034 | 0.4474 | 0.4754 | 0.4245 | 0.4765 | 0.4638 | 0.4674 | 0.3757 | ---- | 0.442 | 6.30 | 1.00 | 1.00 | 8.4 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Ethyl methacrylate | 1 | 0 | Avg | 0.2301 | 0.2424 | 0.2806 | 0.2375 | 0.2718 | 0.2677 | 0.2571 | 0.2525 | ---- | 0.255 | 6.32 | 0.999 | 1.00 | 6.9 | 0.50 a | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,1,2-Trichloroethane | 1 | 0 | Avg | 0.2579 | 0.3068 | 0.3181 | 0.2597 | 0.2864 | 0.2819 | 0.2818 | 0.2821 | ---- | 0.284 | 6.41 | 1.00 | 1.00 | 7.2 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2-Dibromoethane | 1 | 0 | Avg | 0.2694 | 0.3028 | 0.3400 | 0.2766 | 0.3041 | 0.2990 | 0.3016 | 0.2455 | ---- | 0.292 | 6.71 | 1.00 | 1.00 | 9.7 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,3-Dichloropropane | 1 | 0 | Avg | 0.4250 | 0.4984 | 0.5373 | 0.4472 | 0.4918 | 0.4858 | 0.4866 | 0.4836 | ---- | 0.482 | 6.50 | 1.00 | 1.00 | 7.0 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 4-Methyl-2-Pentanone | 1 | 0 | Avg | 0.2397 | 0.2689 | 0.3111 | 0.2501 | 0.2698 | 0.2652 | 0.2469 | 0.2528 | ---- | 0.263 | 6.07 | 0.999 | 1.00 | 8.5 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 2-Hexanone | 1 | 0 | Avg | 0.1671 | 0.1690 | 0.2106 | 0.1718 | 0.1882 | 0.1854 | 0.1794 | 0.1733 | ---- | 0.181 | 6.52 | 1.00 | 1.00 | 7.9 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Tetrachloroethene | 1 | 0 | Avg | 0.2431 | 0.3079 | 0.3059 | 0.2505 | 0.2889 | 0.2801 | 0.2838 | 0.2786 | ---- | 0.280 | 6.51 | 1.00 | 1.00 | 8.3 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Toluene-d8 | 1 | 0 | Avg | 1.2914 | 1.2789 | 1.2687 | 1.2722 | 1.3131 | 1.2666 | 1.2127 | 1.2992 | 1.2884 | 1.28 | 6.16 | -1 | -1 | 2.2 | | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| Toluene | 1 | 0 | Avg | 0.7344 | 0.8332 | 0.9048 | 0.7432 | 0.8254 | 0.8017 | 0.8174 | 0.8199 | ---- | 0.810 | 6.20 | 1.00 | 1.00 | 6.6 | 0.40 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,1,1,2-Tetrachloroeth | 1 | 0 | Avg | 0.2830 | 0.3100 | 0.3449 | 0.2922 | 0.3221 | 0.3206 | 0.3383 | 0.2774 | ---- | 0.311 | 7.00 | 0.999 | 1.00 | 8.0 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Chlorobenzene | 1 | 0 | Avg | 0.8340 | 0.9498 | 0.9989 | 0.8276 | 0.9173 | 0.8977 | 0.9293 | 0.8167 | ---- | 0.896 | 6.97 | 1.00 | 1.00 | 7.3 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| n-Butyl acrylate | 1 | 0 | Avg | 1.0034 | 1.1199 | 1.2631 | 1.0120 | 1.1632 | 1.0539 | 1.0456 | 1.1069 | ---- | 1.10 | 7.22 | 0.999 | 1.00 | 7.9 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| n-Amyl acetate | 1 | 0 | Avg | 0.7880 | 0.9071 | 0.9876 | 0.7894 | 0.9069 | 0.8251 | 0.8075 | 0.8761 | ---- | 0.861 | 7.34 | 0.999 | 1.00 | 8.2 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Bromoform | 1 | 0 | Avg | 0.3847 | 0.4099 | 0.4831 | 0.3959 | 0.4527 | 0.4237 | 0.4180 | 0.3420 | ---- | 0.414 | 7.42 | 1.00 | 1.00 | 10 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Ethylbenzene | 1 | 0 | Avg | 0.7022 | 0.8620 | 0.8017 | 0.6831 | 0.7976 | 0.6837 | 0.6566 | 0.7385 | ---- | 0.741 | 7.01 | 0.998 | 0.999 | 9.8 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,1,2,2-Tetrachloroeth | 1 | 0 | Avg | 0.5988 | 0.7384 | 0.7781 | 0.5874 | 0.6414 | 0.6023 | 0.5967 | 0.6149 | ---- | 0.645 | 7.64 | 1.00 | 1.00 | 11 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Bromofluorobenzene | 1 | 0 | Avg | 0.7944 | 0.8088 | 0.7999 | 0.7761 | 0.7760 | 0.7203 | 0.7277 | 0.8174 | 0.7796 | 0.778 | 7.59 | -1 | -1 | 4.3 | | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| Styrene | 1 | 0 | Avg | 1.6655 | 1.9432 | 2.0254 | 1.6543 | 1.8613 | 1.6495 | 1.6902 | 1.7437 | ---- | 1.78 | 7.30 | 0.999 | 0.999 | 8.2 | 0.30 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| m&p-Xylenes | 1 | 0 | Avg | 0.9758 | 1.1176 | 1.2357 | 0.9557 | 1.0815 | 0.9467 | 0.9317 | 0.9951 | 1.2732 | 1.06 | 7.07 | 0.999 | 0.999 | 12 | 0.10 | 40.00 | 10.00 | 20.00 | 100.0 | 200.0 | 500.0 | 1000. | 2.00 | 1.00 |
| o-Xylene | 1 | 0 | Avg | 0.9661 | 1.1116 | 1.2511 | 0.9426 | 1.0663 | 0.9324 | 0.9419 | 0.9822 | ---- | 1.02 | 7.30 | 0.999 | 0.999 | 11 | 0.30 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| trans-1,4-Dichloro-2-b | 1 | 0 | Avg | 0.2278 | 0.2665 | 0.3107 | 0.2607 | 0.3027 | 0.2843 | 0.2740 | 0.2336 | ---- | 0.270 | 7.67 | 0.999 | 1.00 | 11 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,3-Dichlorobenzene | 1 | 0 | Avg | 1.1742 | 1.3979 | 1.4348 | 1.1383 | 1.2468 | 1.2034 | 1.2253 | 1.1732 | ---- | 1.25 | 8.21 | 1.00 | 1.00 | 8.7 | 0.60 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,4-Dichlorobenzene | 1 | 0 | Avg | 1.1900 | 1.4076 | 1.4718 | 1.1696 | 1.2948 | 1.2445 | 1.2463 | 1.3001 | ---- | 1.29 | 8.26 | 1.00 | 1.00 | 8.0 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2-Dichlorobenzene | 1 | 0 | Avg | 1.0928 | 1.2361 | 1.3679 | 1.0786 | 1.2108 | 1.1790 | 1.1585 | 1.2254 | ---- | 1.19 | 8.49 | 1.00 | 1.00 | 7.6 | 0.40 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Isopropylbenzene | 1 | 0 | Avg | 2.3274 | 2.7092 | 2.9438 | 2.3313 | 2.6510 | 2.3456 | 2.3744 | 2.3492 | ---- | 2.50 | 7.49 | 0.999 | 0.999 | 9.4 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Cyclohexanone | 1 | 0 | Avg | 0.0244 | 0.0302 | 0.0297 | 0.0225 | 0.0213 | 0.0207 | 0.0195 | 0.0331 | ---- | 0.0252 | 7.57 | 0.999 | 1.00 | 20 | | 100.0 | 25.00 | 50.00 | 250.0 | 500.0 | 1250. | 2500. | 5.00 | |
| Camphene | 1 | 0 | Avg | 0.4418 | 0.6121 | 0.6983 | 0.5092 | 0.6233 | 0.5311 | 0.5259 | 0.5745 | ---- | 0.565 | 7.67 | 0.999 | 0.999 | 14 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2,3-Trichloropropane | 1 | 0 | Avg | 0.7869 | 0.8804 | 0.9572 | 0.7890 | 0.8466 | 0.8013 | 0.8120 | 0.7750 | ---- | 0.831 | 7.68 | 1.00 | 1.00 | 7.4 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 2-Chlorotoluene | 1 | 0 | Avg | 1.5121 | 1.7915 | 1.9336 | 1.4817 | 1.6747 | 1.5144 | 1.5714 | 1.6679 | ---- | 1.64 | 7.79 | 0.999 | 0.999 | 9.6 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |

| *Flags* | *Note:* Avg Rsd: 10.62 |
|---|---|
| *a - failed the min rf criteria* | *Corr 1 = Correlation Coefficient for linear Eq.* |
| *c - failed the minimum correlation coeff criteria(if applicable)* | *Corr 2 = Correlation Coefficient for quad Eq.* |
| | *Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.* |

1091738 0643

Method: EPA 8260D

# Form 6
## Initial Calibration

Instrument: GCMS_1

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 1M151948.D | CAL @ 20 PPB | 08/25/21 19:57 | 2 | 1M151946.D | CAL @ 5 PPB | 08/25/21 19:20 |
| 3 | 1M151947.D | CAL @ 10 PPB | 08/25/21 19:38 | 4 | 1M151949.D | CAL @ 50 PPB | 08/25/21 20:16 |
| 5 | 1M151954.D | CAL @ 100 PPB | 08/25/21 21:50 | 6 | 1M151952.D | CAL @ 250 PPB | 08/25/21 21:12 |
| 7 | 1M151950.D | CAL @500 PPB | 08/25/21 20:35 | 8 | 1M151945.D | CAL @ 1 PPB | 08/25/21 19:01 |
| 9 | 1M151944.D | CAL @ 0.5 PPB | 08/25/21 18:42 | | | | |

| Compound | Col | Mr | Fit | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| p-Ethyltoluene | 1 | 0 | Avg | 2.2420 | 2.6077 | 2.7892 | 2.1849 | 2.5129 | 2.3753 | 2.4089 | 2.7395 | ---- | 2.48 | 7.78 | 1.00 | 1.00 | 8.9 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 4-Chlorotoluene | 1 | 0 | Avg | 1.4557 | 1.8019 | 2.0110 | 1.4777 | 1.6760 | 1.5627 | 1.5776 | 1.6213 | ---- | 1.65 | 7.85 | 1.00 | 1.00 | 11 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| n-Propylbenzene | 1 | 0 | Avg | 2.7439 | 3.1867 | 3.4096 | 2.6588 | 3.0431 | 2.7198 | 2.7752 | 2.9276 | ---- | 2.93 | 7.72 | 0.999 | 0.999 | 9.0 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Bromobenzene | 1 | 0 | Avg | 1.4030 | 1.6101 | 1.7833 | 1.3133 | 1.4505 | 1.3104 | 1.3154 | 1.2928 | ---- | 1.43 | 7.69 | 1.00 | 1.00 | 12 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,3,5-Trimethylbenzen | 1 | 0 | Avg | 1.9227 | 2.2692 | 2.3941 | 1.8845 | 2.0805 | 1.8961 | 2.0292 | 1.8201 | ---- | 2.04 | 7.81 | 0.999 | 0.999 | 9.9 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Butyl methacrylate | 1 | 0 | Avg | 0.5977 | 0.7451 | 0.8568 | 0.6681 | 0.7836 | 0.7423 | 0.7581 | 0.7980 | ---- | 0.744 | 7.81 | 1.00 | 1.00 | 11 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| t-Butylbenzene | 1 | 0 | Avg | 1.7329 | 2.0458 | 2.2429 | 1.7139 | 1.9964 | 1.8702 | 1.9061 | 1.6292 | ---- | 1.89 | 8.01 | 1.00 | 1.00 | 11 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2,4-Trimethylbenzen | 1 | 0 | Avg | 1.9353 | 2.2513 | 2.4042 | 1.9054 | 2.1819 | 2.0625 | 2.0959 | 2.1071 | ---- | 2.12 | 8.03 | 1.00 | 1.00 | 7.7 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| sec-Butylbenzene | 1 | 0 | Avg | 2.0311 | 2.5450 | 2.6613 | 2.0495 | 2.4327 | 2.2744 | 2.2887 | 2.2823 | ---- | 2.32 | 8.13 | 1.00 | 1.00 | 9.5 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 4-Isopropyltoluene | 1 | 0 | Avg | 1.7314 | 2.0441 | 2.1887 | 1.7574 | 2.0642 | 1.9645 | 1.9790 | 1.8263 | ---- | 1.94 | 8.20 | 1.00 | 1.00 | 8.2 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| n-Butylbenzene | 1 | 0 | Avg | 1.8706 | 2.2399 | 2.4029 | 1.8822 | 2.2458 | 2.1214 | 2.0851 | 1.9263 | ---- | 2.10 | 8.44 | 1.00 | 1.00 | 9.3 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| p-Diethylbenzene | 1 | 0 | Avg | 1.0231 | 1.1463 | 1.2534 | 1.0224 | 1.2026 | 1.1645 | 1.1327 | 0.9906 | ---- | 1.12 | 8.42 | 1.00 | 1.00 | 8.5 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2,4,5-Tetramethylbe | 1 | 0 | Avg | 1.3807 | 1.5393 | 1.7036 | 1.4079 | 1.6895 | 1.5997 | 1.5238 | 1.4029 | ---- | 1.53 | 8.88 | 0.999 | 1.00 | 8.3 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2-Dibromo-3-Chloro | 1 | 0 | Avg | 0.1300 | 0.1318 | 0.1585 | 0.1337 | 0.1510 | 0.1531 | 0.1412 | 0.0718 | ---- | 0.134 | 8.94 | 0.998 | 1.00 | 20 | 0.05 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Camphor | 1 | 0 | Avg | 0.0563 | 0.0659 | 0.0705 | 0.0584 | 0.0612 | 0.0621 | 0.0587 | 0.0641 | 0.0714 | 0.0632 | 9.37 | 0.999 | 1.00 | 8.4 | | 200.0 | 50.00 | 100.0 | 500.0 | 1000. | 2500. | 5000. | 10.00 | 5.00 |
| Hexachlorobutadiene | 1 | 0 | Avg | 0.2364 | 0.3105 | 0.3225 | 0.2673 | 0.3377 | 0.2895 | 0.2687 | 0.2853 | ---- | 0.290 | 9.51 | 0.997 | 0.999 | 11 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2,4-Trichlorobenzen | 1 | 0 | Avg | 0.5966 | 0.6678 | 0.7276 | 0.6185 | 0.7200 | 0.6563 | 0.6090 | 0.6750 | ---- | 0.659 | 9.43 | 0.998 | 1.00 | 7.4 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2,3-Trichlorobenzen | 1 | 0 | Avg | 0.4824 | 0.5439 | 0.5782 | 0.5122 | 0.5883 | 0.5170 | 0.4622 | 0.5245 | ---- | 0.526 | 9.73 | 0.995 | 1.00 | 8.2 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Naphthalene | 1 | 0 | Avg | 1.4320 | 1.5162 | 1.7824 | 1.5440 | 1.7198 | 1.6042 | 1.4381 | 1.6140 | ---- | 1.58 | 9.59 | 0.996 | 1.00 | 7.9 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |

| *Flags* | *Note:* Avg Rsd: 10.62 |
|---|---|
| *a - failed the min rf criteria* | *Corr 1 = Correlation Coefficient for linear Eq.* |
| *c - failed the minimum correlation coeff criteria(if applicable)* | *Corr 2 = Correlation Coefficient for quad Eq.* |
| | *Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.* |

SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M151948.D Sam Mult : 1 Vial# : 5 Qt On : 08/26/21 15:43
Acq On : 08/25/21 19:57 Misc : A,5ML Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 138750 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 107276 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.254 | 152 | 57588 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 36201 | 27.91 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.03% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 19330 | 27.33 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 91.10% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 138546 | 33.16 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 110.53% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 45753 | 31.76 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 105.87% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.094 | 51 | 33234m | 16.3518 | ug/l | |
| 6) Dichlorodifluoromethane | 2.071 | 85 | 17070 | 12.8319 | ug/l | 98 |
| 7) Chloromethane | 2.242 | 50 | 26065m | 13.5269 | ug/l | |
| 8) Bromomethane | 2.612 | 94 | 12509 | 14.0555 | ug/l | 95 |
| 9) Vinyl Chloride | 2.332 | 62 | 22749 | 13.9322 | ug/l | 92 |
| 10) Chloroethane | 2.698 | 64 | 14669 | 14.4864 | ug/l | 89 |
| 11) Trichlorofluoromethane | 2.898 | 101 | 30056 | 13.9438 | ug/l | 96 |
| 12) Ethyl ether | 3.116 | 59 | 14171 | 12.0548 | ug/l | 82 |
| 13) Furan | 3.152 | 39 | 27611m | 11.1131 | ug/l | |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.300 | 101 | 13385m | 12.8873 | ug/l | |
| 15) Methylene Chloride | 3.673 | 84 | 20601 | 14.1789 | ug/l | 88 |
| 16) Acrolein | 3.216 | 56 | 12743 | 61.2060 | ug/l | 98 |
| 17) Acrylonitrile | 3.859 | 53 | 7759 | 11.6774 | ug/l | 91 |
| 18) Iodomethane | 3.441 | 142 | 18023 | 13.1221 | ug/l | 92 |
| 19) Acetone | 3.332 | 43 | 26149 | 56.9184 | ug/l | 87 |
| 20) Carbon Disulfide | 3.512 | 76 | 43243 | 12.5744 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.727 | 59 | 10012 | 65.7574 | ug/l | 90 |
| 22) n-Hexane | 4.110 | 57 | 14821 | 10.2576 | ug/l | 93 |
| 23) Di-isopropyl-ether | 4.258 | 45 | 57794 | 11.1388 | ug/l | 91 |
| 24) 1,1-Dichloroethene | 3.316 | 61 | 32675 | 12.9050 | ug/l | 91 |
| 25) Methyl Acetate | 3.586 | 43 | 14436 | 11.6533 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.898 | 73 | 50804 | 12.4356 | ug/l | 91 |
| 27) 1,1-Dichloroethane | 4.229 | 63 | 40396 | 14.0115 | ug/l | 88 |
| 28) trans-1,2-Dichloroethene | 3.911 | 96 | 20978 | 14.6270 | ug/l | 93 |
| 29) Ethyl-t-butyl ether | 4.509 | 59 | 61523 | 12.7872 | ug/l | 92 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 39662 | 13.0485 | ug/l | 86 |
| 31) Bromochloromethane | 4.772 | 49 | 18681 | 11.3974 | ug/l | 90 |
| 32) 2,2-Dichloropropane | 4.628 | 77 | 32435 | 13.8706 | ug/l | 97 |
| 33) Ethyl acetate | 4.640 | 43 | 20210m | 11.5708 | ug/l | |
| 34) 1,4-Dioxane | 5.695 | 88 | 11065 | 673.7075 | ug/l | 99 |
| 35) 1,1-Dichloropropene | 5.029 | 75 | 26477 | 13.5507 | ug/l | 90 |
| 36) Chloroform | 4.804 | 83 | 38068 | 14.3484 | ug/l | 100 |
| 38) Cyclohexane | 4.984 | 56 | 22873 | 10.7064 | ug/l | 84 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 31449 | 13.2316 | ug/l | 99 |
| 41) 2-Butanone | 4.637 | 43 | 15016m | 13.7781 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.939 | 97 | 34185 | 14.1294 | ug/l | 99 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 28965 | 15.6547 | ug/l | 97 |
| 44) Vinyl Acetate | 4.251 | 43 | 53860 | 10.6735 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 28747 | 13.9904 | ug/l | 92 |
| 46) Methylcyclohexane | 5.628 | 83 | 17963 | 11.5990 | ug/l | 86 |
| 47) Dibromomethane | 5.695 | 174 | 13876 | 15.7519 | ug/l | 91 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 21928 | 13.5641 | ug/l | 94 |
| 49) Trichloroethene | 5.505 | 130 | 22994 | 15.3629 | ug/l | 97 |
| 50) Benzene | 5.155 | 78 | 79158 | 13.9006 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 52034 | 14.0337 | ug/l | 96 |
| 53) Iso-propylacetate | 5.148 | 43 | 35369 | 14.4420 | ug/l | 97 |
| 54) Methyl methacrylate | 5.656 | 41 | 13915 | 13.2803 | ug/l | 84 |
| 55) Dibromochloromethane | 6.634 | 129 | 20837 | 16.9199 | ug/l | 93 |
| 56) 2-Chloroethylvinylether | 5.910 | 63 | 12571 | 15.9396 | ug/l | 95 |
| 57) cis-1,3-Dichloropropene | 6.010 | 75 | 31183 | 16.6903 | ug/l | 100 |
| 58) trans-1,3-Dichloropropene | 6.300 | 75 | 28850 | 16.2080 | ug/l | 96 |
| 59) Ethyl methacrylate | 6.325 | 41 | 16462 | 12.9393 | ug/l | 83 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 18444 | 18.4848 | ug/l | 94 |
| 61) 1,2-Dibromoethane | 6.714 | 107 | 19272 | 18.1676 | ug/l | 95 |
| 62) 1,3-Dichloropropane | 6.505 | 76 | 30397 | 16.7705 | ug/l | 99 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 17149 | 13.6007 | ug/l | 98 |
| 64) 2-Hexanone | 6.521 | 43 | 11957 | 12.8765 | ug/l | 93 |
| 65) Tetrachloroethene | 6.509 | 164 | 17390 | 19.3947 | ug/l | 98 |
| 67) Toluene | 6.203 | 92 | 52523 | 18.5671 | ug/l | 86 |

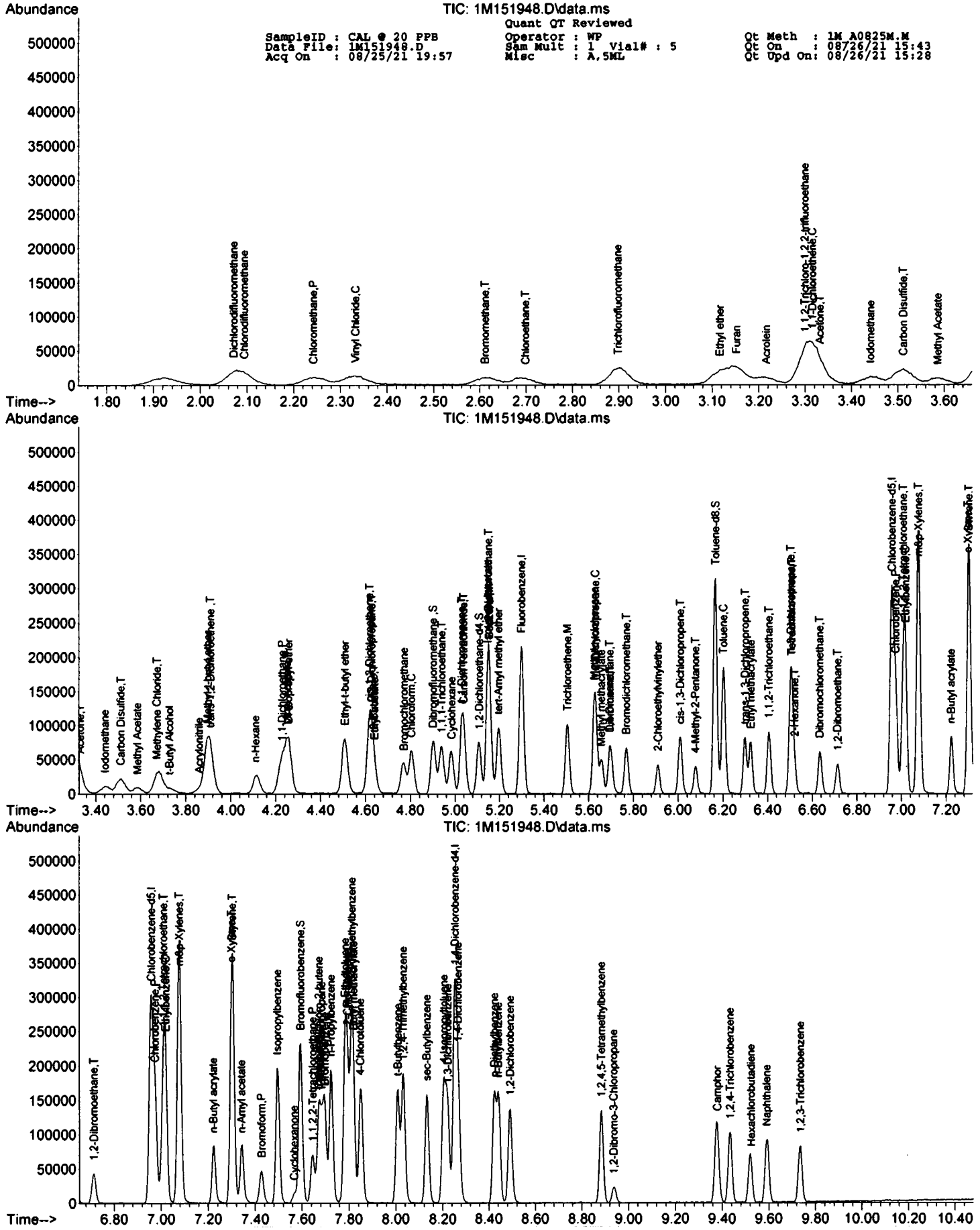
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151948.D  Sam Mult : 1  Vial# : 5  Qt On : 08/26/21 15:43
Acq On : 08/25/21 19:57  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.010 | 133 | 20241 | 18.9879 | ug/l | 100 |
| 69) | Chlorobenzene | 6.975 | 112 | 59652 | 19.0076 | ug/l | 95 |
| 71) | n-Butyl acrylate | 7.222 | 55 | 38523 | 14.4882 | ug/l | 89 |
| 72) | n-Amyl acetate | 7.341 | 43 | 30256 | 13.0970 | ug/l | 90 |
| 73) | Bromoform | 7.428 | 173 | 14773 | 18.1620 | ug/l | 93 |
| 74) | Ethylbenzene | 7.020 | 106 | 26960 | 18.8882 | ug/l | 94 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.647 | 83 | 22992 | 17.1973 | ug/l | 98 |
| 77) | Styrene | 7.303 | 104 | 63945 | 19.5040 | ug/l | 99 |
| 78) | m&p-Xylenes | 7.078 | 106 | 74931 | 38.6602 | ug/l | 97 |
| 79) | o-Xylene | 7.299 | 106 | 37093 | 20.2082 | ug/l | 86 |
| 80) | trans-1,4-Dichloro-2-b... | 7.672 | 53 | 8747 | 12.5264 | ug/l | 98 |
| 81) | 1,3-Dichlorobenzene | 8.222 | 146 | 45081 | 20.8687 | ug/l | 94 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 45688 | 20.1433 | ug/l | 96 |
| 83) | 1,2-Dichlorobenzene | 8.492 | 146 | 41957 | 19.7205 | ug/l | 97 |
| 84) | Isopropylbenzene | 7.496 | 105 | 89355 | 19.2205 | ug/l | 99 |
| 85) | Cyclohexanone | 7.566 | 55 | 4693 | 79.0690 | ug/l | 97 |
| 86) | Camphene | 7.672 | 93 | 16964 | 15.7966 | ug/l | 91 |
| 87) | 1,2,3-Trichloropropane | 7.685 | 75 | 30213 | 17.2899 | ug/l | 99 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 58055 | 18.8568 | ug/l | 97 |
| 89) | p-Ethyltoluene | 7.785 | 105 | 86078 | 18.6403 | ug/l | 96 |
| 90) | 4-Chlorotoluene | 7.849 | 91 | 55889 | 17.4875 | ug/l | 95 |
| 91) | n-Propylbenzene | 7.724 | 91 | 105346 | 18.9815 | ug/l | 98 |
| 92) | Bromobenzene | 7.698 | 77 | 53867 | 18.1939 | ug/l | 83 |
| 93) | 1,3,5-Trimethylbenzene | 7.814 | 105 | 73817 | 20.0423 | ug/l | 97 |
| 94) | Butyl methacrylate | 7.820 | 41 | 22947 | 10.9920 | ug/l | 83 |
| 95) | t-Butylbenzene | 8.010 | 119 | 66533 | 19.0879 | ug/l | 96 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 74303 | 18.9060 | ug/l | 99 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 77979 | 18.1220 | ug/l | 99 |
| 98) | 4-Isopropyltoluene | 8.206 | 119 | 66474 | 18.4313 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.441 | 91 | 71817 | 17.0463 | ug/l | 96 |
| 100) | p-Diethylbenzene | 8.425 | 119 | 39280 | 18.5220 | ug/l | 93 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 53009 | 17.2093 | ug/l | 96 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.936 | 157 | 4991 | 16.8588 | ug/l | 81 |
| 103) | Camphor | 9.380 | 95 | 21632 | 156.0319 | ug/l | 99 |
| 104) | Hexachlorobutadiene | 9.524 | 225 | 9076 | 18.6083 | ug/l | 97 |
| 105) | 1,2,4-Trichlorobenzene | 9.434 | 180 | 22908 | 19.0820 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.737 | 180 | 18522 | 19.6708 | ug/l | 98 |
| 107) | Naphthalene | 9.592 | 128 | 54978 | 17.2130 | ug/l | 99 |

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


Abundance
TIC: 1M151948.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 1M151948.D
Acq On : 08/25/21 19:57
Operator : WP
Sam Mult : 1 Vial# : 5
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 08/26/21 15:43
Qt Upd On: 08/26/21 15:28
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151946.D  Sam Mult : 1  Vial# : 3  Qt On : 08/26/21 15:37
Acq On : 08/25/21 19:20  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 138135 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 106718 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 55540 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 36075 | 27.93 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.10% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 19654 | 27.91 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.03% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 136482 | 32.83 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 109.43% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 44925 | 32.33 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 107.77% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.091 | 51 | 6954m | 3.4367 | ug/l | |
| 6) Dichlorodifluoromethane | 2.075 | 85 | 3371m | 2.5453 | ug/l | |
| 7) Chloromethane | 2.252 | 50 | 6359m | 3.3148 | ug/l | |
| 8) Bromomethane | 2.625 | 94 | 3262m | 3.6816 | ug/l | |
| 9) Vinyl Chloride | 2.329 | 62 | 6049m | 3.7211 | ug/l | |
| 10) Chloroethane | 2.686 | 64 | 4072 | 4.0392 | ug/l | 83 |
| 11) Trichlorofluoromethane | 2.901 | 101 | 8945 | 4.1683 | ug/l | 87 |
| 12) Ethyl ether | 3.120 | 59 | 4245 | 3.6272 | ug/l | 73 |
| 13) Furan | 3.152 | 39 | 7339m | 2.9670 | ug/l | |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.300 | 101 | 4496m | 4.3481 | ug/l | |
| 15) Methylene Chloride | 3.676 | 84 | 5863m | 4.0532 | ug/l | |
| 16) Acrolein | 3.213 | 56 | 4264m | 20.5716 | ug/l | |
| 17) Acrylonitrile | 3.866 | 53 | 2277m | 3.4422 | ug/l | |
| 18) Iodomethane | 3.441 | 142 | 4067m | 2.9743 | ug/l | |
| 19) Acetone | 3.322 | 43 | 9267m | 20.2612 | ug/l | |
| 20) Carbon Disulfide | 3.509 | 76 | 12654 | 3.6960 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.731 | 59 | 2960m | 19.5274 | ug/l | |
| 22) n-Hexane | 4.110 | 57 | 5185 | 3.6045 | ug/l | 98 |
| 23) Di-isopropyl-ether | 4.258 | 45 | 16458 | 3.1861 | ug/l | 74 |
| 24) 1,1-Dichloroethene | 3.316 | 61 | 10144 | 4.0242 | ug/l | 88 |
| 25) Methyl Acetate | 3.586 | 43 | 4718m | 3.8255 | ug/l | |
| 26) Methyl-t-butyl ether | 3.901 | 73 | 14594m | 3.5882 | ug/l | |
| 27) 1,1-Dichloroethane | 4.229 | 63 | 11614 | 4.0463 | ug/l | 91 |
| 28) trans-1,2-Dichloroethene | 3.904 | 96 | 6221 | 4.3569 | ug/l | 97 |
| 29) Ethyl-t-butyl ether | 4.512 | 59 | 17306 | 3.6130 | ug/l | 88 |
| 30) cis-1,2-Dichloroethene | 4.621 | 61 | 11673 | 3.8574 | ug/l | 77 |
| 31) Bromochloromethane | 4.763 | 49 | 6760 | 4.1427 | ug/l | 71 |
| 32) 2,2-Dichloropropane | 4.628 | 77 | 9873 | 4.2409 | ug/l | 95 |
| 33) Ethyl acetate | 4.637 | 43 | 5952m | 3.4229 | ug/l | |
| 34) 1,4-Dioxane | 5.698 | 88 | 3393m | 207.5071 | ug/l | |
| 35) 1,1-Dichloropropene | 5.033 | 75 | 8009 | 4.1172 | ug/l | 93 |
| 36) Chloroform | 4.805 | 83 | 11196 | 4.2387 | ug/l | 95 |
| 38) Cyclohexane | 4.978 | 56 | 7860 | 3.6955 | ug/l | 91 |
| 40) 1,2-Dichloroethane | 5.155 | 62 | 9046 | 3.8229 | ug/l | 89 |
| 41) 2-Butanone | 4.637 | 43 | 5159m | 4.7548 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.943 | 97 | 10332 | 4.2895 | ug/l | 89 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 8267 | 4.4880 | ug/l | 96 |
| 44) Vinyl Acetate | 4.245 | 43 | 15954 | 3.1757 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 8074 | 3.9469 | ug/l | 98 |
| 46) Methylcyclohexane | 5.624 | 83 | 6430 | 4.1705 | ug/l | 87 |
| 47) Dibromomethane | 5.702 | 174 | 4221 | 4.8130 | ug/l | 79 |
| 48) 1,2-Dichloropropane | 5.628 | 63 | 5954 | 3.6994 | ug/l | 93 |
| 49) Trichloroethene | 5.505 | 130 | 6581 | 4.4165 | ug/l | 78 |
| 50) Benzene | 5.152 | 78 | 22609 | 3.9880 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.200 | 73 | 15135 | 4.1001 | ug/l | 96 |
| 53) Iso-propylacetate | 5.149 | 43 | 9902 | 4.0644 | ug/l | 96 |
| 54) Methyl methacrylate | 5.657 | 41 | 4359m | 4.1819 | ug/l | |
| 55) Dibromochloromethane | 6.637 | 129 | 6030 | 4.9220 | ug/l | 99 |
| 56) 2-Chloroethylvinylether | 5.911 | 63 | 3542 | 4.5146 | ug/l | 86 |
| 57) cis-1,3-Dichloropropene | 6.010 | 75 | 8755 | 4.7105 | ug/l | 99 |
| 58) trans-1,3-Dichloropropene | 6.300 | 75 | 7958 | 4.4942 | ug/l | 92 |
| 59) Ethyl methacrylate | 6.322 | 41 | 4312 | 3.4070 | ug/l | 86 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 5457 | 5.4977 | ug/l | 96 |
| 61) 1,2-Dibromoethane | 6.714 | 107 | 5386 | 5.1039 | ug/l | 98 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 8866 | 4.9171 | ug/l | 91 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 4784 | 3.8140 | ug/l | 91 |
| 64) 2-Hexanone | 6.522 | 43 | 3007 | 3.2552 | ug/l | 93 |
| 65) Tetrachloroethene | 6.505 | 164 | 5478 | 6.1414 | ug/l | 82 |
| 67) Toluene | 6.203 | 92 | 14820 | 5.2663 | ug/l | 95 |

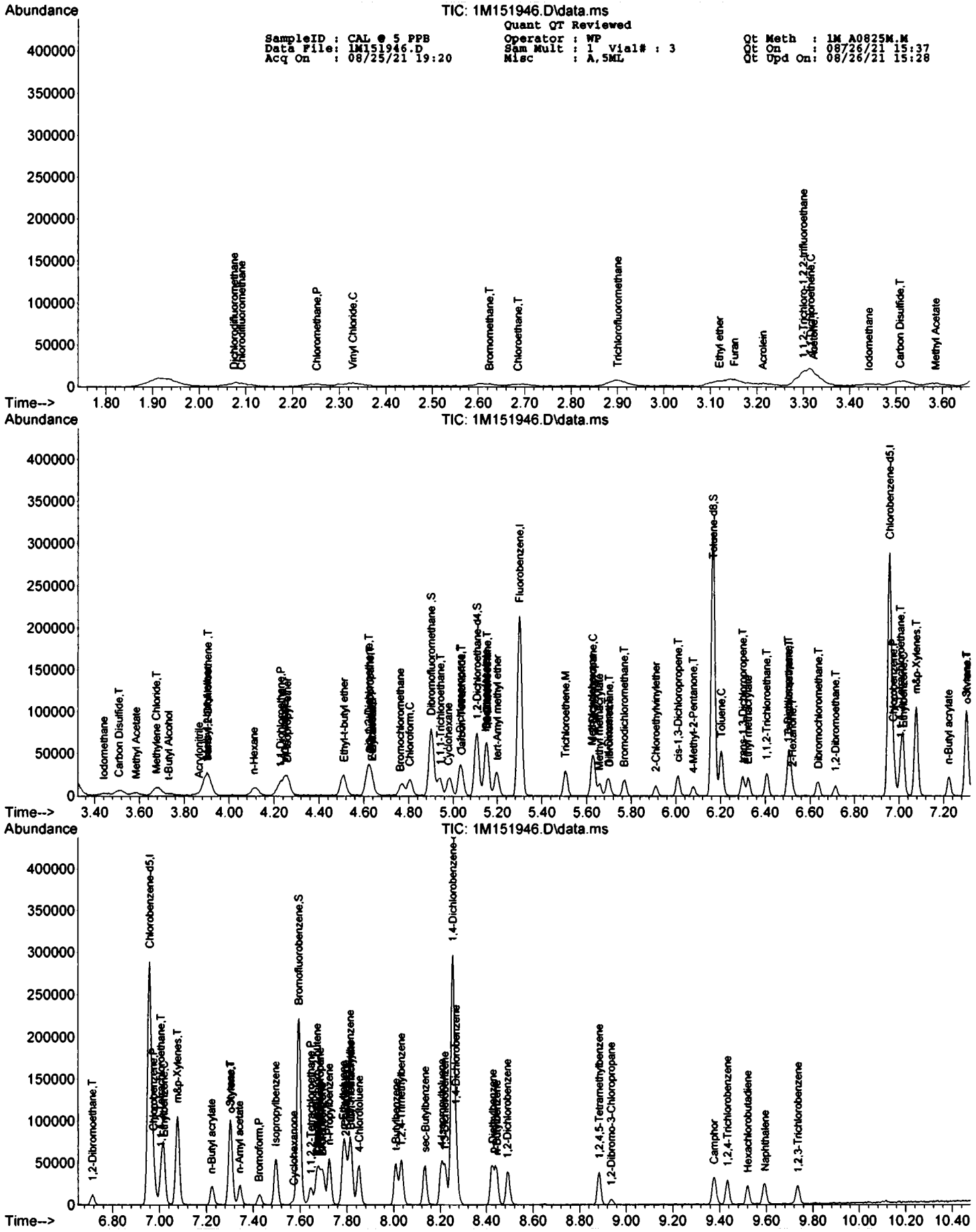
Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151946.D  Sam Mult : 1  Vial# : 3  Qt On : 08/26/21 15:37
Acq On : 08/25/21 19:20  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 5514 | 5.1997 | ug/l | 90 |
| 69) | Chlorobenzene | 6.975 | 112 | 16894 | 5.4113 | ug/l | 95 |
| 71) | n-Butyl acrylate | 7.222 | 55 | 10367 | 4.0427 | ug/l | 92 |
| 72) | n-Amyl acetate | 7.341 | 43 | 8397 | 3.7689 | ug/l | 90 |
| 73) | Bromoform | 7.425 | 173 | 3795 | 4.8376 | ug/l | 87 |
| 74) | Ethylbenzene | 7.020 | 106 | 7980 | 5.7970 | ug/l | 84 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.647 | 83 | 6836 | 5.3017 | ug/l | 85 |
| 77) | Styrene | 7.303 | 104 | 17988 | 5.6889 | ug/l | 99 |
| 78) | m&p-Xylenes | 7.078 | 106 | 20692 | 11.0696 | ug/l | 98 |
| 79) | o-Xylene | 7.306 | 106 | 10290 | 5.8127 | ug/l | 84 |
| 80) | trans-1,4-Dichloro-2-b... | 7.673 | 53 | 2467 | 3.6632 | ug/l | 86 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 12940 | 6.2110 | ug/l | 94 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 13030 | 5.9566 | ug/l | 98 |
| 83) | 1,2-Dichlorobenzene | 8.489 | 146 | 11443 | 5.5767 | ug/l | 96 |
| 84) | Isopropylbenzene | 7.496 | 105 | 25079 | 5.5935 | ug/l | 96 |
| 85) | Cyclohexanone | 7.573 | 55 | 1398m | 24.4224 | ug/l | |
| 86) | Camphene | 7.673 | 93 | 5666 | 5.4706 | ug/l | 99 |
| 87) | 1,2,3-Trichloropropane | 7.685 | 75 | 8150 | 4.8359 | ug/l | 96 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 16584 | 5.5853 | ug/l | 94 |
| 89) | p-Ethyltoluene | 7.785 | 105 | 24139 | 5.4201 | ug/l | 94 |
| 90) | 4-Chlorotoluene | 7.853 | 91 | 16680 | 5.4116 | ug/l | 98 |
| 91) | n-Propylbenzene | 7.724 | 91 | 29499 | 5.5112 | ug/l | 98 |
| 92) | Bromobenzene | 7.695 | 77 | 14905 | 5.2199 | ug/l | 83 |
| 93) | 1,3,5-Trimethylbenzene | 7.814 | 105 | 21006 | 5.9137 | ug/l | 97 |
| 94) | Butyl methacrylate | 7.817 | 41 | 6898 | 3.4261 | ug/l | 68 |
| 95) | t-Butylbenzene | 8.010 | 119 | 18938 | 5.6335 | ug/l | 95 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 20840 | 5.4982 | ug/l | 90 |
| 97) | sec-Butylbenzene | 8.136 | 105 | 23559 | 5.6769 | ug/l | 97 |
| 98) | 4-Isopropyltoluene | 8.206 | 119 | 18922 | 5.4400 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.444 | 91 | 20734 | 5.1028 | ug/l | 99 |
| 100) | p-Diethylbenzene | 8.428 | 119 | 10611 | 5.1880 | ug/l | 95 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 14249 | 4.7965 | ug/l | 98 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.936 | 157 | 1220 | 4.2729 | ug/l | 98 |
| 103) | Camphor | 9.377 | 95 | 6104 | 45.6517 | ug/l | 98 |
| 104) | Hexachlorobutadiene | 9.521 | 225 | 2875 | 6.1119 | ug/l | 97 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 6182 | 5.3394 | ug/l | 96 |
| 106) | 1,2,3-Trichlorobenzene | 9.737 | 180 | 5035 | 5.5445 | ug/l | 89 |
| 107) | Naphthalene | 9.595 | 128 | 14035 | 4.5562 | ug/l | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL @ 5 PPB
Data File: 1M151946.D
Acq On : 08/25/21 19:20
Operator : WP
Sam Mult : 1 Vial# : 3
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 08/26/21 15:37
Qt Upd On: 08/26/21 15:28
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
1,1,2-Trichloro-1,2,2-trifluoroethane
Acetone
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->


Abundance
TIC: 1M151946.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->


Abundance
TIC: 1M151946.D\data.ms
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
1,4-Dichlorobenzene-1
sec-Butylbenzene
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

SampleID : CAL @ 10 PPB Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M151947.D Sam Mult : 1 Vial# : 4 Qt On : 08/26/21 15:41
Acq On : 08/25/21 19:38 Misc : A,5ML Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 132477 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 103422 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 54909 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.898 | 111 | 34713 | 28.03 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.43% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 18846 | 27.91 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.03% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 131215 | 32.57 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.57% | | | |
| 76) Bromofluorobenzene | 7.596 | 174 | 43923 | 31.98 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.60% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.084 | 51 | 14246m | 7.3412 | ug/l | |
| 6) Dichlorodifluoromethane | 2.078 | 85 | 7142m | 5.6230 | ug/l | |
| 7) Chloromethane | 2.242 | 50 | 12834m | 6.9758 | ug/l | |
| 8) Bromomethane | 2.605 | 94 | 6648m | 7.8236 | ug/l | |
| 9) Vinyl Chloride | 2.329 | 62 | 12177 | 7.8107 | ug/l | 100 |
| 10) Chloroethane | 2.689 | 64 | 8652 | 8.9489 | ug/l | 82 |
| 11) Trichlorofluoromethane | 2.898 | 101 | 18608 | 9.0415 | ug/l | 95 |
| 12) Ethyl ether | 3.110 | 59 | 8667 | 7.7219 | ug/l | 81 |
| 13) Furan | 3.149 | 39 | 15035m | 6.3379 | ug/l | |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.303 | 101 | 9312m | 9.3903 | ug/l | |
| 15) Methylene Chloride | 3.682 | 84 | 11853m | 8.5443 | ug/l | |
| 16) Acrolein | 3.210 | 56 | 7949 | 39.9878 | ug/l | 99 |
| 17) Acrylonitrile | 3.856 | 53 | 5031m | 7.9302 | ug/l | |
| 18) Iodomethane | 3.451 | 142 | 8777m | 6.6929 | ug/l | |
| 19) Acetone | 3.329 | 43 | 15821 | 36.0681 | ug/l | 89 |
| 20) Carbon Disulfide | 3.509 | 76 | 25846 | 7.8715 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.734 | 59 | 6439 | 44.2930 | ug/l | 73 |
| 22) n-Hexane | 4.120 | 57 | 11878 | 8.6100 | ug/l | 92 |
| 23) Di-isopropyl-ether | 4.258 | 45 | 34321 | 6.9280 | ug/l | 82 |
| 24) 1,1-Dichloroethene | 3.309 | 61 | 19640 | 8.1241 | ug/l | 97 |
| 25) Methyl Acetate | 3.589 | 43 | 9856 | 8.3329 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.901 | 73 | 29543 | 7.5739 | ug/l | 87 |
| 27) 1,1-Dichloroethane | 4.219 | 63 | 23013 | 8.3601 | ug/l | 87 |
| 28) trans-1,2-Dichloroethene | 3.898 | 96 | 12377 | 9.0385 | ug/l | 89 |
| 29) Ethyl-t-butyl ether | 4.509 | 59 | 36709 | 7.9910 | ug/l | 90 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 23745 | 8.1818 | ug/l | 85 |
| 31) Bromochloromethane | 4.769 | 49 | 11073 | 7.0756 | ug/l | 93 |
| 32) 2,2-Dichloropropane | 4.628 | 77 | 19353 | 8.6680 | ug/l | 88 |
| 33) Ethyl acetate | 4.637 | 43 | 11821m | 7.0883 | ug/l | |
| 34) 1,4-Dioxane | 5.698 | 88 | 7185 | 458.1833 | ug/l | 94 |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 16597 | 8.8964 | ug/l | 96 |
| 36) Chloroform | 4.808 | 83 | 22779 | 8.9923 | ug/l | 98 |
| 38) Cyclohexane | 4.981 | 56 | 16121 | 7.9032 | ug/l | 84 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 19034 | 8.3874 | ug/l | 90 |
| 41) 2-Butanone | 4.637 | 43 | 9424m | 9.0566 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.936 | 97 | 20117 | 8.7085 | ug/l | 98 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 17731 | 10.0369 | ug/l | 94 |
| 44) Vinyl Acetate | 4.252 | 43 | 33419 | 6.9363 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 16907 | 8.6178 | ug/l | 97 |
| 46) Methylcyclohexane | 5.628 | 83 | 14149 | 9.5689 | ug/l | 95 |
| 47) Dibromomethane | 5.695 | 174 | 8599 | 10.2238 | ug/l | 94 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 12706 | 8.2318 | ug/l | 95 |
| 49) Trichloroethene | 5.506 | 130 | 13713 | 9.5959 | ug/l | 95 |
| 50) Benzene | 5.155 | 78 | 46112 | 8.4810 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.200 | 73 | 30421 | 8.5931 | ug/l | 95 |
| 53) Iso-propylacetate | 5.149 | 43 | 21013 | 8.8999 | ug/l | 97 |
| 54) Methyl methacrylate | 5.657 | 41 | 9284m | 9.1907 | ug/l | |
| 55) Dibromochloromethane | 6.634 | 129 | 12720 | 10.7137 | ug/l | 97 |
| 56) 2-Chloroethylvinylether | 5.907 | 63 | 7207 | 9.4788 | ug/l | 97 |
| 57) cis-1,3-Dichloropropene | 6.010 | 75 | 18213 | 10.1115 | ug/l | 89 |
| 58) trans-1,3-Dichloropropene | 6.297 | 75 | 16389 | 9.5505 | ug/l | 92 |
| 59) Ethyl methacrylate | 6.322 | 41 | 9674 | 7.8872 | ug/l | 81 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 10968 | 11.4019 | ug/l | 90 |
| 61) 1,2-Dibromoethane | 6.715 | 107 | 11721 | 11.4611 | ug/l | 87 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 18526 | 10.6019 | ug/l | 91 |
| 63) 4-Methyl-2-Pentanone | 6.075 | 43 | 10725 | 8.8229 | ug/l | 94 |
| 64) 2-Hexanone | 6.522 | 43 | 7262 | 8.1119 | ug/l | 97 |
| 65) Tetrachloroethene | 6.512 | 164 | 10548 | 12.2023 | ug/l | 94 |
| 67) Toluene | 6.203 | 92 | 31194 | 11.4381 | ug/l | 100 |

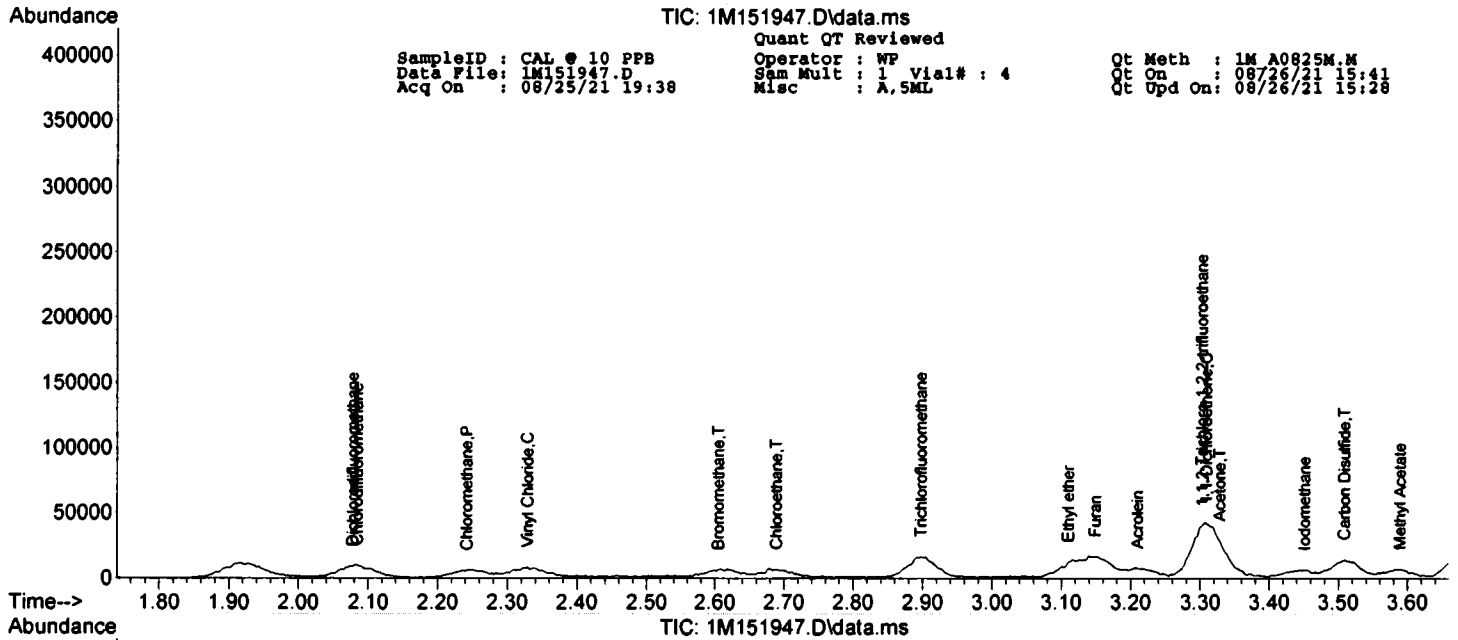
Quantitation Report (QT Reviewed)

SampleID : CAL @ 10 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151947.D  Sam Mult : 1 Vial# : 4  Qt On : 08/26/21 15:41
Acq On : 08/25/21 19:38  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.010 | 133 | 11890 | 11.5696 | ug/l | 99 |
| 69) | Chlorobenzene | 6.975 | 112 | 34437 | 11.3820 | ug/l | 98 |
| 71) | n-Butyl acrylate | 7.226 | 55 | 23120 | 9.1195 | ug/l | 89 |
| 72) | n-Amyl acetate | 7.345 | 43 | 18076 | 8.2064 | ug/l | 92 |
| 73) | Bromoform | 7.428 | 173 | 8843 | 11.4020 | ug/l | 96 |
| 74) | Ethylbenzene | 7.020 | 106 | 14674 | 10.7822 | ug/l | 100 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.647 | 83 | 14242 | 11.1723 | ug/l | 96 |
| 77) | Styrene | 7.303 | 104 | 37071 | 11.8588 | ug/l | 98 |
| 78) | m&p-Xylenes | 7.078 | 106 | 45235 | 24.4774 | ug/l | 99 |
| 79) | o-Xylene | 7.303 | 106 | 22899 | 13.0840 | ug/l | 96 |
| 80) | trans-1,4-Dichloro-2-b... | 7.673 | 53 | 5687 | 8.5416 | ug/l | 84 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 26262 | 12.7502 | ug/l | 96 |
| 82) | 1,4-Dichlorobenzene | 8.268 | 146 | 26940 | 12.4570 | ug/l | 97 |
| 83) | 1,2-Dichlorobenzene | 8.493 | 146 | 25037 | 12.3420 | ug/l | 97 |
| 84) | Isopropylbenzene | 7.499 | 105 | 53882 | 12.1556 | ug/l | 100 |
| 85) | Cyclohexanone | 7.570 | 55 | 2726 | 48.1693 | ug/l | 95 |
| 86) | Camphene | 7.673 | 93 | 12781 | 12.4821 | ug/l | 98 |
| 87) | 1,2,3-Trichloropropane | 7.689 | 75 | 17521 | 10.5159 | ug/l | 97 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 35392 | 12.0565 | ug/l | 96 |
| 89) | p-Ethyltoluene | 7.785 | 105 | 51051 | 11.5945 | ug/l | 98 |
| 90) | 4-Chlorotoluene | 7.849 | 91 | 36808 | 12.0791 | ug/l | 98 |
| 91) | n-Propylbenzene | 7.724 | 91 | 62406 | 11.7931 | ug/l | 99 |
| 92) | Bromobenzene | 7.698 | 77 | 32640 | 11.5622 | ug/l | 85 |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 43820 | 12.4782 | ug/l | 97 |
| 94) | Butyl methacrylate | 7.821 | 41 | 15682 | 7.8785 | ug/l | 68 |
| 95) | t-Butylbenzene | 8.010 | 119 | 41053 | 12.3525 | ug/l | 94 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 44004 | 11.7429 | ug/l | 98 |
| 97) | sec-Butylbenzene | 8.136 | 105 | 48711 | 11.8726 | ug/l | 98 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 40060 | 11.6494 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.441 | 91 | 43981 | 10.9486 | ug/l | 99 |
| 100) | p-Diethylbenzene | 8.425 | 119 | 22942 | 11.3458 | ug/l | 97 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 31182 | 10.6171 | ug/l | 97 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.940 | 157 | 2901 | 10.2772 | ug/l | 89 |
| 103) | Camphor | 9.377 | 95 | 12904 | 97.6179 | ug/l | 96 |
| 104) | Hexachlorobutadiene | 9.518 | 225 | 5904 | 12.6954 | ug/l | 99 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 13318 | 11.6350 | ug/l | 99 |
| 106) | 1,2,3-Trichlorobenzene | 9.737 | 180 | 10583 | 11.7878 | ug/l | 97 |
| 107) | Naphthalene | 9.595 | 128 | 32625 | 10.7129 | ug/l | 99 |

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


Abundance
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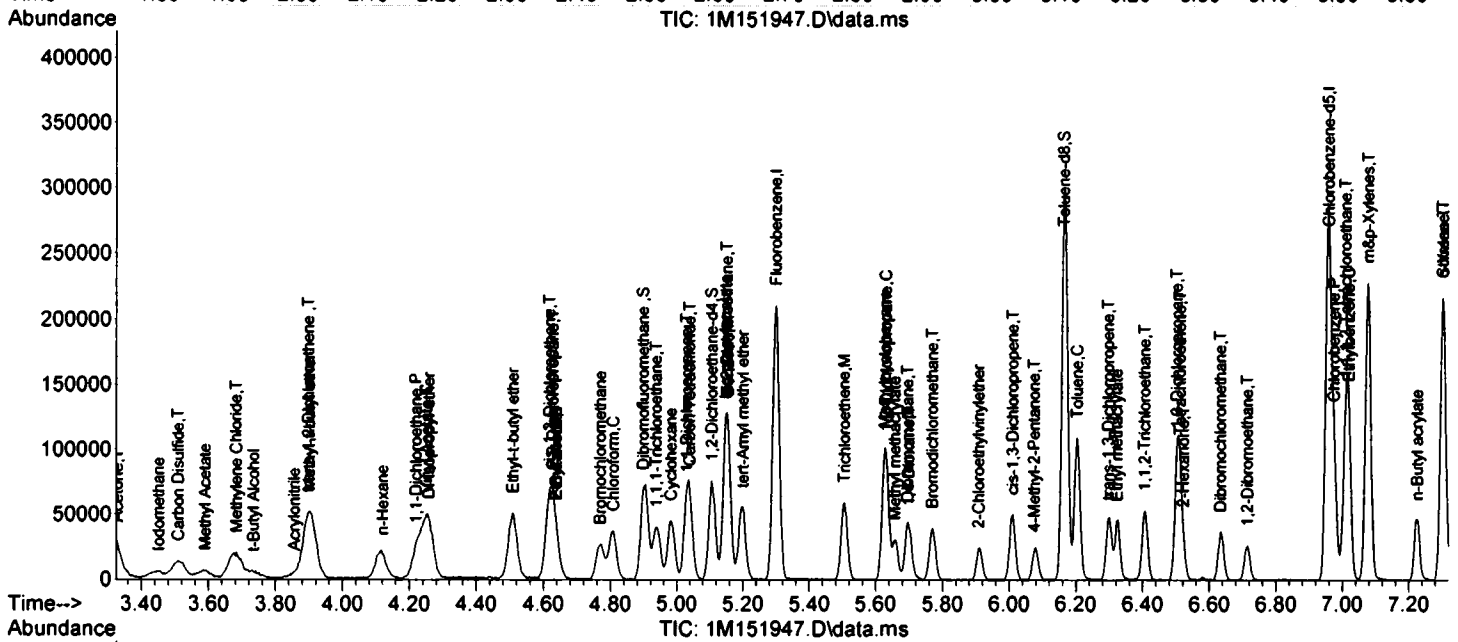
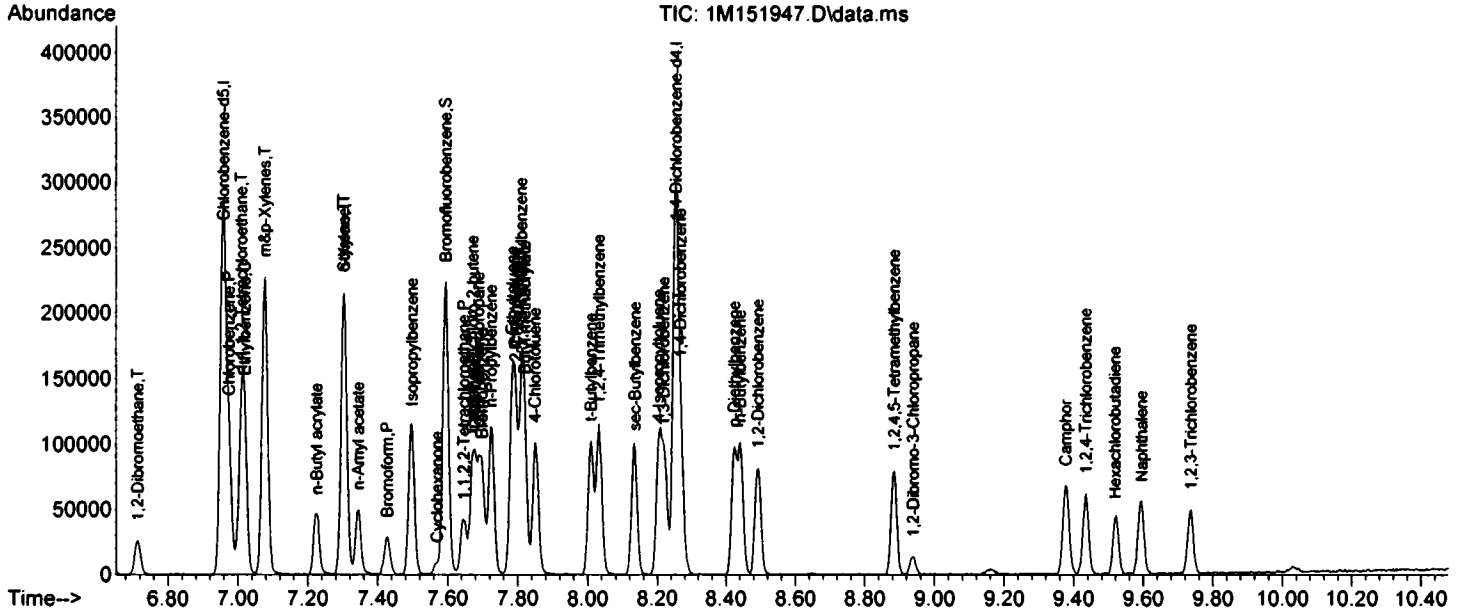
Quant QT Reviewed
SampleID : CAL @ 10 PPB
Data File: 1M151947.D
Acq On : 08/25/21 19:38
Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 08/26/21 15:41
Qt Upd On: 08/26/21 15:28
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->


Abundance
TIC: 1M151947.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->


Abundance
TIC: 1M151947.D\data.ms
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
n-Propylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151949.D  Sam Mult : 1  Vial# : 6  Qt On : 08/26/21 15:31
Acq On : 08/25/21 20:16  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 154563 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.955 | 117 | 120237 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.254 | 152 | 68054 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 40296 | 27.89 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 92.97% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 22594 | 28.67 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.57% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 152970 | 32.66 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.87% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 52823 | 31.03 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.43% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.091 | 51 | 88700 | 39.1773 | ug/l | 64 |
| 6) Dichlorodifluoromethane | 2.075 | 85 | 49152 | 33.1684 | ug/l | 94 |
| 7) Chloromethane | 2.245 | 50 | 67443 | 31.4198 | ug/l | 96 |
| 8) Bromomethane | 2.608 | 94 | 35551m | 35.8594 | ug/l | |
| 9) Vinyl Chloride | 2.332 | 62 | 64225 | 35.3094 | ug/l | 99 |
| 10) Chloroethane | 2.689 | 64 | 40956 | 36.3082 | ug/l | 94 |
| 11) Trichlorofluoromethane | 2.898 | 101 | 90050 | 37.5025 | ug/l | 94 |
| 12) Ethyl ether | 3.110 | 59 | 40123 | 30.6395 | ug/l | 80 |
| 13) Furan | 3.152 | 39 | 70386 | 25.4311 | ug/l | 82 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.303 | 101 | 42348m | 36.6020 | ug/l | |
| 15) Methylene Chloride | 3.679 | 84 | 55247 | 34.1342 | ug/l | 83 |
| 16) Acrolein | 3.216 | 56 | 36490 | 157.3345 | ug/l | 97 |
| 17) Acrylonitrile | 3.856 | 53 | 11411 | 15.4167 | ug/l | 92 |
| 18) Iodomethane | 3.441 | 142 | 56742 | 37.0859 | ug/l | 98 |
| 19) Acetone | 3.329 | 43 | 72469 | 141.6045 | ug/l | 78 |
| 20) Carbon Disulfide | 3.512 | 76 | 124684 | 32.5468 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.730 | 59 | 28997 | 170.9639 | ug/l | 76 |
| 22) n-Hexane | 4.116 | 57 | 50137 | 31.1496 | ug/l | 91 |
| 23) Di-isopropyl-ether | 4.255 | 45 | 164861 | 28.5233 | ug/l | 87 |
| 24) 1,1-Dichloroethene | 3.306 | 61 | 93563 | 33.1722 | ug/l | 97 |
| 25) Methyl Acetate | 3.586 | 43 | 43210 | 31.3123 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.894 | 73 | 144363 | 31.7215 | ug/l | 86 |
| 27) 1,1-Dichloroethane | 4.226 | 63 | 109317 | 34.0378 | ug/l | 92 |
| 28) trans-1,2-Dichloroethene | 3.904 | 96 | 58776 | 36.7890 | ug/l | 89 |
| 29) Ethyl-t-butyl ether | 4.509 | 59 | 177279 | 33.0768 | ug/l | 91 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 107905 | 31.8681 | ug/l | 95 |
| 31) Bromochloromethane | 4.766 | 49 | 54710 | 29.9640 | ug/l | 85 |
| 32) 2,2-Dichloropropane | 4.624 | 77 | 90996 | 34.9325 | ug/l | 96 |
| 33) Ethyl acetate | 4.640 | 43 | 52701m | 27.0860 | ug/l | |
| 34) 1,4-Dioxane | 5.698 | 88 | 32217m | 1760.8911 | ug/l | |
| 35) 1,1-Dichloropropene | 5.029 | 75 | 78336 | 35.9900 | ug/l | 93 |
| 36) Chloroform | 4.804 | 83 | 105895 | 35.8300 | ug/l | 96 |
| 38) Cyclohexane | 4.984 | 56 | 73665 | 30.9534 | ug/l | 84 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 89085 | 33.6462 | ug/l | 98 |
| 41) 2-Butanone | 4.637 | 43 | 41065m | 33.8248 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.939 | 97 | 98508 | 36.5501 | ug/l | 98 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 84101 | 40.8039 | ug/l | 96 |
| 44) Vinyl Acetate | 4.251 | 43 | 156611 | 27.8605 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 82188 | 35.9065 | ug/l | 95 |
| 46) Methylcyclohexane | 5.628 | 83 | 62902 | 36.4615 | ug/l | 91 |
| 47) Dibromomethane | 5.698 | 174 | 41441 | 42.2306 | ug/l | 92 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 61874 | 34.3579 | ug/l | 98 |
| 49) Trichloroethene | 5.505 | 130 | 65022 | 38.9984 | ug/l | 97 |
| 50) Benzene | 5.155 | 78 | 224869 | 35.4484 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 147701 | 35.7599 | ug/l | 96 |
| 53) Iso-propylacetate | 5.148 | 43 | 102002 | 37.1602 | ug/l | 98 |
| 54) Methyl methacrylate | 5.660 | 41 | 41412 | 35.2627 | ug/l | 89 |
| 55) Dibromochloromethane | 6.637 | 129 | 63281 | 45.8460 | ug/l | 99 |
| 56) 2-Chloroethylvinylether | 5.910 | 63 | 37830 | 42.7966 | ug/l | 92 |
| 57) cis-1,3-Dichloropropene | 6.010 | 75 | 88660 | 42.3388 | ug/l | 99 |
| 58) trans-1,3-Dichloropropene | 6.300 | 75 | 85082 | 42.6468 | ug/l | 99 |
| 59) Ethyl methacrylate | 6.325 | 41 | 47607 | 33.3858 | ug/l | 83 |
| 60) 1,1,2-Trichloroethane | 6.409 | 97 | 52055 | 46.5465 | ug/l | 96 |
| 61) 1,2-Dibromoethane | 6.714 | 107 | 55434 | 46.6242 | ug/l | 98 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 89634 | 44.1216 | ug/l | 98 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 50124 | 35.4678 | ug/l | 100 |
| 64) 2-Hexanone | 6.521 | 43 | 34444 | 33.0944 | ug/l | 96 |
| 65) Tetrachloroethene | 6.508 | 164 | 50210 | 49.9618 | ug/l | 96 |
| 67) Toluene | 6.203 | 92 | 148942 | 46.9760 | ug/l | 89 |

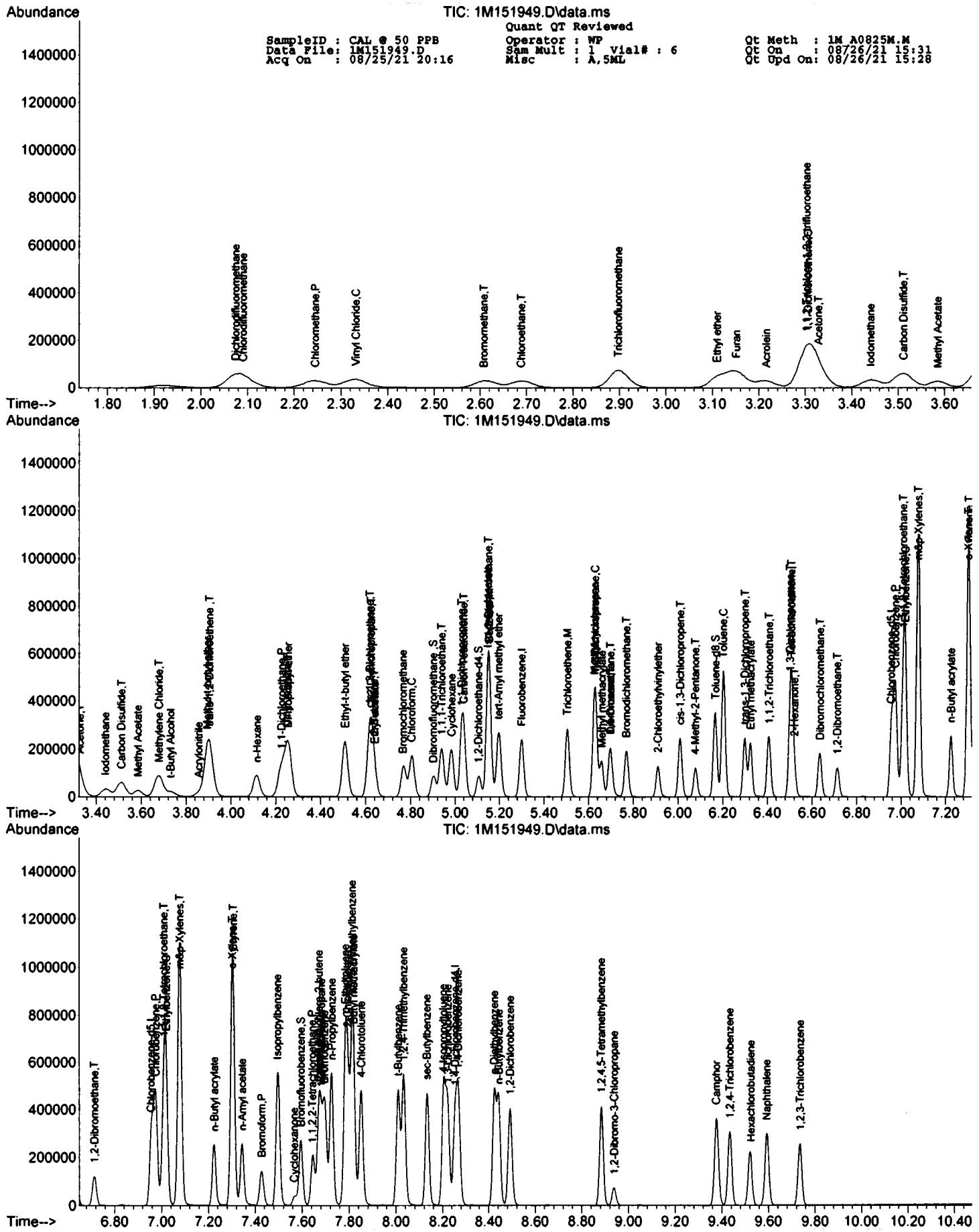
Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151949.D  Sam Mult : 1 Vial# : 6  Qt On : 08/26/21 15:31
Acq On : 08/25/21 20:16  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.010 | 133 | 58570 | 49.0213 | ug/l | 96 |
| 69) | Chlorobenzene | 6.975 | 112 | 165860 | 47.1530 | ug/l | 98 |
| 71) | n-Butyl acrylate | 7.226 | 55 | 114794 | 36.5335 | ug/l | 90 |
| 72) | n-Amyl acetate | 7.344 | 43 | 89543 | 32.7997 | ug/l | 91 |
| 73) | Bromoform | 7.428 | 173 | 44913 | 46.7245 | ug/l | 97 |
| 74) | Ethylbenzene | 7.020 | 106 | 77488 | 45.9393 | ug/l | 98 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 66632 | 42.1741 | ug/l | 98 |
| 77) | Styrene | 7.306 | 104 | 187641 | 48.4310 | ug/l | 100 |
| 78) | m&p-Xylenes | 7.078 | 106 | 216808 | 94.6578 | ug/l | 99 |
| 79) | o-Xylene | 7.303 | 106 | 106920 | 49.2917 | ug/l | 94 |
| 80) | trans-1,4-Dichloro-2-b... | 7.672 | 53 | 29575 | 35.8401 | ug/l | 96 |
| 81) | 1,3-Dichlorobenzene | 8.222 | 146 | 129119 | 50.5790 | ug/l | 94 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 132666 | 49.4956 | ug/l | 95 |
| 83) | 1,2-Dichlorobenzene | 8.492 | 146 | 122340 | 48.6588 | ug/l | 96 |
| 84) | Isopropylbenzene | 7.496 | 105 | 264425 | 48.1312 | ug/l | 100 |
| 85) | Cyclohexanone | 7.566 | 55 | 12789 | 182.3352 | ug/l | 99 |
| 86) | Camphene | 7.672 | 93 | 57763 | 45.5160 | ug/l | 96 |
| 87) | 1,2,3-Trichloropropane | 7.682 | 75 | 89491 | 43.3367 | ug/l | 98 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 168064 | 46.1935 | ug/l | 96 |
| 89) | p-Ethyltoluene | 7.785 | 105 | 247827 | 45.4138 | ug/l | 97 |
| 90) | 4-Chlorotoluene | 7.853 | 91 | 167616 | 44.3809 | ug/l | 98 |
| 91) | n-Propylbenzene | 7.727 | 91 | 301573 | 45.9815 | ug/l | 99 |
| 92) | Bromobenzene | 7.695 | 77 | 148961 | 42.5750 | ug/l | 81 |
| 93) | 1,3,5-Trimethylbenzene | 7.814 | 105 | 213746 | 49.1098 | ug/l | 98 |
| 94) | Butyl methacrylate | 7.820 | 41 | 75784 | 30.7190 | ug/l | 76 |
| 95) | t-Butylbenzene | 8.010 | 119 | 194404 | 47.1958 | ug/l | 97 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 216121 | 46.5338 | ug/l | 99 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 232465 | 45.7157 | ug/l | 99 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 199340 | 46.7711 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.444 | 91 | 213486 | 42.8796 | ug/l | 99 |
| 100) | p-Diethylbenzene | 8.425 | 119 | 115972 | 46.2751 | ug/l | 97 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 159699 | 43.8727 | ug/l | 98 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.939 | 157 | 15173 | 43.3700 | ug/l | 82 |
| 103) | Camphor | 9.377 | 95 | 66237 | 404.2925 | ug/l | 99 |
| 104) | Hexachlorobutadiene | 9.524 | 225 | 30328 | 52.6179 | ug/l | 99 |
| 105) | 1,2,4-Trichlorobenzene | 9.434 | 180 | 70160 | 49.4545 | ug/l | 96 |
| 106) | 1,2,3-Trichlorobenzene | 9.737 | 180 | 58097 | 52.2115 | ug/l | 98 |
| 107) | Naphthalene | 9.592 | 128 | 175129 | 46.3985 | ug/l | 99 |

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


Abundance
TIC: 1M151949.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 1M151949.D
Acq On : 08/25/21 20:16
Operator : WP
Sam Mult : 1 Vial# : 6
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 08/26/21 15:31
Qt Upd On: 08/26/21 15:28
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 100 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151954.D  Sam Mult : 1  Vial# : 11  Qt On : 08/26/21 15:30
Acq On : 08/25/21 21:50  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 160503 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 121807 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 68408 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 42237 | 28.15 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.83% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 23335 | 28.52 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.07% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 159947 | 33.71 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 112.37% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 53086 | 31.02 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.40% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.084 | 51 | 207264 | 88.1571 | ug/l | 62 |
| 6) Dichlorodifluoromethane | 2.072 | 85 | 111492 | 72.4518 | ug/l | 94 |
| 7) Chloromethane | 2.245 | 50 | 151118 | 67.7963 | ug/l | 94 |
| 8) Bromomethane | 2.612 | 94 | 80908 | 78.5897 | ug/l | 95 |
| 9) Vinyl Chloride | 2.322 | 62 | 149510 | 79.1550 | ug/l | 95 |
| 10) Chloroethane | 2.686 | 64 | 93310 | 79.6596 | ug/l | 97 |
| 11) Trichlorofluoromethane | 2.898 | 101 | 207041 | 83.0338 | ug/l | 95 |
| 12) Ethyl ether | 3.110 | 59 | 92602 | 68.0974 | ug/l | 79 |
| 13) Furan | 3.152 | 39 | 161031 | 56.0288 | ug/l | 85 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.297 | 101 | 100274m | 83.4608 | ug/l | |
| 15) Methylene Chloride | 3.679 | 84 | 127590 | 75.9137 | ug/l | 77 |
| 16) Acrolein | 3.216 | 56 | 80909 | 335.9458 | ug/l | 98 |
| 17) Acrylonitrile | 3.859 | 53 | 48797 | 63.4867 | ug/l | 96 |
| 18) Iodomethane | 3.445 | 142 | 142079 | 89.4246 | ug/l | 98 |
| 19) Acetone | 3.329 | 43 | 153400 | 288.6506 | ug/l | 78 |
| 20) Carbon Disulfide | 3.512 | 76 | 290025 | 72.9047 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.727 | 59 | 57467 | 326.2813 | ug/l | 89 |
| 22) n-Hexane | 4.110 | 57 | 122083 | 73.0418 | ug/l | 91 |
| 23) Di-isopropyl-ether | 4.255 | 45 | 383679 | 63.9252 | ug/l | 86 |
| 24) 1,1-Dichloroethene | 3.309 | 61 | 215507 | 73.5791 | ug/l | 94 |
| 25) Methyl Acetate | 3.586 | 43 | 91662 | 63.9651 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.898 | 73 | 325692 | 68.9171 | ug/l | 92 |
| 27) 1,1-Dichloroethane | 4.223 | 63 | 251138 | 75.3023 | ug/l | 93 |
| 28) trans-1,2-Dichloroethene | 3.901 | 96 | 130501 | 78.6601 | ug/l | 79 |
| 29) Ethyl-t-butyl ether | 4.506 | 59 | 402714 | 72.3577 | ug/l | 91 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 247432 | 70.3708 | ug/l | 92 |
| 31) Bromochloromethane | 4.766 | 49 | 125615 | 66.2516 | ug/l | 81 |
| 32) 2,2-Dichloropropane | 4.625 | 77 | 202727 | 74.9449 | ug/l | 95 |
| 33) Ethyl acetate | 4.641 | 43 | 111129m | 55.0016 | ug/l | |
| 34) 1,4-Dioxane | 5.695 | 88 | 54083 | 2846.6269 | ug/l | 94 |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 180065 | 79.6658 | ug/l | 92 |
| 36) Chloroform | 4.801 | 83 | 242157 | 78.9025 | ug/l | 97 |
| 38) Cyclohexane | 4.981 | 56 | 179355 | 72.5744 | ug/l | 84 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 204608 | 74.4177 | ug/l | 98 |
| 41) 2-Butanone | 4.631 | 43 | 68000m | 53.9380 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.936 | 97 | 227062 | 81.1305 | ug/l | 96 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 197485 | 92.2691 | ug/l | 100 |
| 44) Vinyl Acetate | 4.248 | 43 | 367060 | 62.8820 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 188905 | 79.4750 | ug/l | 100 |
| 46) Methylcyclohexane | 5.628 | 83 | 153720 | 85.8070 | ug/l | 89 |
| 47) Dibromomethane | 5.695 | 174 | 91549 | 89.8408 | ug/l | 92 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 140879 | 75.3334 | ug/l | 96 |
| 49) Trichloroethene | 5.502 | 130 | 144897 | 83.6890 | ug/l | 95 |
| 50) Benzene | 5.152 | 78 | 503192 | 76.3877 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 335271 | 78.1685 | ug/l | 97 |
| 53) Iso-propylacetate | 5.149 | 43 | 224039 | 80.5674 | ug/l | 98 |
| 54) Methyl methacrylate | 5.657 | 41 | 95570 | 80.3299 | ug/l | 83 |
| 55) Dibromochloromethane | 6.634 | 129 | 143912 | 102.9179 | ug/l | 100 |
| 56) 2-Chloroethylvinylether | 5.911 | 63 | 86207 | 96.2678 | ug/l | 92 |
| 57) cis-1,3-Dichloropropene | 6.007 | 75 | 199841 | 94.2023 | ug/l | 99 |
| 58) trans-1,3-Dichloropropene | 6.296 | 75 | 193494 | 95.7376 | ug/l | 97 |
| 59) Ethyl methacrylate | 6.322 | 41 | 110376 | 76.4067 | ug/l | 81 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 116319 | 102.6694 | ug/l | 96 |
| 61) 1,2-Dibromoethane | 6.714 | 107 | 123509 | 102.5414 | ug/l | 99 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 199711 | 97.0390 | ug/l | 100 |
| 63) 4-Methyl-2-Pentanone | 6.075 | 43 | 109552 | 76.5199 | ug/l | 98 |
| 64) 2-Hexanone | 6.522 | 43 | 76416 | 72.4755 | ug/l | 93 |
| 65) Tetrachloroethene | 6.509 | 164 | 117331 | 115.2462 | ug/l | 93 |
| 67) Toluene | 6.203 | 92 | 335137 | 104.3390 | ug/l | 93 |

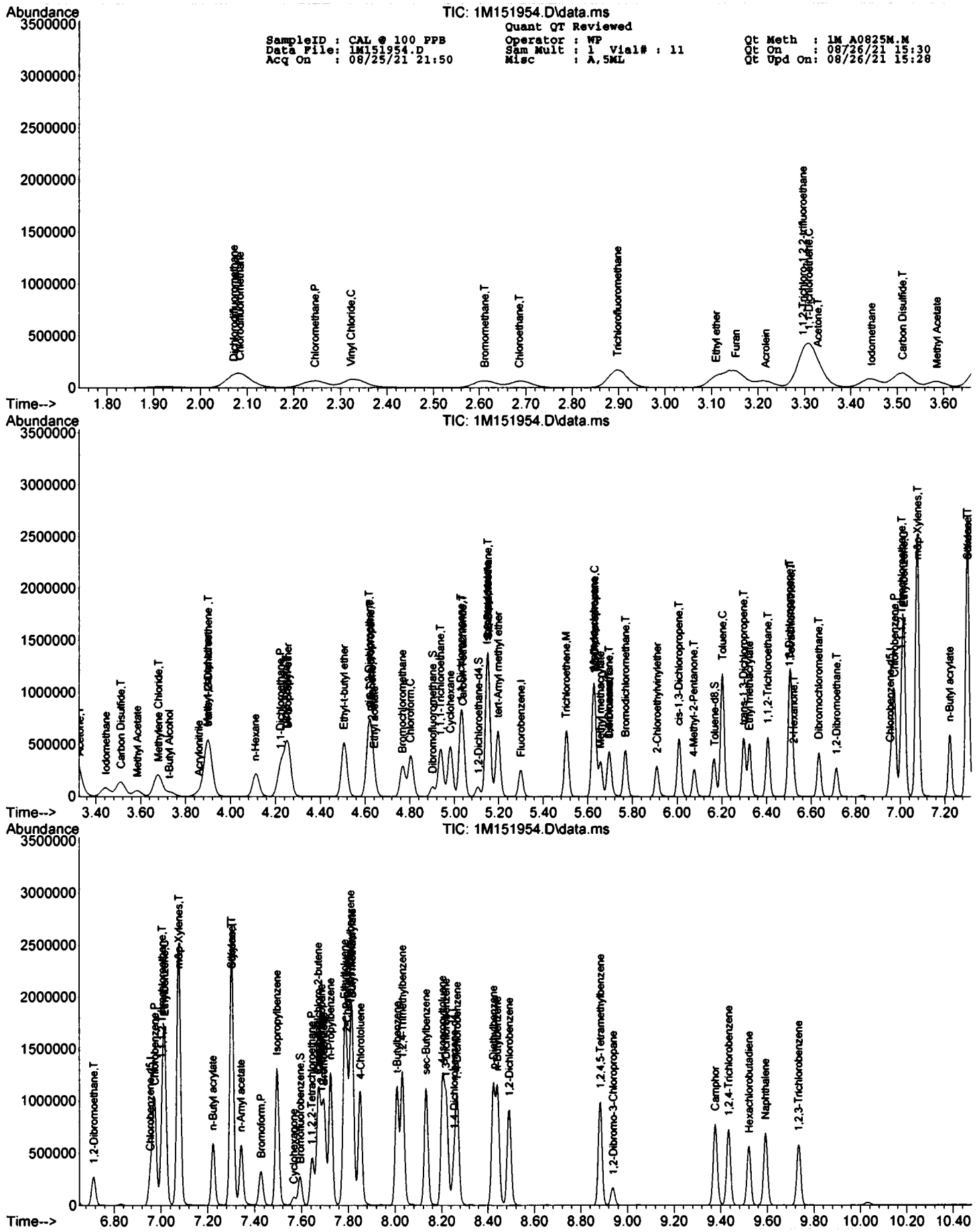
Quantitation Report (QT Reviewed)

SampleID : CAL @ 100 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151954.D  Sam Mult : 1  Vial# : 11  Qt On : 08/26/21 15:30
Acq On : 08/25/21 21:50  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 130806 | 108.0696 | ug/l | 96 |
| 69) | Chlorobenzene | 6.975 | 112 | 372463 | 104.5241 | ug/l | 98 |
| 71) | n-Butyl acrylate | 7.223 | 55 | 265247 | 83.9788 | ug/l | 90 |
| 72) | n-Amyl acetate | 7.341 | 43 | 206811 | 75.3631 | ug/l | 90 |
| 73) | Bromoform | 7.428 | 173 | 103232 | 106.8400 | ug/l | 93 |
| 74) | Ethylbenzene | 7.017 | 106 | 181888 | 107.2754 | ug/l | 98 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 146257 | 92.0930 | ug/l | 97 |
| 77) | Styrene | 7.303 | 104 | 424443 | 108.9838 | ug/l | 97 |
| 78) | m&p-Xylenes | 7.078 | 106 | 493256 | 214.2399 | ug/l | 98 |
| 79) | o-Xylene | 7.303 | 106 | 243153 | 111.5171 | ug/l | 94 |
| 80) | trans-1,4-Dichloro-2-b... | 7.673 | 53 | 69044 | 83.2372 | ug/l | 94 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 284321 | 110.7989 | ug/l | 95 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 295267 | 109.5895 | ug/l | 96 |
| 83) | 1,2-Dichlorobenzene | 8.493 | 146 | 276107 | 109.2488 | ug/l | 96 |
| 84) | Isopropylbenzene | 7.496 | 105 | 604512 | 109.4651 | ug/l | 100 |
| 85) | Cyclohexanone | 7.567 | 55 | 24384 | 345.8484 | ug/l | 98 |
| 86) | Camphene | 7.673 | 93 | 142130 | 111.4158 | ug/l | 96 |
| 87) | 1,2,3-Trichloropropane | 7.686 | 75 | 193058 | 93.0060 | ug/l | 98 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 381880 | 104.4192 | ug/l | 95 |
| 89) | p-Ethyltoluene | 7.785 | 105 | 573023 | 104.4619 | ug/l | 97 |
| 90) | 4-Chlorotoluene | 7.853 | 91 | 382181 | 100.6692 | ug/l | 97 |
| 91) | n-Propylbenzene | 7.724 | 91 | 693910 | 105.2545 | ug/l | 98 |
| 92) | Bromobenzene | 7.695 | 77 | 330754 | 94.0446 | ug/l | 80 |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 474422 | 108.4381 | ug/l | 98 |
| 94) | Butyl methacrylate | 7.817 | 41 | 178681 | 72.0535 | ug/l | 73 |
| 95) | t-Butylbenzene | 8.010 | 119 | 455240 | 109.9476 | ug/l | 96 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 497543 | 106.5735 | ug/l | 99 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 554722 | 108.5250 | ug/l | 98 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 470696 | 109.8678 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.441 | 91 | 512107 | 102.3267 | ug/l | 98 |
| 100) | p-Diethylbenzene | 8.425 | 119 | 274233 | 108.8580 | ug/l | 97 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 385251 | 105.2890 | ug/l | 98 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.939 | 157 | 34440 | 97.9326 | ug/l | 81 |
| 103) | Camphor | 9.377 | 95 | 139757 | 848.6242 | ug/l | 100 |
| 104) | Hexachlorobutadiene | 9.521 | 225 | 77010 | 132.9179 | ug/l | 99 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 164187 | 115.1334 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.734 | 180 | 134163 | 119.9478 | ug/l | 98 |
| 107) | Naphthalene | 9.592 | 128 | 392166 | 103.3624 | ug/l | 99 |

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


Abundance
TIC: 1M151954.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 100 PPB
Data File: 1M151954.D
Acq On : 08/25/21 21:50
Operator : WP
Sam Mult : 1 Vial# : 11
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 08/26/21 15:30
Qt Upd On: 08/26/21 15:28
Time-->
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,C
Toluene-d8,S
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
n-Butyl acrylate
1,2-Dibromoethane,T
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
1,1,2,2-Tetrachloroethane,P
4-Chlorotoluene
t-Butylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Quantitation Report (QT Reviewed)

SampleID : CAL @ 250 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151952.D  Sam Mult : 1  Vial# : 9  Qt On : 08/26/21 15:29
Acq On : 08/25/21 21:12  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 162232 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 124674 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.254 | 152 | 80094 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 42402 | 27.96 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.20% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 22682 | 27.43 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 91.43% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 157913 | 32.52 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.40% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 57693 | 28.79 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.97% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.081 | 51 | 504549 | 212.3163 | ug/l | 59 |
| 6) Dichlorodifluoromethane | 2.071 | 85 | 257018 | 165.2402 | ug/l | 99 |
| 7) Chloromethane | 2.242 | 50 | 350771 | 155.6897 | ug/l | 91 |
| 8) Bromomethane | 2.602 | 94 | 204554 | 196.5752 | ug/l | 95 |
| 9) Vinyl Chloride | 2.329 | 62 | 348178 | 182.3712 | ug/l | 100 |
| 10) Chloroethane | 2.689 | 64 | 220602 | 186.3228 | ug/l | 99 |
| 11) Trichlorofluoromethane | 2.895 | 101 | 513975 | 203.9327 | ug/l | 95 |
| 12) Ethyl ether | 3.113 | 59 | 227560 | 165.5591 | ug/l | 79 |
| 13) Furan | 3.149 | 39 | 383833 | 132.1267 | ug/l | 86 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.300 | 101 | 247232m | 203.5848 | ug/l | |
| 15) Methylene Chloride | 3.679 | 84 | 310700 | 182.8907 | ug/l | 79 |
| 16) Acrolein | 3.210 | 56 | 210417 | 864.3704 | ug/l | 93 |
| 17) Acrylonitrile | 3.859 | 53 | 123371 | 158.7995 | ug/l | 92 |
| 18) Iodomethane | 3.444 | 142 | 353868 | 220.3509 | ug/l | 100 |
| 19) Acetone | 3.329 | 43 | 387718 | 721.7881 | ug/l | 77 |
| 20) Carbon Disulfide | 3.512 | 76 | 705390 | 175.4268 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.734 | 59 | 159117 | 893.7928 | ug/l | 82 |
| 22) n-Hexane | 4.113 | 57 | 295419 | 174.8645 | ug/l | 90 |
| 23) Di-isopropyl-ether | 4.258 | 45 | 931218 | 153.4978 | ug/l | 87 |
| 24) 1,1-Dichloroethene | 3.306 | 61 | 522388 | 176.4545 | ug/l | 94 |
| 25) Methyl Acetate | 3.586 | 43 | 232262 | 160.3534 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.898 | 73 | 805424 | 168.6130 | ug/l | 93 |
| 27) 1,1-Dichloroethane | 4.223 | 63 | 606737 | 179.9877 | ug/l | 93 |
| 28) trans-1,2-Dichloroethene | 3.901 | 96 | 320348 | 191.0334 | ug/l | 85 |
| 29) Ethyl-t-butyl ether | 4.509 | 59 | 999598 | 177.6888 | ug/l | 91 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 620195 | 174.5065 | ug/l | 87 |
| 31) Bromochloromethane | 4.769 | 49 | 336210 | 175.4333 | ug/l | 88 |
| 32) 2,2-Dichloropropane | 4.624 | 77 | 506004 | 185.0678 | ug/l | 96 |
| 33) Ethyl acetate | 4.640 | 43 | 309160m | 151.3832 | ug/l | |
| 34) 1,4-Dioxane | 5.698 | 88 | 188037 | 9791.7365 | ug/l | 93 |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 443933 | 194.3151 | ug/l | 93 |
| 36) Chloroform | 4.804 | 83 | 583366 | 188.0535 | ug/l | 98 |
| 38) Cyclohexane | 4.981 | 56 | 448233 | 179.4406 | ug/l | 83 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 499792 | 179.8414 | ug/l | 97 |
| 41) 2-Butanone | 4.631 | 43 | 177430m | 139.2387 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.939 | 97 | 552937 | 195.4617 | ug/l | 98 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 490354 | 226.6620 | ug/l | 99 |
| 44) Vinyl Acetate | 4.248 | 43 | 933936 | 158.2897 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 472797 | 196.7924 | ug/l | 98 |
| 46) Methylcyclohexane | 5.628 | 83 | 376521 | 207.9354 | ug/l | 89 |
| 47) Dibromomethane | 5.698 | 174 | 228134 | 221.4912 | ug/l | 90 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 348545 | 184.3940 | ug/l | 98 |
| 49) Trichloroethene | 5.505 | 130 | 357761 | 204.4320 | ug/l | 97 |
| 50) Benzene | 5.155 | 78 | 1240616 | 186.3261 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 841179 | 194.0308 | ug/l | 98 |
| 53) Iso-propylacetate | 5.149 | 43 | 568787 | 199.8397 | ug/l | 98 |
| 54) Methyl methacrylate | 5.660 | 41 | 220915 | 181.4166 | ug/l | 91 |
| 55) Dibromochloromethane | 6.637 | 129 | 371648 | 259.6701 | ug/l | 96 |
| 56) 2-Chloroethylvinylether | 5.911 | 63 | 219563 | 239.5488 | ug/l | 92 |
| 57) cis-1,3-Dichloropropene | 6.010 | 75 | 505511 | 232.8112 | ug/l | 99 |
| 58) trans-1,3-Dichloropropene | 6.300 | 75 | 481918 | 232.9617 | ug/l | 98 |
| 59) Ethyl methacrylate | 6.325 | 41 | 278147 | 188.1169 | ug/l | 82 |
| 60) 1,1,2-Trichloroethane | 6.409 | 97 | 292894 | 252.5791 | ug/l | 97 |
| 61) 1,2-Dibromoethane | 6.714 | 107 | 310657 | 251.9870 | ug/l | 99 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 504766 | 239.6243 | ug/l | 99 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 275549 | 188.0396 | ug/l | 97 |
| 64) 2-Hexanone | 6.521 | 43 | 192640 | 178.5047 | ug/l | 90 |
| 65) Tetrachloroethene | 6.509 | 164 | 291046 | 279.3005 | ug/l | 97 |
| 67) Toluene | 6.203 | 92 | 833001 | 253.3764 | ug/l | 92 |

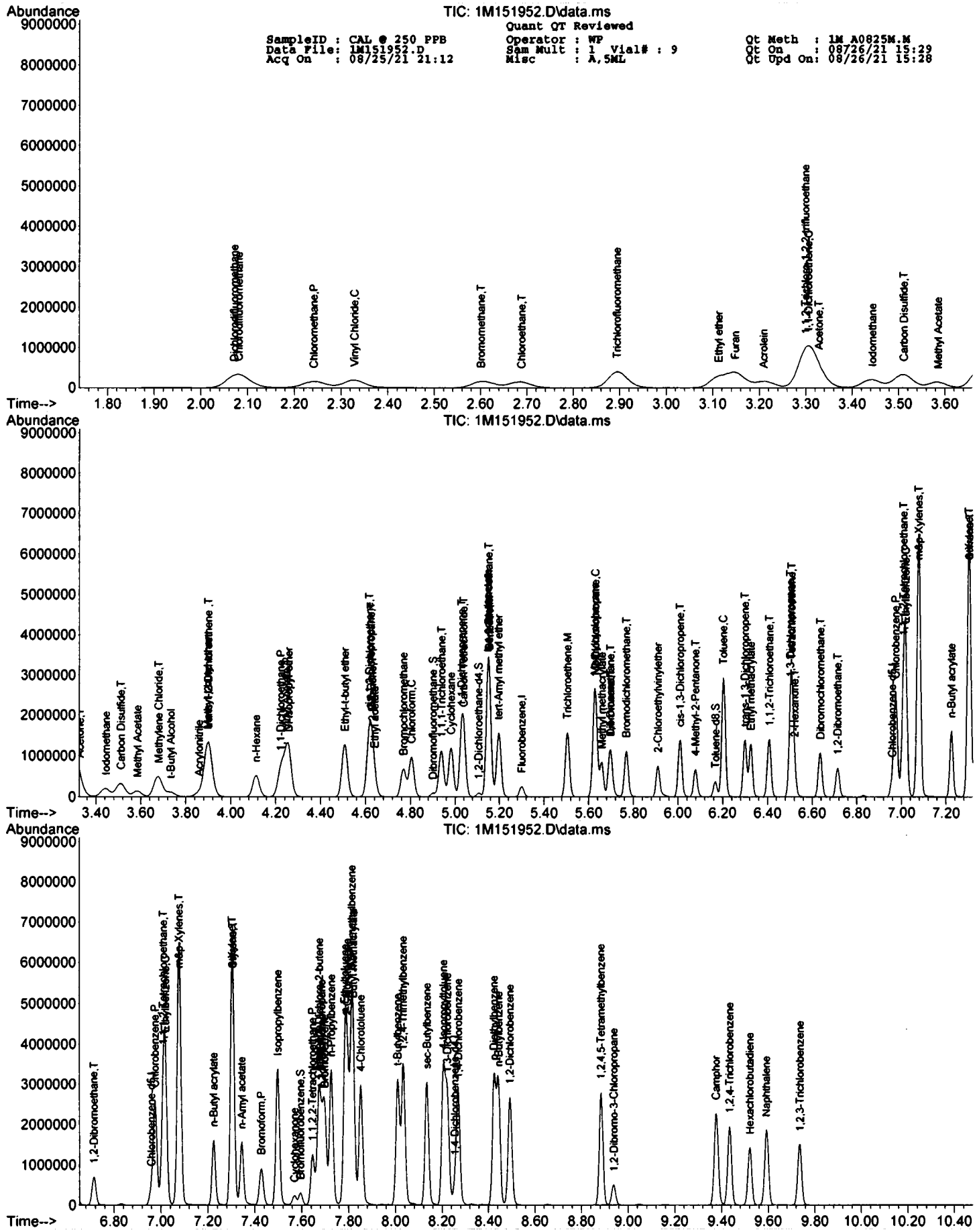
Quantitation Report (QT Reviewed)

SampleID : CAL @ 250 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151952.D  Sam Mult : 1  Vial# : 9  Qt On : 08/26/21 15:29
Acq On : 08/25/21 21:12  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.010 | 133 | 333144 | 268.9082 | ug/l | 97 |
| 69) | Chlorobenzene | 6.975 | 112 | 932676 | 255.7176 | ug/l | 97 |
| 71) | n-Butyl acrylate | 7.226 | 55 | 703453 | 190.2221 | ug/l | 89 |
| 72) | n-Amyl acetate | 7.345 | 43 | 550755 | 171.4157 | ug/l | 89 |
| 73) | Bromoform | 7.428 | 173 | 282823 | 250.0007 | ug/l | 95 |
| 74) | Ethylbenzene | 7.020 | 106 | 456384 | 229.8971 | ug/l | 97 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.647 | 83 | 402033 | 216.2113 | ug/l | 98 |
| 77) | Styrene | 7.306 | 104 | 1101019 | 241.4596 | ug/l | 99 |
| 78) | m&p-Xylenes | 7.078 | 106 | 1263844 | 468.8440 | ug/l | 100 |
| 79) | o-Xylene | 7.303 | 106 | 622341 | 243.7795 | ug/l | 93 |
| 80) | trans-1,4-Dichloro-2-b... | 7.676 | 53 | 189806 | 195.4377 | ug/l | 99 |
| 81) | 1,3-Dichlorobenzene | 8.222 | 146 | 803267 | 267.3581 | ug/l | 95 |
| 82) | 1,4-Dichlorobenzene | 8.271 | 146 | 830656 | 263.3190 | ug/l | 96 |
| 83) | 1,2-Dichlorobenzene | 8.492 | 146 | 786933 | 265.9403 | ug/l | 96 |
| 84) | Isopropylbenzene | 7.499 | 105 | 1565621 | 242.1387 | ug/l | 100 |
| 85) | Cyclohexanone | 7.570 | 55 | 69242 | 838.7978 | ug/l | 99 |
| 86) | Camphene | 7.673 | 93 | 354492 | 237.3418 | ug/l | 98 |
| 87) | 1,2,3-Trichloropropane | 7.685 | 75 | 534849 | 220.0701 | ug/l | 98 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 1010802 | 236.0621 | ug/l | 94 |
| 89) | p-Ethyltoluene | 7.785 | 105 | 1585398 | 246.8488 | ug/l | 94 |
| 90) | 4-Chlorotoluene | 7.853 | 91 | 1043035 | 234.6570 | ug/l | 98 |
| 91) | n-Propylbenzene | 7.727 | 91 | 1815382 | 235.1865 | ug/l | 98 |
| 92) | Bromobenzene | 7.698 | 77 | 874665 | 212.4112 | ug/l | 81 |
| 93) | 1,3,5-Trimethylbenzene | 7.814 | 105 | 1265598 | 247.0698 | ug/l | 98 |
| 94) | Butyl methacrylate | 7.820 | 41 | 495500 | 170.6582 | ug/l | 76 |
| 95) | t-Butylbenzene | 8.010 | 119 | 1248275 | 257.4912 | ug/l | 97 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 1376629 | 251.8503 | ug/l | 99 |
| 97) | sec-Butylbenzene | 8.136 | 105 | 1518077 | 253.6619 | ug/l | 98 |
| 98) | 4-Isopropyltoluene | 8.206 | 119 | 1311228 | 261.4058 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.444 | 91 | 1415976 | 241.6525 | ug/l | 98 |
| 100) | p-Diethylbenzene | 8.425 | 119 | 777271 | 263.5239 | ug/l | 96 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 1067754 | 249.2397 | ug/l | 98 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.939 | 157 | 102186 | 248.1776 | ug/l | 81 |
| 103) | Camphor | 9.377 | 95 | 414782 | 2151.1399 | ug/l | 99 |
| 104) | Hexachlorobutadiene | 9.521 | 225 | 193230 | 284.8510 | ug/l | 99 |
| 105) | 1,2,4-Trichlorobenzene | 9.434 | 180 | 438105 | 262.3903 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.737 | 180 | 345097 | 263.5164 | ug/l | 97 |
| 107) | Naphthalene | 9.592 | 128 | 1070771 | 241.0440 | ug/l | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL @ 250 PPB
Data File: 1M151952.D
Acq On : 08/25/21 21:12
Operator : WP
Sam Mult : 1 Vial# : 9
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 08/26/21 15:29
Qt Upd On: 08/26/21 15:28
Abundance
Time-->

SampleID : CAL @500 PPB Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M151950.D Sam Mult : 1 Vial# : 7 Qt On : 08/26/21 15:29
Acq On : 08/25/21 20:35 Misc : A,5ML Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 152668 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 124978 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.258 | 152 | 88062 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 40251 | 28.20 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 94.00% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 22548 | 28.97 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.57% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 151570 | 31.13 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.77% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 64085 | 29.09 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.97% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.084 | 51 | 964550 | 431.3137 | ug/l | 78 |
| 6) Dichlorodifluoromethane | 2.071 | 85 | 667357 | 455.9308 | ug/l | 97 |
| 7) Chloromethane | 2.242 | 50 | 770346 | 363.3377 | ug/l | 95 |
| 8) Bromomethane | 2.595 | 94 | 470881 | 480.8620 | ug/l | 92 |
| 9) Vinyl Chloride | 2.325 | 62 | 744283 | 414.2681 | ug/l | 98 |
| 10) Chloroethane | 2.682 | 64 | 457557 | 410.6675 | ug/l | 100 |
| 11) Trichlorofluoromethane | 2.891 | 101 | 1043650 | 440.0361 | ug/l | 95 |
| 12) Ethyl ether | 3.107 | 59 | 500108 | 386.6423 | ug/l | 79 |
| 13) Furan | 3.145 | 39 | 902469 | 330.1178 | ug/l | 86 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.296 | 101 | 463135m | 405.2629 | ug/l | |
| 15) Methylene Chloride | 3.673 | 84 | 607327 | 379.8931 | ug/l | 77 |
| 16) Acrolein | 3.206 | 56 | 476419 | 2079.6806 | ug/l | 98 |
| 17) Acrylonitrile | 3.859 | 53 | 233305 | 319.1160 | ug/l | 93 |
| 18) Iodomethane | 3.441 | 142 | 677318 | 448.1824 | ug/l | 98 |
| 19) Acetone | 3.329 | 43 | 726802 | 1437.7997 | ug/l | 79 |
| 20) Carbon Disulfide | 3.509 | 76 | 1364987 | 360.7312 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.734 | 59 | 292861 | 1748.1163 | ug/l | 85 |
| 22) n-Hexane | 4.107 | 57 | 562340 | 353.7127 | ug/l | 89 |
| 23) Di-isopropyl-ether | 4.255 | 45 | 1807004 | 316.5181 | ug/l | 87 |
| 24) 1,1-Dichloroethene | 3.306 | 61 | 1070294 | 384.1768 | ug/l | 95 |
| 25) Methyl Acetate | 3.579 | 43 | 385058 | 282.4976 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.894 | 73 | 1527292 | 339.7639 | ug/l | 93 |
| 27) 1,1-Dichloroethane | 4.219 | 63 | 1226632 | 386.6741 | ug/l | 93 |
| 28) trans-1,2-Dichloroethene | 3.901 | 96 | 643527 | 407.7956 | ug/l | 85 |
| 29) Ethyl-t-butyl ether | 4.505 | 59 | 1904961 | 359.8400 | ug/l | 92 |
| 30) cis-1,2-Dichloroethene | 4.615 | 61 | 1215040 | 363.2975 | ug/l | 90 |
| 31) Bromochloromethane | 4.769 | 49 | 555861 | 308.2167 | ug/l | 90 |
| 32) 2,2-Dichloropropane | 4.624 | 77 | 1029836 | 400.2520 | ug/l | 96 |
| 33) Ethyl acetate | 4.637 | 43 | 562919m | 292.9064 | ug/l | |
| 34) 1,4-Dioxane | 5.698 | 88 | 374389 | 20717.0537 | ug/l | 93 |
| 35) 1,1-Dichloropropene | 5.029 | 75 | 889607 | 413.7860 | ug/l | 94 |
| 36) Chloroform | 4.804 | 83 | 1156940 | 396.3142 | ug/l | 100 |
| 38) Cyclohexane | 4.981 | 56 | 833089 | 354.4025 | ug/l | 83 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 998455 | 381.7837 | ug/l | 96 |
| 41) 2-Butanone | 4.631 | 43 | 334739m | 279.1436 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.936 | 97 | 1107558 | 416.0458 | ug/l | 95 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 969530 | 476.2322 | ug/l | 100 |
| 44) Vinyl Acetate | 4.245 | 43 | 2002885 | 360.7282 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 936732 | 414.3216 | ug/l | 97 |
| 46) Methylcyclohexane | 5.628 | 83 | 707991 | 415.4851 | ug/l | 92 |
| 47) Dibromomethane | 5.698 | 174 | 451244 | 465.5501 | ug/l | 92 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 697142 | 391.9203 | ug/l | 98 |
| 49) Trichloroethene | 5.505 | 130 | 716914 | 435.3228 | ug/l | 98 |
| 50) Benzene | 5.152 | 78 | 2519739 | 402.1428 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 1602334 | 392.7570 | ug/l | 98 |
| 53) Iso-propylacetate | 5.148 | 43 | 1082931 | 379.5555 | ug/l | 97 |
| 54) Methyl methacrylate | 5.656 | 41 | 461347 | 377.9391 | ug/l | 84 |
| 55) Dibromochloromethane | 6.637 | 129 | 755948 | 526.8954 | ug/l | 99 |
| 56) 2-Chloroethylvinylether | 5.910 | 63 | 68198 | 74.2248 | ug/l | 94 |
| 57) cis-1,3-Dichloropropene | 6.010 | 75 | 1011928 | 464.9061 | ug/l | 100 |
| 58) trans-1,3-Dichloropropene | 6.300 | 75 | 973668 | 469.5313 | ug/l | 99 |
| 59) Ethyl methacrylate | 6.325 | 41 | 535526 | 361.3069 | ug/l | 84 |
| 60) 1,1,2-Trichloroethane | 6.409 | 97 | 587073 | 505.0348 | ug/l | 97 |
| 61) 1,2-Dibromoethane | 6.714 | 107 | 628258 | 508.3670 | ug/l | 98 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 1013747 | 480.0790 | ug/l | 99 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 514406 | 350.1861 | ug/l | 95 |
| 64) 2-Hexanone | 6.521 | 43 | 373877 | 345.6004 | ug/l | 92 |
| 65) Tetrachloroethene | 6.508 | 164 | 591192 | 565.9537 | ug/l | 97 |
| 67) Toluene | 6.203 | 92 | 1702742 | 516.6683 | ug/l | 93 |

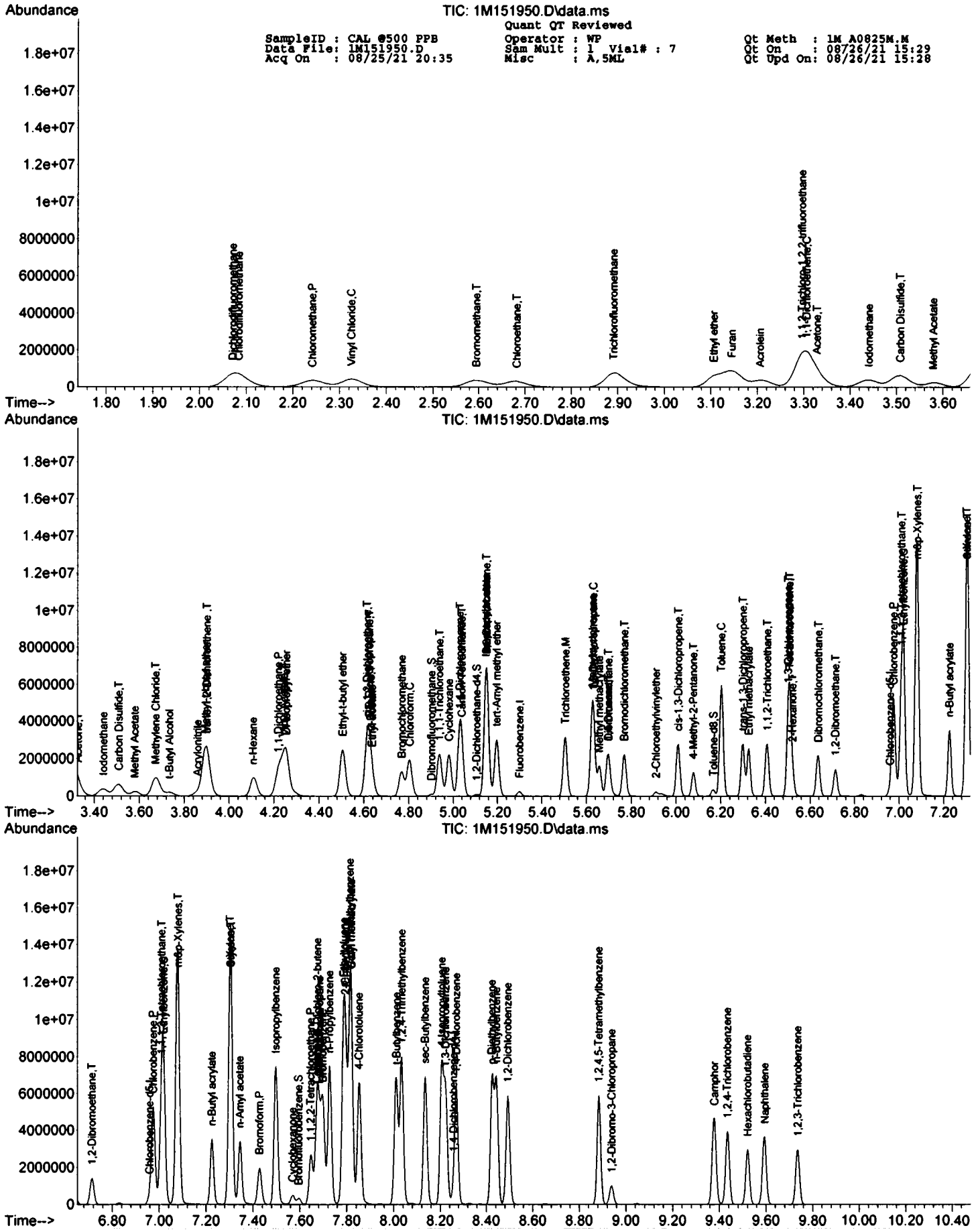
Quantitation Report (QT Reviewed)

SampleID : CAL @500 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151950.D  Sam Mult : 1  Vial# : 7  Qt On : 08/26/21 15:29
Acq On : 08/25/21 20:35  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.010 | 133 | 704865 | 567.5713 | ug/l | 96 |
| 69) | Chlorobenzene | 6.975 | 112 | 1935794 | 529.4577 | ug/l | 96 |
| 71) | n-Butyl acrylate | 7.226 | 55 | 1534727 | 377.4578 | ug/l | 90 |
| 72) | n-Amyl acetate | 7.344 | 43 | 1185304 | 335.5316 | ug/l | 90 |
| 73) | Bromoform | 7.428 | 173 | 613524 | 493.2526 | ug/l | 95 |
| 74) | Ethylbenzene | 7.020 | 106 | 963776 | 441.5610 | ug/l | 99 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.647 | 83 | 875883 | 428.4245 | ug/l | 100 |
| 77) | Styrene | 7.306 | 104 | 2480776 | 494.8215 | ug/l | 99 |
| 78) | m&p-Xylenes | 7.081 | 106 | 2734947 | 922.7738 | ug/l | 94 |
| 79) | o-Xylene | 7.303 | 106 | 1382453 | 492.5276 | ug/l | 91 |
| 80) | trans-1,4-Dichloro-2-b... | 7.676 | 53 | 402157 | 376.6219 | ug/l | 99 |
| 81) | 1,3-Dichlorobenzene | 8.222 | 146 | 1798414 | 544.4206 | ug/l | 95 |
| 82) | 1,4-Dichlorobenzene | 8.270 | 146 | 1829333 | 527.4304 | ug/l | 96 |
| 83) | 1,2-Dichlorobenzene | 8.492 | 146 | 1700427 | 522.6558 | ug/l | 96 |
| 84) | Isopropylbenzene | 7.499 | 105 | 3484909 | 490.2080 | ug/l | 100 |
| 85) | Cyclohexanone | 7.570 | 55 | 143723 | 1583.5267 | ug/l | 99 |
| 86) | Camphene | 7.672 | 93 | 771912 | 470.0532 | ug/l | 97 |
| 87) | 1,2,3-Trichloropropane | 7.685 | 75 | 1191791 | 446.0067 | ug/l | 98 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 2306414 | 489.9017 | ug/l | 95 |
| 89) | p-Ethyltoluene | 7.788 | 105 | 3535637 | 500.6934 | ug/l | 97 |
| 90) | 4-Chlorotoluene | 7.853 | 91 | 2315453 | 473.7858 | ug/l | 98 |
| 91) | n-Propylbenzene | 7.727 | 91 | 4073215 | 479.9469 | ug/l | 98 |
| 92) | Bromobenzene | 7.698 | 77 | 1930740 | 426.4527 | ug/l | 81 |
| 93) | 1,3,5-Trimethylbenzene | 7.814 | 105 | 2978363 | 528.8261 | ug/l | 97 |
| 94) | Butyl methacrylate | 7.820 | 41 | 1112700 | 348.5564 | ug/l | 78 |
| 95) | t-Butylbenzene | 8.013 | 119 | 2797588 | 524.8646 | ug/l | 97 |
| 96) | 1,2,4-Trimethylbenzene | 8.036 | 105 | 3076155 | 511.8529 | ug/l | 99 |
| 97) | sec-Butylbenzene | 8.135 | 105 | 3359178 | 510.5119 | ug/l | 98 |
| 98) | 4-Isopropyltoluene | 8.206 | 119 | 2904700 | 526.6834 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.444 | 91 | 3060431 | 475.0391 | ug/l | 98 |
| 100) | p-Diethylbenzene | 8.425 | 119 | 1662493 | 512.6475 | ug/l | 96 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 2236556 | 474.8289 | ug/l | 98 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.939 | 157 | 207307 | 457.9274 | ug/l | 81 |
| 103) | Camphor | 9.380 | 95 | 861947 | 4065.7507 | ug/l | 99 |
| 104) | Hexachlorobutadiene | 9.521 | 225 | 394464 | 528.8860 | ug/l | 99 |
| 105) | 1,2,4-Trichlorobenzene | 9.434 | 180 | 893932 | 486.9513 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.737 | 180 | 678503 | 471.2264 | ug/l | 98 |
| 107) | Naphthalene | 9.595 | 128 | 2110776 | 432.1687 | ug/l | 99 |

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


Abundance
TIC: 1M151950.D\data.ms
Quant QT Reviewed
SampleID : CAL @500 PPB
Data File: 1M151950.D
Acq On : 08/25/21 20:35
Operator : WP
Sam Mult : 1 Vial# : 7
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 08/26/21 15:29
Qt Upd On: 08/26/21 15:28
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->


Abundance
TIC: 1M151950.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
Time-->


Abundance
TIC: 1M151950.D\data.ms
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
4-Chlorotoluene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151945.D  Sam Mult : 1  Vial# : 2  Qt On : 08/26/21 15:32
Acq On : 08/25/21 19:01  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 132450 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 103467 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 53418 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 35134 | 28.37 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 94.57% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 19149 | 28.36 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 94.53% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 134431 | 33.36 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 111.20% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 43664 | 32.67 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.90% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.088 | 51 | 265 | 0.1366 | ug/l | 52 |
| 6) Dichlorodifluoromethane | 2.052 | 85 | 318m | 0.2504 | ug/l | |
| 7) Chloromethane | 2.245 | 50 | 854m | 0.4643 | ug/l | |
| 8) Bromomethane | 2.605 | 94 | 445m | 0.5238 | ug/l | |
| 9) Vinyl Chloride | 2.332 | 62 | 934m | 0.5992 | ug/l | |
| 10) Chloroethane | 2.676 | 64 | 726m | 0.7511 | ug/l | |
| 11) Trichlorofluoromethane | 2.898 | 101 | 1717m | 0.8344 | ug/l | |
| 12) Ethyl ether | 3.107 | 59 | 668m | 0.5953 | ug/l | |
| 13) Furan | 3.158 | 39 | 1808m | 0.7623 | ug/l | |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.297 | 101 | 618m | 0.6233 | ug/l | |
| 15) Methylene Chloride | 3.673 | 84 | 1287m | 0.9279 | ug/l | |
| 16) Acrolein | 3.210 | 56 | 723m | 3.6378 | ug/l | |
| 17) Acrylonitrile | 3.853 | 53 | 254m | 0.4005 | ug/l | |
| 18) Iodomethane | 3.432 | 142 | 542m | 0.4134 | ug/l | |
| 19) Acetone | 3.319 | 43 | 3004m | 6.8498 | ug/l | |
| 20) Carbon Disulfide | 3.502 | 76 | 2146m | 0.6537 | ug/l | |
| 21) t-Butyl Alcohol | 3.718 | 59 | 535m | 3.6809 | ug/l | |
| 22) n-Hexane | 4.113 | 57 | 926 | 0.6714 | ug/l | 72 |
| 23) Di-isopropyl-ether | 4.255 | 45 | 3025m | 0.6107 | ug/l | |
| 24) 1,1-Dichloroethene | 3.309 | 61 | 1884 | 0.7795 | ug/l | 83 |
| 25) Methyl Acetate | 3.583 | 43 | 1040m | 0.8795 | ug/l | |
| 26) Methyl-t-butyl ether | 3.901 | 73 | 3045 | 0.7808 | ug/l | 78 |
| 27) 1,1-Dichloroethane | 4.216 | 63 | 2071 | 0.7525 | ug/l | 77 |
| 28) trans-1,2-Dichloroethene | 3.904 | 96 | 1109 | 0.8100 | ug/l | 60 |
| 29) Ethyl-t-butyl ether | 4.502 | 59 | 2901 | 0.6316 | ug/l | 89 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 2533 | 0.8730 | ug/l | 72 |
| 31) Bromochloromethane | 4.772 | 49 | 1216m | 0.7772 | ug/l | |
| 32) 2,2-Dichloropropane | 4.625 | 77 | 1851 | 0.8292 | ug/l | 90 |
| 33) Ethyl acetate | 4.641 | 43 | 1295m | 0.7767 | ug/l | |
| 34) 1,4-Dioxane | 5.698 | 88 | 543m | 34.6339 | ug/l | |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 1487 | 0.7972 | ug/l | 74 |
| 36) Chloroform | 4.808 | 83 | 2193 | 0.8659 | ug/l | 98 |
| 38) Cyclohexane | 4.981 | 56 | 1548 | 0.7591 | ug/l | 79 |
| 40) 1,2-Dichloroethane | 5.149 | 62 | 1870 | 0.8242 | ug/l | 81 |
| 41) 2-Butanone | 4.631 | 43 | 876m | 0.8420 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.946 | 97 | 2011 | 0.8707 | ug/l | 73 |
| 43) Carbon Tetrachloride | 5.036 | 117 | 1328m | 0.7519 | ug/l | |
| 44) Vinyl Acetate | 4.245 | 43 | 3077m | 0.6388 | ug/l | |
| 45) Bromodichloromethane | 5.769 | 83 | 1472 | 0.7505 | ug/l | 58 |
| 46) Methylcyclohexane | 5.628 | 83 | 1103m | 0.7461 | ug/l | |
| 47) Dibromomethane | 5.692 | 174 | 708 | 0.8419 | ug/l | 77 |
| 48) 1,2-Dichloropropane | 5.634 | 63 | 1209 | 0.7834 | ug/l | 92 |
| 49) Trichloroethene | 5.502 | 130 | 1243 | 0.8700 | ug/l | 88 |
| 50) Benzene | 5.155 | 78 | 3944 | 0.7255 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.200 | 73 | 2703 | 0.7637 | ug/l | 86 |
| 53) Iso-propylacetate | 5.152 | 43 | 1769 | 0.7489 | ug/l | 84 |
| 54) Methyl methacrylate | 5.657 | 41 | 808m | 0.7995 | ug/l | |
| 55) Dibromochloromethane | 6.631 | 129 | 1048 | 0.8823 | ug/l | 78 |
| 56) 2-Chloroethylvinylether | 5.914 | 63 | 493 | 0.6481 | ug/l | 88 |
| 57) cis-1,3-Dichloropropene | 6.007 | 75 | 1360 | 0.7547 | ug/l | 83 |
| 58) trans-1,3-Dichloropropene | 6.297 | 75 | 1296 | 0.7549 | ug/l | 98 |
| 59) Ethyl methacrylate | 6.325 | 41 | 871 | 0.7098 | ug/l | 67 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 973 | 1.0111 | ug/l | 88 |
| 61) 1,2-Dibromoethane | 6.711 | 107 | 847 | 0.8279 | ug/l | 98 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 1668 | 0.9541 | ug/l | 80 |
| 63) 4-Methyl-2-Pentanone | 6.084 | 43 | 872 | 0.7170 | ug/l | 88 |
| 64) 2-Hexanone | 6.525 | 43 | 598 | 0.6677 | ug/l | 67 |
| 65) Tetrachloroethene | 6.512 | 164 | 961 | 1.1112 | ug/l | 82 |
| 67) Toluene | 6.200 | 92 | 2828 | 1.0365 | ug/l | 64 |

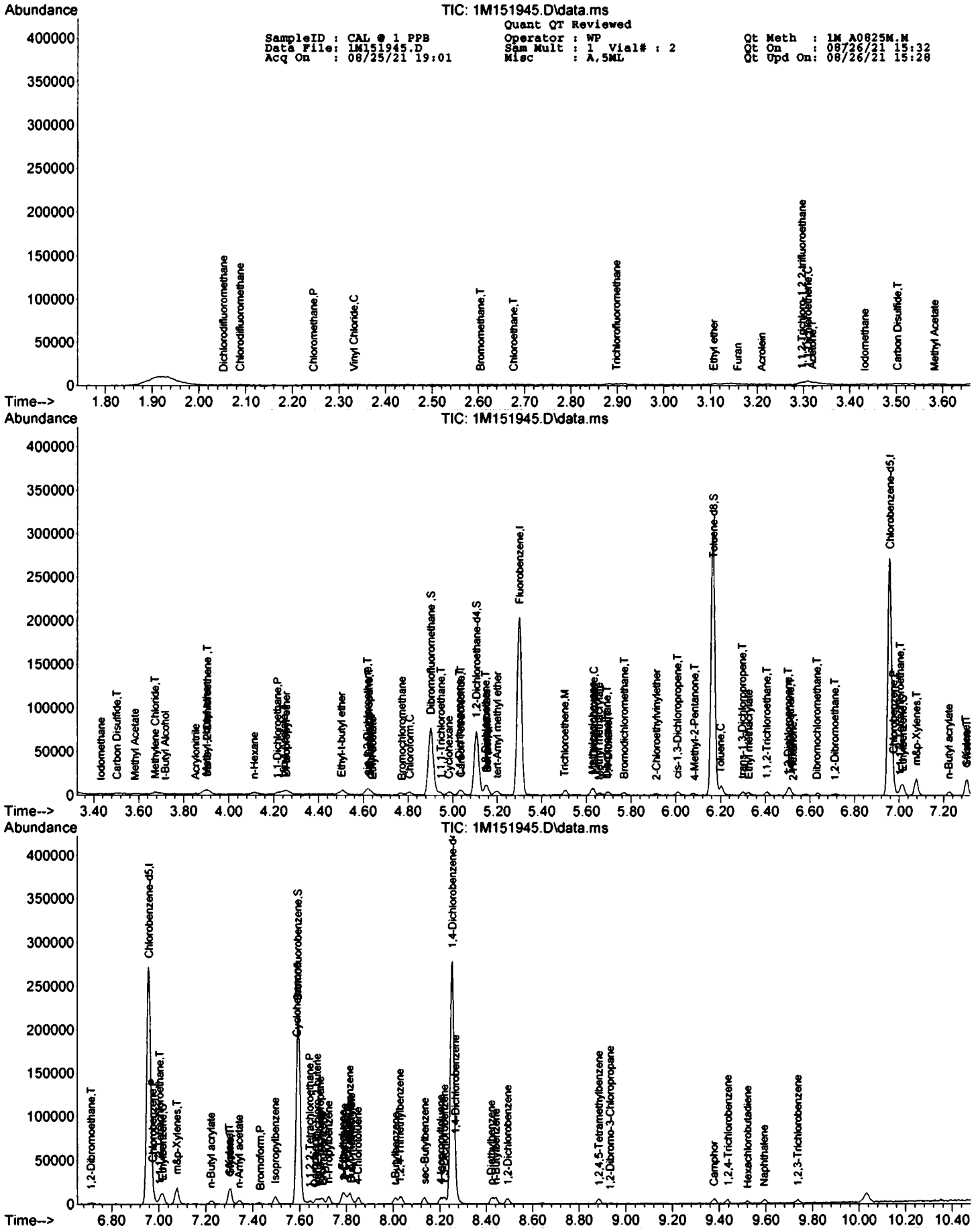
Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151945.D  Sam Mult : 1  Vial# : 2  Qt On : 08/26/21 15:32
Acq On : 08/25/21 19:01  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.004 | 133 | 957 | 0.9308 | ug/l | 87 |
| 69) | Chlorobenzene | 6.975 | 112 | 2817 | 0.9307 | ug/l | 92 |
| 71) | n-Butyl acrylate | 7.223 | 55 | 1971 | 0.7991 | ug/l | 91 |
| 72) | n-Amyl acetate | 7.341 | 43 | 1560 | 0.7280 | ug/l | 84 |
| 73) | Bromoform | 7.432 | 173 | 609m | 0.8072 | ug/l | |
| 74) | Ethylbenzene | 7.017 | 106 | 1315 | 0.9932 | ug/l | 97 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 1095 | 0.8830 | ug/l | 91 |
| 77) | Styrene | 7.303 | 104 | 3105 | 1.0210 | ug/l | 99 |
| 78) | m&p-Xylenes | 7.078 | 106 | 3544 | 1.9712 | ug/l | 88 |
| 79) | o-Xylene | 7.300 | 106 | 1749 | 1.0272 | ug/l | 78 |
| 80) | trans-1,4-Dichloro-2-b... | 7.676 | 53 | 416m | 0.6423 | ug/l | |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 2089 | 1.0425 | ug/l | 91 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 2315 | 1.1003 | ug/l | 95 |
| 83) | 1,2-Dichlorobenzene | 8.493 | 146 | 2182 | 1.1056 | ug/l | 88 |
| 84) | Isopropylbenzene | 7.496 | 105 | 4183 | 0.9700 | ug/l | 98 |
| 85) | Cyclohexanone | 7.589 | 55 | 295m | 5.3582 | ug/l | |
| 86) | Camphene | 7.666 | 93 | 1023 | 1.0270 | ug/l | 89 |
| 87) | 1,2,3-Trichloropropane | 7.689 | 75 | 1380 | 0.8514 | ug/l | 93 |
| 88) | 2-Chlorotoluene | 7.792 | 91 | 2970 | 1.0400 | ug/l | 91 |
| 89) | p-Ethyltoluene | 7.785 | 105 | 4878 | 1.1388 | ug/l | 86 |
| 90) | 4-Chlorotoluene | 7.849 | 91 | 2887 | 0.9739 | ug/l | 89 |
| 91) | n-Propylbenzene | 7.724 | 91 | 5213 | 1.0126 | ug/l | 98 |
| 92) | Bromobenzene | 7.698 | 77 | 2302 | 0.8382 | ug/l | 77 |
| 93) | 1,3,5-Trimethylbenzene | 7.814 | 105 | 3241 | 0.9487 | ug/l | 93 |
| 94) | Butyl methacrylate | 7.821 | 41 | 1421m | 0.7338 | ug/l | |
| 95) | t-Butylbenzene | 8.010 | 119 | 2901 | 0.8972 | ug/l | 99 |
| 96) | 1,2,4-Trimethylbenzene | 8.030 | 105 | 3752 | 1.0292 | ug/l | 97 |
| 97) | sec-Butylbenzene | 8.136 | 105 | 4064 | 1.0182 | ug/l | 93 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 3252 | 0.9721 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.441 | 91 | 3430 | 0.8777 | ug/l | 92 |
| 100) | p-Diethylbenzene | 8.422 | 119 | 1764 | 0.8967 | ug/l | 89 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 2498 | 0.8743 | ug/l | 91 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.933 | 157 | 128 | 0.4661 | ug/l | 85 |
| 103) | Camphor | 9.377 | 95 | 1143 | 8.8881 | ug/l | 96 |
| 104) | Hexachlorobutadiene | 9.521 | 225 | 508 | 1.1228 | ug/l | 92 |
| 105) | 1,2,4-Trichlorobenzene | 9.438 | 180 | 1202 | 1.0794 | ug/l | 90 |
| 106) | 1,2,3-Trichlorobenzene | 9.737 | 180 | 934 | 1.0694 | ug/l | 88 |
| 107) | Naphthalene | 9.592 | 128 | 2874 | 0.9701 | ug/l | 99 |

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


Abundance
TIC: 1M151945.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 1 PPB
Data File: 1M151945.D
Acq On : 08/25/21 19:01
Operator : WP
Sam Mult : 1 Vial# : 2
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 08/26/21 15:32
Qt Upd On: 08/26/21 15:28
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->

Abundance
TIC: 1M151945.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Dibromofluoromethane ,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->

Abundance
TIC: 1M151945.D\data.ms
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
1,1,2,2-Tetrachloroethane,P
Cyclohexanone,S
1,4-Dichlorobenzene-d4
1,4-Dichlorobenzene
sec-Butylbenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
1,2-Dichlorobenzene
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB
Data File: 1M151944.D
Acq On : 08/25/21 18:42
Operator : WP
Sam Mult : 1 Vial# : 1
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 08/26/21 15:36
Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 126849 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 97967 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 49740 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 33246 | 28.03 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.43% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 17207 | 26.61 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 88.70% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 126221 | 33.08 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 110.27% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 38778 | 31.16 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.87% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 0.000 | | 0 | N.D. | d | |
| 6) Dichlorodifluoromethane | 0.000 | | 0 | N.D. | | |
| 7) Chloromethane | 0.000 | | 0 | N.D. | d | |
| 8) Bromomethane | 0.000 | | 0 | N.D. | | |
| 9) Vinyl Chloride | 0.000 | | 0 | N.D. | d | |
| 10) Chloroethane | 0.000 | | 0 | N.D. | | |
| 11) Trichlorofluoromethane | 0.000 | | 0 | N.D. | d | |
| 12) Ethyl ether | 0.000 | | 0 | N.D. | d | |
| 13) Furan | 0.000 | | 0 | N.D. | d | |
| 14) 1,1,2-Trichloro-1,2,2-... | 0.000 | | 0 | N.D. | d | |
| 15) Methylene Chloride | 0.000 | | 0 | N.D. | d | |
| 16) Acrolein | 0.000 | | 0 | N.D. | d | |
| 17) Acrylonitrile | 0.000 | | 0 | N.D. | | |
| 18) Iodomethane | 0.000 | | 0 | N.D. | | |
| 19) Acetone | 0.000 | | 0 | N.D. | d | |
| 20) Carbon Disulfide | 0.000 | | 0 | N.D. | d | |
| 21) t-Butyl Alcohol | 0.000 | | 0 | N.D. | d | |
| 22) n-Hexane | 0.000 | | 0 | N.D. | d | |
| 23) Di-isopropyl-ether | 0.000 | | 0 | N.D. | d | |
| 24) 1,1-Dichloroethene | 0.000 | | 0 | N.D. | d | |
| 25) Methyl Acetate | 0.000 | | 0 | N.D. | d | |
| 26) Methyl-t-butyl ether | 3.908 | 73 | 2191m | 0.5866 | ug/l | |
| 27) 1,1-Dichloroethane | 0.000 | | 0 | N.D. | d | |
| 28) trans-1,2-Dichloroethene | 0.000 | | 0 | N.D. | d | |
| 29) Ethyl-t-butyl ether | 0.000 | | 0 | N.D. | d | |
| 30) cis-1,2-Dichloroethene | 0.000 | | 0 | N.D. | d | |
| 31) Bromochloromethane | 0.000 | | 0 | N.D. | d | |
| 32) 2,2-Dichloropropane | 0.000 | | 0 | N.D. | d | |
| 33) Ethyl acetate | 0.000 | | 0 | N.D. | d | |
| 34) 1,4-Dioxane | 0.000 | | 0 | N.D. | d | |
| 35) 1,1-Dichloropropene | 0.000 | | 0 | N.D. | d | |
| 36) Chloroform | 0.000 | | 0 | N.D. | d | |
| 38) Cyclohexane | 0.000 | | 0 | N.D. | d | |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 1238 | 0.5697 | ug/l | 94 |
| 41) 2-Butanone | 0.000 | | 0 | N.D. | d | |
| 42) 1,1,1-Trichloroethane | 0.000 | | 0 | N.D. | d | |
| 43) Carbon Tetrachloride | 0.000 | | 0 | N.D. | d | |
| 44) Vinyl Acetate | 0.000 | | 0 | N.D. | d | |
| 45) Bromodichloromethane | 0.000 | | 0 | N.D. | d | |
| 46) Methylcyclohexane | 0.000 | | 0 | N.D. | d | |
| 47) Dibromomethane | 0.000 | | 0 | N.D. | d | |
| 48) 1,2-Dichloropropane | 0.000 | | 0 | N.D. | d | |
| 49) Trichloroethene | 0.000 | | 0 | N.D. | d | |
| 50) Benzene | 5.152 | 78 | 2544 | 0.4887 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 0.000 | | 0 | N.D. | d | |
| 53) Iso-propylacetate | 0.000 | | 0 | N.D. | d | |
| 54) Methyl methacrylate | 0.000 | | 0 | N.D. | d | |
| 55) Dibromochloromethane | 0.000 | | 0 | N.D. | d | |
| 56) 2-Chloroethylvinylether | 0.000 | | 0 | N.D. | d | |
| 57) cis-1,3-Dichloropropene | 0.000 | | 0 | N.D. | d | |
| 58) trans-1,3-Dichloropropene | 0.000 | | 0 | N.D. | d | |
| 59) Ethyl methacrylate | 0.000 | | 0 | N.D. | d | |
| 60) 1,1,2-Trichloroethane | 0.000 | | 0 | N.D. | d | |
| 61) 1,2-Dibromoethane | 0.000 | | 0 | N.D. | d | |
| 62) 1,3-Dichloropropane | 0.000 | | 0 | N.D. | d | |
| 63) 4-Methyl-2-Pentanone | 0.000 | | 0 | N.D. | d | |
| 64) 2-Hexanone | 0.000 | | 0 | N.D. | d | |
| 65) Tetrachloroethene | 0.000 | | 0 | N.D. | d | |
| 67) Toluene | 0.000 | | 0 | N.D. | d | |

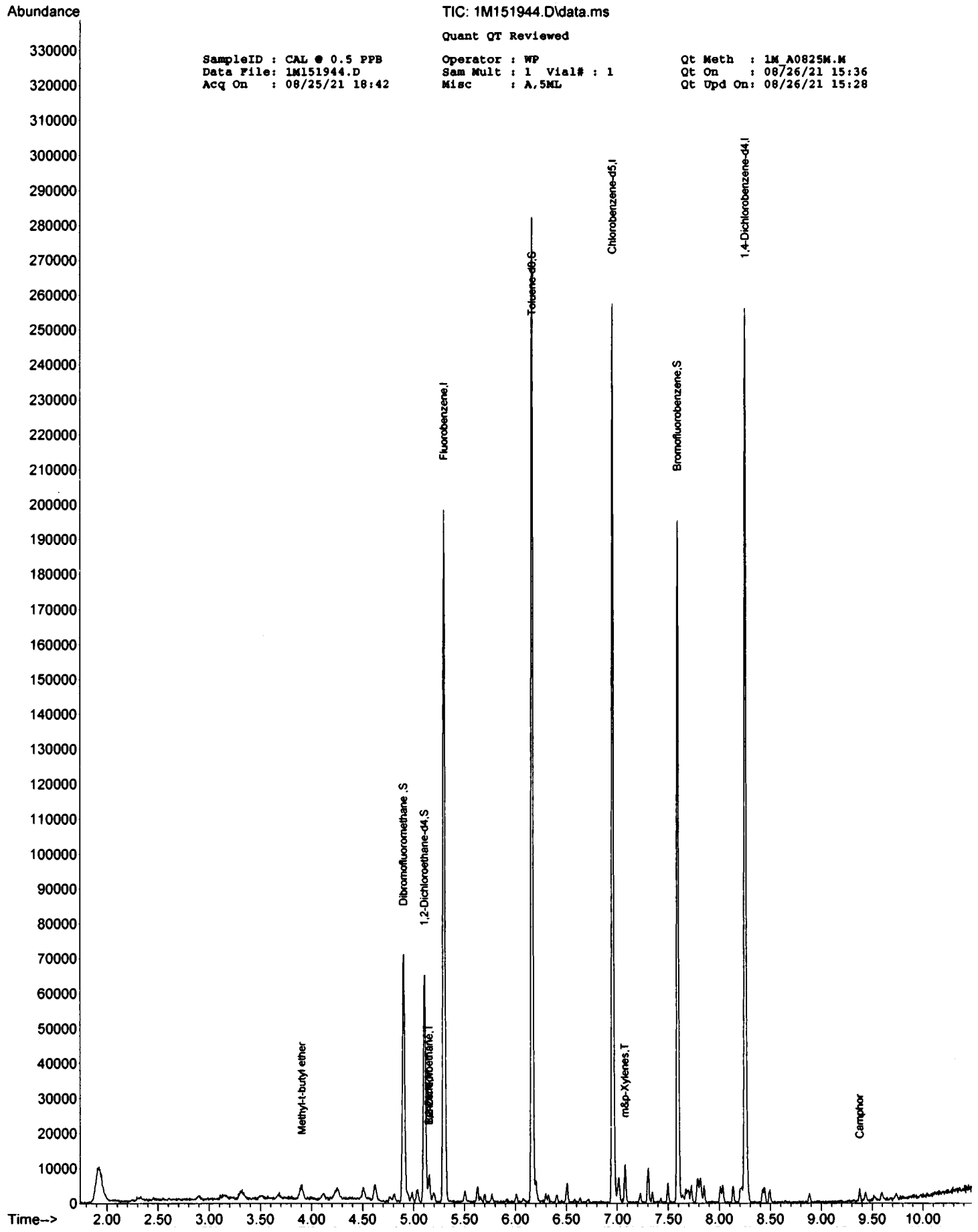
Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M151944.D  Sam Mult : 1  Vial# : 1  Qt On : 08/26/21 15:36
Acq On : 08/25/21 18:42  Misc : A,5ML  Qt Upd On: 08/26/21 15:28

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 0.000 | | 0 | N.D. d | | |
| 69) | Chlorobenzene | 0.000 | | 0 | N.D. d | | |
| 71) | n-Butyl acrylate | 0.000 | | 0 | N.D. d | | |
| 72) | n-Amyl acetate | 0.000 | | 0 | N.D. d | | |
| 73) | Bromoform | 0.000 | | 0 | N.D. d | | |
| 74) | Ethylbenzene | 0.000 | | 0 | N.D. d | | |
| 75) | 1,1,2,2-Tetrachloroethane | 0.000 | | 0 | N.D. d | | |
| 77) | Styrene | 0.000 | | 0 | N.D. d | | |
| 78) | m&p-Xylenes | 7.075 | 106 | 2111 | 1.2610 | ug/l | 85 |
| 79) | o-Xylene | 0.000 | | 0 | N.D. d | | |
| 80) | trans-1,4-Dichloro-2-b... | 0.000 | | 0 | N.D. | | |
| 81) | 1,3-Dichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 82) | 1,4-Dichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 83) | 1,2-Dichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 84) | Isopropylbenzene | 0.000 | | 0 | N.D. d | | |
| 85) | Cyclohexanone | 0.000 | | 0 | N.D. d | | |
| 86) | Camphene | 0.000 | | 0 | N.D. d | | |
| 87) | 1,2,3-Trichloropropane | 0.000 | | 0 | N.D. d | | |
| 88) | 2-Chlorotoluene | 0.000 | | 0 | N.D. d | | |
| 89) | p-Ethyltoluene | 0.000 | | 0 | N.D. d | | |
| 90) | 4-Chlorotoluene | 0.000 | | 0 | N.D. d | | |
| 91) | n-Propylbenzene | 0.000 | | 0 | N.D. d | | |
| 92) | Bromobenzene | 0.000 | | 0 | N.D. d | | |
| 93) | 1,3,5-Trimethylbenzene | 0.000 | | 0 | N.D. d | | |
| 94) | Butyl methacrylate | 0.000 | | 0 | N.D. d | | |
| 95) | t-Butylbenzene | 0.000 | | 0 | N.D. d | | |
| 96) | 1,2,4-Trimethylbenzene | 0.000 | | 0 | N.D. d | | |
| 97) | sec-Butylbenzene | 0.000 | | 0 | N.D. d | | |
| 98) | 4-Isopropyltoluene | 0.000 | | 0 | N.D. d | | |
| 99) | n-Butylbenzene | 0.000 | | 0 | N.D. d | | |
| 100) | p-Diethylbenzene | 0.000 | | 0 | N.D. d | | |
| 101) | 1,2,4,5-Tetramethylben... | 0.000 | | 0 | N.D. d | | |
| 102) | 1,2-Dibromo-3-Chloropr... | 0.000 | | 0 | N.D. | | |
| 103) | Camphor | 9.377 | 95 | 592 | 4.9438 | ug/l | 88 |
| 104) | Hexachlorobutadiene | 0.000 | | 0 | N.D. d | | |
| 105) | 1,2,4-Trichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 106) | 1,2,3-Trichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 107) | Naphthalene | 0.000 | | 0 | N.D. d | | |

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


Abundance
TIC: 1M151944.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 0.5 PPB
Data File: 1M151944.D
Acq On : 08/25/21 18:42
Operator : WP
Sam Mult : 1 Vial# : 1
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 08/26/21 15:36
Qt Upd On: 08/26/21 15:28
Methyl-t-butyl ether
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
m&p-Xylenes,T
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Camphor
Time-->

1091738 0671

Method: EPA 8260D

# Form 6
## Initial Calibration

Instrument: GCMS_2

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 2M156185.D | CAL @20 PPB | 08/31/21 21:50 | 2 | 2M156183.D | CAL @ 5 PPB | 08/31/21 21:10 |
| 3 | 2M156184.D | CAL @10 PPB | 08/31/21 21:30 | 4 | 2M156186.D | CAL @50 PPB | 08/31/21 22:09 |
| 5 | 2M156191.D | CAL @100 PPB | 08/31/21 23:47 | 6 | 2M156189.D | CAL @250 PPB | 08/31/21 23:08 |
| 7 | 2M156187.D | CAL @500 PPB | 08/31/21 22:29 | 8 | 2M156182.D | CAL @1 PPB | 08/31/21 20:51 |
| 9 | 2M156181.D | CAL @0.5 PPB | 08/31/21 20:31 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | Qua | 0.2503 | 0.2068 | 0.2141 | 0.2904 | 0.3238 | 0.3310 | 0.3150 | 0.1865 | ---- | 0.265 | 1.69 | 0.999 | 1.00 | 22 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Dichlorodifluorometha | 1 | 0 | Avg | 0.1304 | 0.1164 | 0.1240 | 0.1486 | 0.1698 | 0.1733 | 0.1657 | 0.1125 | ---- | 0.143 | 1.68 | 0.999 | 1.00 | 17 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Chloromethane | 1 | 0 | Avg | 0.1769 | 0.1901 | 0.1800 | 0.1884 | 0.2121 | 0.2173 | 0.1840 | 0.1857 | ---- | 0.192 | 1.86 | 0.993 | 0.999 | 7.7 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Bromomethane | 1 | 0 | Qua | 0.0953 | 0.1185 | 0.1077 | 0.1007 | 0.1589 | 0.1692 | 0.1470 | 0.1885 | ---- | 0.136 | 2.25 | 0.993 | 0.997 | 26 | 0.10 a | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Vinyl Chloride | 1 | 0 | Avg | 0.2039 | 0.2059 | 0.2232 | 0.2229 | 0.2264 | 0.2342 | 0.2253 | 0.1907 | ---- | 0.217 | 1.95 | 1.00 | 1.00 | 6.8 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Chloroethane | 1 | 0 | Avg | 0.1387 | 0.1564 | 0.1499 | 0.1464 | 0.1504 | 0.1574 | 0.1545 | 0.1363 | ---- | 0.149 | 2.34 | 1.00 | 1.00 | 5.3 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Trichlorofluoromethan | 1 | 0 | Avg | 0.3331 | 0.3574 | 0.3679 | 0.3668 | 0.4036 | 0.4201 | 0.4274 | 0.3210 | ---- | 0.375 | 2.56 | 1.00 | 1.00 | 10 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Ethyl ether | 1 | 0 | Avg | 0.1417 | 0.1532 | 0.1500 | 0.1547 | 0.1533 | 0.1577 | 0.1515 | 0.1522 | ---- | 0.152 | 2.80 | 1.00 | 1.00 | 3.1 | 0.50 a | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Furan | 1 | 0 | Avg | 0.2927 | 0.3004 | 0.3106 | 0.3115 | 0.3040 | 0.3117 | 0.3016 | 0.2955 | ---- | 0.304 | 2.84 | 1.00 | 1.00 | 2.4 | 0.50 a | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,1,2-Trichloro-1,2,2-tr | 1 | 0 | Avg | 0.1650 | 0.1840 | 0.1877 | 0.1806 | 0.1973 | 0.1993 | 0.2048 | 0.1647 | ---- | 0.185 | 3.00 | 1.00 | 1.00 | 8.1 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Methylene Chloride | 1 | 0 | Avg | 0.2094 | 0.2211 | 0.2239 | 0.2273 | 0.2304 | 0.2322 | 0.2218 | 0.2331 | ---- | 0.225 | 3.42 | 0.999 | 1.00 | 3.5 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Acrolein | 1 | 0 | Avg | 0.0394 | 0.0404 | 0.0410 | 0.0428 | 0.0448 | 0.0461 | 0.0459 | 0.0348 | ---- | 0.0419 | 2.92 | 1.00 | 1.00 | 9.1 | | 100.0 | 25.00 | 50.00 | 250.0 | 500.0 | 1250. | 2500. | 5.00 | |
| Acrylonitrile | 1 | 0 | Avg | 0.1105 | 0.1171 | 0.1193 | 0.1218 | 0.1199 | 0.1209 | 0.1206 | 0.1022 | ---- | 0.117 | 3.62 | 1.00 | 1.00 | 5.8 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Iodomethane | 1 | 0 | Qua | 0.1866 | 0.1410 | 0.1638 | 0.2681 | 0.2292 | 0.2900 | 0.3213 | 0.1493 | ---- | 0.219 | 3.15 | 0.986 | 0.997 | 31 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Acetone | 1 | 0 | Avg | 0.0816 | 0.0894 | 0.0923 | 0.0858 | 0.0842 | 0.0843 | 0.0813 | 0.1213 | ---- | 0.0901 | 3.04 | 1.00 | 1.00 | 15 | 0.10 a | 100.0 | 25.00 | 50.00 | 250.0 | 500.0 | 1250. | 2500. | 5.00 | |
| Carbon Disulfide | 1 | 0 | Avg | 0.5519 | 0.5435 | 0.5668 | 0.6168 | 0.6425 | 0.6554 | 0.6316 | 0.5265 | ---- | 0.592 | 3.22 | 1.00 | 1.00 | 8.5 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| t-Butyl Alcohol | 1 | 0 | Avg | 0.0311 | 0.0325 | 0.0345 | 0.0333 | 0.0359 | 0.0346 | 0.0337 | 0.0286 | ---- | 0.0331 | 3.48 | 1.00 | 1.00 | 7.0 | | 100.0 | 25.00 | 50.00 | 250.0 | 500.0 | 1250. | 2500. | 5.00 | |
| n-Hexane | 1 | 0 | Avg | 0.2016 | 0.2227 | 0.2322 | 0.2264 | 0.2280 | 0.2272 | 0.2269 | 0.2150 | ---- | 0.223 | 3.87 | 1.00 | 1.00 | 4.4 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Di-isopropyl-ether | 1 | 0 | Avg | 0.7048 | 0.7364 | 0.7585 | 0.7404 | 0.7163 | 0.7468 | 0.7417 | 0.6805 | ---- | 0.728 | 4.03 | 1.00 | 1.00 | 3.5 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,1-Dichloroethene | 1 | 0 | Avg | 0.2921 | 0.2954 | 0.3242 | 0.3169 | 0.3171 | 0.3207 | 0.3193 | 0.2756 | ---- | 0.308 | 3.01 | 1.00 | 1.00 | 5.7 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Methyl Acetate | 1 | 0 | Avg | 0.2573 | 0.2809 | 0.2716 | 0.2674 | 0.2705 | 0.2693 | 0.2599 | 0.2943 | ---- | 0.271 | 3.31 | 1.00 | 1.00 | 4.3 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Methyl-t-butyl ether | 1 | 0 | Avg | 0.5954 | 0.6212 | 0.6394 | 0.6492 | 0.6473 | 0.6696 | 0.6556 | 0.5694 | 0.7000 | 0.639 | 3.64 | 1.00 | 1.00 | 6.1 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | 0.50 |
| 1,1-Dichloroethane | 1 | 0 | Avg | 0.3642 | 0.3912 | 0.3908 | 0.3932 | 0.3840 | 0.3930 | 0.3851 | 0.3350 | ---- | 0.380 | 4.00 | 1.00 | 1.00 | 5.4 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| trans-1,2-Dichloroethe | 1 | 0 | Avg | 0.2041 | 0.2159 | 0.2234 | 0.2280 | 0.2241 | 0.2376 | 0.2342 | 0.2103 | ---- | 0.222 | 3.65 | 1.00 | 1.00 | 5.2 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Ethyl-t-butyl ether | 1 | 0 | Avg | 0.6032 | 0.6173 | 0.6390 | 0.6439 | 0.6280 | 0.6418 | 0.6271 | 0.5503 | ---- | 0.619 | 4.29 | 1.00 | 1.00 | 5.0 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| cis-1,2-Dichloroethene | 1 | 0 | Avg | 0.3786 | 0.3957 | 0.4034 | 0.4026 | 0.3876 | 0.4006 | 0.4071 | 0.3683 | ---- | 0.393 | 4.41 | 1.00 | 1.00 | 3.5 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Bromochloromethane | 1 | 0 | Avg | 0.1884 | 0.1949 | 0.2073 | 0.1986 | 0.1825 | 0.1791 | 0.1792 | 0.1766 | ---- | 0.188 | 4.56 | 1.00 | 1.00 | 5.8 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 2,2-Dichloropropane | 1 | 0 | Avg | 0.3030 | 0.3078 | 0.3186 | 0.3325 | 0.3234 | 0.3452 | 0.3519 | 0.2827 | ---- | 0.321 | 4.42 | 1.00 | 1.00 | 7.1 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Ethyl acetate | 1 | 0 | Avg | 0.2782 | 0.3126 | 0.3155 | 0.2952 | 0.2904 | 0.2893 | 0.2832 | 0.3237 | ---- | 0.299 | 4.43 | 1.00 | 1.00 | 5.6 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,4-Dioxane | 1 | 0 | Avg | 0.0039 | 0.0037 | 0.0043 | 0.0041 | 0.0043 | 0.0041 | 0.0039 | 0.0038 | ---- | 0.00406 | 5.49 | 0.999 | 1.00 | 6.0 | | 1000. | 250.0 | 500.0 | 2500. | 5000. | 12500 | 25000 | 50.00 | |
| 1,1-Dichloropropene | 1 | 0 | Avg | 0.2818 | 0.2927 | 0.3097 | 0.3028 | 0.2965 | 0.3056 | 0.3054 | 0.2934 | ---- | 0.299 | 4.82 | 1.00 | 1.00 | 3.1 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Chloroform | 1 | 0 | Avg | 0.3760 | 0.3743 | 0.4025 | 0.4100 | 0.4067 | 0.4132 | 0.4060 | 0.3472 | ---- | 0.392 | 4.61 | 1.00 | 1.00 | 6.0 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Dibromofluoromethan | 1 | 0 | Avg | 0.2670 | 0.2682 | 0.2637 | 0.2743 | 0.2821 | 0.2886 | 0.2906 | 0.2638 | 0.2615 | 0.273 | 4.70 | -1 | -1 | 4.1 | | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| Cyclohexane | 1 | 0 | Avg | 0.2850 | 0.3114 | 0.3135 | 0.3069 | 0.3128 | 0.3092 | 0.3076 | 0.3014 | ---- | 0.306 | 4.77 | 1.00 | 1.00 | 3.0 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2-Dichloroethane-d4 | 1 | 0 | Avg | 0.1487 | 0.1567 | 0.1479 | 0.1458 | 0.1436 | 0.1436 | 0.1477 | 0.1504 | 0.1517 | 0.149 | 4.91 | -1 | -1 | 2.8 | | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| 1,2-Dichloroethane | 1 | 0 | Avg | 0.3053 | 0.3172 | 0.3234 | 0.3229 | 0.3112 | 0.3211 | 0.3385 | 0.3381 | 0.3892 | 0.330 | 4.95 | 0.999 | 1.00 | 7.5 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | 0.50 |
| 2-Butanone | 1 | 0 | Avg | 0.1405 | 0.1417 | 0.1537 | 0.1515 | 0.1532 | 0.1573 | 0.1633 | 0.1559 | ---- | 0.152 | 4.42 | 1.00 | 1.00 | 5.0 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,1,1-Trichloroethane | 1 | 0 | Avg | 0.3296 | 0.3259 | 0.3483 | 0.3632 | 0.3706 | 0.3850 | 0.3806 | 0.3005 | ---- | 0.351 | 4.73 | 1.00 | 1.00 | 8.5 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Carbon Tetrachloride | 1 | 0 | Avg | 0.2791 | 0.2790 | 0.3020 | 0.3182 | 0.3370 | 0.3578 | 0.3585 | 0.2599 | ---- | 0.311 | 4.83 | 1.00 | 1.00 | 12 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Vinyl Acetate | 1 | 0 | Avg | 0.7627 | 0.7760 | 0.8127 | 0.8227 | 0.8008 | 0.8347 | 0.8267 | 0.7152 | ---- | 0.794 | 4.02 | 1.00 | 1.00 | 5.1 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Bromodichloromethan | 1 | 0 | Avg | 0.2890 | 0.2898 | 0.3021 | 0.3241 | 0.3219 | 0.3346 | 0.3322 | 0.2684 | ---- | 0.308 | 5.57 | 1.00 | 1.00 | 7.8 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |

***Flags***

***a - failed the min rf criteria***

***c - failed the minimum correlation coeff criteria(if applicable)***

Avg Rsd: 6.894

***Note:***

***Corr 1 = Correlation Coefficient for linear Eq.***

***Corr 2 = Correlation Coefficient for quad Eq.***

***Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.***

1091738 0672

Method: EPA 8260D

# Form 6
## Initial Calibration

Instrument: GCMS_2

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 2M156185.D | CAL @20 PPB | 08/31/21 21:50 | 2 | 2M156183.D | CAL @ 5 PPB | 08/31/21 21:10 |
| 3 | 2M156184.D | CAL @10 PPB | 08/31/21 21:30 | 4 | 2M156186.D | CAL @50 PPB | 08/31/21 22:09 |
| 5 | 2M156191.D | CAL @100 PPB | 08/31/21 23:47 | 6 | 2M156189.D | CAL @250 PPB | 08/31/21 23:08 |
| 7 | 2M156187.D | CAL @500 PPB | 08/31/21 22:29 | 8 | 2M156182.D | CAL @1 PPB | 08/31/21 20:51 |
| 9 | 2M156181.D | CAL @0.5 PPB | 08/31/21 20:31 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Methylcyclohexane | 1 | 0 | Avg | 0.2424 | 0.2597 | 0.2795 | 0.2727 | 0.2774 | 0.2807 | 0.2813 | 0.2582 | ---- | 0.269 | 5.41 | 1.00 | 1.00 | 5.2 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Dibromomethane | 1 | 0 | Avg | 0.1614 | 0.1672 | 0.1726 | 0.1875 | 0.1959 | 0.2150 | 0.2138 | 0.1530 | ---- | 0.183 | 5.50 | 1.00 | 1.00 | 13 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2-Dichloropropane | 1 | 0 | Avg | 0.2193 | 0.2282 | 0.2353 | 0.2323 | 0.2213 | 0.2302 | 0.2294 | 0.2082 | ---- | 0.226 | 5.43 | 1.00 | 1.00 | 3.9 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Trichloroethene | 1 | 0 | Avg | 0.2313 | 0.2358 | 0.2489 | 0.2609 | 0.2614 | 0.2719 | 0.2681 | 0.2062 | ---- | 0.248 | 5.30 | 1.00 | 1.00 | 9.0 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Benzene | 1 | 0 | Avg | 0.8299 | 0.8803 | 0.8918 | 0.8807 | 0.8587 | 0.8748 | 0.8601 | 0.8309 | 0.9706 | 0.875 | 4.95 | 1.00 | 1.00 | 4.8 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | 0.50 |
| tert-Amyl methyl ether | 1 | 0 | Avg | 0.6019 | 0.6230 | 0.6518 | 0.6640 | 0.6417 | 0.6555 | 0.6364 | 0.6032 | ---- | 0.635 | 4.99 | 1.00 | 1.00 | 3.7 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Iso-propylacetate | 1 | 0 | Avg | 0.7034 | 0.7540 | 0.7573 | 0.7030 | 0.7002 | 0.7140 | 0.7263 | 0.8260 | ---- | 0.736 | 4.95 | 1.00 | 1.00 | 5.8 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Methyl methacrylate | 1 | 0 | Avg | 0.3156 | 0.3148 | 0.3553 | 0.3154 | 0.3147 | 0.3111 | 0.3064 | 0.3054 | ---- | 0.317 | 5.45 | 1.00 | 1.00 | 5.0 | 0.50 a | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Dibromochloromethan | 1 | 0 | Avg | 0.3182 | 0.2963 | 0.3150 | 0.3588 | 0.3736 | 0.3921 | 0.3858 | 0.2468 | ---- | 0.336 | 6.42 | 1.00 | 1.00 | 15 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 2-Chloroethylvinylethe | 1 | 0 | Avg | 0.2288 | 0.2317 | 0.2439 | 0.2289 | 0.2179 | 0.2208 | 0.2124 | 0.2123 | ---- | 0.225 | 5.71 | 1.00 | 1.00 | 4.8 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| cis-1,3-Dichloropropen | 1 | 0 | Avg | 0.4740 | 0.4606 | 0.4893 | 0.4904 | 0.4828 | 0.4845 | 0.4788 | 0.4087 | ---- | 0.471 | 5.80 | 1.00 | 1.00 | 5.7 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| trans-1,3-Dichloroprop | 1 | 0 | Avg | 0.4310 | 0.4035 | 0.4462 | 0.4608 | 0.4583 | 0.4667 | 0.4665 | 0.3637 | ---- | 0.437 | 6.09 | 1.00 | 1.00 | 8.4 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Ethyl methacrylate | 1 | 0 | Avg | 0.3217 | 0.3250 | 0.3348 | 0.3274 | 0.3221 | 0.3232 | 0.3244 | 0.3174 | ---- | 0.325 | 6.10 | 1.00 | 1.00 | 1.6 | 0.50 a | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,1,2-Trichloroethane | 1 | 0 | Avg | 0.2804 | 0.2945 | 0.2937 | 0.2897 | 0.2826 | 0.2889 | 0.2807 | 0.2852 | ---- | 0.287 | 6.20 | 1.00 | 1.00 | 1.9 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2-Dibromoethane | 1 | 0 | Avg | 0.3062 | 0.3084 | 0.3258 | 0.3289 | 0.3245 | 0.3301 | 0.3213 | 0.2631 | ---- | 0.314 | 6.49 | 1.00 | 1.00 | 7.1 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,3-Dichloropropane | 1 | 0 | Avg | 0.4806 | 0.5047 | 0.5035 | 0.4787 | 0.4659 | 0.4651 | 0.4659 | 0.4728 | ---- | 0.480 | 6.29 | 1.00 | 1.00 | 3.4 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 4-Methyl-2-Pentanone | 1 | 0 | Avg | 0.3875 | 0.3980 | 0.4293 | 0.3917 | 0.3899 | 0.3823 | 0.3775 | 0.3778 | ---- | 0.392 | 5.87 | 1.00 | 1.00 | 4.3 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 2-Hexanone | 1 | 0 | Avg | 0.2831 | 0.3008 | 0.3020 | 0.2865 | 0.2830 | 0.2804 | 0.2794 | 0.3298 | ---- | 0.293 | 6.30 | 1.00 | 1.00 | 5.9 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Tetrachloroethene | 1 | 0 | Avg | 0.2433 | 0.2561 | 0.2616 | 0.2700 | 0.2862 | 0.2890 | 0.2974 | 0.2381 | ---- | 0.268 | 6.29 | 1.00 | 1.00 | 8.2 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Toluene-d8 | 1 | 0 | Avg | 1.3249 | 1.3459 | 1.3253 | 1.2850 | 1.2635 | 1.2494 | 1.2644 | 1.3305 | 1.3343 | 1.30 | 5.95 | -1 | -1 | 2.8 | | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| Toluene | 1 | 0 | Avg | 0.7341 | 0.7554 | 0.7853 | 0.7696 | 0.7594 | 0.7574 | 0.7308 | 0.6762 | ---- | 0.746 | 5.99 | 1.00 | 1.00 | 4.5 | 0.40 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,1,1,2-Tetrachloroeth | 1 | 0 | Avg | 0.2849 | 0.2755 | 0.2911 | 0.3076 | 0.3225 | 0.3280 | 0.3395 | 0.2262 | ---- | 0.297 | 6.78 | 1.00 | 1.00 | 12 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Chlorobenzene | 1 | 0 | Avg | 0.8013 | 0.8160 | 0.8471 | 0.8473 | 0.8637 | 0.8628 | 0.8278 | 0.7661 | ---- | 0.829 | 6.74 | 1.00 | 1.00 | 4.1 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| n-Butyl acrylate | 1 | 0 | Avg | 1.2618 | 1.2981 | 1.3768 | 1.2699 | 1.2021 | 1.2801 | 1.2923 | 1.1741 | ---- | 1.27 | 6.99 | 1.00 | 1.00 | 4.9 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| n-Amyl acetate | 1 | 0 | Avg | 1.2212 | 1.2639 | 1.3854 | 1.1964 | 1.1438 | 1.2243 | 1.2341 | 1.2952 | ---- | 1.25 | 7.11 | 1.00 | 1.00 | 5.8 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Bromoform | 1 | 0 | Avg | 0.5052 | 0.4375 | 0.5206 | 0.6074 | 0.6306 | 0.6869 | 0.6823 | 0.4164 | ---- | 0.561 | 7.20 | 1.00 | 1.00 | 19 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Ethylbenzene | 1 | 0 | Avg | 0.7069 | 0.7736 | 0.7910 | 0.6954 | 0.7095 | 0.7321 | 0.7780 | 0.7549 | ---- | 0.743 | 6.79 | 0.999 | 1.00 | 4.9 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,1,2,2-Tetrachloroeth | 1 | 0 | Avg | 0.8307 | 0.9049 | 0.9625 | 0.8437 | 0.7829 | 0.8059 | 0.7956 | 0.8606 | ---- | 0.848 | 7.42 | 1.00 | 1.00 | 7.1 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Bromofluorobenzene | 1 | 0 | Avg | 0.8674 | 0.9008 | 0.8774 | 0.8996 | 0.9073 | 0.9505 | 0.9762 | 0.9151 | 0.9147 | 0.912 | 7.36 | -1 | -1 | 3.7 | | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| Styrene | 1 | 0 | Avg | 1.7158 | 1.8050 | 1.9189 | 1.7895 | 1.7504 | 1.8138 | 1.8672 | 1.7514 | ---- | 1.80 | 7.07 | 1.00 | 1.00 | 3.7 | 0.30 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| m&p-Xylenes | 1 | 0 | Avg | 1.0190 | 1.1434 | 1.1807 | 1.0466 | 1.0136 | 1.0294 | 1.0641 | 1.1109 | 1.3284 | 1.10 | 6.84 | 1.00 | 1.00 | 9.3 | 0.10 | 40.00 | 10.00 | 20.00 | 100.0 | 200.0 | 500.0 | 1000. | 2.00 | 1.00 |
| o-Xylene | 1 | 0 | Avg | 1.0002 | 1.0551 | 1.1289 | 1.0435 | 1.0067 | 1.0452 | 1.0870 | 1.0759 | ---- | 1.06 | 7.07 | 1.00 | 1.00 | 4.0 | 0.30 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| trans-1,4-Dichloro-2-b | 1 | 0 | Avg | 0.3344 | 0.3518 | 0.3931 | 0.3395 | 0.3212 | 0.3480 | 0.3678 | 0.4176 | ---- | 0.359 | 7.44 | 0.999 | 1.00 | 9.0 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,3-Dichlorobenzene | 1 | 0 | Avg | 1.1618 | 1.1407 | 1.2237 | 1.2182 | 1.2216 | 1.2416 | 1.2022 | 1.1044 | ---- | 1.19 | 7.98 | 1.00 | 1.00 | 4.1 | 0.60 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,4-Dichlorobenzene | 1 | 0 | Avg | 1.1672 | 1.1737 | 1.2499 | 1.2252 | 1.2318 | 1.2620 | 1.2128 | 1.2117 | ---- | 1.22 | 8.03 | 1.00 | 1.00 | 2.7 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2-Dichlorobenzene | 1 | 0 | Avg | 1.1167 | 1.0833 | 1.1736 | 1.1544 | 1.1609 | 1.1863 | 1.1361 | 1.1181 | ---- | 1.14 | 8.26 | 1.00 | 1.00 | 3.0 | 0.40 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Isopropylbenzene | 1 | 0 | Avg | 2.3616 | 2.5127 | 2.6922 | 2.4827 | 2.4163 | 2.4731 | 2.3708 | 2.3086 | ---- | 2.45 | 7.26 | 1.00 | 1.00 | 4.9 | 0.10 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Cyclohexanone | 1 | 0 | Avg | 0.0377 | 0.0428 | 0.0447 | 0.0345 | 0.0301 | 0.0323 | 0.0316 | 0.0436 | ---- | 0.0372 | 7.34 | 1.00 | 1.00 | 16 | | 100.0 | 25.00 | 50.00 | 250.0 | 500.0 | 1250. | 2500. | 5.00 | |
| Camphene | 1 | 0 | Avg | 0.5583 | 0.6055 | 0.6692 | 0.5814 | 0.5742 | 0.5955 | 0.5998 | 0.5894 | ---- | 0.597 | 7.43 | 1.00 | 1.00 | 5.5 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2,3-Trichloropropane | 1 | 0 | Avg | 1.0511 | 1.0981 | 1.1899 | 1.0651 | 1.0235 | 1.0773 | 1.1030 | 1.0634 | ---- | 1.08 | 7.45 | 1.00 | 1.00 | 4.6 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 2-Chlorotoluene | 1 | 0 | Avg | 1.3922 | 1.6116 | 1.6511 | 1.4948 | 1.4158 | 1.4166 | 1.4090 | 1.4523 | ---- | 1.48 | 7.56 | 1.00 | 1.00 | 6.7 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |

Avg Rsd: 6.894

***Flags***

***a - failed the min rf criteria***

***c - failed the minimum correlation coeff criteria(if applicable)***

***Note:***

***Corr 1 = Correlation Coefficient for linear Eq.***

***Corr 2 = Correlation Coefficient for quad Eq.***

***Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.***

1091738 0673

Method: EPA 8260D

# Form 6
## Initial Calibration

Instrument: GCMS_2

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 2M156185.D | CAL @20 PPB | 08/31/21 21:50 | 2 | 2M156183.D | CAL @ 5 PPB | 08/31/21 21:10 |
| 3 | 2M156184.D | CAL @10 PPB | 08/31/21 21:30 | 4 | 2M156186.D | CAL @50 PPB | 08/31/21 22:09 |
| 5 | 2M156191.D | CAL @100 PPB | 08/31/21 23:47 | 6 | 2M156189.D | CAL @250 PPB | 08/31/21 23:08 |
| 7 | 2M156187.D | CAL @500 PPB | 08/31/21 22:29 | 8 | 2M156182.D | CAL @1 PPB | 08/31/21 20:51 |
| 9 | 2M156181.D | CAL @0.5 PPB | 08/31/21 20:31 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| p-Ethyltoluene | 1 | 0 | Avg | 2.4560 | 2.6351 | 2.8023 | 2.2728 | 2.2197 | 2.5098 | 2.4177 | 2.4647 | ---- | 2.47 | 7.54 | 0.999 | 0.999 | 7.5 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 4-Chlorotoluene | 1 | 0 | Avg | 1.4605 | 1.5924 | 1.6256 | 1.4378 | 1.4025 | 1.4254 | 1.4812 | 1.4723 | ---- | 1.49 | 7.62 | 1.00 | 1.00 | 5.4 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| n-Propylbenzene | 1 | 0 | Avg | 2.6689 | 2.9432 | 3.0500 | 2.7389 | 2.6339 | 2.6915 | 2.5573 | 2.8166 | ---- | 2.76 | 7.49 | 0.999 | 1.00 | 6.0 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Bromobenzene | 1 | 0 | Avg | 1.5352 | 1.6760 | 1.7487 | 1.5246 | 1.4488 | 1.5053 | 1.5292 | 1.7545 | ---- | 1.59 | 7.46 | 1.00 | 1.00 | 7.4 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,3,5-Trimethylbenzen | 1 | 0 | Avg | 1.5867 | 1.6840 | 1.8041 | 1.8767 | 1.8468 | 1.6647 | 1.7624 | 1.6297 | ---- | 1.73 | 7.57 | 0.999 | 0.999 | 6.1 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Butyl methacrylate | 1 | 0 | Avg | 0.8483 | 0.9026 | 0.9664 | 0.8368 | 0.7962 | 0.9000 | 0.9389 | 0.7502 | ---- | 0.867 | 7.58 | 0.999 | 1.00 | 8.4 | 0.50 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| t-Butylbenzene | 1 | 0 | Avg | 1.7310 | 1.7522 | 1.9145 | 1.8243 | 1.8037 | 1.8589 | 1.8060 | 1.7122 | ---- | 1.80 | 7.77 | 1.00 | 1.00 | 3.8 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2,4-Trimethylbenzen | 1 | 0 | Avg | 1.9093 | 1.9995 | 2.0747 | 1.9206 | 1.8899 | 1.9460 | 1.8697 | 2.1753 | ---- | 1.97 | 7.79 | 1.00 | 1.00 | 5.3 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| sec-Butylbenzene | 1 | 0 | Avg | 2.0517 | 2.1194 | 2.3355 | 2.1150 | 2.0918 | 2.1685 | 2.0654 | 2.0085 | ---- | 2.12 | 7.89 | 0.999 | 1.00 | 4.7 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 4-Isopropyltoluene | 1 | 0 | Avg | 1.7117 | 1.7205 | 1.8680 | 1.7941 | 1.8027 | 1.8425 | 1.7678 | 1.7126 | ---- | 1.78 | 7.96 | 1.00 | 1.00 | 3.4 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| n-Butylbenzene | 1 | 0 | Avg | 1.8018 | 1.9171 | 2.0560 | 1.8406 | 1.7782 | 1.8394 | 1.7697 | 1.9400 | ---- | 1.87 | 8.20 | 1.00 | 1.00 | 5.2 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| p-Diethylbenzene | 1 | 0 | Avg | 0.9625 | 0.9748 | 1.0682 | 1.0300 | 1.0189 | 1.0597 | 1.0262 | 1.0283 | ---- | 1.02 | 8.18 | 1.00 | 1.00 | 3.6 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2,4,5-Tetramethylbe | 1 | 0 | Avg | 1.1931 | 1.1643 | 1.2857 | 1.2791 | 1.2808 | 1.3255 | 1.2737 | 1.2173 | ---- | 1.25 | 8.65 | 1.00 | 1.00 | 4.4 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2-Dibromo-3-Chloro | 1 | 0 | Avg | 0.1965 | 0.1709 | 0.1985 | 0.2196 | 0.2394 | 0.2563 | 0.2551 | 0.1630 | ---- | 0.212 | 8.71 | 1.00 | 1.00 | 17 | 0.05 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Camphor | 1 | 0 | Avg | 0.0894 | 0.0870 | 0.1007 | 0.0905 | 0.0920 | 0.0937 | 0.0920 | 0.0852 | 0.1247 | 0.0951 | 9.14 | 1.00 | 1.00 | 13 | | 200.0 | 50.00 | 100.0 | 500.0 | 1000. | 2500. | 5000. | 10.00 | 5.00 |
| Hexachlorobutadiene | 1 | 0 | Avg | 0.2419 | 0.2468 | 0.2658 | 0.2847 | 0.3311 | 0.3413 | 0.3233 | 0.2897 | ---- | 0.291 | 9.27 | 0.999 | 1.00 | 13 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2,4-Trichlorobenzen | 1 | 0 | Avg | 0.5283 | 0.5323 | 0.5625 | 0.6106 | 0.6278 | 0.6717 | 0.6433 | 0.5303 | ---- | 0.588 | 9.20 | 0.999 | 1.00 | 9.7 | 0.20 | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| 1,2,3-Trichlorobenzen | 1 | 0 | Avg | 0.4737 | 0.4693 | 0.5216 | 0.5391 | 0.5570 | 0.5877 | 0.5546 | 0.5246 | ---- | 0.528 | 9.49 | 0.999 | 1.00 | 7.7 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |
| Naphthalene | 1 | 0 | Avg | 1.7557 | 1.6677 | 1.9021 | 1.8759 | 1.9377 | 1.9738 | 1.8487 | 1.7404 | ---- | 1.84 | 9.35 | 0.999 | 1.00 | 5.8 | | 20.00 | 5.00 | 10.00 | 50.00 | 100.0 | 250.0 | 500.0 | 1.00 | |

| *Flags* | *Note:* Avg Rsd: 6.894 |
|---|---|
| *a - failed the min rf criteria* | *Corr 1 = Correlation Coefficient for linear Eq.* |
| *c - failed the minimum correlation coeff criteria(if applicable)* | *Corr 2 = Correlation Coefficient for quad Eq.* |
| | *Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.* |

SampleID : CAL @20 PPB Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M156185.D Sam Mult : 1 Vial# : 7 Qt On : 08/31/21 22:45
Acq On : 08/31/21 21:50 Misc : A,5ML Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 298016 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 214495 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 106962 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.703 | 111 | 79578 | 28.99 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.63% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 44331 | 34.97 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 116.57% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 284184 | 32.45 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.17% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 92783 | 27.61 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 92.03% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 49737 | 27.3086 | ug/l | 55 |
| 6) Dichlorodifluoromethane | 1.685 | 85 | 25916 | 19.4294 | ug/l | 99 |
| 7) Chloromethane | 1.862 | 50 | 35148 | 21.5330 | ug/l | 100 |
| 8) Bromomethane | 2.252 | 94 | 18941 | 16.9844 | ug/l | 88 |
| 9) Vinyl Chloride | 1.953 | 62 | 40521 | 22.9868 | ug/l | 98 |
| 10) Chloroethane | 2.343 | 64 | 27560 | 24.9628 | ug/l | 99 |
| 11) Trichlorofluoromethane | 2.563 | 101 | 66197 | 23.8272 | ug/l | 99 |
| 12) Ethyl ether | 2.800 | 59 | 28159 | 18.4451 | ug/l | 96 |
| 13) Furan | 2.843 | 39 | 58162 | 23.4429 | ug/l | 88 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.002 | 101 | 32800 | 27.0767 | ug/l | 94 |
| 15) Methylene Chloride | 3.416 | 84 | 41606 | 21.4766 | ug/l | 87 |
| 16) Acrolein | 2.916 | 56 | 39233 | 120.3685 | ug/l | 99 |
| 17) Acrylonitrile | 3.617 | 53 | 21972 | 24.9599 | ug/l | 96 |
| 18) Iodomethane | 3.148 | 142 | 37078 | 15.5513 | ug/l | 99 |
| 19) Acetone | 3.044 | 43 | 81074 | 118.6012 | ug/l | 100 |
| 20) Carbon Disulfide | 3.215 | 76 | 109664 | 22.2466 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.483 | 59 | 30964 | 132.2141 | ug/l | 90 |
| 22) n-Hexane | 3.873 | 57 | 40063 | 34.1270 | ug/l | 94 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 140034 | 28.1325 | ug/l | 89 |
| 24) 1,1-Dichloroethene | 3.008 | 61 | 58034 | 26.5919 | ug/l | 93 |
| 25) Methyl Acetate | 3.319 | 43 | 51136 | 27.6384 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 118309 | 25.1447 | ug/l | 92 |
| 27) 1,1-Dichloroethane | 4.001 | 63 | 72373 | 24.5370 | ug/l | 98 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 40556 | 21.3800 | ug/l | 89 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 119861 | 22.7580 | ug/l | 95 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 75220 | 24.9535 | ug/l | 90 |
| 31) Bromochloromethane | 4.568 | 49 | 37432 | 26.4657 | ug/l | 85 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 60203 | 24.1598 | ug/l | 98 |
| 33) Ethyl acetate | 4.434 | 43 | 55284m | 24.8398 | ug/l | |
| 34) 1,4-Dioxane | 5.489 | 88 | 39535 | 1141.4016 | ug/l | 92 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 55987 | 24.3017 | ug/l | 99 |
| 36) Chloroform | 4.605 | 83 | 74706 | 23.0114 | ug/l | 99 |
| 38) Cyclohexane | 4.770 | 56 | 56625 | 30.2911 | ug/l | 89 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 60660 | 24.8001 | ug/l | 99 |
| 41) 2-Butanone | 4.410 | 43 | 27925m | 26.5393 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 65499 | 22.0255 | ug/l | 99 |
| 43) Carbon Tetrachloride | 4.831 | 117 | 55457 | 20.1255 | ug/l | 97 |
| 44) Vinyl Acetate | 4.026 | 43 | 151538 | 28.4860 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 57435 | 22.1243 | ug/l | 96 |
| 46) Methylcyclohexane | 5.416 | 83 | 48173 | 23.4896 | ug/l | 93 |
| 47) Dibromomethane | 5.495 | 174 | 32082 | 15.5863 | ug/l | 95 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 43572 | 25.0006 | ug/l | 98 |
| 49) Trichloroethene | 5.300 | 130 | 45957 | 18.9746 | ug/l | 94 |
| 50) Benzene | 4.946 | 78 | 164892 | 24.2583 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 119601 | 23.2398 | ug/l | 97 |
| 53) Iso-propylacetate | 4.946 | 43 | 100585 | 28.0785 | ug/l | 91 |
| 54) Methyl methacrylate | 5.452 | 41 | 45131 | 28.9717 | ug/l | 89 |
| 55) Dibromochloromethane | 6.422 | 129 | 45510 | 20.0168 | ug/l | 97 |
| 56) 2-Chloroethylvinylether | 5.708 | 63 | 32718 | 31.0358 | ug/l | 97 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 67780 | 25.3514 | ug/l | 98 |
| 58) trans-1,3-Dichloropropene | 6.093 | 75 | 61644 | 25.0904 | ug/l | 99 |
| 59) Ethyl methacrylate | 6.111 | 41 | 46002 | 29.9579 | ug/l | 85 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 40102 | 23.2050 | ug/l | 93 |
| 61) 1,2-Dibromoethane | 6.501 | 107 | 43788 | 22.3699 | ug/l | 95 |
| 62) 1,3-Dichloropropane | 6.288 | 76 | 68733 | 25.4615 | ug/l | 96 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 55414 | 29.7024 | ug/l | 96 |
| 64) 2-Hexanone | 6.306 | 43 | 40487 | 30.4534 | ug/l | 92 |
| 65) Tetrachloroethene | 6.288 | 164 | 34791 | 18.2736 | ug/l | 95 |
| 67) Toluene | 5.989 | 92 | 104974 | 24.1698 | ug/l | 98 |

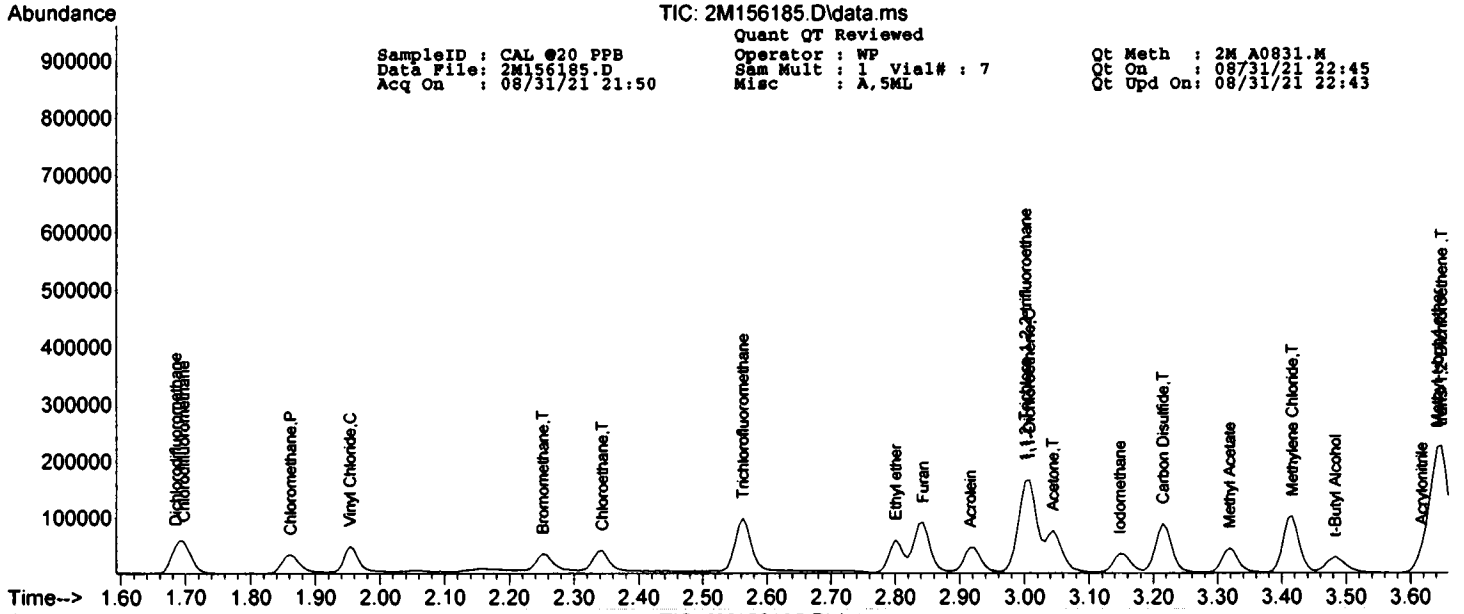
Quantitation Report (QT Reviewed)

SampleID : CAL @20 PPB Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M156185.D Sam Mult : 1 Vial# : 7 Qt On : 08/31/21 22:45
Acq On : 08/31/21 21:50 Misc : A,5ML Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 6.787 | 133 | 40750 | 20.3538 | ug/l | 100 |
| 69) | Chlorobenzene | 6.751 | 112 | 114583 | 21.8917 | ug/l | 99 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 89982 | 29.1138 | ug/l | 97 |
| 72) | n-Amyl acetate | 7.111 | 43 | 87083 | 32.0140 | ug/l | 93 |
| 73) | Bromoform | 7.202 | 173 | 36026 | 18.4935 | ug/l | 96 |
| 74) | Ethylbenzene | 6.794 | 106 | 50413 | 24.7633 | ug/l | 96 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.422 | 83 | 59237 | 26.1776 | ug/l | 99 |
| 77) | Styrene | 7.074 | 104 | 122350 | 24.3217 | ug/l | 91 |
| 78) | m&p-Xylenes | 6.848 | 106 | 145331 | 50.4598 | ug/l | 94 |
| 79) | o-Xylene | 7.074 | 106 | 71322 | 24.8658 | ug/l | 96 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 23848 | 30.0222 | ug/l | 91 |
| 81) | 1,3-Dichlorobenzene | 7.989 | 146 | 82851 | 21.8164 | ug/l | 98 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 83232 | 21.5595 | ug/l | 99 |
| 83) | 1,2-Dichlorobenzene | 8.263 | 146 | 79636 | 22.1418 | ug/l | 98 |
| 84) | Isopropylbenzene | 7.263 | 105 | 168406 | 24.8236 | ug/l | 99 |
| 85) | Cyclohexanone | 7.342 | 55 | 13470 | 150.1021 | ug/l | 93 |
| 86) | Camphene | 7.434 | 93 | 39817 | 23.6542 | ug/l | 97 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 74954 | 27.0190 | ug/l | 97 |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 99280 | 24.8534 | ug/l | 98 |
| 89) | p-Ethyltoluene | 7.550 | 105 | 175134 | 25.4538 | ug/l | 93 |
| 90) | 4-Chlorotoluene | 7.617 | 91 | 104145 | 25.4851 | ug/l | 98 |
| 91) | n-Propylbenzene | 7.489 | 91 | 190320 | 26.0736 | ug/l | 99 |
| 92) | Bromobenzene | 7.464 | 77 | 109474 | 27.0768 | ug/l | 95 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 113150 | 22.1550 | ug/l | 89 |
| 94) | Butyl methacrylate | 7.586 | 41 | 60497 | 32.5405 | ug/l | 85 |
| 95) | t-Butylbenzene | 7.775 | 119 | 123440 | 23.3486 | ug/l | 98 |
| 96) | 1,2,4-Trimethylbenzene | 7.800 | 105 | 136150 | 25.0582 | ug/l | 98 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 146307 | 24.3897 | ug/l | 98 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 122059 | 22.7874 | ug/l | 99 |
| 99) | n-Butylbenzene | 8.208 | 91 | 128483 | 25.6930 | ug/l | 98 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 68636 | 22.1476 | ug/l | 95 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 85080 | 19.9227 | ug/l | 95 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 14014 | 18.4045 | ug/l | 87 |
| 103) | Camphor | 9.141 | 95 | 63777 | 238.4738 | ug/l | 99 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 17256 | 14.7674 | ug/l | 95 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 37675 | 16.4861 | ug/l | 99 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 33781 | 16.6025 | ug/l | 98 |
| 107) | Naphthalene | 9.360 | 128 | 125202 | 21.1164 | ug/l | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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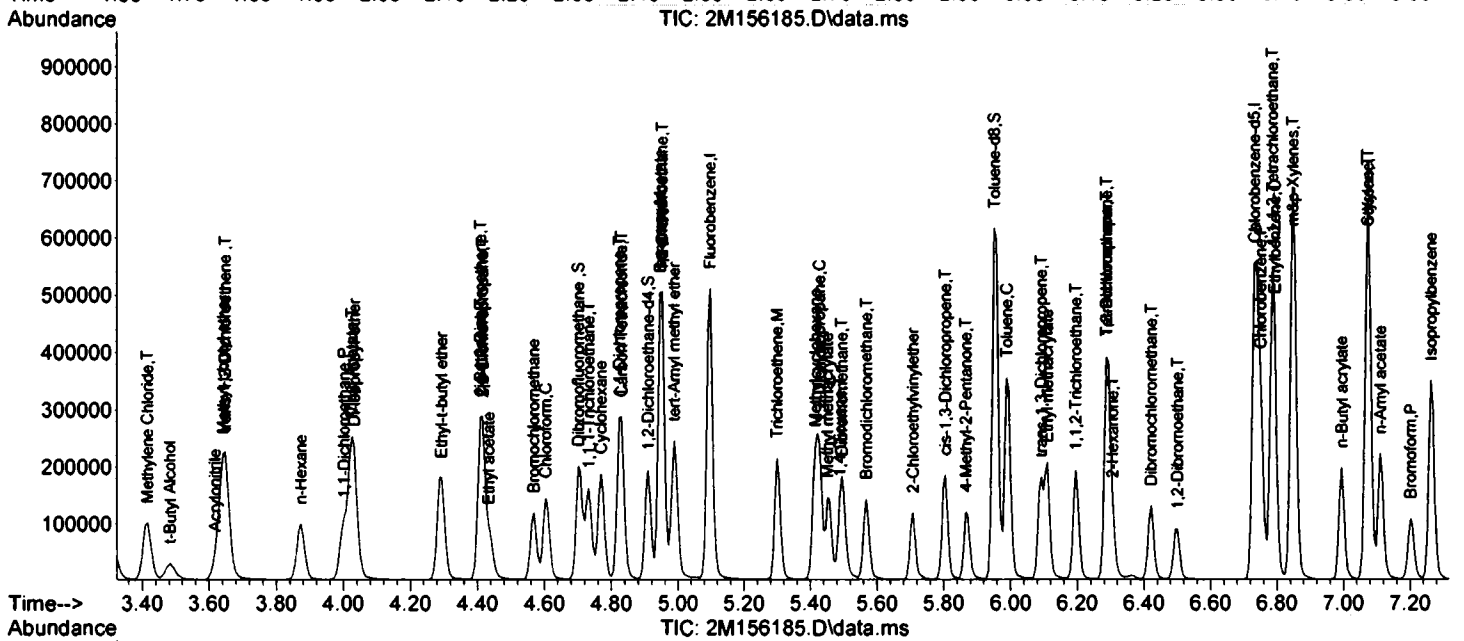
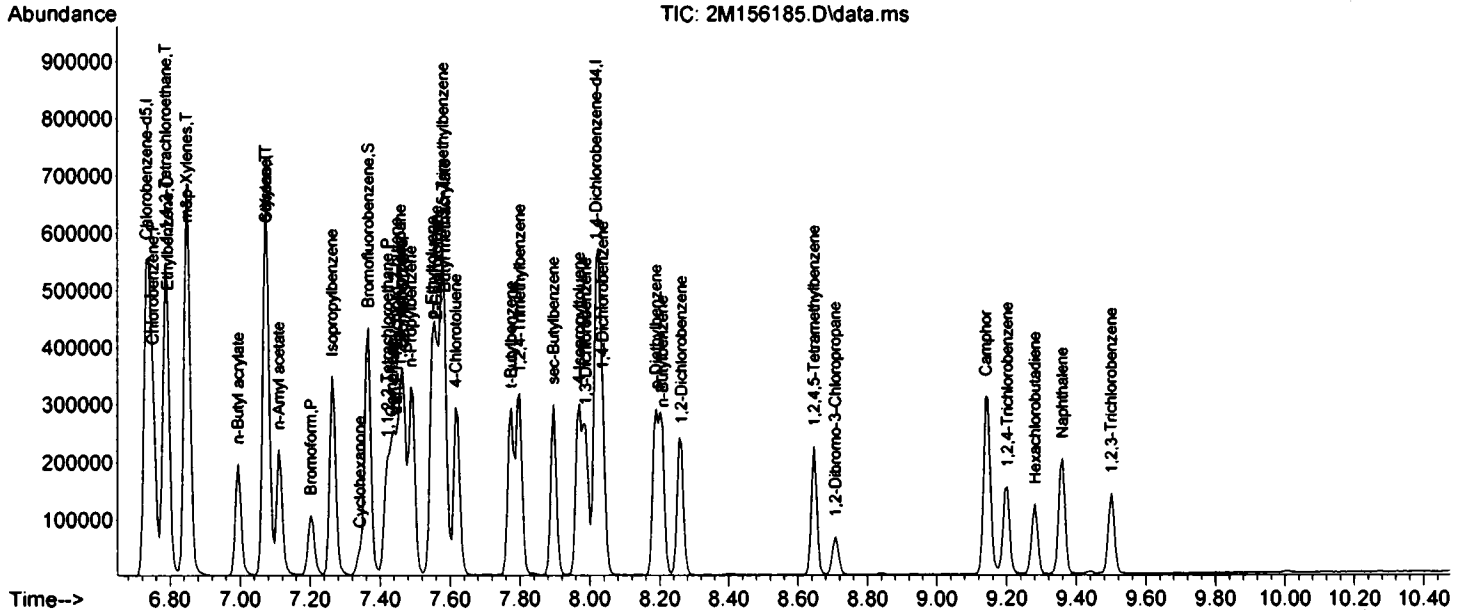
Quant QT Reviewed
SampleID : CAL @20 PPB
Data File: 2M156185.D
Acq On : 08/31/21 21:50
Operator : WP
Sam Mult : 1 Vial# : 7
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 08/31/21 22:45
Qt Upd On: 08/31/21 22:43
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 2M156185.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M156185.D\data.ms
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB  Operator : WP  Qt Meth : 2M_A0831.M
Data File: 2M156183.D  Sam Mult : 1  Vial# : 5  Qt On : 08/31/21 22:48
Acq On : 08/31/21 21:10  Misc : A,5ML  Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 299730 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 217020 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 102747 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.709 | 111 | 80413 | 29.12 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.07% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 46979 | 36.85 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 122.83% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 292089 | 32.96 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 109.87% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 92561 | 28.67 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.57% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 10333 | 5.6410 | ug/l | 59 |
| 6) Dichlorodifluoromethane | 1.685 | 85 | 5815 | 4.3346 | ug/l | 93 |
| 7) Chloromethane | 1.861 | 50 | 9499 | 5.7862 | ug/l | 89 |
| 8) Bromomethane | 2.252 | 94 | 5921 | 5.2790 | ug/l | 84 |
| 9) Vinyl Chloride | 1.953 | 62 | 10287 | 5.8023 | ug/l | 97 |
| 10) Chloroethane | 2.337 | 64 | 7817 | 7.0399 | ug/l | 97 |
| 11) Trichlorofluoromethane | 2.563 | 101 | 17857 | 6.3908 | ug/l | 98 |
| 12) Ethyl ether | 2.800 | 59 | 7653 | 4.9843 | ug/l | 94 |
| 13) Furan | 2.843 | 39 | 15011 | 6.0158 | ug/l | 87 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.002 | 101 | 9192 | 7.5447 | ug/l | 92 |
| 15) Methylene Chloride | 3.410 | 84 | 11046 | 5.6692 | ug/l | 93 |
| 16) Acrolein | 2.922 | 56 | 10106 | 30.8283 | ug/l | 98 |
| 17) Acrylonitrile | 3.617 | 53 | 5851 | 6.6087 | ug/l | 100 |
| 18) Iodomethane | 3.154 | 142 | 7047 | 2.9388 | ug/l | 86 |
| 19) Acetone | 3.044 | 43 | 22339 | 32.4923 | ug/l | 99 |
| 20) Carbon Disulfide | 3.215 | 76 | 27155 | 5.4772 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.483 | 59 | 8139 | 34.5542 | ug/l | 98 |
| 22) n-Hexane | 3.873 | 57 | 11128 | 9.4250 | ug/l | 90 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 36791 | 7.3490 | ug/l | 85 |
| 24) 1,1-Dichloroethene | 3.008 | 61 | 14758 | 6.7236 | ug/l | 91 |
| 25) Methyl Acetate | 3.319 | 43 | 14033 | 7.5413 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 31034 | 6.5581 | ug/l | 90 |
| 27) 1,1-Dichloroethane | 4.001 | 63 | 19545 | 6.5885 | ug/l | 98 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 10789 | 5.6551 | ug/l | 85 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 30839 | 5.8219 | ug/l | 93 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 19767 | 6.5200 | ug/l | 94 |
| 31) Bromochloromethane | 4.568 | 49 | 9737 | 6.8450 | ug/l | 86 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 15377 | 6.1356 | ug/l | 95 |
| 33) Ethyl acetate | 4.440 | 43 | 15616m | 6.9763 | ug/l | |
| 34) 1,4-Dioxane | 5.489 | 88 | 9302 | 267.0192 | ug/l | 95 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 14624 | 6.3114 | ug/l | 98 |
| 36) Chloroform | 4.605 | 83 | 18698 | 5.7265 | ug/l | 96 |
| 38) Cyclohexane | 4.770 | 56 | 15557 | 8.2745 | ug/l | 88 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 15850 | 6.4430 | ug/l | 96 |
| 41) 2-Butanone | 4.416 | 43 | 7082m | 6.6921 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 16285 | 5.4449 | ug/l | 97 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 13942 | 5.0307 | ug/l | 96 |
| 44) Vinyl Acetate | 4.026 | 43 | 38767 | 7.2457 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 14480 | 5.5459 | ug/l | 96 |
| 46) Methylcyclohexane | 5.416 | 83 | 12976 | 6.2910 | ug/l | 91 |
| 47) Dibromomethane | 5.495 | 174 | 8357 | 4.0368 | ug/l | 92 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 11401 | 6.5042 | ug/l | 89 |
| 49) Trichloroethene | 5.300 | 130 | 11780 | 4.8359 | ug/l | 89 |
| 50) Benzene | 4.952 | 78 | 43978 | 6.4329 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 31125 | 6.0133 | ug/l | 95 |
| 53) Iso-propylacetate | 4.946 | 43 | 27272 | 7.5244 | ug/l | 90 |
| 54) Methyl methacrylate | 5.458 | 41 | 11389 | 7.2261 | ug/l | 89 |
| 55) Dibromochloromethane | 6.422 | 129 | 10718 | 4.6593 | ug/l | 94 |
| 56) 2-Chloroethylvinylether | 5.708 | 63 | 8383 | 7.8595 | ug/l | 93 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 16662 | 6.1595 | ug/l | 96 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 14598 | 5.8726 | ug/l | 100 |
| 59) Ethyl methacrylate | 6.111 | 41 | 11756 | 7.5668 | ug/l | 82 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 10653 | 6.0926 | ug/l | 96 |
| 61) 1,2-Dibromoethane | 6.501 | 107 | 11158 | 5.6339 | ug/l | 98 |
| 62) 1,3-Dichloropropane | 6.294 | 76 | 18258 | 6.6848 | ug/l | 96 |
| 63) 4-Methyl-2-Pentanone | 5.873 | 43 | 14398 | 7.6277 | ug/l | 99 |
| 64) 2-Hexanone | 6.306 | 43 | 10881 | 8.0892 | ug/l | 93 |
| 65) Tetrachloroethene | 6.288 | 164 | 9263 | 4.8087 | ug/l | 92 |
| 67) Toluene | 5.995 | 92 | 27325 | 6.2183 | ug/l | 92 |

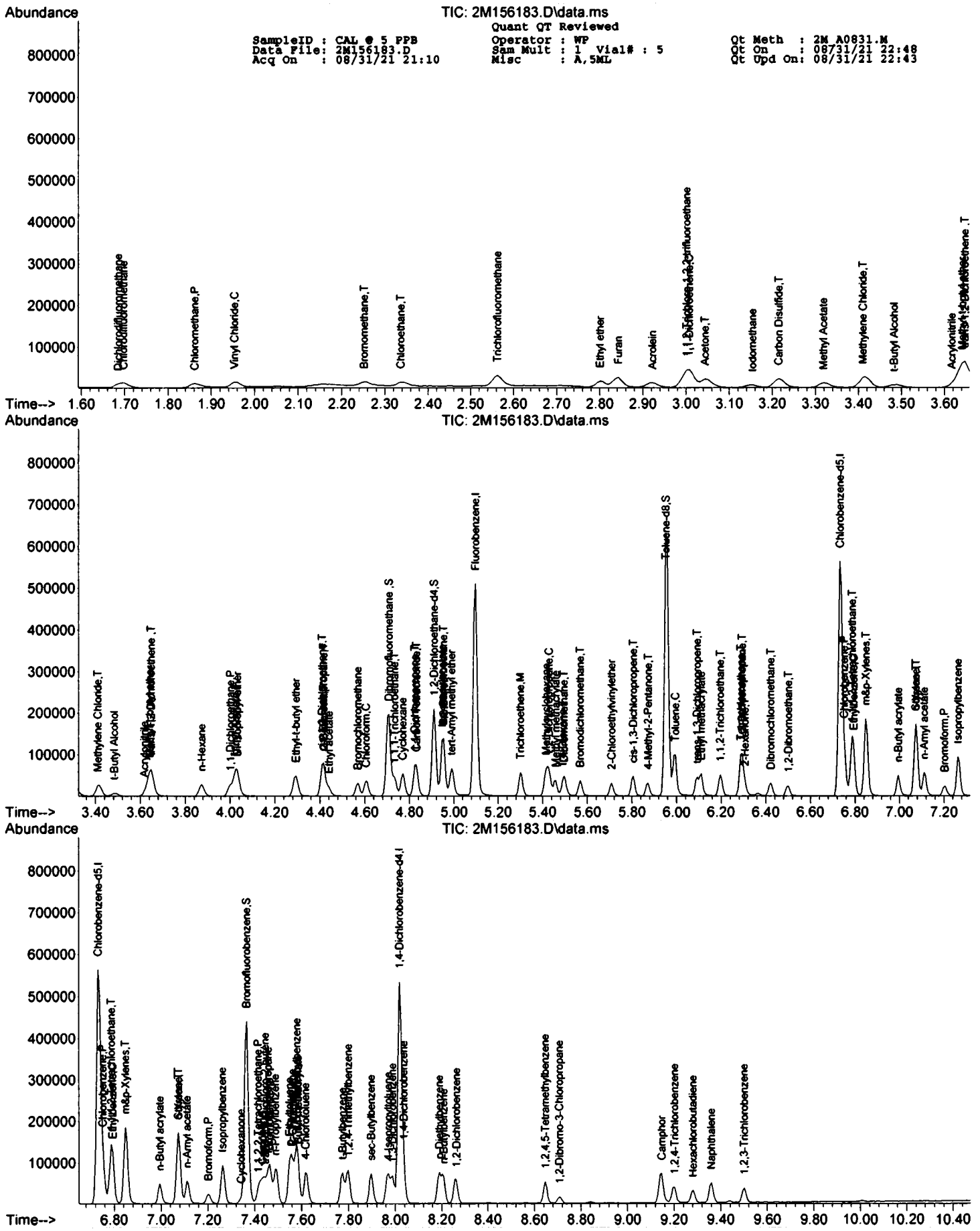
Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB  Operator : WP  Qt Meth : 2M_A0831.M
Data File: 2M156183.D  Sam Mult : 1 Vial# : 5  Qt On : 08/31/21 22:48
Acq On : 08/31/21 21:10  Misc : A,5ML  Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 6.787 | 133 | 9968 | 4.9209 | ug/l | 100 |
| 69) | Chlorobenzene | 6.751 | 112 | 29518 | 5.5739 | ug/l | 96 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 22230 | 7.4876 | ug/l | 96 |
| 72) | n-Amyl acetate | 7.111 | 43 | 21644 | 8.2833 | ug/l | 91 |
| 73) | Bromoform | 7.202 | 173 | 7492 | 4.0037 | ug/l | 97 |
| 74) | Ethylbenzene | 6.794 | 106 | 13249 | 6.7750 | ug/l | 99 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.415 | 83 | 15497 | 7.1293 | ug/l | 89 |
| 77) | Styrene | 7.074 | 104 | 30911 | 6.3968 | ug/l | 86 |
| 78) | m&p-Xylenes | 6.848 | 106 | 39163 | 14.1555 | ug/l | 98 |
| 79) | o-Xylene | 7.074 | 106 | 18069 | 6.5580 | ug/l | 98 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 6026 | 7.8973 | ug/l | 88 |
| 81) | 1,3-Dichlorobenzene | 7.988 | 146 | 19534 | 5.3547 | ug/l | 96 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 20099 | 5.4198 | ug/l | 95 |
| 83) | 1,2-Dichlorobenzene | 8.263 | 146 | 18551 | 5.3695 | ug/l | 95 |
| 84) | Isopropylbenzene | 7.263 | 105 | 43030 | 6.6030 | ug/l | 98 |
| 85) | Cyclohexanone | 7.342 | 55 | 3667 | 42.5393 | ug/l | 89 |
| 86) | Camphene | 7.434 | 93 | 10370 | 6.4133 | ug/l | 95 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 18805 | 7.0568 | ug/l | 98 |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 27598 | 7.1922 | ug/l | 96 |
| 89) | p-Ethyltoluene | 7.550 | 105 | 45125 | 6.8275 | ug/l | 93 |
| 90) | 4-Chlorotoluene | 7.617 | 91 | 27270 | 6.9470 | ug/l | 94 |
| 91) | n-Propylbenzene | 7.489 | 91 | 50401 | 7.1881 | ug/l | 96 |
| 92) | Bromobenzene | 7.464 | 77 | 28701 | 7.3900 | ug/l | 93 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 28839 | 5.8784 | ug/l | 91 |
| 94) | Butyl methacrylate | 7.586 | 41 | 15458 | 8.6557 | ug/l | 80 |
| 95) | t-Butylbenzene | 7.775 | 119 | 30007 | 5.9086 | ug/l | 93 |
| 96) | 1,2,4-Trimethylbenzene | 7.799 | 105 | 34241 | 6.5605 | ug/l | 96 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 36294 | 6.2985 | ug/l | 99 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 29464 | 5.7263 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.208 | 91 | 32831 | 6.8346 | ug/l | 97 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 16694 | 5.6078 | ug/l | 94 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 19938 | 4.8603 | ug/l | 96 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 2928 | 4.0031 | ug/l | 78 |
| 103) | Camphor | 9.147 | 95 | 14907 | 58.0266 | ug/l | 97 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 4227 | 3.7658 | ug/l | 95 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 9116 | 4.1527 | ug/l | 98 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 8038 | 4.1125 | ug/l | 96 |
| 107) | Naphthalene | 9.360 | 128 | 28559 | 5.0143 | ug/l | 100 |

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


Abundance
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Quant QT Reviewed
SampleID : CAL @ 5 PPB
Data File: 2M156183.D
Acq On : 08/31/21 21:10
Operator : WP
Sam Mult : 1 Vial# : 5
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 08/31/21 22:48
Qt Upd On: 08/31/21 22:43
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->
Abundance
TIC: 2M156183.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->
Abundance
TIC: 2M156183.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @10 PPB  Operator : WP  Qt Meth : 2M_A0831.M
Data File: 2M156184.D  Sam Mult : 1  Vial# : 6  Qt On : 08/31/21 22:47
Acq On : 08/31/21 21:30  Misc : A,5ML  Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 301936 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 218401 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 102721 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 79640 | 28.63 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.43% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 44680 | 34.79 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 115.97% | | | |
| 66) Toluene-d8 | 5.958 | 98 | 289458 | 32.46 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.20% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 90133 | 27.93 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.10% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 21557 | 11.6824 | ug/l | 61 |
| 6) Dichlorodifluoromethane | 1.685 | 85 | 12480 | 9.2349 | ug/l | 91 |
| 7) Chloromethane | 1.861 | 50 | 18123 | 10.9587 | ug/l | 100 |
| 8) Bromomethane | 2.246 | 94 | 10843 | 9.5967 | ug/l | 86 |
| 9) Vinyl Chloride | 1.953 | 62 | 22468 | 12.5802 | ug/l | 99 |
| 10) Chloroethane | 2.337 | 64 | 15090 | 13.4905 | ug/l | 95 |
| 11) Trichlorofluoromethane | 2.563 | 101 | 37033 | 13.1567 | ug/l | 96 |
| 12) Ethyl ether | 2.800 | 59 | 15104 | 9.7652 | ug/l | 97 |
| 13) Furan | 2.843 | 39 | 31263 | 12.4374 | ug/l | 89 |
| 14) 1,1,2-Trichloro-1,2,2-... | 2.995 | 101 | 18891 | 15.3922 | ug/l | 92 |
| 15) Methylene Chloride | 3.416 | 84 | 22539 | 11.4834 | ug/l | 89 |
| 16) Acrolein | 2.916 | 56 | 20633 | 62.4811 | ug/l | 100 |
| 17) Acrylonitrile | 3.623 | 53 | 12009 | 13.4650 | ug/l | 89 |
| 18) Iodomethane | 3.154 | 142 | 16492 | 6.8273 | ug/l | 96 |
| 19) Acetone | 3.044 | 43 | 46485 | 67.1189 | ug/l | 98 |
| 20) Carbon Disulfide | 3.215 | 76 | 57049 | 11.4228 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.489 | 59 | 17386 | 73.2732 | ug/l | 98 |
| 22) n-Hexane | 3.873 | 57 | 23378 | 19.6556 | ug/l | 93 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 76349 | 15.1392 | ug/l | 85 |
| 24) 1,1-Dichloroethene | 3.008 | 61 | 32637 | 14.7605 | ug/l | 86 |
| 25) Methyl Acetate | 3.319 | 43 | 27339 | 14.5846 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 64353 | 13.4996 | ug/l | 92 |
| 27) 1,1-Dichloroethane | 4.001 | 63 | 39333 | 13.1621 | ug/l | 98 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 22489 | 11.7017 | ug/l | 92 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 64321 | 12.0541 | ug/l | 94 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 40600 | 13.2938 | ug/l | 96 |
| 31) Bromochloromethane | 4.568 | 49 | 20866 | 14.5614 | ug/l | 78 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 32068 | 12.7020 | ug/l | 98 |
| 33) Ethyl acetate | 4.440 | 43 | 31754m | 14.0822 | ug/l | |
| 34) 1,4-Dioxane | 5.489 | 88 | 21961 | 625.7970 | ug/l | 89 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 31178 | 13.3574 | ug/l | 94 |
| 36) Chloroform | 4.605 | 83 | 40511 | 12.3164 | ug/l | 97 |
| 38) Cyclohexane | 4.770 | 56 | 31558 | 16.6626 | ug/l | 92 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 32558 | 13.1381 | ug/l | 99 |
| 41) 2-Butanone | 4.410 | 43 | 15473m | 14.5143 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 35058 | 11.6360 | ug/l | 99 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 30399 | 10.8887 | ug/l | 94 |
| 44) Vinyl Acetate | 4.026 | 43 | 81798 | 15.1767 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 30411 | 11.5624 | ug/l | 94 |
| 46) Methylcyclohexane | 5.416 | 83 | 28132 | 13.5393 | ug/l | 92 |
| 47) Dibromomethane | 5.501 | 174 | 17374 | 8.3312 | ug/l | 97 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 23690 | 13.4163 | ug/l | 98 |
| 49) Trichloroethene | 5.300 | 130 | 25060 | 10.2124 | ug/l | 94 |
| 50) Benzene | 4.952 | 78 | 89764 | 13.0343 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 65605 | 12.5823 | ug/l | 95 |
| 53) Iso-propylacetate | 4.946 | 43 | 55133 | 15.1152 | ug/l | 92 |
| 54) Methyl methacrylate | 5.458 | 41 | 25867 | 16.3082 | ug/l | 86 |
| 55) Dibromochloromethane | 6.422 | 129 | 22939 | 9.9089 | ug/l | 100 |
| 56) 2-Chloroethylvinylether | 5.708 | 63 | 17756 | 16.5418 | ug/l | 99 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 35622 | 13.0852 | ug/l | 97 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 32486 | 12.9860 | ug/l | 98 |
| 59) Ethyl methacrylate | 6.111 | 41 | 24374 | 15.5892 | ug/l | 85 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 21388 | 12.1548 | ug/l | 93 |
| 61) 1,2-Dibromoethane | 6.495 | 107 | 23722 | 11.9021 | ug/l | 96 |
| 62) 1,3-Dichloropropane | 6.294 | 76 | 36661 | 13.3379 | ug/l | 100 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 31253 | 16.4523 | ug/l | 90 |
| 64) 2-Hexanone | 6.306 | 43 | 21990 | 16.2445 | ug/l | 95 |
| 65) Tetrachloroethene | 6.288 | 164 | 19049 | 9.8263 | ug/l | 89 |
| 67) Toluene | 5.989 | 92 | 57170 | 12.9277 | ug/l | 97 |

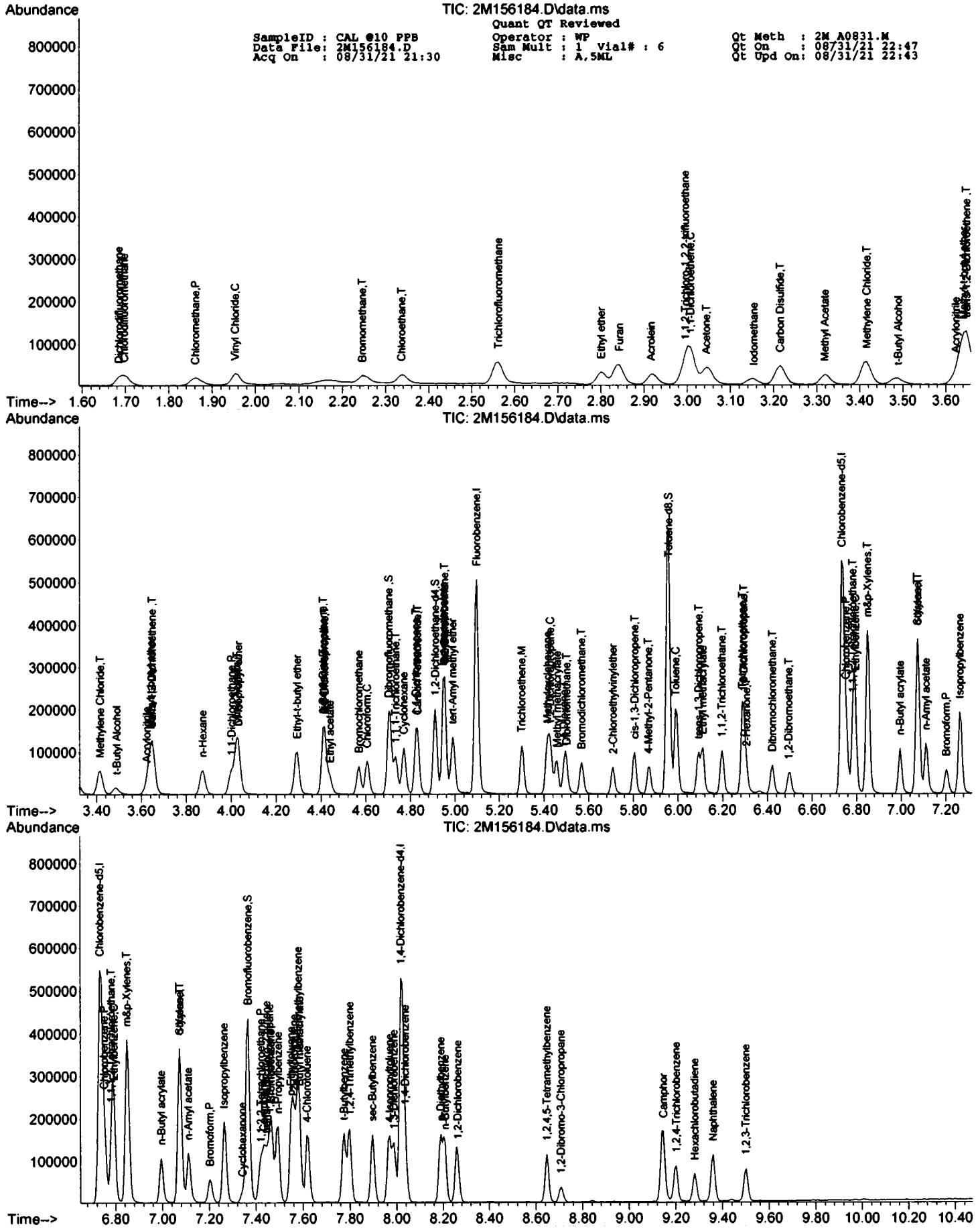
Quantitation Report (QT Reviewed)

SampleID : CAL @10 PPB Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M156184.D Sam Mult : 1 Vial# : 6 Qt On : 08/31/21 22:47
Acq On : 08/31/21 21:30 Misc : A,5ML Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 6.781 | 133 | 21194 | 10.3966 | ug/l | 99 |
| 69) | Chlorobenzene | 6.751 | 112 | 61673 | 11.5722 | ug/l | 99 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 47145 | 15.8836 | ug/l | 97 |
| 72) | n-Amyl acetate | 7.111 | 43 | 47438 | 18.1595 | ug/l | 92 |
| 73) | Bromoform | 7.202 | 173 | 17826 | 9.5285 | ug/l | 98 |
| 74) | Ethylbenzene | 6.794 | 106 | 27084 | 13.8532 | ug/l | 97 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.421 | 83 | 32957 | 15.1654 | ug/l | 97 |
| 77) | Styrene | 7.074 | 104 | 65705 | 13.6006 | ug/l | 86 |
| 78) | m&p-Xylenes | 6.848 | 106 | 80861 | 29.2346 | ug/l | 96 |
| 79) | o-Xylene | 7.074 | 106 | 38654 | 14.0328 | ug/l | 100 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 13461 | 17.6457 | ug/l | 86 |
| 81) | 1,3-Dichlorobenzene | 7.988 | 146 | 41902 | 11.4892 | ug/l | 97 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 42797 | 11.5434 | ug/l | 97 |
| 83) | 1,2-Dichlorobenzene | 8.263 | 146 | 40185 | 11.6342 | ug/l | 97 |
| 84) | Isopropylbenzene | 7.263 | 105 | 92184 | 14.1492 | ug/l | 98 |
| 85) | Cyclohexanone | 7.342 | 55 | 7660 | 88.8829 | ug/l | 92 |
| 86) | Camphene | 7.434 | 93 | 22915 | 14.1752 | ug/l | 93 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 40743 | 15.2932 | ug/l | 97 |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 56537 | 14.7376 | ug/l | 97 |
| 89) | p-Ethyltoluene | 7.550 | 105 | 95953 | 14.5215 | ug/l | 94 |
| 90) | 4-Chlorotoluene | 7.617 | 91 | 55663 | 14.1836 | ug/l | 98 |
| 91) | n-Propylbenzene | 7.495 | 91 | 104436 | 14.8983 | ug/l | 99 |
| 92) | Bromobenzene | 7.464 | 77 | 59876 | 15.4209 | ug/l | 93 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 61773 | 12.5947 | ug/l | 91 |
| 94) | Butyl methacrylate | 7.586 | 41 | 33090 | 18.5335 | ug/l | 81 |
| 95) | t-Butylbenzene | 7.775 | 119 | 65553 | 12.9112 | ug/l | 95 |
| 96) | 1,2,4-Trimethylbenzene | 7.799 | 105 | 71041 | 13.6148 | ug/l | 99 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 79969 | 13.8814 | ug/l | 99 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 63961 | 12.4340 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.208 | 91 | 70398 | 14.6588 | ug/l | 96 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 36577 | 12.2901 | ug/l | 97 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 44025 | 10.7347 | ug/l | 93 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 6799 | 9.2977 | ug/l | 64 |
| 103) | Camphor | 9.147 | 95 | 34489 | 134.2850 | ug/l | 98 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 9101 | 8.1101 | ug/l | 96 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 19262 | 8.7768 | ug/l | 99 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 17860 | 9.1401 | ug/l | 98 |
| 107) | Naphthalene | 9.360 | 128 | 65130 | 11.4383 | ug/l | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL @10 PPB
Data File: 2M156184.D
Acq On : 08/31/21 21:30
Operator : WP
Sam Mult : 1 Vial# : 6
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 08/31/21 22:47
Qt Upd On: 08/31/21 22:43
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->


Abundance
TIC: 2M156184.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
tert-Amyl methyl ether
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M156184.D\data.ms
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @50 PPB  Operator : WP  Qt Meth : 2M_A0831.M
Data File: 2M156186.D  Sam Mult : 1  Vial# : 8  Qt On : 08/31/21 22:44
Acq On : 08/31/21 22:09  Misc : A,5ML  Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 295164 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.732 | 117 | 227457 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 116673 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 80965 | 29.78 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.27% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 43048 | 34.29 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 114.30% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 292294 | 31.47 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 104.90% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 104960 | 28.63 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.43% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 142860 | 79.1967 | ug/l | 54 |
| 6) Dichlorodifluoromethane | 1.685 | 85 | 73106 | 55.3377 | ug/l | 99 |
| 7) Chloromethane | 1.861 | 50 | 92709 | 57.3459 | ug/l | 97 |
| 8) Bromomethane | 2.252 | 94 | 49536 | 44.8481 | ug/l | 98 |
| 9) Vinyl Chloride | 1.953 | 62 | 109661 | 62.8098 | ug/l | 100 |
| 10) Chloroethane | 2.343 | 64 | 72060 | 65.8998 | ug/l | 98 |
| 11) Trichlorofluoromethane | 2.563 | 101 | 180454 | 65.5808 | ug/l | 98 |
| 12) Ethyl ether | 2.800 | 59 | 76119 | 50.3422 | ug/l | 95 |
| 13) Furan | 2.843 | 39 | 153279 | 62.3780 | ug/l | 89 |
| 14) 1,1,2-Trichloro-1,2,2-... | 2.995 | 101 | 88842 | 74.0485 | ug/l | 95 |
| 15) Methylene Chloride | 3.416 | 84 | 111846 | 58.2917 | ug/l | 88 |
| 16) Acrolein | 2.916 | 56 | 105467 | 326.7038 | ug/l | 98 |
| 17) Acrylonitrile | 3.623 | 53 | 59936 | 68.7444 | ug/l | 97 |
| 18) Iodomethane | 3.154 | 142 | 131911 | 55.8608 | ug/l | 98 |
| 19) Acetone | 3.044 | 43 | 211145 | 311.8635 | ug/l | 98 |
| 20) Carbon Disulfide | 3.215 | 76 | 303468 | 62.1567 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.483 | 59 | 82138 | 354.1122 | ug/l | 94 |
| 22) n-Hexane | 3.873 | 57 | 111417 | 95.8258 | ug/l | 94 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 364251 | 73.8842 | ug/l | 91 |
| 24) 1,1-Dichloroethene | 3.008 | 61 | 155901 | 72.1260 | ug/l | 92 |
| 25) Methyl Acetate | 3.318 | 43 | 131586 | 71.8079 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 319373 | 68.5334 | ug/l | 94 |
| 27) 1,1-Dichloroethane | 4.001 | 63 | 193451 | 66.2203 | ug/l | 100 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 112177 | 59.7081 | ug/l | 94 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 316796 | 60.7312 | ug/l | 95 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 198054 | 66.3373 | ug/l | 93 |
| 31) Bromochloromethane | 4.568 | 49 | 97738 | 69.7718 | ug/l | 85 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 163575 | 66.2779 | ug/l | 99 |
| 33) Ethyl acetate | 4.434 | 43 | 145259m | 65.8974 | ug/l | |
| 34) 1,4-Dioxane | 5.489 | 88 | 102573 | 2989.9641 | ug/l | 93 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 149001 | 65.3003 | ug/l | 97 |
| 36) Chloroform | 4.605 | 83 | 201723 | 62.7362 | ug/l | 100 |
| 38) Cyclohexane | 4.769 | 56 | 150993 | 81.5531 | ug/l | 91 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 158859 | 65.5752 | ug/l | 100 |
| 41) 2-Butanone | 4.410 | 43 | 74549m | 71.5343 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 178705 | 60.6743 | ug/l | 98 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 156582 | 57.3731 | ug/l | 95 |
| 44) Vinyl Acetate | 4.026 | 43 | 404755 | 76.8206 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 159480 | 62.0263 | ug/l | 98 |
| 46) Methylcyclohexane | 5.416 | 83 | 134161 | 66.0501 | ug/l | 95 |
| 47) Dibromomethane | 5.501 | 174 | 92282 | 45.2663 | ug/l | 98 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 114314 | 66.2244 | ug/l | 99 |
| 49) Trichloroethene | 5.300 | 130 | 128391 | 53.5218 | ug/l | 96 |
| 50) Benzene | 4.952 | 78 | 433296 | 64.3608 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 326693 | 64.0935 | ug/l | 98 |
| 53) Iso-propylacetate | 4.946 | 43 | 266502 | 70.1550 | ug/l | 91 |
| 54) Methyl methacrylate | 5.452 | 41 | 119591 | 72.3960 | ug/l | 92 |
| 55) Dibromochloromethane | 6.422 | 129 | 136041 | 56.4254 | ug/l | 96 |
| 56) 2-Chloroethylvinylether | 5.708 | 63 | 86806 | 77.6503 | ug/l | 100 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 185915 | 65.5741 | ug/l | 98 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 174720 | 67.0622 | ug/l | 99 |
| 59) Ethyl methacrylate | 6.111 | 41 | 124120 | 76.2244 | ug/l | 86 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 109848 | 59.9413 | ug/l | 95 |
| 61) 1,2-Dibromoethane | 6.495 | 107 | 124691 | 60.0705 | ug/l | 99 |
| 62) 1,3-Dichloropropane | 6.287 | 76 | 181500 | 63.4036 | ug/l | 100 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 148507 | 75.0650 | ug/l | 93 |
| 64) 2-Hexanone | 6.306 | 43 | 108618 | 77.0441 | ug/l | 92 |
| 65) Tetrachloroethene | 6.287 | 164 | 102391 | 50.7149 | ug/l | 98 |
| 67) Toluene | 5.989 | 92 | 291770 | 63.3505 | ug/l | 97 |

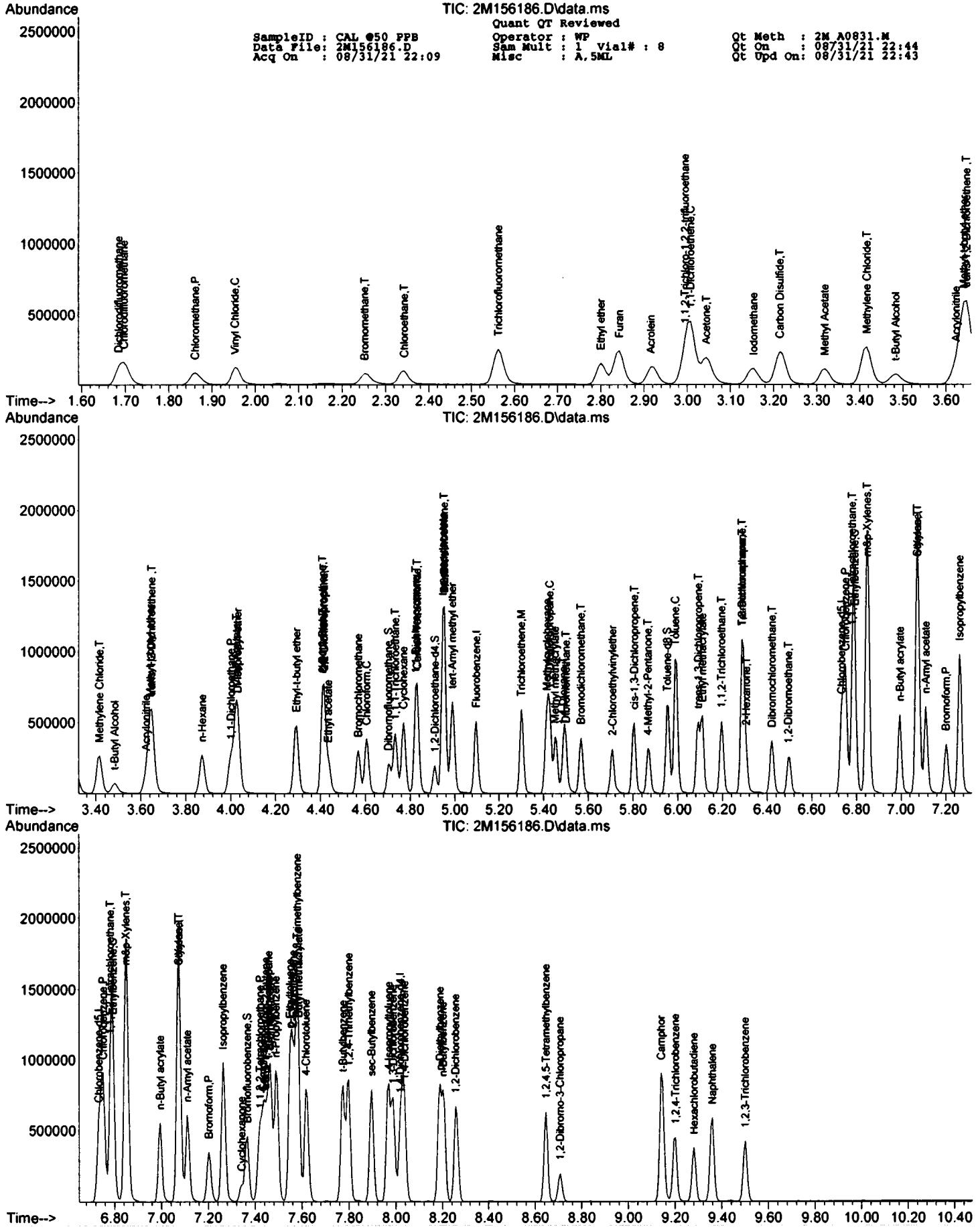
Quantitation Report (QT Reviewed)

SampleID : CAL @50 PPB Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M156186.D Sam Mult : 1 Vial# : 8 Qt On : 08/31/21 22:44
Acq On : 08/31/21 22:09 Misc : A,5ML Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 6.781 | 133 | 116612 | 54.9260 | ug/l | 98 |
| 69) | Chlorobenzene | 6.751 | 112 | 321212 | 57.8720 | ug/l | 98 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 246950 | 73.2506 | ug/l | 97 |
| 72) | n-Amyl acetate | 7.110 | 43 | 232661 | 78.4133 | ug/l | 93 |
| 73) | Bromoform | 7.202 | 173 | 118125 | 55.5908 | ug/l | 92 |
| 74) | Ethylbenzene | 6.793 | 106 | 135231 | 60.8979 | ug/l | 96 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.421 | 83 | 164069 | 66.4696 | ug/l | 100 |
| 77) | Styrene | 7.074 | 104 | 347988 | 63.4180 | ug/l | 95 |
| 78) | m&p-Xylenes | 6.848 | 106 | 407048 | 129.5664 | ug/l | 98 |
| 79) | o-Xylene | 7.074 | 106 | 202915 | 64.8563 | ug/l | 97 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 66018 | 76.1925 | ug/l | 100 |
| 81) | 1,3-Dichlorobenzene | 7.988 | 146 | 236894 | 57.1871 | ug/l | 100 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 238251 | 56.5773 | ug/l | 99 |
| 83) | 1,2-Dichlorobenzene | 8.257 | 146 | 224495 | 57.2228 | ug/l | 99 |
| 84) | Isopropylbenzene | 7.263 | 105 | 482784 | 65.2407 | ug/l | 99 |
| 85) | Cyclohexanone | 7.342 | 55 | 33560 | 342.8469 | ug/l | 94 |
| 86) | Camphene | 7.434 | 93 | 113065 | 61.5781 | ug/l | 100 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 207132 | 68.4512 | ug/l | 97 |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 290676 | 66.7101 | ug/l | 98 |
| 89) | p-Ethyltoluene | 7.549 | 105 | 441966 | 58.8884 | ug/l | 99 |
| 90) | 4-Chlorotoluene | 7.616 | 91 | 279593 | 62.7241 | ug/l | 99 |
| 91) | n-Propylbenzene | 7.488 | 91 | 532609 | 66.8936 | ug/l | 99 |
| 92) | Bromobenzene | 7.464 | 77 | 296477 | 67.2258 | ug/l | 98 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 364949 | 65.5102 | ug/l | 100 |
| 94) | Butyl methacrylate | 7.586 | 41 | 162722 | 80.2409 | ug/l | 87 |
| 95) | t-Butylbenzene | 7.775 | 119 | 354749 | 61.5155 | ug/l | 99 |
| 96) | 1,2,4-Trimethylbenzene | 7.799 | 105 | 373471 | 63.0156 | ug/l | 98 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 411278 | 62.8544 | ug/l | 96 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 348873 | 59.7105 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.202 | 91 | 357919 | 65.6164 | ug/l | 99 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 200304 | 59.2549 | ug/l | 97 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 248730 | 53.3959 | ug/l | 98 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 42713 | 51.4259 | ug/l | 91 |
| 103) | Camphor | 9.141 | 95 | 176038 | 603.4512 | ug/l | 98 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 55373 | 43.4432 | ug/l | 99 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 118738 | 47.6335 | ug/l | 99 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 104849 | 47.2416 | ug/l | 99 |
| 107) | Naphthalene | 9.360 | 128 | 364787 | 56.4036 | ug/l | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL @50 PPB
Data File: 2M156186.D
Acq On : 08/31/21 22:09
Operator : WP
Sam Mult : 1 Vial# : 8
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 08/31/21 22:44
Qt Upd On: 08/31/21 22:43
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @100 PPB  Operator : WP  Qt Meth : 2M_A0831.M
Data File: 2M156191.D  Sam Mult : 1  Vial# : 13  Qt On : 09/01/21 14:38
Acq On : 08/31/21 23:47  Misc : A,5ML  Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 327149 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.732 | 117 | 251919 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 136041 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 92292 | 30.62 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 102.07% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 46995 | 33.77 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 112.57% | | | |
| 66) Toluene-d8 | 5.958 | 98 | 318313 | 30.94 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.13% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 123431 | 28.88 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.27% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 353103 | 176.6102 | ug/l | 55 |
| 6) Dichlorodifluoromethane | 1.685 | 85 | 185210 | 126.4883 | ug/l | 96 |
| 7) Chloromethane | 1.861 | 50 | 231363 | 129.1197 | ug/l | 99 |
| 8) Bromomethane | 2.245 | 94 | 173285 | 141.5473 | ug/l | 100 |
| 9) Vinyl Chloride | 1.953 | 62 | 246970 | 127.6255 | ug/l | 97 |
| 10) Chloroethane | 2.337 | 64 | 164060 | 135.3663 | ug/l | 98 |
| 11) Trichlorofluoromethane | 2.563 | 101 | 440135 | 144.3159 | ug/l | 98 |
| 12) Ethyl ether | 2.800 | 59 | 167176 | 99.7541 | ug/l | 96 |
| 13) Furan | 2.837 | 39 | 331555 | 121.7369 | ug/l | 90 |
| 14) 1,1,2-Trichloro-1,2,2-... | 2.995 | 101 | 215226 | 161.8493 | ug/l | 98 |
| 15) Methylene Chloride | 3.416 | 84 | 251290 | 118.1624 | ug/l | 92 |
| 16) Acrolein | 2.916 | 56 | 244756 | 684.0513 | ug/l | 98 |
| 17) Acrylonitrile | 3.617 | 53 | 130807 | 135.3626 | ug/l | 98 |
| 18) Iodomethane | 3.154 | 142 | 250038 | 95.5322 | ug/l | 99 |
| 19) Acetone | 3.044 | 43 | 459422 | 612.2282 | ug/l | 98 |
| 20) Carbon Disulfide | 3.215 | 76 | 700727 | 129.4916 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.483 | 59 | 195921 | 762.0712 | ug/l | 95 |
| 22) n-Hexane | 3.873 | 57 | 248724 | 193.0042 | ug/l | 94 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 781131 | 142.9528 | ug/l | 93 |
| 24) 1,1-Dichloroethene | 3.008 | 61 | 345855 | 144.3626 | ug/l | 93 |
| 25) Methyl Acetate | 3.318 | 43 | 295037 | 145.2637 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 705905 | 136.6685 | ug/l | 96 |
| 27) 1,1-Dichloroethane | 4.001 | 63 | 418801 | 129.3439 | ug/l | 99 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 244435 | 117.3844 | ug/l | 93 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 684885 | 118.4590 | ug/l | 97 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 422698 | 127.7386 | ug/l | 96 |
| 31) Bromochloromethane | 4.568 | 49 | 199073 | 128.2174 | ug/l | 94 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 352671 | 128.9257 | ug/l | 99 |
| 33) Ethyl acetate | 4.434 | 43 | 316781m | 129.6588 | ug/l | |
| 34) 1,4-Dioxane | 5.489 | 88 | 238006 | 6259.4850 | ug/l | 92 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 323369 | 127.8623 | ug/l | 98 |
| 36) Chloroform | 4.605 | 83 | 443534 | 124.4536 | ug/l | 98 |
| 38) Cyclohexane | 4.769 | 56 | 341191 | 166.2643 | ug/l | 92 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 339417 | 126.4093 | ug/l | 100 |
| 41) 2-Butanone | 4.410 | 43 | 167138m | 144.6991 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 404165 | 123.8068 | ug/l | 98 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 367539 | 121.5031 | ug/l | 95 |
| 44) Vinyl Acetate | 4.026 | 43 | 873297 | 149.5427 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 351062 | 123.1889 | ug/l | 99 |
| 46) Methylcyclohexane | 5.416 | 83 | 302530 | 134.3797 | ug/l | 96 |
| 47) Dibromomethane | 5.501 | 174 | 213727 | 94.5877 | ug/l | 96 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 241376 | 126.1625 | ug/l | 99 |
| 49) Trichloroethene | 5.300 | 130 | 285103 | 107.2299 | ug/l | 96 |
| 50) Benzene | 4.946 | 78 | 936462 | 125.5003 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 699866 | 123.8816 | ug/l | 99 |
| 53) Iso-propylacetate | 4.946 | 43 | 588022 | 139.7622 | ug/l | 92 |
| 54) Methyl methacrylate | 5.452 | 41 | 264262 | 144.4406 | ug/l | 90 |
| 55) Dibromochloromethane | 6.422 | 129 | 313798 | 117.5151 | ug/l | 99 |
| 56) 2-Chloroethylvinylether | 5.708 | 63 | 182989 | 147.7940 | ug/l | 97 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 405445 | 129.1184 | ug/l | 98 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 384924 | 133.3977 | ug/l | 98 |
| 59) Ethyl methacrylate | 6.111 | 41 | 270480 | 149.9775 | ug/l | 86 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 237356 | 116.9425 | ug/l | 96 |
| 61) 1,2-Dibromoethane | 6.501 | 107 | 272500 | 118.5308 | ug/l | 98 |
| 62) 1,3-Dichloropropane | 6.294 | 76 | 391293 | 123.4178 | ug/l | 99 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 327428 | 149.4323 | ug/l | 93 |
| 64) 2-Hexanone | 6.306 | 43 | 237708 | 152.2369 | ug/l | 96 |
| 65) Tetrachloroethene | 6.287 | 164 | 240357 | 107.4903 | ug/l | 99 |
| 67) Toluene | 5.995 | 92 | 637762 | 125.0278 | ug/l | 99 |

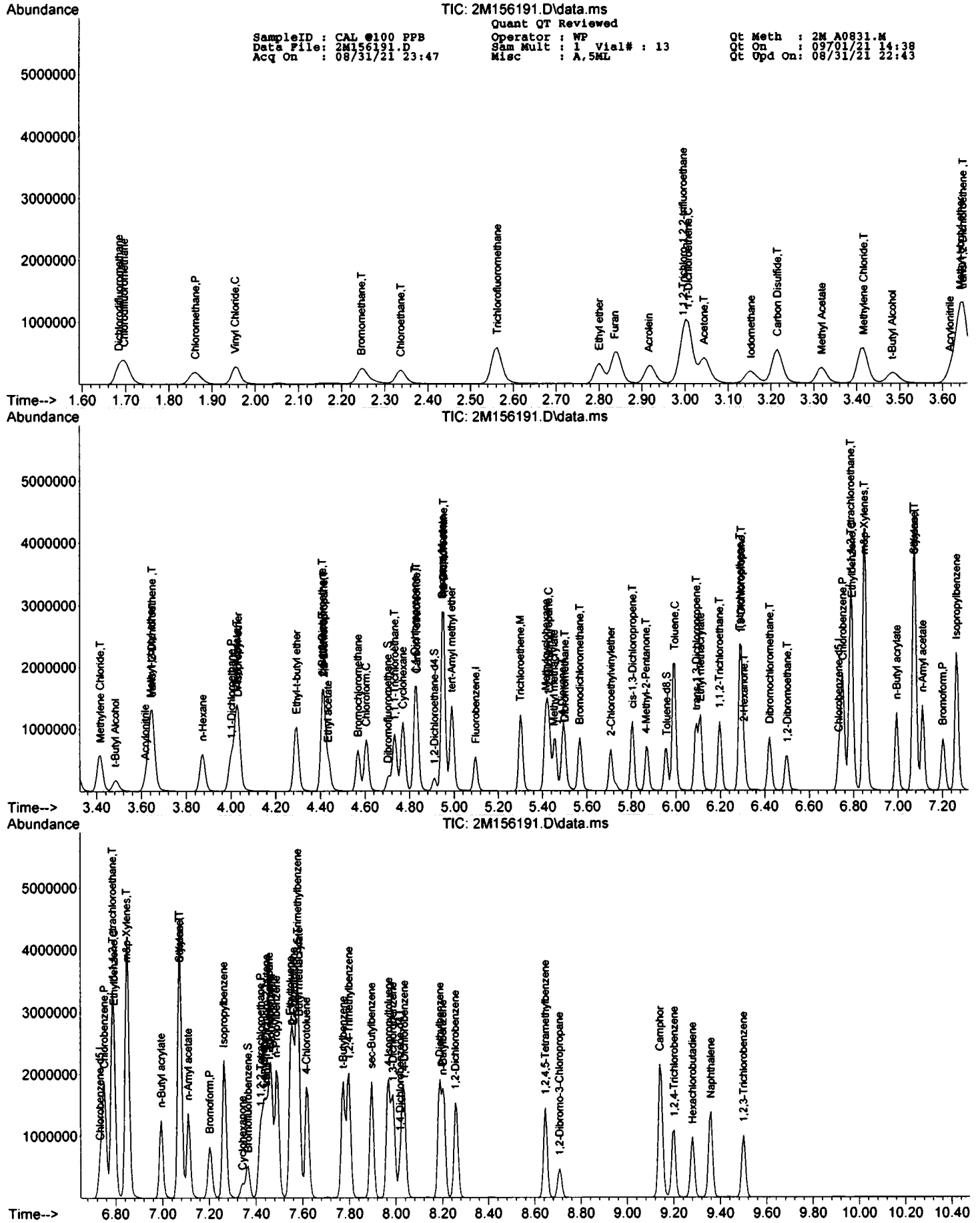
Quantitation Report (QT Reviewed)

SampleID : CAL @100 PPB Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M156191.D Sam Mult : 1 Vial# : 13 Qt On : 09/01/21 14:38
Acq On : 08/31/21 23:47 Misc : A,5ML Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 6.787 | 133 | 270851 | 115.1871 | ug/l | 98 |
| 69) | Chlorobenzene | 6.751 | 112 | 725314 | 117.9889 | ug/l | 99 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 545149 | 138.6813 | ug/l | 98 |
| 72) | n-Amyl acetate | 7.110 | 43 | 518687 | 149.9242 | ug/l | 94 |
| 73) | Bromoform | 7.202 | 173 | 285973 | 115.4216 | ug/l | 99 |
| 74) | Ethylbenzene | 6.793 | 106 | 321765 | 124.2697 | ug/l | 92 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.421 | 83 | 355053 | 123.3645 | ug/l | 97 |
| 77) | Styrene | 7.074 | 104 | 793776 | 124.0643 | ug/l | 96 |
| 78) | m&p-Xylenes | 6.848 | 106 | 919359 | 250.9761 | ug/l | 99 |
| 79) | o-Xylene | 7.074 | 106 | 456533 | 125.1442 | ug/l | 97 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 145668 | 144.1831 | ug/l | 94 |
| 81) | 1,3-Dichlorobenzene | 7.988 | 146 | 553961 | 114.6896 | ug/l | 98 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 558590 | 113.7631 | ug/l | 99 |
| 83) | 1,2-Dichlorobenzene | 8.257 | 146 | 526453 | 115.0859 | ug/l | 98 |
| 84) | Isopropylbenzene | 7.263 | 105 | 1095741 | 126.9913 | ug/l | 99 |
| 85) | Cyclohexanone | 7.342 | 55 | 68258 | 598.0430 | ug/l | 96 |
| 86) | Camphene | 7.434 | 93 | 260409 | 121.6340 | ug/l | 99 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 464148 | 131.5500 | ug/l | 98 |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 642021 | 126.3666 | ug/l | 99 |
| 89) | p-Ethyltoluene | 7.549 | 105 | 1006578 | 115.0241 | ug/l | 99 |
| 90) | 4-Chlorotoluene | 7.616 | 91 | 636010 | 122.3693 | ug/l | 100 |
| 91) | n-Propylbenzene | 7.488 | 91 | 1194404 | 128.6554 | ug/l | 98 |
| 92) | Bromobenzene | 7.464 | 77 | 656995 | 127.7637 | ug/l | 95 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 837502 | 128.9326 | ug/l | 100 |
| 94) | Butyl methacrylate | 7.586 | 41 | 361063 | 152.6979 | ug/l | 89 |
| 95) | t-Butylbenzene | 7.775 | 119 | 817946 | 121.6434 | ug/l | 98 |
| 96) | 1,2,4-Trimethylbenzene | 7.799 | 105 | 857039 | 124.0202 | ug/l | 98 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 948611 | 124.3337 | ug/l | 95 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 817508 | 119.9986 | ug/l | 99 |
| 99) | n-Butylbenzene | 8.202 | 91 | 806369 | 126.7834 | ug/l | 98 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 462059 | 117.2284 | ug/l | 98 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 580821 | 106.9357 | ug/l | 98 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 108590 | 112.1275 | ug/l | 99 |
| 103) | Camphor | 9.141 | 95 | 417482 | 1227.3658 | ug/l | 99 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 150159 | 101.0358 | ug/l | 96 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 284693 | 97.9491 | ug/l | 99 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 252581 | 97.6025 | ug/l | 97 |
| 107) | Naphthalene | 9.360 | 128 | 878728 | 116.5259 | ug/l | 100 |

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


Abundance
TIC: 2M156191.D\data.ms
Quant QT Reviewed
SampleID : CAL @100 PPB
Data File: 2M156191.D
Acq On : 08/31/21 23:47
Operator : WP
Sam Mult : 1 Vial# : 13
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 09701/21 14:38
Qt Upd On: 08/31/21 22:43
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 2M156191.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,C
Toluene-d8,S
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M156191.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
4-Chlorotoluene
t-Butylbenzene
sec-Butylbenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

SampleID : CAL @250 PPB Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M156189.D Sam Mult : 1 Vial# : 11 Qt On : 08/31/21 23:44
Acq On : 08/31/21 23:08 Misc : A,5ML Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 315374 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.732 | 117 | 251795 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 130852 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 91042 | 31.34 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 104.47% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 45315 | 33.78 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 112.60% | | | |
| 66) Toluene-d8 | 5.958 | 98 | 314594 | 30.60 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 102.00% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 124379 | 30.26 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 100.87% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 870096 | 451.4414 | ug/l | 55 |
| 6) Dichlorodifluoromethane | 1.685 | 85 | 455602 | 322.7687 | ug/l | 98 |
| 7) Chloromethane | 1.861 | 50 | 571105 | 330.6238 | ug/l | 99 |
| 8) Bromomethane | 2.239 | 94 | 444869 | 376.9576 | ug/l | 98 |
| 9) Vinyl Chloride | 1.953 | 62 | 615673 | 330.0374 | ug/l | 98 |
| 10) Chloroethane | 2.331 | 64 | 413802 | 354.1769 | ug/l | 98 |
| 11) Trichlorofluoromethane | 2.556 | 101 | 1104261 | 375.5949 | ug/l | 98 |
| 12) Ethyl ether | 2.800 | 59 | 414522 | 256.5808 | ug/l | 95 |
| 13) Furan | 2.837 | 39 | 819314 | 312.0591 | ug/l | 91 |
| 14) 1,1,2-Trichloro-1,2,2-... | 2.995 | 101 | 523788 | 408.5933 | ug/l | 98 |
| 15) Methylene Chloride | 3.410 | 84 | 610471 | 297.7755 | ug/l | 90 |
| 16) Acrolein | 2.916 | 56 | 606337 | 1757.8795 | ug/l | 100 |
| 17) Acrylonitrile | 3.617 | 53 | 317785 | 341.1306 | ug/l | 100 |
| 18) Iodomethane | 3.148 | 142 | 762187 | 302.0820 | ug/l | 98 |
| 19) Acetone | 3.044 | 43 | 1108015 | 1531.6760 | ug/l | 98 |
| 20) Carbon Disulfide | 3.215 | 76 | 1722602 | 330.2155 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.483 | 59 | 455829 | 1839.2307 | ug/l | 99 |
| 22) n-Hexane | 3.873 | 57 | 597157 | 480.6813 | ug/l | 95 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 1962730 | 372.6052 | ug/l | 94 |
| 24) 1,1-Dichloroethene | 3.008 | 61 | 842953 | 364.9922 | ug/l | 95 |
| 25) Methyl Acetate | 3.318 | 43 | 707786 | 361.4949 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 1760005 | 353.4725 | ug/l | 96 |
| 27) 1,1-Dichloroethane | 4.001 | 63 | 1032922 | 330.9219 | ug/l | 99 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 624505 | 311.1019 | ug/l | 97 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 1686801 | 302.6452 | ug/l | 97 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 1052856 | 330.0508 | ug/l | 97 |
| 31) Bromochloromethane | 4.568 | 49 | 470779 | 314.5367 | ug/l | 93 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 907326 | 344.0747 | ug/l | 99 |
| 33) Ethyl acetate | 4.434 | 43 | 760483m | 322.8880 | ug/l | |
| 34) 1,4-Dioxane | 5.495 | 88 | 548867 | 14973.9897 | ug/l | 98 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 803396 | 329.5288 | ug/l | 98 |
| 36) Chloroform | 4.605 | 83 | 1086157 | 316.1498 | ug/l | 99 |
| 38) Cyclohexane | 4.769 | 56 | 812754 | 410.8471 | ug/l | 92 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 844041 | 326.0834 | ug/l | 99 |
| 41) 2-Butanone | 4.410 | 43 | 413617m | 371.4571 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 1012001 | 321.5780 | ug/l | 98 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 940369 | 322.4795 | ug/l | 96 |
| 44) Vinyl Acetate | 4.020 | 43 | 2193767 | 389.6849 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 879365 | 320.0933 | ug/l | 100 |
| 46) Methylcyclohexane | 5.416 | 83 | 737822 | 339.9669 | ug/l | 95 |
| 47) Dibromomethane | 5.501 | 174 | 565043 | 259.4040 | ug/l | 99 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 605091 | 328.0776 | ug/l | 99 |
| 49) Trichloroethene | 5.300 | 130 | 714607 | 278.8054 | ug/l | 99 |
| 50) Benzene | 4.946 | 78 | 2299239 | 319.6380 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 1722808 | 316.3358 | ug/l | 99 |
| 53) Iso-propylacetate | 4.946 | 43 | 1498317 | 356.2984 | ug/l | 91 |
| 54) Methyl methacrylate | 5.458 | 41 | 652896 | 357.0364 | ug/l | 90 |
| 55) Dibromochloromethane | 6.422 | 129 | 822799 | 308.2840 | ug/l | 99 |
| 56) 2-Chloroethylvinylether | 5.708 | 63 | 463349 | 374.4156 | ug/l | 98 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 1016702 | 323.9393 | ug/l | 100 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 979442 | 339.5986 | ug/l | 99 |
| 59) Ethyl methacrylate | 6.111 | 41 | 678337 | 376.3138 | ug/l | 86 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 606241 | 298.8349 | ug/l | 97 |
| 61) 1,2-Dibromoethane | 6.501 | 107 | 692715 | 301.4624 | ug/l | 100 |
| 62) 1,3-Dichloropropane | 6.294 | 76 | 975987 | 307.9878 | ug/l | 99 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 802261 | 366.3180 | ug/l | 93 |
| 64) 2-Hexanone | 6.306 | 43 | 588491 | 377.0767 | ug/l | 94 |
| 65) Tetrachloroethene | 6.294 | 164 | 606560 | 271.3939 | ug/l | 97 |
| 67) Toluene | 5.995 | 92 | 1589306 | 311.7233 | ug/l | 98 |

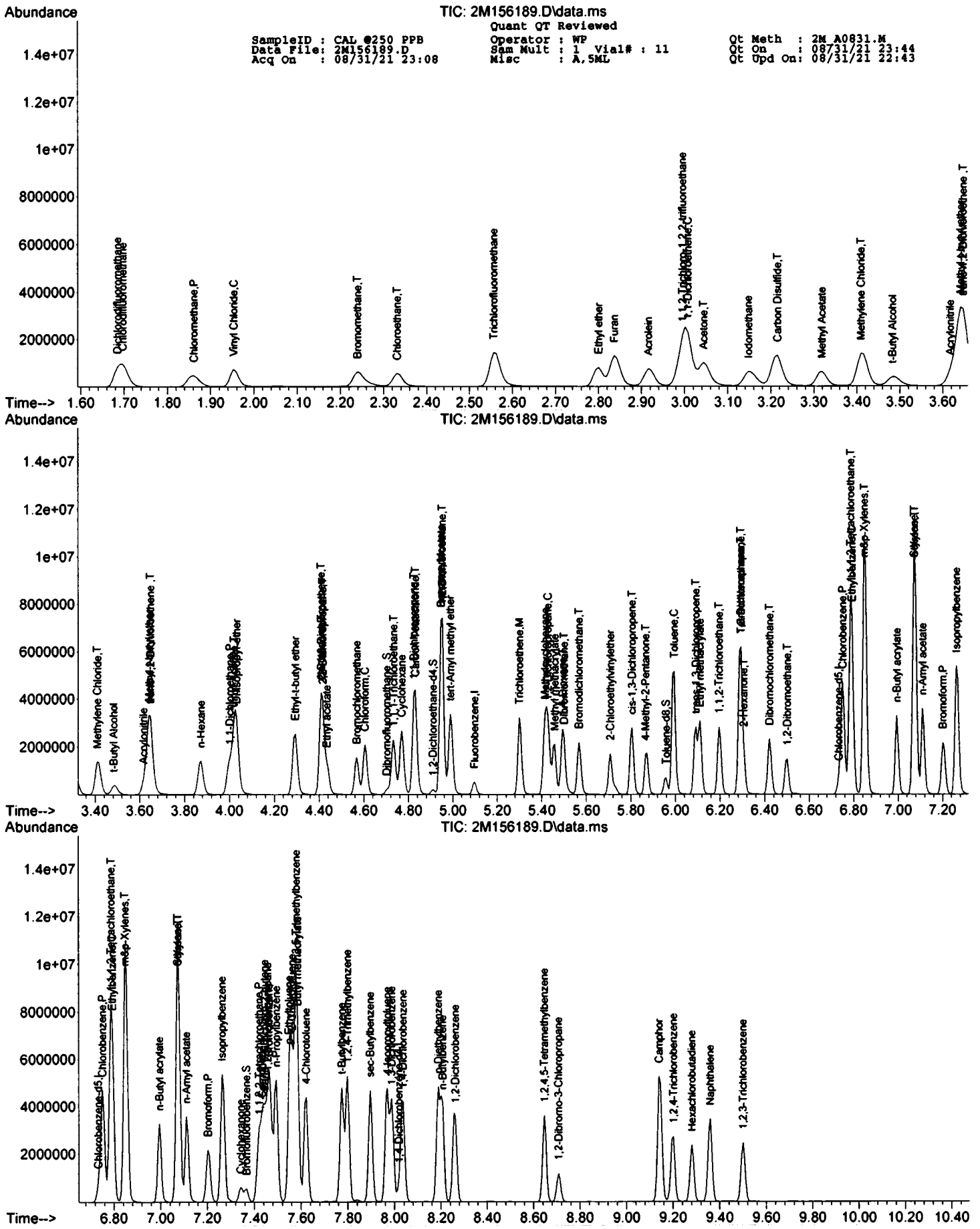
Quantitation Report (QT Reviewed)

SampleID : CAL @250 PPB  Operator : WP  Qt Meth : 2M_A0831.M
Data File: 2M156189.D  Sam Mult : 1  Vial# : 11  Qt On : 08/31/21 23:44
Acq On : 08/31/21 23:08  Misc : A,5ML  Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 6.787 | 133 | 688333 | 292.8774 | ug/l | 97 |
| 69) | Chlorobenzene | 6.751 | 112 | 1810593 | 294.6793 | ug/l | 99 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 1395918 | 369.1918 | ug/l | 98 |
| 72) | n-Amyl acetate | 7.110 | 43 | 1335023 | 401.1850 | ug/l | 93 |
| 73) | Bromoform | 7.202 | 173 | 749015 | 314.2982 | ug/l | 99 |
| 74) | Ethylbenzene | 6.793 | 106 | 798391 | 320.5764 | ug/l | 95 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.421 | 83 | 878862 | 317.4733 | ug/l | 97 |
| 77) | Styrene | 7.074 | 104 | 1977906 | 321.3985 | ug/l | 90 |
| 78) | m&p-Xylenes | 6.848 | 106 | 2245102 | 637.1956 | ug/l | 98 |
| 79) | o-Xylene | 7.074 | 106 | 1139726 | 324.8093 | ug/l | 99 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 379514 | 390.5417 | ug/l | 94 |
| 81) | 1,3-Dichlorobenzene | 7.988 | 146 | 1353965 | 291.4349 | ug/l | 99 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 1376182 | 291.3893 | ug/l | 99 |
| 83) | 1,2-Dichlorobenzene | 8.263 | 146 | 1293618 | 294.0073 | ug/l | 98 |
| 84) | Isopropylbenzene | 7.263 | 105 | 2696784 | 324.9389 | ug/l | 98 |
| 85) | Cyclohexanone | 7.342 | 55 | 176351 | 1606.3724 | ug/l | 96 |
| 86) | Camphene | 7.434 | 93 | 649374 | 315.3430 | ug/l | 100 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 1174719 | 346.1448 | ug/l | 97 |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 1544777 | 316.1100 | ug/l | 99 |
| 89) | p-Ethyltoluene | 7.549 | 105 | 2736862 | 325.1500 | ug/l | 97 |
| 90) | 4-Chlorotoluene | 7.623 | 91 | 1554320 | 310.9126 | ug/l | 98 |
| 91) | n-Propylbenzene | 7.495 | 91 | 2934899 | 328.6695 | ug/l | 98 |
| 92) | Bromobenzene | 7.464 | 77 | 1641446 | 331.8650 | ug/l | 95 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 1815325 | 290.5500 | ug/l | 99 |
| 94) | Butyl methacrylate | 7.586 | 41 | 981404 | 431.5066 | ug/l | 84 |
| 95) | t-Butylbenzene | 7.775 | 119 | 2027059 | 313.4149 | ug/l | 99 |
| 96) | 1,2,4-Trimethylbenzene | 7.799 | 105 | 2122023 | 319.2505 | ug/l | 98 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 2364603 | 322.2170 | ug/l | 95 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 2009202 | 306.6176 | ug/l | 99 |
| 99) | n-Butylbenzene | 8.208 | 91 | 2005835 | 327.8786 | ug/l | 98 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 1155535 | 304.7950 | ug/l | 98 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 1445374 | 276.6623 | ug/l | 98 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 279575 | 300.1303 | ug/l | 97 |
| 103) | Camphor | 9.141 | 95 | 1022635 | 3125.6933 | ug/l | 100 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 372239 | 260.3966 | ug/l | 96 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 732469 | 262.0006 | ug/l | 99 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 640855 | 257.4599 | ug/l | 97 |
| 107) | Naphthalene | 9.360 | 128 | 2152331 | 296.7335 | ug/l | 100 |

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


Abundance
TIC: 2M156189.D\data.ms
Quant QT Reviewed
SampleID : CAL @250 PPB
Data File: 2M156189.D
Acq On : 08/31/21 23:08
Operator : WP
Sam Mult : 1 Vial# : 11
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 08/31/21 23:44
Qt Upd On: 08/31/21 22:43
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @500 PPB  Operator : WP  Qt Meth : 2M_A0831.M
Data File: 2M156187.D  Sam Mult : 1 Vial# : 9  Qt On : 08/31/21 22:43
Acq On : 08/31/21 22:29  Misc : A,5ML  Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 303998 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 245550 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.025 | 152 | 127734 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.703 | 111 | 88356 | 31.55 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 105.17% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 44916 | 34.74 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 115.80% | | | |
| 66) Toluene-d8 | 5.958 | 98 | 310487 | 30.97 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.23% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 124699 | 31.07 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.57% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 1596072 | 859.0963 | ug/l | 55 |
| 6) Dichlorodifluoromethane | 1.679 | 85 | 839772 | 617.1949 | ug/l | 99 |
| 7) Chloromethane | 1.856 | 50 | 932376 | 559.9696 | ug/l | 99 |
| 8) Bromomethane | 2.227 | 94 | 745062 | 654.9497 | ug/l | 100 |
| 9) Vinyl Chloride | 1.953 | 62 | 1141517 | 634.8199 | ug/l | 98 |
| 10) Chloroethane | 2.319 | 64 | 783203 | 695.4360 | ug/l | 97 |
| 11) Trichlorofluoromethane | 2.551 | 101 | 2165491 | 764.1163 | ug/l | 97 |
| 12) Ethyl ether | 2.794 | 59 | 767754 | 493.0079 | ug/l | 95 |
| 13) Furan | 2.831 | 39 | 1528395 | 603.9171 | ug/l | 89 |
| 14) 1,1,2-Trichloro-1,2,2-... | 2.989 | 101 | 1037794 | 839.8505 | ug/l | 97 |
| 15) Methylene Chloride | 3.410 | 84 | 1124250 | 568.9080 | ug/l | 90 |
| 16) Acrolein | 2.916 | 56 | 1162754 | 3497.1805 | ug/l | 98 |
| 17) Acrylonitrile | 3.617 | 53 | 611320 | 680.7867 | ug/l | 98 |
| 18) Iodomethane | 3.148 | 142 | 1628364 | 669.5298 | ug/l | 98 |
| 19) Acetone | 3.044 | 43 | 2059975 | 2954.1897 | ug/l | 99 |
| 20) Carbon Disulfide | 3.209 | 76 | 3200543 | 636.4896 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.489 | 59 | 854703 | 3577.7060 | ug/l | 96 |
| 22) n-Hexane | 3.867 | 57 | 1149986 | 960.3210 | ug/l | 94 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 3758316 | 740.1791 | ug/l | 92 |
| 24) 1,1-Dichloroethene | 3.002 | 61 | 1618074 | 726.8315 | ug/l | 95 |
| 25) Methyl Acetate | 3.319 | 43 | 1317027 | 697.8307 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 3321849 | 692.1126 | ug/l | 95 |
| 27) 1,1-Dichloroethane | 4.002 | 63 | 1951250 | 648.5240 | ug/l | 99 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 1187076 | 613.4799 | ug/l | 95 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 3177686 | 591.4746 | ug/l | 97 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 2062814 | 670.8525 | ug/l | 93 |
| 31) Bromochloromethane | 4.568 | 49 | 908199 | 629.4923 | ug/l | 98 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 1783281 | 701.5592 | ug/l | 99 |
| 33) Ethyl acetate | 4.434 | 43 | 1434993m | 632.0732 | ug/l | |
| 34) 1,4-Dioxane | 5.495 | 88 | 993416 | 28116.2063 | ug/l | 92 |
| 35) 1,1-Dichloropropene | 4.825 | 75 | 1547343 | 658.4238 | ug/l | 99 |
| 36) Chloroform | 4.605 | 83 | 2057342 | 621.2437 | ug/l | 99 |
| 38) Cyclohexane | 4.770 | 56 | 1558704 | 817.4100 | ug/l | 92 |
| 40) 1,2-Dichloroethane | 4.953 | 62 | 1715213 | 687.4456 | ug/l | 99 |
| 41) 2-Butanone | 4.410 | 43 | 827478m | 770.9423 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 1928368 | 635.6975 | ug/l | 97 |
| 43) Carbon Tetrachloride | 4.831 | 117 | 1816373 | 646.1956 | ug/l | 96 |
| 44) Vinyl Acetate | 4.020 | 43 | 4188727 | 771.8986 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 1683474 | 635.7246 | ug/l | 100 |
| 46) Methylcyclohexane | 5.416 | 83 | 1425657 | 681.4833 | ug/l | 95 |
| 47) Dibromomethane | 5.495 | 174 | 1083303 | 515.9412 | ug/l | 99 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 1162292 | 653.7720 | ug/l | 99 |
| 49) Trichloroethene | 5.300 | 130 | 1358506 | 549.8581 | ug/l | 99 |
| 50) Benzene | 4.946 | 78 | 4357793 | 628.4866 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 3224735 | 614.2719 | ug/l | 99 |
| 53) Iso-propylacetate | 4.946 | 43 | 2972571 | 724.8523 | ug/l | 91 |
| 54) Methyl methacrylate | 5.459 | 41 | 1254211 | 703.3092 | ug/l | 89 |
| 55) Dibromochloromethane | 6.422 | 129 | 1579204 | 606.7399 | ug/l | 100 |
| 56) 2-Chloroethylvinylether | 5.709 | 63 | 869583 | 720.5497 | ug/l | 99 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 1959675 | 640.2671 | ug/l | 100 |
| 58) trans-1,3-Dichloropropene | 6.093 | 75 | 1909258 | 678.8267 | ug/l | 98 |
| 59) Ethyl methacrylate | 6.111 | 41 | 1327712 | 755.2934 | ug/l | 84 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 1148917 | 580.7400 | ug/l | 95 |
| 61) 1,2-Dibromoethane | 6.501 | 107 | 1315221 | 586.9275 | ug/l | 99 |
| 62) 1,3-Dichloropropane | 6.294 | 76 | 1907029 | 617.0977 | ug/l | 100 |
| 63) 4-Methyl-2-Pentanone | 5.873 | 43 | 1545236 | 723.5100 | ug/l | 95 |
| 64) 2-Hexanone | 6.306 | 43 | 1143827 | 751.5491 | ug/l | 94 |
| 65) Tetrachloroethene | 6.294 | 164 | 1217401 | 558.5565 | ug/l | 99 |
| 67) Toluene | 5.995 | 92 | 2990991 | 601.5670 | ug/l | 94 |

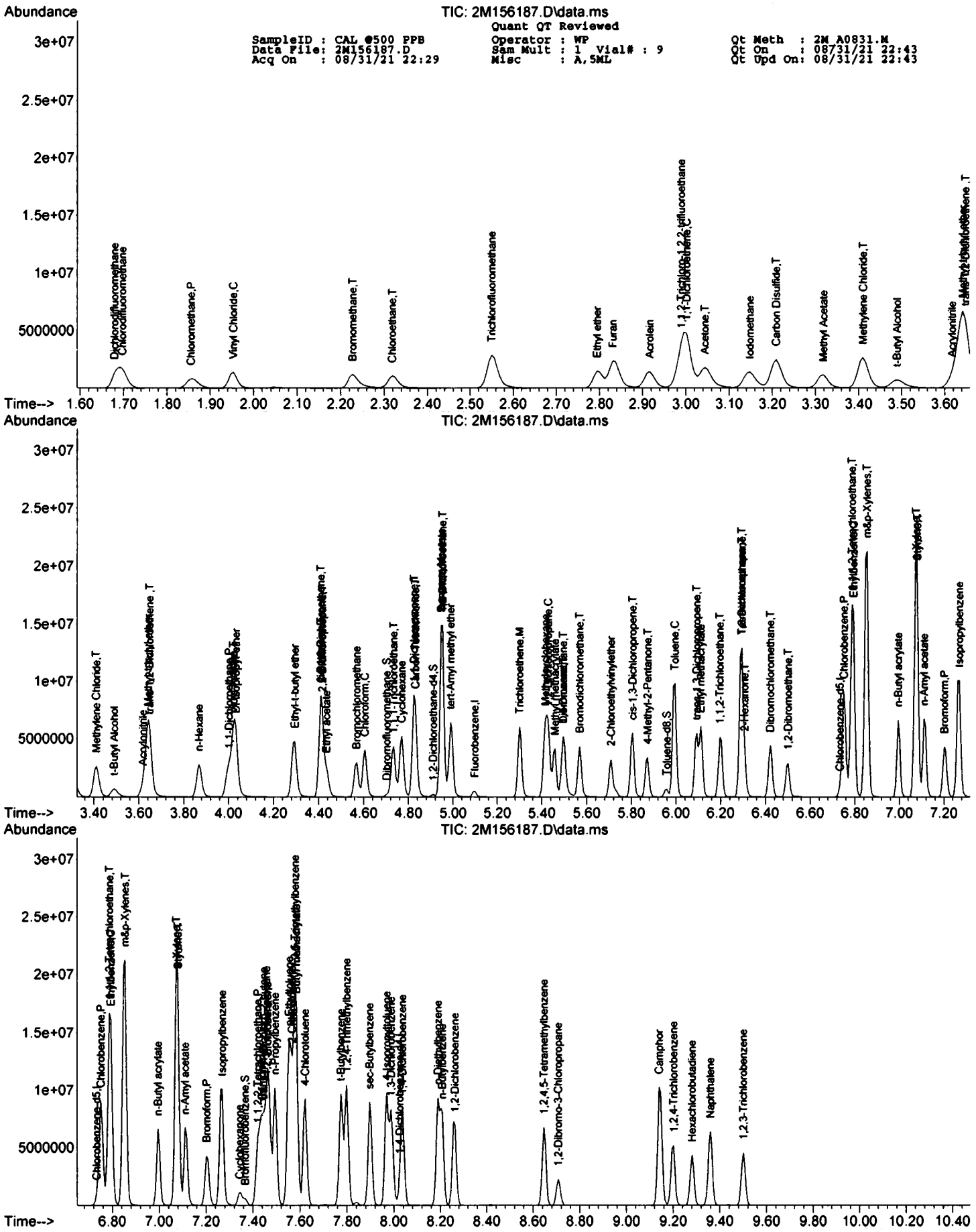
Quantitation Report (QT Reviewed)

SampleID : CAL @500 PPB  Operator : WP  Qt Meth : 2M_A0831.M
Data File: 2M156187.D  Sam Mult : 1  Vial# : 9  Qt On : 08/31/21 22:43
Acq On : 08/31/21 22:29  Misc : A,5ML  Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 6.788 | 133 | 1389396 | 606.2063 | ug/l | 96 |
| 69) | Chlorobenzene | 6.751 | 112 | 3387974 | 565.4263 | ug/l | 98 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 2751270 | 745.4168 | ug/l | 97 |
| 72) | n-Amyl acetate | 7.111 | 43 | 2627349 | 808.8120 | ug/l | 92 |
| 73) | Bromoform | 7.202 | 173 | 1452624 | 624.4223 | ug/l | 99 |
| 74) | Ethylbenzene | 6.794 | 106 | 1656274 | 681.2742 | ug/l | 86 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.422 | 83 | 1693876 | 626.8187 | ug/l | 98 |
| 77) | Styrene | 7.080 | 104 | 3975276 | 661.7278 | ug/l | 97 |
| 78) | m&p-Xylenes | 6.855 | 106 | 4530918 | 1317.3365 | ug/l | 87 |
| 79) | o-Xylene | 7.074 | 106 | 2314215 | 675.6248 | ug/l | 93 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 783153 | 825.5817 | ug/l | 96 |
| 81) | 1,3-Dichlorobenzene | 7.989 | 146 | 2559548 | 564.3796 | ug/l | 99 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 2581966 | 560.0439 | ug/l | 99 |
| 83) | 1,2-Dichlorobenzene | 8.263 | 146 | 2418816 | 563.1560 | ug/l | 99 |
| 84) | Isopropylbenzene | 7.269 | 105 | 5047203 | 622.9887 | ug/l | 98 |
| 85) | Cyclohexanone | 7.342 | 55 | 336566 | 3140.5984 | ug/l | 96 |
| 86) | Camphene | 7.440 | 93 | 1277028 | 635.2763 | ug/l | 99 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 2348213 | 708.8187 | ug/l | 96 |
| 88) | 2-Chlorotoluene | 7.568 | 91 | 2999653 | 628.8069 | ug/l | 96 |
| 89) | p-Ethyltoluene | 7.556 | 105 | 5147187 | 626.4330 | ug/l | 96 |
| 90) | 4-Chlorotoluene | 7.623 | 91 | 3153442 | 646.1846 | ug/l | 98 |
| 91) | n-Propylbenzene | 7.495 | 91 | 5444258 | 624.5666 | ug/l | 97 |
| 92) | Bromobenzene | 7.464 | 77 | 3255611 | 674.2814 | ug/l | 95 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 3751970 | 615.1764 | ug/l | 97 |
| 94) | Butyl methacrylate | 7.586 | 41 | 1998882 | 900.3277 | ug/l | 82 |
| 95) | t-Butylbenzene | 7.775 | 119 | 3844875 | 608.9889 | ug/l | 99 |
| 96) | 1,2,4-Trimethylbenzene | 7.800 | 105 | 3980401 | 613.4542 | ug/l | 97 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 4397067 | 613.8004 | ug/l | 95 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 3763558 | 588.3638 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.208 | 91 | 3767684 | 630.9082 | ug/l | 98 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 2184724 | 590.3304 | ug/l | 98 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 2711654 | 531.7136 | ug/l | 98 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 543120 | 597.2845 | ug/l | 96 |
| 103) | Camphor | 9.141 | 95 | 1959376 | 6135.0392 | ug/l | 99 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 688405 | 493.3230 | ug/l | 96 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 1369688 | 501.8901 | ug/l | 99 |
| 106) | 1,2,3-Trichlorobenzene | 9.501 | 180 | 1180741 | 485.9352 | ug/l | 97 |
| 107) | Naphthalene | 9.360 | 128 | 3935899 | 555.8726 | ug/l | 100 |

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


Abundance
TIC: 2M156187.D\data.ms
Quant QT Reviewed
SampleID : CAL @500 PPB
Data File: 2M156187.D
Acq On : 08/31/21 22:29
Operator : WP
Sam Mult : 1 Vial# : 9
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 08/31/21 22:43
Qt Upd On: 08/31/21 22:43
Time-->

SampleID : CAL @1 PPB Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M156182.D Sam Mult : 1 Vial# : 4 Qt On : 08/31/21 22:49
Acq On : 08/31/21 20:51 Misc : A,5ML Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 300686 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 215569 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 95889 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.708 | 111 | 79335 | 28.64 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.47% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 45240 | 35.37 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 117.90% | | | |
| 66) Toluene-d8 | 5.958 | 98 | 286825 | 32.58 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.60% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 87754 | 29.13 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.10% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 1870 | 1.0176 | ug/l | 63 |
| 6) Dichlorodifluoromethane | 1.685 | 85 | 1128 | 0.8382 | ug/l | 93 |
| 7) Chloromethane | 1.861 | 50 | 1862 | 1.1306 | ug/l | 86 |
| 8) Bromomethane | 2.258 | 94 | 1890 | 1.6797 | ug/l | 93 |
| 9) Vinyl Chloride | 1.953 | 62 | 1912 | 1.0750 | ug/l | 92 |
| 10) Chloroethane | 2.343 | 64 | 1367 | 1.2272 | ug/l | 84 |
| 11) Trichlorofluoromethane | 2.563 | 101 | 3218 | 1.1480 | ug/l | 95 |
| 12) Ethyl ether | 2.806 | 59 | 1526 | 0.9907 | ug/l | 90 |
| 13) Furan | 2.837 | 39 | 2962 | 1.1833 | ug/l | 81 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.001 | 101 | 1651 | 1.3508 | ug/l | 93 |
| 15) Methylene Chloride | 3.416 | 84 | 2337 | 1.1956 | ug/l | 89 |
| 16) Acrolein | 2.922 | 56 | 1746m | 5.3092 | ug/l | |
| 17) Acrylonitrile | 3.623 | 53 | 1025m | 1.1540 | ug/l | |
| 18) Iodomethane | 3.148 | 142 | 1497 | 0.6223 | ug/l | 87 |
| 19) Acetone | 3.044 | 43 | 6081 | 8.8168 | ug/l | 92 |
| 20) Carbon Disulfide | 3.215 | 76 | 5277 | 1.0610 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.483 | 59 | 1434 | 6.0687 | ug/l | 83 |
| 22) n-Hexane | 3.873 | 57 | 2155 | 1.8194 | ug/l | 81 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 6821 | 1.3582 | ug/l | 95 |
| 24) 1,1-Dichloroethene | 3.001 | 61 | 2763 | 1.2548 | ug/l | 90 |
| 25) Methyl Acetate | 3.318 | 43 | 2950 | 1.5803 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.648 | 73 | 5707 | 1.2022 | ug/l | 83 |
| 27) 1,1-Dichloroethane | 4.001 | 63 | 3358 | 1.1284 | ug/l | 99 |
| 28) trans-1,2-Dichloroethene | 3.654 | 96 | 2108 | 1.1014 | ug/l | 95 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 5516 | 1.0380 | ug/l | 94 |
| 30) cis-1,2-Dichloroethene | 4.416 | 61 | 3692 | 1.2139 | ug/l | 88 |
| 31) Bromochloromethane | 4.562 | 49 | 1770 | 1.2403 | ug/l | 57 |
| 32) 2,2-Dichloropropane | 4.422 | 77 | 2834 | 1.1272 | ug/l | 94 |
| 33) Ethyl acetate | 4.440 | 43 | 3245m | 1.4451 | ug/l | |
| 34) 1,4-Dioxane | 5.495 | 88 | 1907 | 54.5675 | ug/l | 90 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 2941 | 1.2652 | ug/l | 92 |
| 36) Chloroform | 4.605 | 83 | 3480 | 1.0624 | ug/l | 91 |
| 38) Cyclohexane | 4.769 | 56 | 3021 | 1.6017 | ug/l | 86 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 3389 | 1.3732 | ug/l | 89 |
| 41) 2-Butanone | 4.416 | 43 | 1563m | 1.4723 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 3012 | 1.0039 | ug/l | 97 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 2605 | 0.9370 | ug/l | 87 |
| 44) Vinyl Acetate | 4.026 | 43 | 7169 | 1.3357 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 2691 | 1.0274 | ug/l | 87 |
| 46) Methylcyclohexane | 5.416 | 83 | 2588 | 1.2507 | ug/l | 93 |
| 47) Dibromomethane | 5.501 | 174 | 1534 | 0.7386 | ug/l | 87 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 2087 | 1.1868 | ug/l | 95 |
| 49) Trichloroethene | 5.300 | 130 | 2067 | 0.8458 | ug/l | 83 |
| 50) Benzene | 4.952 | 78 | 8328 | 1.2143 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 6046 | 1.1644 | ug/l | 93 |
| 53) Iso-propylacetate | 4.946 | 43 | 5936 | 1.6488 | ug/l | 82 |
| 54) Methyl methacrylate | 5.458 | 41 | 2195 | 1.4021 | ug/l | 80 |
| 55) Dibromochloromethane | 6.422 | 129 | 1774 | 0.7764 | ug/l | 100 |
| 56) 2-Chloroethylvinylether | 5.708 | 63 | 1526 | 1.4403 | ug/l | 99 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 2937 | 1.0930 | ug/l | 95 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 2614 | 1.0587 | ug/l | 96 |
| 59) Ethyl methacrylate | 6.111 | 41 | 2281 | 1.4781 | ug/l | 74 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 2050 | 1.1803 | ug/l | 97 |
| 61) 1,2-Dibromoethane | 6.501 | 107 | 1891 | 0.9612 | ug/l | 87 |
| 62) 1,3-Dichloropropane | 6.294 | 76 | 3398 | 1.2525 | ug/l | 89 |
| 63) 4-Methyl-2-Pentanone | 5.873 | 43 | 2715 | 1.4480 | ug/l | 91 |
| 64) 2-Hexanone | 6.312 | 43 | 2370 | 1.7738 | ug/l | 83 |
| 65) Tetrachloroethene | 6.287 | 164 | 1711 | 0.8942 | ug/l | 91 |
| 67) Toluene | 5.995 | 92 | 4859 | 1.1132 | ug/l | 86 |

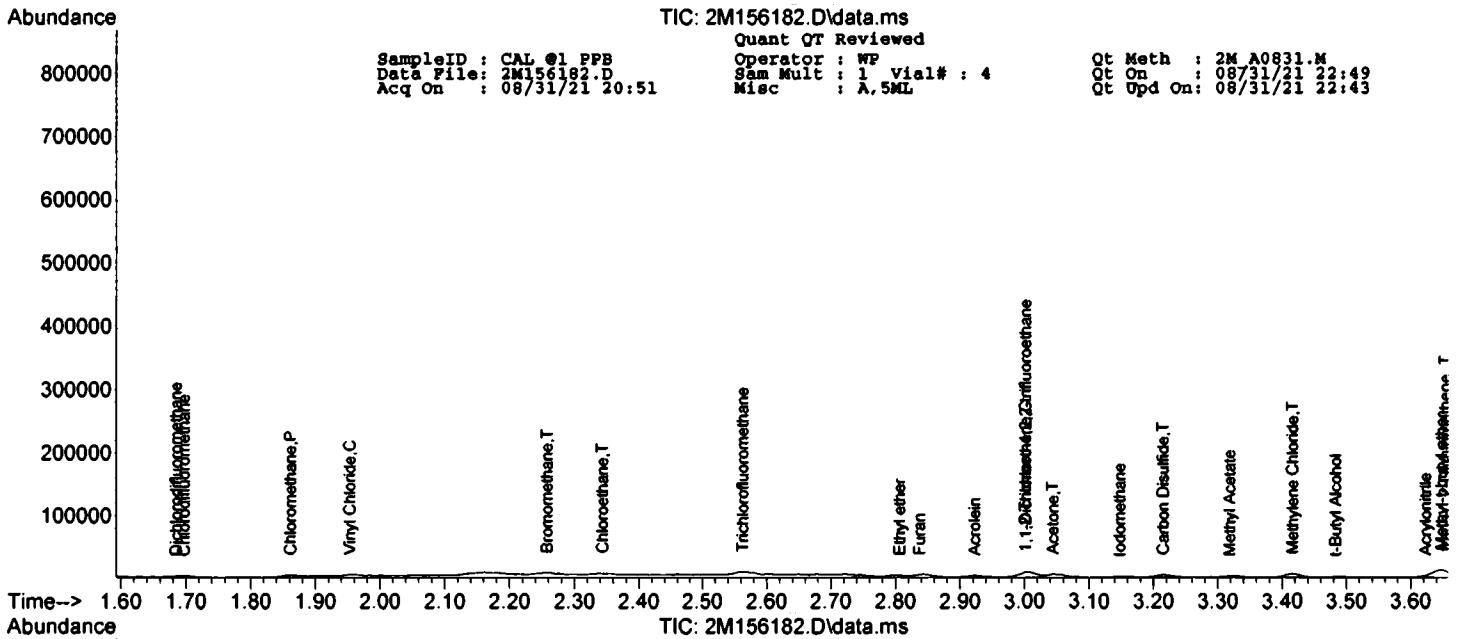
Quantitation Report (QT Reviewed)

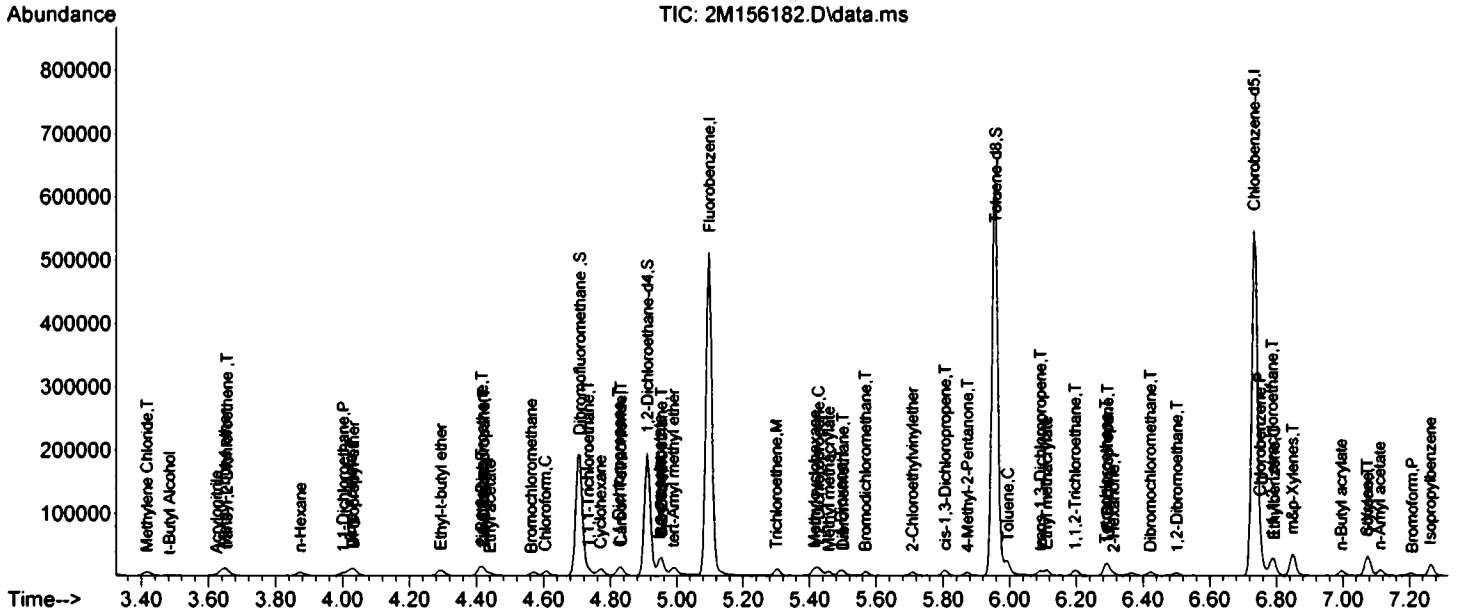
SampleID : CAL @1 PPB Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M156182.D Sam Mult : 1 Vial# : 4 Qt On : 08/31/21 22:49
Acq On : 08/31/21 20:51 Misc : A,5ML Qt Upd On: 08/31/21 22:43

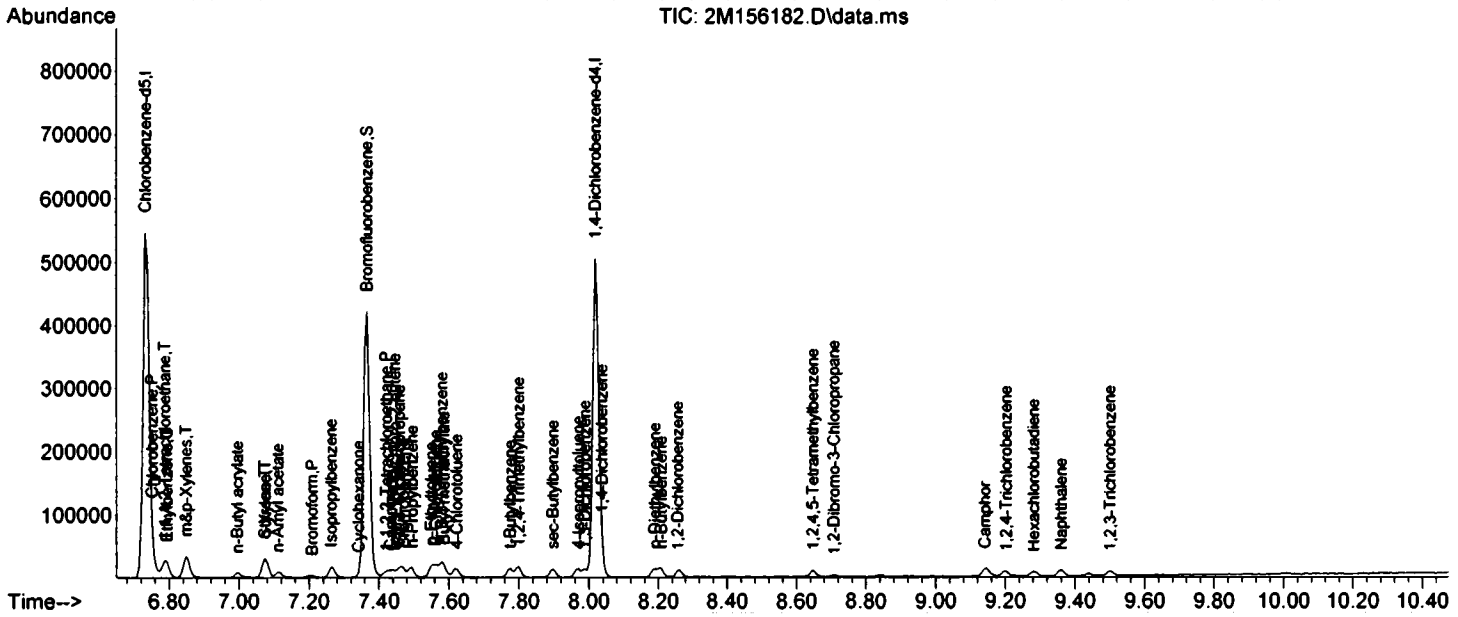
Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 6.787 | 133 | 1626m | 0.8081 | ug/l | |
| 69) | Chlorobenzene | 6.751 | 112 | 5505 | 1.0465 | ug/l | 97 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 3753 | 1.3545 | ug/l | 95 |
| 72) | n-Amyl acetate | 7.111 | 43 | 4140 | 1.6977 | ug/l | 94 |
| 73) | Bromoform | 7.208 | 173 | 1331 | 0.7622 | ug/l | 89 |
| 74) | Ethylbenzene | 6.793 | 106 | 2413 | 1.3222 | ug/l | 92 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.421 | 83 | 2751 | 1.3561 | ug/l | 92 |
| 77) | Styrene | 7.074 | 104 | 5598 | 1.2413 | ug/l | 89 |
| 78) | m&p-Xylenes | 6.848 | 106 | 7102 | 2.7506 | ug/l | 90 |
| 79) | o-Xylene | 7.074 | 106 | 3439 | 1.3374 | ug/l | 97 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 1335 | 1.8747 | ug/l | 68 |
| 81) | 1,3-Dichlorobenzene | 7.988 | 146 | 3530m | 1.0369 | ug/l | |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 3873 | 1.1191 | ug/l | 67 |
| 83) | 1,2-Dichlorobenzene | 8.257 | 146 | 3574 | 1.1085 | ug/l | 94 |
| 84) | Isopropylbenzene | 7.263 | 105 | 7379 | 1.2133 | ug/l | 93 |
| 85) | Cyclohexanone | 7.342 | 55 | 698m | 8.6763 | ug/l | |
| 86) | Camphene | 7.434 | 93 | 1884 | 1.2485 | ug/l | 99 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 3399 | 1.3667 | ug/l | 97 |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 4642 | 1.2963 | ug/l | 99 |
| 89) | p-Ethyltoluene | 7.549 | 105 | 7878 | 1.2772 | ug/l | 92 |
| 90) | 4-Chlorotoluene | 7.623 | 91 | 4706 | 1.2846 | ug/l | 93 |
| 91) | n-Propylbenzene | 7.495 | 91 | 9003 | 1.3758 | ug/l | 98 |
| 92) | Bromobenzene | 7.470 | 77 | 5608 | 1.5472 | ug/l | 91 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 5209 | 1.1377 | ug/l | 85 |
| 94) | Butyl methacrylate | 7.586 | 41 | 2398 | 1.4388 | ug/l | 88 |
| 95) | t-Butylbenzene | 7.775 | 119 | 5473 | 1.1548 | ug/l | 94 |
| 96) | 1,2,4-Trimethylbenzene | 7.799 | 105 | 6953 | 1.4275 | ug/l | 95 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 6420 | 1.1938 | ug/l | 93 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 5474 | 1.1400 | ug/l | 93 |
| 99) | n-Butylbenzene | 8.208 | 91 | 6201 | 1.3832 | ug/l | 94 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 3287 | 1.1831 | ug/l | 93 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 3891 | 1.0163 | ug/l | 96 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 521 | 0.7632 | ug/l | 84 |
| 103) | Camphor | 9.141 | 95 | 2726 | 11.3701 | ug/l | 96 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 926 | 0.8840 | ug/l | 95 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 1695 | 0.8274 | ug/l | 89 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 1677 | 0.9194 | ug/l | 97 |
| 107) | Naphthalene | 9.360 | 128 | 5563 | 1.0466 | ug/l | 100 |

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


Abundance
TIC: 2M156182.D\data.ms
Quant QT Reviewed
SampleID : CAL @1 PPB
Data File: 2M156182.D
Acq On : 08/31/21 20:51
Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 08/31/21 22:49
Qt Upd On: 08/31/21 22:43
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->


Abundance
TIC: 2M156182.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M156182.D\data.ms
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
sec-Butylbenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @0.5 PPB  Operator : WP  Qt Meth : 2M_A0831.M
Data File: 2M156181.D  Sam Mult : 1  Vial# : 3  Qt On : 08/31/21 22:51
Acq On : 08/31/21 20:31  Misc : A,5ML  Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 291942 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 210942 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 94196 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 76362 | 28.39 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 94.63% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 44290 | 35.67 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 118.90% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 281479 | 32.68 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.93% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 86163 | 29.12 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.07% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 0.000 | | 0 | N.D. | d | |
| 6) Dichlorodifluoromethane | 0.000 | | 0 | N.D. | d | |
| 7) Chloromethane | 0.000 | | 0 | N.D. | d | |
| 8) Bromomethane | 0.000 | | 0 | N.D. | d | |
| 9) Vinyl Chloride | 0.000 | | 0 | N.D. | d | |
| 10) Chloroethane | 0.000 | | 0 | N.D. | d | |
| 11) Trichlorofluoromethane | 0.000 | | 0 | N.D. | d | |
| 12) Ethyl ether | 0.000 | | 0 | N.D. | d | |
| 13) Furan | 0.000 | | 0 | N.D. | d | |
| 14) 1,1,2-Trichloro-1,2,2-... | 0.000 | | 0 | N.D. | d | |
| 15) Methylene Chloride | 0.000 | | 0 | N.D. | d | |
| 16) Acrolein | 0.000 | | 0 | N.D. | d | |
| 17) Acrylonitrile | 0.000 | | 0 | N.D. | d | |
| 18) Iodomethane | 0.000 | | 0 | N.D. | d | |
| 19) Acetone | 0.000 | | 0 | N.D. | d | |
| 20) Carbon Disulfide | 0.000 | | 0 | N.D. | d | |
| 21) t-Butyl Alcohol | 0.000 | | 0 | N.D. | d | |
| 22) n-Hexane | 0.000 | | 0 | N.D. | d | |
| 23) Di-isopropyl-ether | 0.000 | | 0 | N.D. | d | |
| 24) 1,1-Dichloroethene | 0.000 | | 0 | N.D. | d | |
| 25) Methyl Acetate | 0.000 | | 0 | N.D. | d | |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 3406 | 0.7390 | ug/l | 86 |
| 27) 1,1-Dichloroethane | 0.000 | | 0 | N.D. | d | |
| 28) trans-1,2-Dichloroethene | 0.000 | | 0 | N.D. | d | |
| 29) Ethyl-t-butyl ether | 0.000 | | 0 | N.D. | d | |
| 30) cis-1,2-Dichloroethene | 0.000 | | 0 | N.D. | d | |
| 31) Bromochloromethane | 0.000 | | 0 | N.D. | d | |
| 32) 2,2-Dichloropropane | 0.000 | | 0 | N.D. | d | |
| 33) Ethyl acetate | 0.000 | | 0 | N.D. | d | |
| 34) 1,4-Dioxane | 0.000 | | 0 | N.D. | d | |
| 35) 1,1-Dichloropropene | 0.000 | | 0 | N.D. | d | |
| 36) Chloroform | 0.000 | | 0 | N.D. | d | |
| 38) Cyclohexane | 0.000 | | 0 | N.D. | d | |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 1894 | 0.7905 | ug/l | 94 |
| 41) 2-Butanone | 0.000 | | 0 | N.D. | d | |
| 42) 1,1,1-Trichloroethane | 0.000 | | 0 | N.D. | d | |
| 43) Carbon Tetrachloride | 0.000 | | 0 | N.D. | d | |
| 44) Vinyl Acetate | 0.000 | | 0 | N.D. | d | |
| 45) Bromodichloromethane | 0.000 | | 0 | N.D. | d | |
| 46) Methylcyclohexane | 0.000 | | 0 | N.D. | d | |
| 47) Dibromomethane | 0.000 | | 0 | N.D. | d | |
| 48) 1,2-Dichloropropane | 0.000 | | 0 | N.D. | d | |
| 49) Trichloroethene | 0.000 | | 0 | N.D. | d | |
| 50) Benzene | 4.952 | 78 | 4723 | 0.7093 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 0.000 | | 0 | N.D. | d | |
| 53) Iso-propylacetate | 0.000 | | 0 | N.D. | d | |
| 54) Methyl methacrylate | 0.000 | | 0 | N.D. | d | |
| 55) Dibromochloromethane | 0.000 | | 0 | N.D. | d | |
| 56) 2-Chloroethylvinylether | 0.000 | | 0 | N.D. | d | |
| 57) cis-1,3-Dichloropropene | 0.000 | | 0 | N.D. | d | |
| 58) trans-1,3-Dichloropropene | 0.000 | | 0 | N.D. | d | |
| 59) Ethyl methacrylate | 0.000 | | 0 | N.D. | d | |
| 60) 1,1,2-Trichloroethane | 0.000 | | 0 | N.D. | d | |
| 61) 1,2-Dibromoethane | 0.000 | | 0 | N.D. | d | |
| 62) 1,3-Dichloropropane | 0.000 | | 0 | N.D. | d | |
| 63) 4-Methyl-2-Pentanone | 0.000 | | 0 | N.D. | d | |
| 64) 2-Hexanone | 0.000 | | 0 | N.D. | d | |
| 65) Tetrachloroethene | 0.000 | | 0 | N.D. | d | |
| 67) Toluene | 0.000 | | 0 | N.D. | d | |

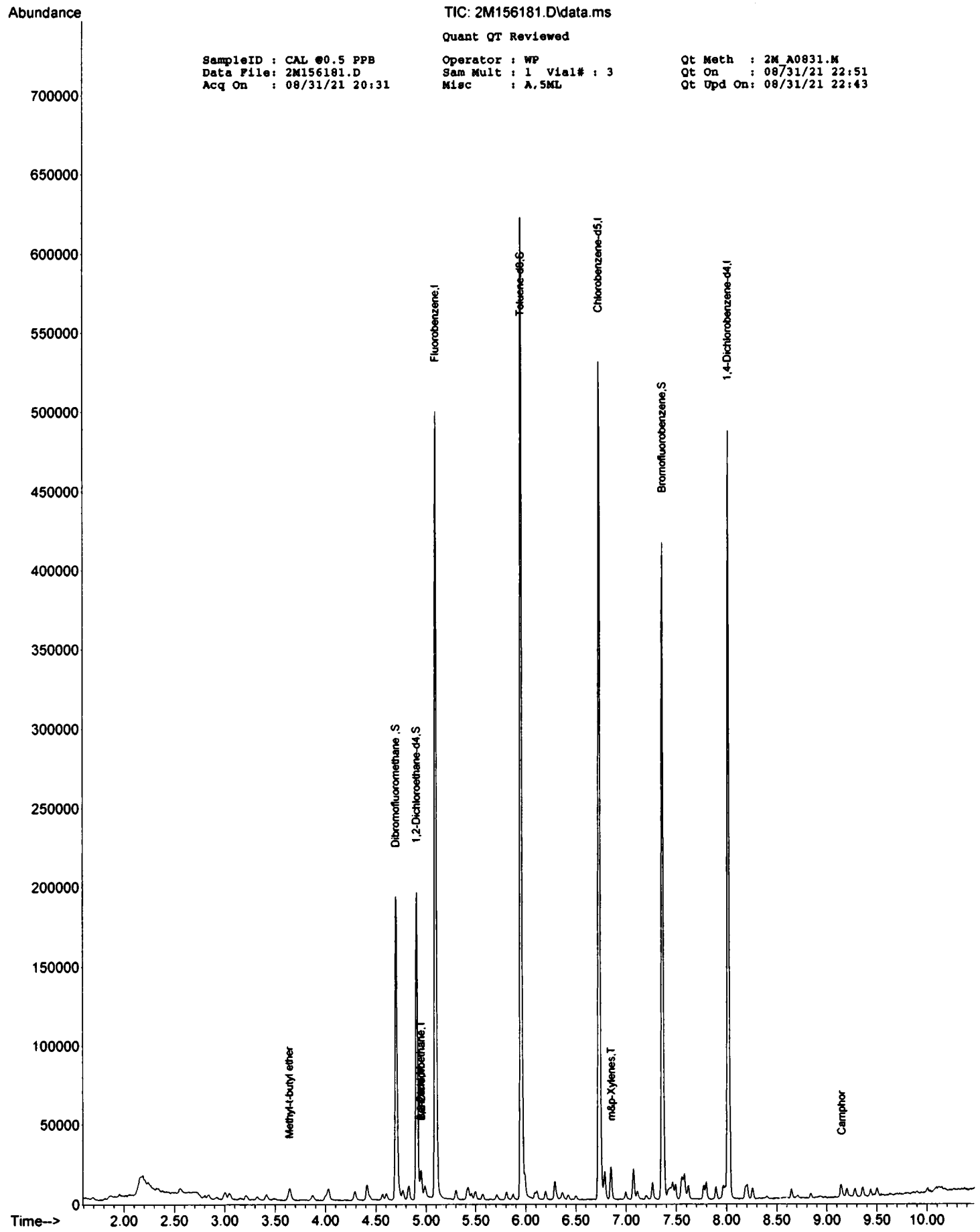
Quantitation Report (QT Reviewed)

SampleID : CAL @0.5 PPB  Operator : WP  Qt Meth : 2M_A0831.M
Data File: 2M156181.D  Sam Mult : 1  Vial# : 3  Qt On : 08/31/21 22:51
Acq On : 08/31/21 20:31  Misc : A,5ML  Qt Upd On: 08/31/21 22:43

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 0.000 | | 0 | N.D. d | | |
| 69) | Chlorobenzene | 0.000 | | 0 | N.D. d | | |
| 71) | n-Butyl acrylate | 0.000 | | 0 | N.D. d | | |
| 72) | n-Amyl acetate | 0.000 | | 0 | N.D. d | | |
| 73) | Bromoform | 0.000 | | 0 | N.D. d | | |
| 74) | Ethylbenzene | 0.000 | | 0 | N.D. d | | |
| 75) | 1,1,2,2-Tetrachloroethane | 0.000 | | 0 | N.D. d | | |
| 77) | Styrene | 0.000 | | 0 | N.D. d | | |
| 78) | m&p-Xylenes | 6.854 | 106 | 4171 | 1.6445 | ug/l | 92 |
| 79) | o-Xylene | 0.000 | | 0 | N.D. d | | |
| 80) | trans-1,4-Dichloro-2-b... | 0.000 | | 0 | N.D. d | | |
| 81) | 1,3-Dichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 82) | 1,4-Dichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 83) | 1,2-Dichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 84) | Isopropylbenzene | 0.000 | | 0 | N.D. d | | |
| 85) | Cyclohexanone | 0.000 | | 0 | N.D. d | | |
| 86) | Camphene | 0.000 | | 0 | N.D. d | | |
| 87) | 1,2,3-Trichloropropane | 0.000 | | 0 | N.D. d | | |
| 88) | 2-Chlorotoluene | 0.000 | | 0 | N.D. d | | |
| 89) | p-Ethyltoluene | 0.000 | | 0 | N.D. d | | |
| 90) | 4-Chlorotoluene | 0.000 | | 0 | N.D. d | | |
| 91) | n-Propylbenzene | 0.000 | | 0 | N.D. d | | |
| 92) | Bromobenzene | 0.000 | | 0 | N.D. d | | |
| 93) | 1,3,5-Trimethylbenzene | 0.000 | | 0 | N.D. d | | |
| 94) | Butyl methacrylate | 0.000 | | 0 | N.D. d | | |
| 95) | t-Butylbenzene | 0.000 | | 0 | N.D. d | | |
| 96) | 1,2,4-Trimethylbenzene | 0.000 | | 0 | N.D. d | | |
| 97) | sec-Butylbenzene | 0.000 | | 0 | N.D. d | | |
| 98) | 4-Isopropyltoluene | 0.000 | | 0 | N.D. d | | |
| 99) | n-Butylbenzene | 0.000 | | 0 | N.D. d | | |
| 100) | p-Diethylbenzene | 0.000 | | 0 | N.D. d | | |
| 101) | 1,2,4,5-Tetramethylben... | 0.000 | | 0 | N.D. d | | |
| 102) | 1,2-Dibromo-3-Chloropr... | 0.000 | | 0 | N.D. d | | |
| 103) | Camphor | 9.147 | 95 | 1958 | 8.3135 | ug/l | 93 |
| 104) | Hexachlorobutadiene | 0.000 | | 0 | N.D. d | | |
| 105) | 1,2,4-Trichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 106) | 1,2,3-Trichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 107) | Naphthalene | 0.000 | | 0 | N.D. d | | |

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


Abundance
TIC: 2M156181.D\data.ms
Quant QT Reviewed
SampleID : CAL @0.5 PPB
Data File: 2M156181.D
Acq On : 08/31/21 20:31
Operator : WP
Sam Mult : 1 Vial# : 3
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 08/31/21 22:51
Qt Upd On: 08/31/21 22:43
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
Methyl-t-butyl ether
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
m&p-Xylenes,T
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Camphor

TxtDfile: 1M151961.D ICV FORM Date/Time: 08/26/21 00:01 1091738 0701

| Compound | bytCol Num: | bytMr Num: | Type | sngConc: | Exp Conc | Rec | Flag | sngLoLim: | sngHiLim: |
|---|---|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | | 19.4714 | 20 | 97 | | 70 | 130 |
| Dichlorodifluoromethane | 1 | 0 | | 23.1197 | 20 | 116 | | 50 | 150 |
| Chloromethane | 1 | 0 | | 21.828 | 20 | 109 | | 70 | 130 |
| Bromomethane | 1 | 0 | | 21.4193 | 20 | 107 | | 70 | 130 |
| Vinyl Chloride | 1 | 0 | | 22.1509 | 20 | 111 | | 70 | 130 |
| Chloroethane | 1 | 0 | | 21.5292 | 20 | 108 | | 70 | 130 |
| Trichlorofluoromethane | 1 | 0 | | 20.8796 | 20 | 104 | | 70 | 130 |
| Ethyl ether | 1 | 0 | | 21.35 | 20 | 107 | | 70 | 130 |
| Furan | 1 | 0 | | 21.0053 | 20 | 105 | | 70 | 130 |
| 1.1.2-Trichloro-1.2.2-trifluoroethane | 1 | 0 | | 22.0153 | 20 | 110 | | 70 | 130 |
| Methylene Chloride | 1 | 0 | | 21.5776 | 20 | 108 | | 70 | 130 |
| Acrolein | 1 | 0 | | 103.4793 | 100 | 103 | | 50 | 150 |
| Acrylonitrile | 1 | 0 | | 23.6682 | 20 | 118 | | 50 | 150 |
| Iodomethane | 1 | 0 | | 19.2626 | 20 | 96 | | 70 | 130 |
| Acetone | 1 | 0 | | 119.7612 | 100 | 120 | | 50 | 150 |
| Carbon Disulfide | 1 | 0 | | 21.2131 | 20 | 106 | | 70 | 130 |
| t-Butyl Alcohol | 1 | 0 | | 103.9569 | 100 | 104 | | 50 | 150 |
| n-Hexane | 1 | 0 | | 22.407 | 20 | 112 | | 70 | 130 |
| Di-isopropyl-ether | 1 | 0 | | 21.5658 | 20 | 108 | | 70 | 130 |
| 1.1-Dichloroethene | 1 | 0 | | 21.1389 | 20 | 106 | | 70 | 130 |
| Methyl Acetate | 1 | 0 | | 21.2441 | 20 | 106 | | 70 | 130 |
| Methyl-t-butyl ether | 1 | 0 | | 21.43 | 20 | 107 | | 70 | 130 |
| 1.1-Dichloroethane | 1 | 0 | | 21.0433 | 20 | 105 | | 70 | 130 |
| trans-1.2-Dichloroethene | 1 | 0 | | 21.1333 | 20 | 106 | | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 0 | | 21.8258 | 20 | 109 | | 70 | 130 |
| cis-1.2-Dichloroethene | 1 | 0 | | 20.0588 | 20 | 100 | | 70 | 130 |
| Bromochloromethane | 1 | 0 | | 20.4291 | 20 | 102 | | 70 | 130 |
| 2.2-Dichloropropane | 1 | 0 | | 19.1246 | 20 | 96 | | 70 | 130 |
| Ethyl acetate | 1 | 0 | | 19.2633 | 20 | 96 | | 70 | 130 |
| 1.4-Dioxane | 1 | 0 | | 1084.249 | 1000 | 108 | | 70 | 130 |
| 1.1-Dichloropropene | 1 | 0 | | 20.4264 | 20 | 102 | | 70 | 130 |
| Chloroform | 1 | 0 | | 20.9764 | 20 | 105 | | 70 | 130 |
| Cyclohexane | 1 | 0 | | 22.2608 | 20 | 111 | | 70 | 130 |
| 1.2-Dichloroethane | 1 | 0 | | 19.8613 | 20 | 99 | | 70 | 130 |
| 2-Butanone | 1 | 0 | | 17.8669 | 20 | 89 | | 70 | 130 |
| 1.1.1-Trichloroethane | 1 | 0 | | 20.614 | 20 | 103 | | 70 | 130 |
| Carbon Tetrachloride | 1 | 0 | | 21.3761 | 20 | 107 | | 70 | 130 |
| Vinyl Acetate | 1 | 0 | | 20.9976 | 20 | 105 | | 70 | 130 |
| Bromodichloromethane | 1 | 0 | | 20.8527 | 20 | 104 | | 70 | 130 |
| Methylcyclohexane | 1 | 0 | | 22.793 | 20 | 114 | | 70 | 130 |
| Dibromomethane | 1 | 0 | | 21.1773 | 20 | 106 | | 70 | 130 |
| 1.2-Dichloropropane | 1 | 0 | | 21.4488 | 20 | 107 | | 70 | 130 |
| Trichloroethene | 1 | 0 | | 20.2483 | 20 | 101 | | 70 | 130 |
| Benzene | 1 | 0 | | 20.3982 | 20 | 102 | | 70 | 130 |
| Iso-propylacetate | 1 | 0 | | 22.5015 | 20 | 113 | | 70 | 130 |
| Methyl methacrylate | 1 | 0 | | 22.6575 | 20 | 113 | | 70 | 130 |
| Dibromochloromethane | 1 | 0 | | 21.6566 | 20 | 108 | | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | | 22.0823 | 20 | 110 | | 70 | 130 |
| cis-1.3-Dichloropropene | 1 | 0 | | 21.7578 | 20 | 109 | | 70 | 130 |
| trans-1.3-Dichloropropene | 1 | 0 | | 22.0076 | 20 | 110 | | 70 | 130 |
| Ethyl methacrylate | 1 | 0 | | 22.9798 | 20 | 115 | | 70 | 130 |
| 1.1.2-Trichloroethane | 1 | 0 | | 21.0404 | 20 | 105 | | 70 | 130 |
| 1.2-Dibromoethane | 1 | 0 | | 22.2775 | 20 | 111 | | 70 | 130 |
| 1.3-Dichloropropane | 1 | 0 | | 21.0216 | 20 | 105 | | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 0 | | 21.79 | 20 | 109 | | 70 | 130 |
| 2-Hexanone | 1 | 0 | | 22.6197 | 20 | 113 | | 70 | 130 |
| Tetrachloroethene | 1 | 0 | | 21.1784 | 20 | 106 | | 70 | 130 |
| Toluene | 1 | 0 | | 21.3813 | 20 | 107 | | 70 | 130 |
| 1.1.1.2-Tetrachloroethane | 1 | 0 | | 20.486 | 20 | 102 | | 70 | 130 |
| Chlorobenzene | 1 | 0 | | 21.7474 | 20 | 109 | | 70 | 130 |
| n-Butyl acrylate | 1 | 0 | | 21.4636 | 20 | 107 | | 70 | 130 |
| n-Amyl acetate | 1 | 0 | | 22.3135 | 20 | 112 | | 70 | 130 |
| Bromoform | 1 | 0 | | 21.4574 | 20 | 107 | | 70 | 130 |
| Ethylbenzene | 1 | 0 | | 22.2067 | 20 | 111 | | 70 | 130 |
| 1.1.2.2-Tetrachloroethane | 1 | 0 | | 21.4827 | 20 | 107 | | 70 | 130 |
| Styrene | 1 | 0 | | 21.7262 | 20 | 109 | | 70 | 130 |
| m&p-Xylenes | 1 | 0 | | 42.8146 | 40 | 107 | | 70 | 130 |
| o-Xylene | 1 | 0 | | 22.2693 | 20 | 111 | | 70 | 130 |
| trans-1.4-Dichloro-2-butene | 1 | 0 | | 22.2519 | 20 | 111 | | 70 | 130 |
| 1.3-Dichlorobenzene | 1 | 0 | | 20.9216 | 20 | 105 | | 70 | 130 |
| 1.4-Dichlorobenzene | 1 | 0 | | 20.9865 | 20 | 105 | | 70 | 130 |
| 1.2-Dichlorobenzene | 1 | 0 | | 21.0826 | 20 | 105 | | 70 | 130 |
| Isopropylbenzene | 1 | 0 | | 22.306 | 20 | 112 | | 70 | 130 |
| 1.2.3-Trichloropropane | 1 | 0 | | 21.8728 | 20 | 109 | | 70 | 130 |
| 2-Chlorotoluene | 1 | 0 | | 21.0519 | 20 | 105 | | 70 | 130 |
| 4-Chlorotoluene | 1 | 0 | | 21.4413 | 20 | 107 | | 70 | 130 |
| n-Propylbenzene | 1 | 0 | | 21.8071 | 20 | 109 | | 70 | 130 |
| Bromobenzene | 1 | 0 | | 22.7054 | 20 | 114 | | 70 | 130 |
| 1.3.5-Trimethylbenzene | 1 | 0 | | 22.2845 | 20 | 111 | | 70 | 130 |
| Butyl methacrylate | 1 | 0 | | 21.377 | 20 | 107 | | 70 | 130 |
| t-Butylbenzene | 1 | 0 | | 22.0049 | 20 | 110 | | 70 | 130 |
| 1.2.4-Trimethylbenzene | 1 | 0 | | 21.7751 | 20 | 109 | | 70 | 130 |
| sec-Butylbenzene | 1 | 0 | | 22.0997 | 20 | 110 | | 70 | 130 |
| 4-Isopropyltoluene | 1 | 0 | | 22.0431 | 20 | 110 | | 70 | 130 |
| n-Butylbenzene | 1 | 0 | | 22.2219 | 20 | 111 | | 70 | 130 |
| 1.2-Dibromo-3-Chloropropane | 1 | 0 | | 21.2368 | 20 | 106 | | 70 | 130 |
| Hexachlorobutadiene | 1 | 0 | | 21.8659 | 20 | 109 | | 70 | 130 |
| 1.2.4-Trichlorobenzene | 1 | 0 | | 21.8675 | 20 | 109 | | 70 | 130 |
| 1.2.3-Trichlorobenzene | 1 | 0 | | 22.2641 | 20 | 111 | | 70 | 130 |
| Naphthalene | 1 | 0 | | 21.138 | 20 | 106 | | 70 | 130 |

TxtDfile: 2M156197.D ICV FORM Date/Time: 09/01/21 01:44 1091738 0702

| Compound | bytCol Num: | bytMr Num: | Type | sngConc: | Exp Conc | Rec | Flag | sngLoLim: | sngHiLim: |
|---|---|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | | 17.0971 | 20 | 85 | | 70 | 130 |
| Dichlorodifluoromethane | 1 | 0 | | 18.8922 | 20 | 94 | | 50 | 150 |
| Chloromethane | 1 | 0 | | 21.518 | 20 | 108 | | 70 | 130 |
| Bromomethane | 1 | 0 | | 19.2314 | 20 | 96 | | 70 | 130 |
| Vinyl Chloride | 1 | 0 | | 20.0007 | 20 | 100 | | 70 | 130 |
| Chloroethane | 1 | 0 | | 20.9399 | 20 | 105 | | 70 | 130 |
| Trichlorofluoromethane | 1 | 0 | | 20.327 | 20 | 102 | | 70 | 130 |
| Ethyl ether | 1 | 0 | | 21.2469 | 20 | 106 | | 70 | 130 |
| Furan | 1 | 0 | | 20.5502 | 20 | 103 | | 70 | 130 |
| 1.1.2-Trichloro-1.2.2-trifluoroethane | 1 | 0 | | 20.6822 | 20 | 103 | | 70 | 130 |
| Methylene Chloride | 1 | 0 | | 21.1604 | 20 | 106 | | 70 | 130 |
| Acrolein | 1 | 0 | | 104.724 | 100 | 105 | | 50 | 150 |
| Acrylonitrile | 1 | 0 | | 21.8794 | 20 | 109 | | 50 | 150 |
| Iodomethane | 1 | 0 | | 12.4969 | 20 | 62 | * | 70 | 130 |
| Acetone | 1 | 0 | | 99.7592 | 100 | 100 | | 50 | 150 |
| Carbon Disulfide | 1 | 0 | | 20.7477 | 20 | 104 | | 70 | 130 |
| t-Butyl Alcohol | 1 | 0 | | 109.0328 | 100 | 109 | | 50 | 150 |
| n-Hexane | 1 | 0 | | 22.0169 | 20 | 110 | | 70 | 130 |
| Di-isopropyl-ether | 1 | 0 | | 21.1585 | 20 | 106 | | 70 | 130 |
| 1.1-Dichloroethene | 1 | 0 | | 21.1326 | 20 | 106 | | 70 | 130 |
| Methyl Acetate | 1 | 0 | | 20.2362 | 20 | 101 | | 70 | 130 |
| Methyl-t-butyl ether | 1 | 0 | | 21.4748 | 20 | 107 | | 70 | 130 |
| 1.1-Dichloroethane | 1 | 0 | | 21.1992 | 20 | 106 | | 70 | 130 |
| trans-1.2-Dichloroethene | 1 | 0 | | 21.0952 | 20 | 105 | | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 0 | | 21.651 | 20 | 108 | | 70 | 130 |
| cis-1.2-Dichloroethene | 1 | 0 | | 21.2405 | 20 | 106 | | 70 | 130 |
| Bromochloromethane | 1 | 0 | | 21.996 | 20 | 110 | | 70 | 130 |
| 2.2-Dichloropropane | 1 | 0 | | 21.0169 | 20 | 105 | | 70 | 130 |
| Ethyl acetate | 1 | 0 | | 20.8915 | 20 | 104 | | 70 | 130 |
| 1.4-Dioxane | 1 | 0 | | 1231.54 | 1000 | 123 | | 70 | 130 |
| 1.1-Dichloropropene | 1 | 0 | | 21.3132 | 20 | 107 | | 70 | 130 |
| Chloroform | 1 | 0 | | 21.7384 | 20 | 109 | | 70 | 130 |
| Cyclohexane | 1 | 0 | | 21.6635 | 20 | 108 | | 70 | 130 |
| 1.2-Dichloroethane | 1 | 0 | | 20.6599 | 20 | 103 | | 70 | 130 |
| 2-Butanone | 1 | 0 | | 20.4659 | 20 | 102 | | 70 | 130 |
| 1.1.1-Trichloroethane | 1 | 0 | | 21.7803 | 20 | 109 | | 70 | 130 |
| Carbon Tetrachloride | 1 | 0 | | 21.67 | 20 | 108 | | 70 | 130 |
| Vinyl Acetate | 1 | 0 | | 21.1606 | 20 | 106 | | 70 | 130 |
| Bromodichloromethane | 1 | 0 | | 21.7186 | 20 | 109 | | 70 | 130 |
| Methylcyclohexane | 1 | 0 | | 23.29 | 20 | 116 | | 70 | 130 |
| Dibromomethane | 1 | 0 | | 21.641 | 20 | 108 | | 70 | 130 |
| 1.2-Dichloropropane | 1 | 0 | | 21.7293 | 20 | 109 | | 70 | 130 |
| Trichloroethene | 1 | 0 | | 22.0632 | 20 | 110 | | 70 | 130 |
| Benzene | 1 | 0 | | 21.177 | 20 | 106 | | 70 | 130 |
| Iso-propylacetate | 1 | 0 | | 19.9627 | 20 | 100 | | 70 | 130 |
| Methyl methacrylate | 1 | 0 | | 21.242 | 20 | 106 | | 70 | 130 |
| Dibromochloromethane | 1 | 0 | | 21.977 | 20 | 110 | | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | | 21.6451 | 20 | 108 | | 70 | 130 |
| cis-1.3-Dichloropropene | 1 | 0 | | 21.3581 | 20 | 107 | | 70 | 130 |
| trans-1.3-Dichloropropene | 1 | 0 | | 21.785 | 20 | 109 | | 70 | 130 |
| Ethyl methacrylate | 1 | 0 | | 21.0853 | 20 | 105 | | 70 | 130 |
| 1.1.2-Trichloroethane | 1 | 0 | | 21.5418 | 20 | 108 | | 70 | 130 |
| 1.2-Dibromoethane | 1 | 0 | | 22.0175 | 20 | 110 | | 70 | 130 |
| 1.3-Dichloropropane | 1 | 0 | | 21.7093 | 20 | 109 | | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 0 | | 20.7169 | 20 | 104 | | 70 | 130 |
| 2-Hexanone | 1 | 0 | | 21.1742 | 20 | 106 | | 70 | 130 |
| Tetrachloroethene | 1 | 0 | | 22.1844 | 20 | 111 | | 70 | 130 |
| Toluene | 1 | 0 | | 21.5582 | 20 | 108 | | 70 | 130 |
| 1.1.1.2-Tetrachloroethane | 1 | 0 | | 22.0187 | 20 | 110 | | 70 | 130 |
| Chlorobenzene | 1 | 0 | | 22.0182 | 20 | 110 | | 70 | 130 |
| n-Butyl acrylate | 1 | 0 | | 20.7526 | 20 | 104 | | 70 | 130 |
| n-Amyl acetate | 1 | 0 | | 20.2258 | 20 | 101 | | 70 | 130 |
| Bromoform | 1 | 0 | | 21.515 | 20 | 108 | | 70 | 130 |
| Ethylbenzene | 1 | 0 | | 21.0462 | 20 | 105 | | 70 | 130 |
| 1.1.2.2-Tetrachloroethane | 1 | 0 | | 21.5821 | 20 | 108 | | 70 | 130 |
| Styrene | 1 | 0 | | 21.1578 | 20 | 106 | | 70 | 130 |
| m&p-Xylenes | 1 | 0 | | 41.8542 | 40 | 105 | | 70 | 130 |
| o-Xylene | 1 | 0 | | 21.203 | 20 | 106 | | 70 | 130 |
| trans-1.4-Dichloro-2-butene | 1 | 0 | | 19.7674 | 20 | 99 | | 70 | 130 |
| 1.3-Dichlorobenzene | 1 | 0 | | 22.5738 | 20 | 113 | | 70 | 130 |
| 1.4-Dichlorobenzene | 1 | 0 | | 22.3514 | 20 | 112 | | 70 | 130 |
| 1.2-Dichlorobenzene | 1 | 0 | | 22.4125 | 20 | 112 | | 70 | 130 |
| Isopropylbenzene | 1 | 0 | | 22.4313 | 20 | 112 | | 70 | 130 |
| 1.2.3-Trichloropropane | 1 | 0 | | 20.372 | 20 | 102 | | 70 | 130 |
| 2-Chlorotoluene | 1 | 0 | | 21.742 | 20 | 109 | | 70 | 130 |
| 4-Chlorotoluene | 1 | 0 | | 20.7016 | 20 | 104 | | 70 | 130 |
| n-Propylbenzene | 1 | 0 | | 22.658 | 20 | 113 | | 70 | 130 |
| Bromobenzene | 1 | 0 | | 20.9417 | 20 | 105 | | 70 | 130 |
| 1.3.5-Trimethylbenzene | 1 | 0 | | 21.3902 | 20 | 107 | | 70 | 130 |
| Butyl methacrylate | 1 | 0 | | 21.4015 | 20 | 107 | | 70 | 130 |
| t-Butylbenzene | 1 | 0 | | 23.2466 | 20 | 116 | | 70 | 130 |
| 1.2.4-Trimethylbenzene | 1 | 0 | | 22.1772 | 20 | 111 | | 70 | 130 |
| sec-Butylbenzene | 1 | 0 | | 23.1958 | 20 | 116 | | 70 | 130 |
| 4-Isopropyltoluene | 1 | 0 | | 23.9337 | 20 | 120 | | 70 | 130 |
| n-Butylbenzene | 1 | 0 | | 23.2512 | 20 | 116 | | 70 | 130 |
| 1.2-Dibromo-3-Chloropropane | 1 | 0 | | 22.4735 | 20 | 112 | | 70 | 130 |
| Hexachlorobutadiene | 1 | 0 | | 23.1623 | 20 | 116 | | 70 | 130 |
| 1.2.4-Trichlorobenzene | 1 | 0 | | 24.0854 | 20 | 120 | | 70 | 130 |
| 1.2.3-Trichlorobenzene | 1 | 0 | | 24.0404 | 20 | 120 | | 70 | 130 |
| Naphthalene | 1 | 0 | | 23.3745 | 20 | 117 | | 70 | 130 |

# Form7

Continuing Calibration

**Calibration Name:** CAL @ 20 PPB **Data File:** 1M152696.D **Instrument:** GCMS 1

**Cont Calibration Date/Time** 9/20/2021 6:32:00 P Method: EPA 8260D

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fluorobenzene | 1 | 0 | I | 5.30 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| Chlorodifluoromethane | 1 | 0 | | 2.08 | 25.26 | 20 | 20 | 0.1 | 0.316 | 0.469 | 26.32 | C1 |
| Dichlorodifluoromethane | 1 | 0 | | 2.08 | 10.67 | 20 | 20 | 0.1 | 0.177 | 0.079 | 46.67 | C1 |
| Chloromethane | 1 | 0 | | 2.24 | 19.73 | 20 | 20 | 0.1 | 0.269 | 0.265 | 1.33 | |
| Bromomethane | 1 | 0 | | 2.61 | 15.39 | 20 | 20 | 0.1 | 0.144 | 0.111 | 23.07 | C1 |
| Vinyl Chloride | 1 | 0 | | 2.33 | 16.48 | 20 | 20 | 0.1 | 0.259 | 0.214 | 17.62 | |
| Chloroethane | 1 | 0 | | 2.70 | 19.24 | 20 | 20 | 0.1 | 0.172 | 0.165 | 3.80 | |
| Trichlorofluoromethane | 1 | 0 | | 2.89 | 18.00 | 20 | 20 | 0.1 | 0.381 | 0.343 | 10.00 | |
| Ethyl ether | 1 | 0 | | 3.12 | 22.26 | 20 | 20 | 0.5 | 0.172 | 0.192 | 11.30 | |
| Furan | 1 | 0 | | 3.15 | 23.27 | 20 | 20 | 0.5 | 0.323 | 0.375 | 16.37 | |
| 1,1,2-Trichloro-1,2,2-trifluoroetha | 1 | 0 | | 3.31 | 18.83 | 20 | 20 | 0.1 | 0.176 | 0.166 | 5.84 | |
| Methylene Chloride | 1 | 0 | | 3.68 | 18.54 | 20 | 20 | 0.1 | 0.245 | 0.227 | 7.32 | |
| Acrolein | 1 | 0 | | 3.21 | 135.18 | 100 | 20 | | 0.033 | 0.044 | 35.18 | C1 |
| Acrylonitrile | 1 | 0 | | 3.86 | 29.24 | 20 | 20 | | 0.084 | 0.127 | 46.20 | C1 |
| Iodomethane | 1 | 0 | | 3.44 | 12.88 | 20 | 20 | | 0.213 | 0.164 | 35.61 | C1 |
| Acetone | 1 | 0 | | 3.33 | 133.78 | 100 | 20 | 0.1 | 0.072 | 0.077 | 33.78 | C1 |
| Carbon Disulfide | 1 | 0 | | 3.51 | 21.14 | 20 | 20 | 0.1 | 0.522 | 0.551 | 5.69 | |
| t-Butyl Alcohol | 1 | 0 | | 3.74 | 134.13 | 100 | 20 | | 0.024 | 0.032 | 34.13 | C1 |
| n-Hexane | 1 | 0 | | 4.12 | 22.23 | 20 | 20 | | 0.216 | 0.240 | 11.16 | |
| Di-isopropyl-ether | 1 | 0 | | 4.26 | 26.63 | 20 | 20 | | 0.695 | 0.925 | 33.16 | C1 |
| 1,1-Dichloroethene | 1 | 0 | | 3.31 | 18.85 | 20 | 20 | 0.1 | 0.405 | 0.382 | 5.75 | |
| Methyl Acetate | 1 | 0 | | 3.59 | 28.71 | 20 | 20 | 0.1 | 0.185 | 0.266 | 43.56 | C1 |
| Methyl-t-butyl ether | 1 | 0 | | 3.90 | 21.21 | 20 | 20 | 0.1 | 0.660 | 0.629 | 6.04 | |
| 1,1-Dichloroethane | 1 | 0 | | 4.22 | 20.22 | 20 | 20 | 0.2 | 0.470 | 0.475 | 1.09 | |
| trans-1,2-Dichloroethene | 1 | 0 | | 3.91 | 17.39 | 20 | 20 | 0.1 | 0.249 | 0.216 | 13.05 | |
| Ethyl-t-butyl ether | 1 | 0 | | 4.51 | 22.39 | 20 | 20 | 0.5 | 0.729 | 0.816 | 11.96 | |
| cis-1,2-Dichloroethene | 1 | 0 | | 4.61 | 20.52 | 20 | 20 | 0.1 | 0.483 | 0.496 | 2.62 | |
| Bromochloromethane | 1 | 0 | | 4.77 | 23.91 | 20 | 20 | | 0.242 | 0.289 | 19.53 | |
| 2,2-Dichloropropane | 1 | 0 | | 4.63 | 19.07 | 20 | 20 | | 0.394 | 0.375 | 4.64 | |
| Ethyl acetate | 1 | 0 | | 4.64 | 23.94 | 20 | 20 | | 0.238 | 0.284 | 19.72 | |
| 1,4-Dioxane | 1 | 0 | | 5.70 | 1182.81 | 1000 | 20 | | 0.003 | 0.003 | 18.28 | |
| 1,1-Dichloropropene | 1 | 0 | | 5.03 | 17.94 | 20 | 20 | | 0.333 | 0.299 | 10.32 | |
| Chloroform | 1 | 0 | | 4.81 | 19.22 | 20 | 20 | 0.2 | 0.458 | 0.440 | 3.91 | |
| Dibromofluoromethane | 1 | 0 | S | 4.90 | 31.03 | 30 | ** | | 0.262 | 0.271 | 3.42 | |
| Cyclohexane | 1 | 0 | | 4.98 | 20.51 | 20 | 20 | 0.1 | 0.323 | 0.331 | 2.56 | |
| 1,2-Dichloroethane-d4 | 1 | 0 | S | 5.11 | 34.07 | 30 | ** | | 0.143 | 0.162 | 13.57 | |
| 1,2-Dichloroethane | 1 | 0 | | 5.15 | 21.01 | 20 | 20 | 0.1 | 0.407 | 0.428 | 5.04 | |
| 2-Butanone | 1 | 0 | | 4.63 | 22.61 | 20 | 20 | 0.1 | 0.168 | 0.151 | 13.04 | |
| 1,1,1-Trichloroethane | 1 | 0 | | 4.94 | 18.52 | 20 | 20 | 0.1 | 0.423 | 0.391 | 7.41 | |
| Carbon Tetrachloride | 1 | 0 | | 5.04 | 18.17 | 20 | 20 | 0.1 | 0.352 | 0.319 | 9.17 | |
| Vinyl Acetate | 1 | 0 | | 4.25 | 26.68 | 20 | 20 | | 0.688 | 0.917 | 33.39 | C1 |
| Bromodichloromethane | 1 | 0 | | 5.77 | 19.63 | 20 | 20 | 0.2 | 0.346 | 0.340 | 1.84 | |
| Methylcyclohexane | 1 | 0 | | 5.62 | 17.64 | 20 | 20 | 0.1 | 0.267 | 0.235 | 11.78 | |
| Dibromomethane | 1 | 0 | | 5.70 | 17.77 | 20 | 20 | | 0.171 | 0.152 | 11.13 | |
| 1,2-Dichloropropane | 1 | 0 | | 5.63 | 20.85 | 20 | 20 | 0.1 | 0.262 | 0.273 | 4.27 | |
| Trichloroethene | 1 | 0 | | 5.51 | 17.35 | 20 | 20 | 0.2 | 0.275 | 0.238 | 13.26 | |
| Benzene | 1 | 0 | | 5.15 | 18.18 | 20 | 20 | 0.5 | 0.967 | 0.879 | 9.10 | |
| tert-Amyl methyl ether | 1 | 0 | | 5.20 | 20.11 | 20 | 20 | | 0.622 | 0.625 | 0.55 | |
| Chlorobenzene-d5 | 1 | 0 | I | 6.96 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| Iso-propylacetate | 1 | 0 | | 5.15 | 26.43 | 20 | 20 | 0.5 | 0.538 | 0.711 | 32.15 | C1 |
| Methyl methacrylate | 1 | 0 | | 5.66 | 25.64 | 20 | 20 | 0.5 | 0.227 | 0.292 | 28.18 | C1 |
| Dibromochloromethane | 1 | 0 | | 6.63 | 17.85 | 20 | 20 | 0.1 | 0.337 | 0.300 | 10.77 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

# Form7

Continuing Calibration

**Calibration Name:** CAL @ 20 PPB **Data File:** 1M152696.D **Instrument:** GCMS 1

**Cont Calibration Date/Time** 9/20/2021 6:32:00 P Method: EPA 8260D

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Chloroethylvinylether | 1 | 0 | | 5.91 | 21.62 | 20 | 20 | | 0.191 | 0.207 | 8.11 | |
| cis-1,3-Dichloropropene | 1 | 0 | | 6.01 | 19.01 | 20 | 20 | 0.2 | 0.470 | 0.446 | 4.96 | |
| trans-1,3-Dichloropropene | 1 | 0 | | 6.30 | 18.93 | 20 | 20 | 0.1 | 0.442 | 0.418 | 5.34 | |
| Ethyl methacrylate | 1 | 0 | | 6.32 | 26.24 | 20 | 20 | 0.5 | 0.255 | 0.335 | 31.21 | C1 |
| 1,1,2-Trichloroethane | 1 | 0 | | 6.41 | 18.37 | 20 | 20 | 0.1 | 0.284 | 0.261 | 8.17 | |
| 1,2-Dibromoethane | 1 | 0 | | 6.71 | 18.71 | 20 | 20 | 0.1 | 0.292 | 0.274 | 6.46 | |
| 1,3-Dichloropropane | 1 | 0 | | 6.50 | 18.88 | 20 | 20 | | 0.482 | 0.455 | 5.61 | |
| 4-Methyl-2-Pentanone | 1 | 0 | | 6.08 | 26.54 | 20 | 20 | 0.1 | 0.263 | 0.349 | 32.70 | C1 |
| 2-Hexanone | 1 | 0 | | 6.52 | 27.03 | 20 | 20 | 0.1 | 0.181 | 0.244 | 35.16 | C1 |
| Tetrachloroethene | 1 | 0 | | 6.51 | 16.08 | 20 | 20 | 0.2 | 0.280 | 0.225 | 19.59 | |
| Toluene-d8 | 1 | 0 | S | 6.16 | 29.33 | 30 | ** | | 1.277 | 1.248 | 2.22 | |
| Toluene | 1 | 0 | | 6.20 | 17.23 | 20 | 20 | 0.4 | 0.810 | 0.698 | 13.86 | |
| 1,1,1,2-Tetrachloroethane | 1 | 0 | | 7.01 | 17.59 | 20 | 20 | | 0.311 | 0.274 | 12.03 | |
| Chlorobenzene | 1 | 0 | | 6.97 | 17.64 | 20 | 20 | 0.5 | 0.896 | 0.791 | 11.79 | |
| 1,4-Dichlorobenzene-d4 | 1 | 0 | I | 8.25 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| n-Butyl acrylate | 1 | 0 | | 7.22 | 22.63 | 20 | 20 | 0.5 | 1.096 | 1.240 | 13.14 | |
| n-Amyl acetate | 1 | 0 | | 7.34 | 23.94 | 20 | 20 | 0.5 | 0.861 | 1.030 | 19.68 | |
| Bromoform | 1 | 0 | | 7.42 | 16.97 | 20 | 20 | 0.1 | 0.414 | 0.351 | 15.15 | |
| Ethylbenzene | 1 | 0 | | 7.02 | 17.86 | 20 | 20 | 0.1 | 0.741 | 0.661 | 10.72 | |
| 1,1,2,2-Tetrachloroethane | 1 | 0 | | 7.64 | 20.04 | 20 | 20 | 0.1 | 0.645 | 0.646 | 0.20 | |
| Bromofluorobenzene | 1 | 0 | S | 7.60 | 29.46 | 30 | ** | | 0.778 | 0.764 | 1.81 | |
| Styrene | 1 | 0 | | 7.31 | 17.28 | 20 | 20 | 0.3 | 1.779 | 1.537 | 13.62 | |
| m&p-Xylenes | 1 | 0 | | 7.08 | 35.41 | 40 | 20 | 0.1 | 1.057 | 0.936 | 11.49 | |
| o-Xylene | 1 | 0 | | 7.30 | 17.34 | 20 | 20 | 0.3 | 1.024 | 0.888 | 13.29 | |
| trans-1,4-Dichloro-2-butene | 1 | 0 | | 7.68 | 22.14 | 20 | 20 | | 0.270 | 0.299 | 10.70 | |
| 1,3-Dichlorobenzene | 1 | 0 | | 8.22 | 17.15 | 20 | 20 | 0.6 | 1.249 | 1.071 | 14.26 | |
| 1,4-Dichlorobenzene | 1 | 0 | | 8.27 | 17.34 | 20 | 20 | 0.5 | 1.291 | 1.119 | 13.28 | |
| 1,2-Dichlorobenzene | 1 | 0 | | 8.49 | 17.68 | 20 | 20 | 0.4 | 1.194 | 1.055 | 11.58 | |
| Isopropylbenzene | 1 | 0 | | 7.50 | 17.50 | 20 | 20 | 0.1 | 2.504 | 2.192 | 12.48 | |
| Cyclohexanone | 1 | 0 | | 7.57 | 115.69 | 100 | 20 | | 0.025 | 0.029 | 15.69 | |
| Camphene | 1 | 0 | | 7.67 | 17.96 | 20 | 20 | | 0.565 | 0.507 | 10.21 | |
| 1,2,3-Trichloropropane | 1 | 0 | | 7.68 | 19.00 | 20 | 20 | | 0.831 | 0.790 | 5.00 | |
| 2-Chlorotoluene | 1 | 0 | | 7.79 | 18.70 | 20 | 20 | | 1.643 | 1.537 | 6.48 | |
| p-Ethyltoluene | 1 | 0 | | 7.79 | 17.94 | 20 | 20 | | 2.483 | 2.227 | 10.31 | |
| 4-Chlorotoluene | 1 | 0 | | 7.85 | 17.84 | 20 | 20 | | 1.648 | 1.470 | 10.78 | |
| n-Propylbenzene | 1 | 0 | | 7.72 | 17.79 | 20 | 20 | | 2.933 | 2.609 | 11.04 | |
| Bromobenzene | 1 | 0 | | 7.70 | 18.66 | 20 | 20 | | 1.435 | 1.339 | 6.70 | |
| 1,3,5-Trimethylbenzene | 1 | 0 | | 7.81 | 17.57 | 20 | 20 | | 2.037 | 1.790 | 12.14 | |
| Butyl methacrylate | 1 | 0 | | 7.82 | 23.85 | 20 | 20 | 0.5 | 0.744 | 0.887 | 19.23 | |
| t-Butylbenzene | 1 | 0 | | 8.01 | 17.01 | 20 | 20 | | 1.892 | 1.609 | 14.95 | |
| 1,2,4-Trimethylbenzene | 1 | 0 | | 8.03 | 17.58 | 20 | 20 | | 2.118 | 1.862 | 12.09 | |
| sec-Butylbenzene | 1 | 0 | | 8.13 | 16.66 | 20 | 20 | | 2.321 | 1.933 | 16.69 | |
| 4-Isopropyltoluene | 1 | 0 | | 8.20 | 16.85 | 20 | 20 | | 1.945 | 1.638 | 15.75 | |
| n-Butylbenzene | 1 | 0 | | 8.44 | 17.98 | 20 | 20 | | 2.097 | 1.885 | 10.10 | |
| p-Diethylbenzene | 1 | 0 | | 8.42 | 17.78 | 20 | 20 | | 1.117 | 0.993 | 11.08 | |
| 1,2,4,5-Tetramethylbenzene | 1 | 0 | | 8.88 | 17.14 | 20 | 20 | | 1.531 | 1.312 | 14.28 | |
| 1,2-Dibromo-3-Chloropropane | 1 | 0 | | 8.94 | 19.65 | 20 | 20 | 0.05 | 0.134 | 0.132 | 1.73 | |
| Camphor | 1 | 0 | | 9.38 | 204.62 | 200 | 20 | | 0.063 | 0.065 | 2.31 | |
| Hexachlorobutadiene | 1 | 0 | | 9.52 | 16.47 | 20 | 20 | | 0.290 | 0.239 | 17.67 | |
| 1,2,4-Trichlorobenzene | 1 | 0 | | 9.43 | 18.48 | 20 | 20 | 0.2 | 0.659 | 0.609 | 7.60 | |
| 1,2,3-Trichlorobenzene | 1 | 0 | | 9.73 | 20.38 | 20 | 20 | | 0.526 | 0.536 | 1.91 | |
| Naphthalene | 1 | 0 | | 9.59 | 19.82 | 20 | 20 | | 1.581 | 1.567 | 0.92 | |

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits



** - No limit specified in method

**Note: 8260/8270 limits are compared against the %DIFF/R.F.**
**624 limits are compared against the concentration found.**
**625 limits are compared against the %DIFF.**
**524.2 limits are compared against the %DIFF**

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB
Data File: 1M152696.D
Acq On : 09/20/21 18:32

Operator : WP
Sam Mult : 1 Vial# : 7
Misc : A,5ML

Qt Meth : 1M_A0825M.M
Qt On : 09/20/21 19:06
Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-20-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 104380 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 83717 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 46618 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 28310 | 31.03 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.43% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 16901 | 34.07 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 113.57% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 104517 | 29.33 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.77% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 35604 | 29.46 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 98.20% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.084 | 51 | 32612m | 25.2643 | ug/l | |
| 6) Dichlorodifluoromethane | 2.078 | 85 | 5488m | 10.6651 | ug/l | |
| 7) Chloromethane | 2.235 | 50 | 18440m | 19.7339 | ug/l | |
| 8) Bromomethane | 2.608 | 94 | 7721 | 15.3856 | ug/l | 94 |
| 9) Vinyl Chloride | 2.332 | 62 | 14868 | 16.4767 | ug/l | 91 |
| 10) Chloroethane | 2.698 | 64 | 11483 | 19.2409 | ug/l | 85 |
| 11) Trichlorofluoromethane | 2.891 | 101 | 23882m | 18.0000 | ug/l | |
| 12) Ethyl ether | 3.116 | 59 | 13349 | 22.2598 | ug/l | 71 |
| 13) Furan | 3.145 | 39 | 26115m | 23.2730 | ug/l | |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.306 | 101 | 11528m | 18.8315 | ug/l | |
| 15) Methylene Chloride | 3.676 | 84 | 15791m | 18.5364 | ug/l | |
| 16) Acrolein | 3.213 | 56 | 15315 | 135.1772 | ug/l | 93 |
| 17) Acrylonitrile | 3.862 | 53 | 8826m | 29.2405 | ug/l | |
| 18) Iodomethane | 3.444 | 142 | 11417 | 12.8779 | ug/l | 93 |
| 19) Acetone | 3.332 | 43 | 26749 | 133.7846 | ug/l | 89 |
| 20) Carbon Disulfide | 3.512 | 76 | 38363 | 21.1387 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.737 | 59 | 11160 | 134.1256 | ug/l | 70 |
| 22) n-Hexane | 4.116 | 57 | 16693 | 22.2311 | ug/l | 98 |
| 23) Di-isopropyl-ether | 4.258 | 45 | 64376 | 26.6311 | ug/l | 74 |
| 24) 1,1-Dichloroethene | 3.313 | 61 | 26550 | 18.8508 | ug/l | 83 |
| 25) Methyl Acetate | 3.589 | 43 | 18506 | 28.7127 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.901 | 73 | 43793 | 21.2074 | ug/l | 78 |
| 27) 1,1-Dichloroethane | 4.223 | 63 | 33029 | 20.2190 | ug/l | 90 |
| 28) trans-1,2-Dichloroethene | 3.911 | 96 | 15054 | 17.3900 | ug/l | 78 |
| 29) Ethyl-t-butyl ether | 4.509 | 59 | 56817 | 22.3921 | ug/l | 86 |
| 30) cis-1,2-Dichloroethene | 4.615 | 61 | 34500 | 20.5247 | ug/l | 78 |
| 31) Bromochloromethane | 4.766 | 49 | 20129m | 23.9053 | ug/l | |
| 32) 2,2-Dichloropropane | 4.628 | 77 | 26113 | 19.0718 | ug/l | 97 |
| 33) Ethyl acetate | 4.641 | 43 | 19789m | 23.9448 | ug/l | |
| 34) 1,4-Dioxane | 5.695 | 88 | 10958 | 1182.8115 | ug/l | 78 |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 20791 | 17.9351 | ug/l | 94 |
| 36) Chloroform | 4.808 | 83 | 30593 | 19.2176 | ug/l | 96 |
| 38) Cyclohexane | 4.981 | 56 | 23056 | 20.5114 | ug/l | 73 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 29753 | 21.0083 | ug/l | 96 |
| 41) 2-Butanone | 4.628 | 43 | 10477m | 22.6088 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.940 | 97 | 27225 | 18.5175 | ug/l | 97 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 22232 | 18.1664 | ug/l | 98 |
| 44) Vinyl Acetate | 4.248 | 43 | 63826 | 26.6779 | ug/l | 100 |
| 45) Bromodichloromethane | 5.766 | 83 | 23633 | 19.6330 | ug/l | 96 |
| 46) Methylcyclohexane | 5.624 | 83 | 16360 | 17.6439 | ug/l | 78 |
| 47) Dibromomethane | 5.698 | 174 | 10564 | 17.7749 | ug/l | 89 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 18978 | 20.8530 | ug/l | 97 |
| 49) Trichloroethene | 5.505 | 130 | 16570 | 17.3483 | ug/l | 97 |
| 50) Benzene | 5.155 | 78 | 61148 | 18.1805 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 43493 | 20.1091 | ug/l | 90 |
| 53) Iso-propylacetate | 5.149 | 43 | 39661 | 26.4304 | ug/l | 92 |
| 54) Methyl methacrylate | 5.657 | 41 | 16270 | 25.6367 | ug/l | 69 |
| 55) Dibromochloromethane | 6.634 | 129 | 16770 | 17.8452 | ug/l | 98 |
| 56) 2-Chloroethylvinylether | 5.911 | 63 | 11545 | 21.6225 | ug/l | 84 |
| 57) cis-1,3-Dichloropropene | 6.010 | 75 | 24916 | 19.0079 | ug/l | 99 |
| 58) trans-1,3-Dichloropropene | 6.296 | 75 | 23340 | 18.9313 | ug/l | 96 |
| 59) Ethyl methacrylate | 6.322 | 41 | 18674 | 26.2424 | ug/l | 60 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 14574 | 18.3653 | ug/l | 91 |
| 61) 1,2-Dibromoethane | 6.714 | 107 | 15265 | 18.7071 | ug/l | 99 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 25393 | 18.8778 | ug/l | 98 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 19486 | 26.5403 | ug/l | 97 |
| 64) 2-Hexanone | 6.521 | 43 | 13628 | 27.0318 | ug/l | 96 |
| 65) Tetrachloroethene | 6.509 | 164 | 12562 | 16.0825 | ug/l | 100 |
| 67) Toluene | 6.203 | 92 | 38944 | 17.2282 | ug/l | 95 |

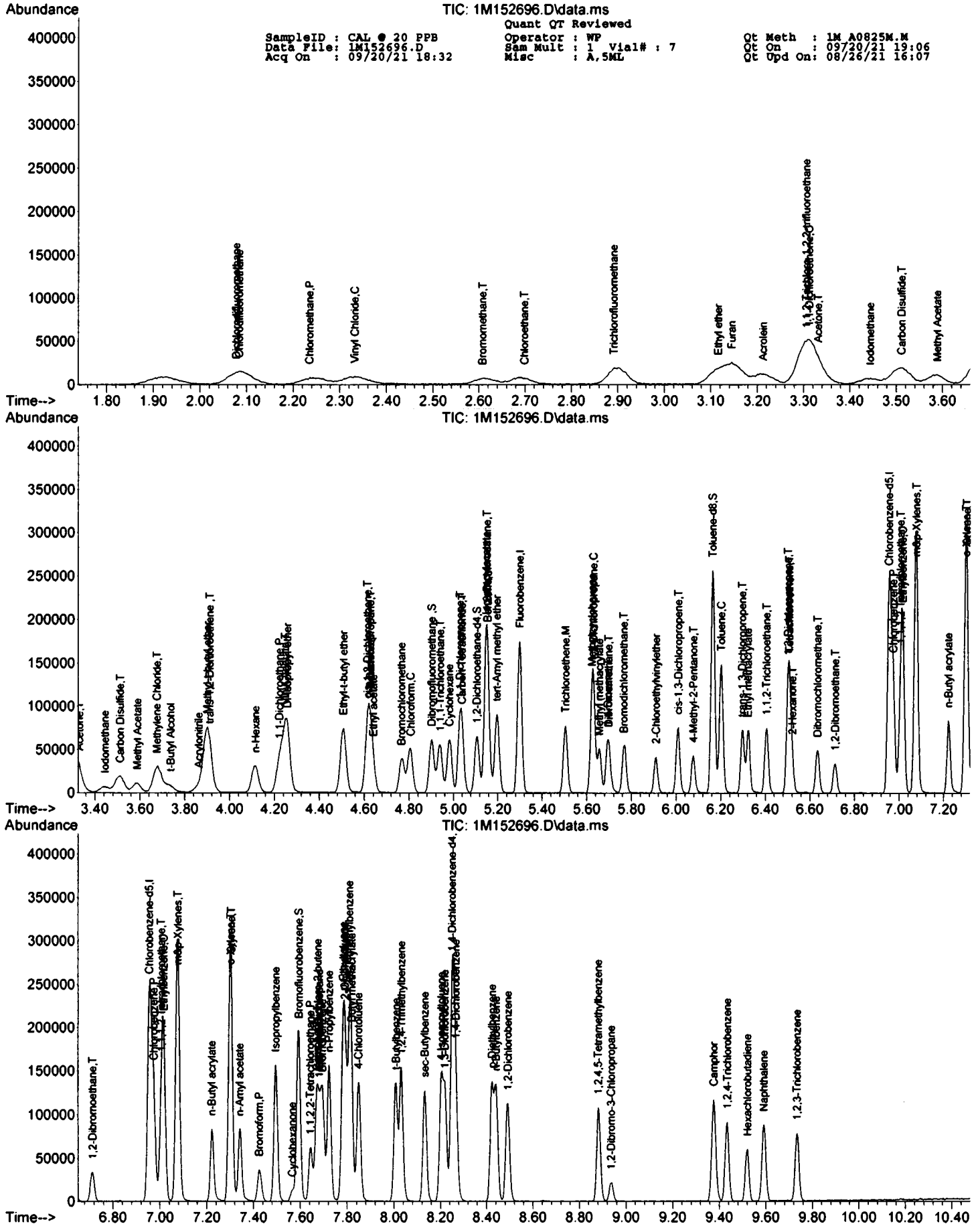
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M152696.D  Sam Mult : 1 Vial# : 7  Qt On : 09/20/21 19:06
Acq On : 09/20/21 18:32  Misc : A,5ML  Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-20-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 15275 | 17.5943 | ug/l | 92 |
| 69) | Chlorobenzene | 6.975 | 112 | 44133 | 17.6417 | ug/l | 98 |
| 71) | n-Butyl acrylate | 7.222 | 55 | 38538 | 22.6270 | ug/l | 86 |
| 72) | n-Amyl acetate | 7.341 | 43 | 32025m | 23.9358 | ug/l | |
| 73) | Bromoform | 7.425 | 173 | 10912 | 16.9701 | ug/l | 96 |
| 74) | Ethylbenzene | 7.017 | 106 | 20552 | 17.8551 | ug/l | 97 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 20080 | 20.0403 | ug/l | 98 |
| 77) | Styrene | 7.306 | 104 | 47763 | 17.2757 | ug/l | 97 |
| 78) | m&p-Xylenes | 7.078 | 106 | 58156 | 35.4051 | ug/l | 95 |
| 79) | o-Xylene | 7.303 | 106 | 27602 | 17.3411 | ug/l | 94 |
| 80) | trans-1,4-Dichloro-2-b... | 7.676 | 53 | 9292 | 22.1407 | ug/l | 80 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 33291 | 17.1488 | ug/l | 98 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 34783 | 17.3432 | ug/l | 98 |
| 83) | 1,2-Dichlorobenzene | 8.492 | 146 | 32801 | 17.6834 | ug/l | 97 |
| 84) | Isopropylbenzene | 7.496 | 105 | 68109 | 17.5038 | ug/l | 98 |
| 85) | Cyclohexanone | 7.566 | 55 | 4536m | 115.6937 | ug/l | |
| 86) | Camphene | 7.673 | 93 | 15754 | 17.9579 | ug/l | 97 |
| 87) | 1,2,3-Trichloropropane | 7.682 | 75 | 24538 | 19.0003 | ug/l | 98 |
| 88) | 2-Chlorotoluene | 7.792 | 91 | 47768 | 18.7044 | ug/l | 92 |
| 89) | p-Ethyltoluene | 7.785 | 105 | 69203 | 17.9385 | ug/l | 96 |
| 90) | 4-Chlorotoluene | 7.849 | 91 | 45696 | 17.8435 | ug/l | 96 |
| 91) | n-Propylbenzene | 7.724 | 91 | 81097 | 17.7927 | ug/l | 96 |
| 92) | Bromobenzene | 7.695 | 77 | 41605 | 18.6592 | ug/l | 80 |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 55625 | 17.5722 | ug/l | 96 |
| 94) | Butyl methacrylate | 7.820 | 41 | 27560 | 23.8463 | ug/l | 53 |
| 95) | t-Butylbenzene | 8.010 | 119 | 50018 | 17.0107 | ug/l | 96 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 57866 | 17.5820 | ug/l | 97 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 60086 | 16.6620 | ug/l | 97 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 50916 | 16.8506 | ug/l | 99 |
| 99) | n-Butylbenzene | 8.441 | 91 | 58582 | 17.9793 | ug/l | 95 |
| 100) | p-Diethylbenzene | 8.425 | 119 | 30868 | 17.7839 | ug/l | 95 |
| 101) | 1,2,4,5-Tetramethylben... | 8.882 | 119 | 40784 | 17.1432 | ug/l | 94 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.936 | 157 | 4090 | 19.6542 | ug/l | 92 |
| 103) | Camphor | 9.377 | 95 | 20101 | 204.6220 | ug/l | 100 |
| 104) | Hexachlorobutadiene | 9.521 | 225 | 7415 | 16.4669 | ug/l | 94 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 18921 | 18.4793 | ug/l | 96 |
| 106) | 1,2,3-Trichlorobenzene | 9.734 | 180 | 16664 | 20.3823 | ug/l | 98 |
| 107) | Naphthalene | 9.592 | 128 | 48696 | 19.8164 | ug/l | 100 |

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


Abundance
TIC: 1M152696.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 1M152696.D
Acq On : 09/20/21 18:32
Operator : WP
Sam Mult : 1 Vial# : 7
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 09/20/21 19:06
Qt Upd On: 08/26/21 16:07
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->

# Form7

Continuing Calibration

**Calibration Name:** CAL @ 20 PPB **Data File:** 1M152824.D **Instrument:** GCMS 1

**Cont Calibration Date/Time** 9/22/2021 10:29:00 Method: EPA 8260D

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fluorobenzene | 1 | 0 | I | 5.30 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| Chlorodifluoromethane | 1 | 0 | | 2.08 | 21.97 | 20 | 20 | 0.1 | 0.316 | 0.407 | 9.85 | |
| Dichlorodifluoromethane | 1 | 0 | | 2.08 | 4.07 | 20 | 20 | 0.1 | 0.177 | 0.030 | 79.66 | C1 |
| Chloromethane | 1 | 0 | | 2.25 | 11.27 | 20 | 20 | 0.1 | 0.269 | 0.151 | 43.64 | C1 |
| Bromomethane | 1 | 0 | | 2.62 | 5.21 | 20 | 20 | 0.1 | 0.144 | 0.038 | 73.94 | C1 |
| Vinyl Chloride | 1 | 0 | | 2.34 | 9.38 | 20 | 20 | 0.1 | 0.259 | 0.122 | 53.08 | C1 |
| Chloroethane | 1 | 0 | | 2.69 | 19.24 | 20 | 20 | 0.1 | 0.172 | 0.165 | 3.78 | |
| Trichlorofluoromethane | 1 | 0 | | 2.90 | 14.04 | 20 | 20 | 0.1 | 0.381 | 0.268 | 29.81 | C1 |
| Ethyl ether | 1 | 0 | | 3.11 | 19.53 | 20 | 20 | 0.5 | 0.172 | 0.168 | 2.33 | |
| Furan | 1 | 0 | | 3.15 | 20.39 | 20 | 20 | 0.5 | 0.323 | 0.329 | 1.97 | |
| 1,1,2-Trichloro-1,2,2-trifluoroetha | 1 | 0 | | 3.31 | 17.48 | 20 | 20 | 0.1 | 0.176 | 0.154 | 12.58 | |
| Methylene Chloride | 1 | 0 | | 3.68 | 17.53 | 20 | 20 | 0.1 | 0.245 | 0.215 | 12.33 | |
| Acrolein | 1 | 0 | | 3.21 | 100.67 | 100 | 20 | | 0.033 | 0.033 | 0.67 | |
| Acrylonitrile | 1 | 0 | | 3.86 | 27.01 | 20 | 20 | | 0.084 | 0.117 | 35.04 | C1 |
| Iodomethane | 1 | 0 | | 3.44 | 6.15 | 20 | 20 | | 0.213 | 0.078 | 69.24 | C1 |
| Acetone | 1 | 0 | | 3.33 | 130.92 | 100 | 20 | 0.1 | 0.072 | 0.075 | 30.92 | C1 |
| Carbon Disulfide | 1 | 0 | | 3.51 | 23.31 | 20 | 20 | 0.1 | 0.522 | 0.608 | 16.55 | |
| t-Butyl Alcohol | 1 | 0 | | 3.73 | 134.04 | 100 | 20 | | 0.024 | 0.032 | 34.04 | C1 |
| n-Hexane | 1 | 0 | | 4.12 | 17.53 | 20 | 20 | | 0.216 | 0.189 | 12.34 | |
| Di-isopropyl-ether | 1 | 0 | | 4.25 | 25.72 | 20 | 20 | | 0.695 | 0.894 | 28.62 | C1 |
| 1,1-Dichloroethene | 1 | 0 | | 3.31 | 17.01 | 20 | 20 | 0.1 | 0.405 | 0.344 | 14.95 | |
| Methyl Acetate | 1 | 0 | | 3.59 | 26.87 | 20 | 20 | 0.1 | 0.185 | 0.249 | 34.33 | C1 |
| Methyl-t-butyl ether | 1 | 0 | | 3.89 | 19.84 | 20 | 20 | 0.1 | 0.660 | 0.589 | 0.81 | |
| 1,1-Dichloroethane | 1 | 0 | | 4.22 | 19.97 | 20 | 20 | 0.2 | 0.470 | 0.469 | 0.17 | |
| trans-1,2-Dichloroethene | 1 | 0 | | 3.90 | 16.82 | 20 | 20 | 0.1 | 0.249 | 0.209 | 15.89 | |
| Ethyl-t-butyl ether | 1 | 0 | | 4.51 | 21.25 | 20 | 20 | 0.5 | 0.729 | 0.775 | 6.26 | |
| cis-1,2-Dichloroethene | 1 | 0 | | 4.61 | 20.49 | 20 | 20 | 0.1 | 0.483 | 0.495 | 2.46 | |
| Bromochloromethane | 1 | 0 | | 4.77 | 22.22 | 20 | 20 | | 0.242 | 0.269 | 11.08 | |
| 2,2-Dichloropropane | 1 | 0 | | 4.62 | 15.56 | 20 | 20 | | 0.394 | 0.306 | 22.19 | C1 |
| Ethyl acetate | 1 | 0 | | 4.64 | 23.94 | 20 | 20 | | 0.238 | 0.284 | 19.72 | |
| 1,4-Dioxane | 1 | 0 | | 5.70 | 1084.78 | 1000 | 20 | | 0.003 | 0.003 | 8.48 | |
| 1,1-Dichloropropene | 1 | 0 | | 5.03 | 18.17 | 20 | 20 | | 0.333 | 0.303 | 9.14 | |
| Chloroform | 1 | 0 | | 4.80 | 19.74 | 20 | 20 | 0.2 | 0.458 | 0.452 | 1.29 | |
| Dibromofluoromethane | 1 | 0 | S | 4.90 | 32.24 | 30 | ** | | 0.262 | 0.282 | 7.45 | |
| Cyclohexane | 1 | 0 | | 4.98 | 20.33 | 20 | 20 | 0.1 | 0.323 | 0.328 | 1.67 | |
| 1,2-Dichloroethane-d4 | 1 | 0 | S | 5.11 | 35.43 | 30 | ** | | 0.143 | 0.168 | 18.10 | |
| 1,2-Dichloroethane | 1 | 0 | | 5.15 | 20.65 | 20 | 20 | 0.1 | 0.407 | 0.420 | 3.27 | |
| 2-Butanone | 1 | 0 | | 4.63 | 23.78 | 20 | 20 | 0.1 | 0.168 | 0.158 | 18.92 | |
| 1,1,1-Trichloroethane | 1 | 0 | | 4.94 | 18.90 | 20 | 20 | 0.1 | 0.423 | 0.399 | 5.51 | |
| Carbon Tetrachloride | 1 | 0 | | 5.04 | 14.12 | 20 | 20 | 0.1 | 0.352 | 0.248 | 29.41 | C1 |
| Vinyl Acetate | 1 | 0 | | 4.25 | 21.58 | 20 | 20 | | 0.688 | 0.742 | 7.90 | |
| Bromodichloromethane | 1 | 0 | | 5.77 | 19.44 | 20 | 20 | 0.2 | 0.346 | 0.336 | 2.82 | |
| Methylcyclohexane | 1 | 0 | | 5.63 | 17.58 | 20 | 20 | 0.1 | 0.267 | 0.234 | 12.08 | |
| Dibromomethane | 1 | 0 | | 5.70 | 17.50 | 20 | 20 | | 0.171 | 0.149 | 12.52 | |
| 1,2-Dichloropropane | 1 | 0 | | 5.63 | 20.27 | 20 | 20 | 0.1 | 0.262 | 0.265 | 1.36 | |
| Trichloroethene | 1 | 0 | | 5.50 | 17.59 | 20 | 20 | 0.2 | 0.275 | 0.241 | 12.07 | |
| Benzene | 1 | 0 | | 5.15 | 17.55 | 20 | 20 | 0.5 | 0.967 | 0.848 | 12.26 | |
| tert-Amyl methyl ether | 1 | 0 | | 5.20 | 18.96 | 20 | 20 | | 0.622 | 0.589 | 5.18 | |
| Chlorobenzene-d5 | 1 | 0 | I | 6.96 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| Iso-propylacetate | 1 | 0 | | 5.15 | 23.93 | 20 | 20 | 0.5 | 0.538 | 0.643 | 19.63 | |
| Methyl methacrylate | 1 | 0 | | 5.66 | 24.06 | 20 | 20 | 0.5 | 0.227 | 0.274 | 20.28 | |
| Dibromochloromethane | 1 | 0 | | 6.63 | 16.31 | 20 | 20 | 0.1 | 0.337 | 0.275 | 18.46 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

# Form7

Continuing Calibration

**Calibration Name:** CAL @ 20 PPB **Data File:** 1M152824.D **Instrument:** GCMS 1

**Cont Calibration Date/Time** 9/22/2021 10:29:00 **Method:** EPA 8260D

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Chloroethylvinylether | 1 | 0 | | 5.91 | 19.13 | 20 | 20 | | 0.191 | 0.183 | 4.35 | |
| cis-1,3-Dichloropropene | 1 | 0 | | 6.01 | 15.53 | 20 | 20 | 0.2 | 0.470 | 0.365 | 22.37 | C1 |
| trans-1,3-Dichloropropene | 1 | 0 | | 6.30 | 14.48 | 20 | 20 | 0.1 | 0.442 | 0.320 | 27.59 | C1 |
| Ethyl methacrylate | 1 | 0 | | 6.33 | 24.00 | 20 | 20 | 0.5 | 0.255 | 0.306 | 20.00 | |
| 1,1,2-Trichloroethane | 1 | 0 | | 6.41 | 18.70 | 20 | 20 | 0.1 | 0.284 | 0.266 | 6.52 | |
| 1,2-Dibromoethane | 1 | 0 | | 6.71 | 17.50 | 20 | 20 | 0.1 | 0.292 | 0.256 | 12.50 | |
| 1,3-Dichloropropane | 1 | 0 | | 6.50 | 18.69 | 20 | 20 | | 0.482 | 0.451 | 6.53 | |
| 4-Methyl-2-Pentanone | 1 | 0 | | 6.08 | 25.43 | 20 | 20 | 0.1 | 0.263 | 0.334 | 27.13 | C1 |
| 2-Hexanone | 1 | 0 | | 6.52 | 23.75 | 20 | 20 | 0.1 | 0.181 | 0.215 | 18.76 | |
| Tetrachloroethene | 1 | 0 | | 6.51 | 17.06 | 20 | 20 | 0.2 | 0.280 | 0.239 | 14.68 | |
| Toluene-d8 | 1 | 0 | S | 6.17 | 29.36 | 30 | ** | | 1.277 | 1.250 | 2.13 | |
| Toluene | 1 | 0 | | 6.20 | 17.35 | 20 | 20 | 0.4 | 0.810 | 0.703 | 13.25 | |
| 1,1,1,2-Tetrachloroethane | 1 | 0 | | 7.01 | 16.94 | 20 | 20 | | 0.311 | 0.264 | 15.28 | |
| Chlorobenzene | 1 | 0 | | 6.97 | 17.72 | 20 | 20 | 0.5 | 0.896 | 0.794 | 11.41 | |
| 1,4-Dichlorobenzene-d4 | 1 | 0 | I | 8.25 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| n-Butyl acrylate | 1 | 0 | | 7.22 | 19.72 | 20 | 20 | 0.5 | 1.096 | 1.080 | 1.42 | |
| n-Amyl acetate | 1 | 0 | | 7.34 | 21.34 | 20 | 20 | 0.5 | 0.861 | 0.919 | 6.71 | |
| Bromoform | 1 | 0 | | 7.42 | 15.37 | 20 | 20 | 0.1 | 0.414 | 0.318 | 23.14 | C1 |
| Ethylbenzene | 1 | 0 | | 7.02 | 17.58 | 20 | 20 | 0.1 | 0.741 | 0.651 | 12.10 | |
| 1,1,2,2-Tetrachloroethane | 1 | 0 | | 7.64 | 19.11 | 20 | 20 | 0.1 | 0.645 | 0.616 | 4.46 | |
| Bromofluorobenzene | 1 | 0 | S | 7.60 | 29.52 | 30 | ** | | 0.778 | 0.765 | 1.60 | |
| Styrene | 1 | 0 | | 7.30 | 17.25 | 20 | 20 | 0.3 | 1.779 | 1.535 | 13.75 | |
| m&p-Xylenes | 1 | 0 | | 7.08 | 34.78 | 40 | 20 | 0.1 | 1.057 | 0.919 | 13.04 | |
| o-Xylene | 1 | 0 | | 7.30 | 17.58 | 20 | 20 | 0.3 | 1.024 | 0.900 | 12.12 | |
| trans-1,4-Dichloro-2-butene | 1 | 0 | | 7.67 | 14.49 | 20 | 20 | | 0.270 | 0.196 | 27.53 | C1 |
| 1,3-Dichlorobenzene | 1 | 0 | | 8.22 | 16.53 | 20 | 20 | 0.6 | 1.249 | 1.032 | 17.36 | |
| 1,4-Dichlorobenzene | 1 | 0 | | 8.27 | 17.14 | 20 | 20 | 0.5 | 1.291 | 1.106 | 14.32 | |
| 1,2-Dichlorobenzene | 1 | 0 | | 8.49 | 17.31 | 20 | 20 | 0.4 | 1.194 | 1.033 | 13.43 | |
| Isopropylbenzene | 1 | 0 | | 7.50 | 17.73 | 20 | 20 | 0.1 | 2.504 | 2.220 | 11.35 | |
| Cyclohexanone | 1 | 0 | | 7.57 | 112.58 | 100 | 20 | | 0.025 | 0.028 | 12.58 | |
| Camphene | 1 | 0 | | 7.67 | 19.27 | 20 | 20 | | 0.565 | 0.544 | 3.67 | |
| 1,2,3-Trichloropropane | 1 | 0 | | 7.69 | 16.32 | 20 | 20 | | 0.831 | 0.678 | 18.42 | |
| 2-Chlorotoluene | 1 | 0 | | 7.79 | 18.28 | 20 | 20 | | 1.643 | 1.502 | 8.62 | |
| p-Ethyltoluene | 1 | 0 | | 7.79 | 18.00 | 20 | 20 | | 2.483 | 2.235 | 9.99 | |
| 4-Chlorotoluene | 1 | 0 | | 7.85 | 17.35 | 20 | 20 | | 1.648 | 1.430 | 13.26 | |
| n-Propylbenzene | 1 | 0 | | 7.72 | 18.00 | 20 | 20 | | 2.933 | 2.640 | 9.98 | |
| Bromobenzene | 1 | 0 | | 7.70 | 19.71 | 20 | 20 | | 1.435 | 1.414 | 1.44 | |
| 1,3,5-Trimethylbenzene | 1 | 0 | | 7.81 | 17.44 | 20 | 20 | | 2.037 | 1.776 | 12.80 | |
| Butyl methacrylate | 1 | 0 | | 7.82 | 23.91 | 20 | 20 | 0.5 | 0.744 | 0.889 | 19.56 | |
| t-Butylbenzene | 1 | 0 | | 8.01 | 17.16 | 20 | 20 | | 1.892 | 1.624 | 14.20 | |
| 1,2,4-Trimethylbenzene | 1 | 0 | | 8.03 | 17.41 | 20 | 20 | | 2.118 | 1.843 | 12.97 | |
| sec-Butylbenzene | 1 | 0 | | 8.13 | 17.71 | 20 | 20 | | 2.321 | 2.055 | 11.45 | |
| 4-Isopropyltoluene | 1 | 0 | | 8.20 | 16.91 | 20 | 20 | | 1.945 | 1.644 | 15.44 | |
| n-Butylbenzene | 1 | 0 | | 8.44 | 17.86 | 20 | 20 | | 2.097 | 1.872 | 10.72 | |
| p-Diethylbenzene | 1 | 0 | | 8.42 | 17.36 | 20 | 20 | | 1.117 | 0.970 | 13.18 | |
| 1,2,4,5-Tetramethylbenzene | 1 | 0 | | 8.88 | 16.00 | 20 | 20 | | 1.531 | 1.225 | 19.98 | |
| 1,2-Dibromo-3-Chloropropane | 1 | 0 | | 8.94 | 19.18 | 20 | 20 | 0.05 | 0.134 | 0.128 | 4.12 | |
| Camphor | 1 | 0 | | 9.38 | 169.84 | 200 | 20 | | 0.063 | 0.054 | 15.08 | |
| Hexachlorobutadiene | 1 | 0 | | 9.52 | 18.41 | 20 | 20 | | 0.290 | 0.267 | 7.96 | |
| 1,2,4-Trichlorobenzene | 1 | 0 | | 9.43 | 17.11 | 20 | 20 | 0.2 | 0.659 | 0.564 | 14.44 | |
| 1,2,3-Trichlorobenzene | 1 | 0 | | 9.74 | 19.19 | 20 | 20 | | 0.526 | 0.505 | 4.07 | |
| Naphthalene | 1 | 0 | | 9.59 | 17.80 | 20 | 20 | | 1.581 | 1.407 | 11.00 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

SampleID : CAL ● 20 PPB
Data File: 1M152824.D
Acq On : 09/22/21 10:29

Operator : WP
Sam Mult : 1 Vial# : 49
Misc : A,5ML

Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:20
Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 95377 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 78052 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 44917 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 26877 | 32.24 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 107.47% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 16059 | 35.43 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 118.10% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 97535 | 29.36 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.87% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 34380 | 29.52 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 98.40% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.084 | 51 | 25910m | 21.9703 | ug/l | |
| 6) Dichlorodifluoromethane | 2.084 | 85 | 1893m | 4.0679 | ug/l | |
| 7) Chloromethane | 2.245 | 50 | 9625m | 11.2727 | ug/l | |
| 8) Bromomethane | 2.618 | 94 | 2390m | 5.2121 | ug/l | |
| 9) Vinyl Chloride | 2.338 | 62 | 7737 | 9.3835 | ug/l | 97 |
| 10) Chloroethane | 2.686 | 64 | 10494m | 19.2436 | ug/l | |
| 11) Trichlorofluoromethane | 2.901 | 101 | 17018m | 14.0373 | ug/l | |
| 12) Ethyl ether | 3.113 | 59 | 10704 | 19.5341 | ug/l | 69 |
| 13) Furan | 3.152 | 39 | 20911m | 20.3944 | ug/l | |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.309 | 101 | 9780m | 17.4841 | ug/l | |
| 15) Methylene Chloride | 3.676 | 84 | 13648m | 17.5331 | ug/l | |
| 16) Acrolein | 3.210 | 56 | 10422 | 100.6726 | ug/l | 96 |
| 17) Acrylonitrile | 3.862 | 53 | 7447 | 27.0084 | ug/l | 89 |
| 18) Iodomethane | 3.444 | 142 | 4981m | 6.1526 | ug/l | |
| 19) Acetone | 3.329 | 43 | 23918 | 130.9164 | ug/l | 90 |
| 20) Carbon Disulfide | 3.512 | 76 | 38656 | 23.3107 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.727 | 59 | 10191m | 134.0411 | ug/l | |
| 22) n-Hexane | 4.120 | 57 | 12029 | 17.5320 | ug/l | 96 |
| 23) Di-isopropyl-ether | 4.255 | 45 | 56820 | 25.7241 | ug/l | 76 |
| 24) 1,1-Dichloroethene | 3.313 | 61 | 21891 | 17.0100 | ug/l | 74 |
| 25) Methyl Acetate | 3.589 | 43 | 15822 | 26.8656 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.895 | 73 | 37429 | 19.8371 | ug/l | 79 |
| 27) 1,1-Dichloroethane | 4.223 | 63 | 29804 | 19.9670 | ug/l | 88 |
| 28) trans-1,2-Dichloroethene | 3.904 | 96 | 13306 | 16.8216 | ug/l | 74 |
| 29) Ethyl-t-butyl ether | 4.509 | 59 | 49271 | 21.2511 | ug/l | 85 |
| 30) cis-1,2-Dichloroethene | 4.615 | 61 | 31473 | 20.4913 | ug/l | 75 |
| 31) Bromochloromethane | 4.769 | 49 | 17093 | 22.2159 | ug/l | 73 |
| 32) 2,2-Dichloropropane | 4.624 | 77 | 19469m | 15.5615 | ug/l | |
| 33) Ethyl acetate | 4.641 | 43 | 18082m | 23.9446 | ug/l | |
| 34) 1,4-Dioxane | 5.695 | 88 | 9183 | 1084.7819 | ug/l | 95 |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 19248 | 18.1714 | ug/l | 96 |
| 36) Chloroform | 4.805 | 83 | 28718 | 19.7426 | ug/l | 99 |
| 38) Cyclohexane | 4.981 | 56 | 20885 | 20.3339 | ug/l | 72 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 26728 | 20.6538 | ug/l | 95 |
| 41) 2-Butanone | 4.628 | 43 | 10071m | 23.7849 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.940 | 97 | 25388 | 18.8981 | ug/l | 93 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 15787 | 14.1177 | ug/l | 91 |
| 44) Vinyl Acetate | 4.252 | 43 | 47175 | 21.5794 | ug/l | 100 |
| 45) Bromodichloromethane | 5.766 | 83 | 21379 | 19.4369 | ug/l | 96 |
| 46) Methylcyclohexane | 5.628 | 83 | 14898 | 17.5838 | ug/l | 78 |
| 47) Dibromomethane | 5.698 | 174 | 9501 | 17.4953 | ug/l | 97 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 16858 | 20.2720 | ug/l | 98 |
| 49) Trichloroethene | 5.502 | 130 | 15348 | 17.5857 | ug/l | 94 |
| 50) Benzene | 5.152 | 78 | 53929 | 17.5477 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 37477 | 18.9632 | ug/l | 89 |
| 53) Iso-propylacetate | 5.145 | 43 | 33472 | 23.9250 | ug/l | 92 |
| 54) Methyl methacrylate | 5.657 | 41 | 14234m | 24.0564 | ug/l | |
| 55) Dibromochloromethane | 6.634 | 129 | 14288 | 16.3075 | ug/l | 98 |
| 56) 2-Chloroethylvinylether | 5.911 | 63 | 9523 | 19.1300 | ug/l | 86 |
| 57) cis-1,3-Dichloropropene | 6.010 | 75 | 18974m | 15.5254 | ug/l | |
| 58) trans-1,3-Dichloropropene | 6.300 | 75 | 16646 | 14.4817 | ug/l | 100 |
| 59) Ethyl methacrylate | 6.325 | 41 | 15922m | 23.9990 | ug/l | |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 13833 | 18.6967 | ug/l | 92 |
| 61) 1,2-Dibromoethane | 6.711 | 107 | 13314 | 17.5004 | ug/l | 95 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 23443 | 18.6930 | ug/l | 100 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 17404 | 25.4251 | ug/l | 95 |
| 64) 2-Hexanone | 6.521 | 43 | 11164m | 23.7516 | ug/l | |
| 65) Tetrachloroethene | 6.509 | 164 | 12426 | 17.0631 | ug/l | 95 |
| 67) Toluene | 6.203 | 92 | 36567 | 17.3507 | ug/l | 86 |

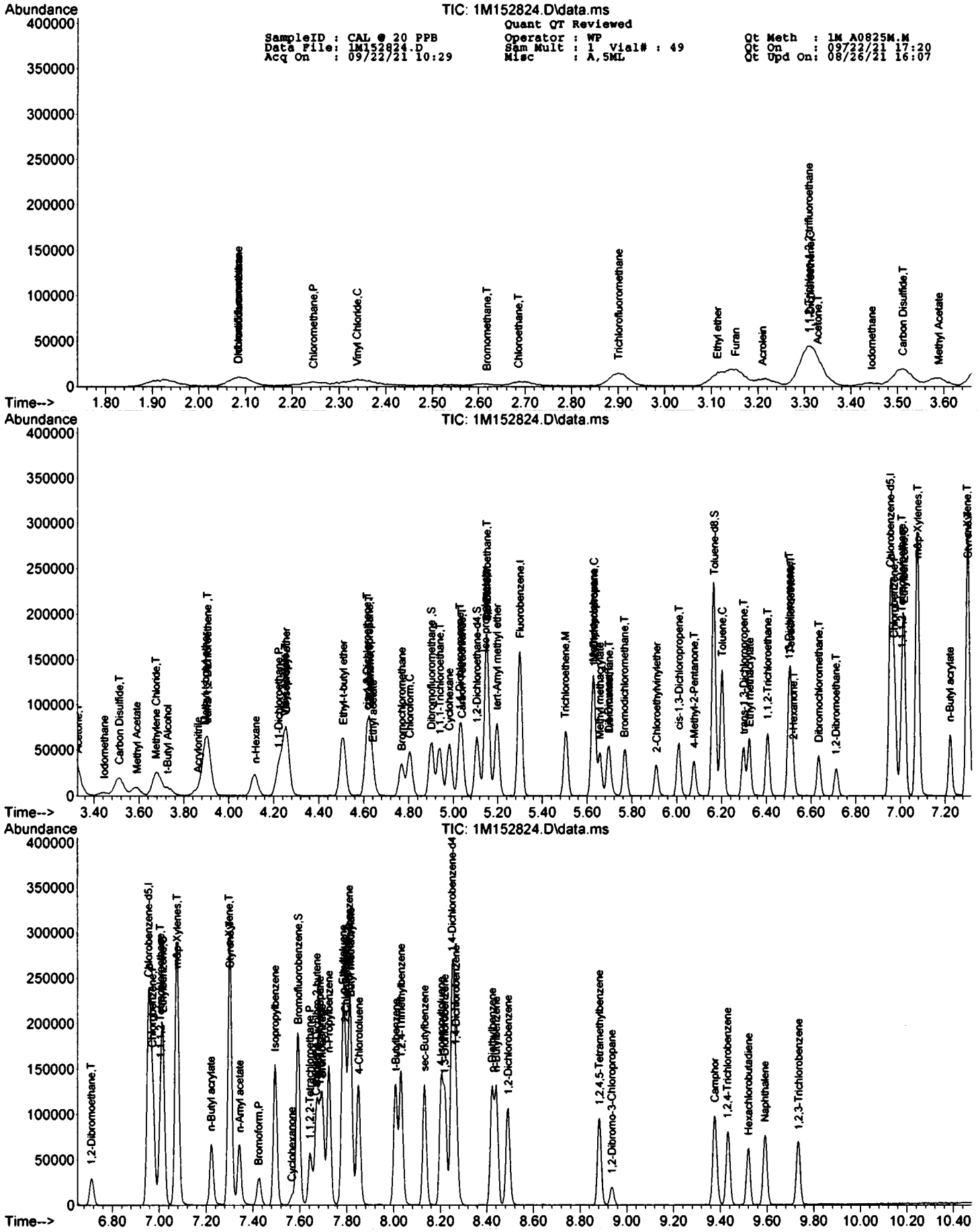
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB  Operator : WP  Qt Meth : 1M_A0825M.M
Data File: 1M152824.D  Sam Mult : 1  Vial# : 49  Qt On : 09/22/21 17:20
Acq On : 09/22/21 10:29  Misc : A,5ML  Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 13715 | 16.9440 | ug/l | 99 |
| 69) | Chlorobenzene | 6.972 | 112 | 41327 | 17.7190 | ug/l | 94 |
| 71) | n-Butyl acrylate | 7.222 | 55 | 32355 | 19.7161 | ug/l | 85 |
| 72) | n-Amyl acetate | 7.345 | 43 | 27512 | 21.3414 | ug/l | 80 |
| 73) | Bromoform | 7.425 | 173 | 9524 | 15.3724 | ug/l | 87 |
| 74) | Ethylbenzene | 7.017 | 106 | 19496 | 17.5791 | ug/l | 94 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 18448 | 19.1087 | ug/l | 92 |
| 77) | Styrene | 7.303 | 104 | 45954 | 17.2508 | ug/l | 92 |
| 78) | m&p-Xylenes | 7.078 | 106 | 55052 | 34.7846 | ug/l | 94 |
| 79) | o-Xylene | 7.300 | 106 | 26956 | 17.5766 | ug/l | 91 |
| 80) | trans-1,4-Dichloro-2-b... | 7.673 | 53 | 5861m | 14.4943 | ug/l | |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 30917 | 16.5290 | ug/l | 98 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 33112 | 17.1352 | ug/l | 96 |
| 83) | 1,2-Dichlorobenzene | 8.492 | 146 | 30943 | 17.3135 | ug/l | 97 |
| 84) | Isopropylbenzene | 7.496 | 105 | 66471 | 17.7297 | ug/l | 98 |
| 85) | Cyclohexanone | 7.566 | 55 | 4253 | 112.5836 | ug/l | 88 |
| 86) | Camphene | 7.669 | 93 | 16285 | 19.2662 | ug/l | 99 |
| 87) | 1,2,3-Trichloropropane | 7.685 | 75 | 20302 | 16.3156 | ug/l | 96 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 44969 | 18.2753 | ug/l | 91 |
| 89) | p-Ethyltoluene | 7.785 | 105 | 66913 | 18.0018 | ug/l | 96 |
| 90) | 4-Chlorotoluene | 7.853 | 91 | 42808 | 17.3488 | ug/l | 95 |
| 91) | n-Propylbenzene | 7.724 | 91 | 79067 | 18.0042 | ug/l | 96 |
| 92) | Bromobenzene | 7.695 | 77 | 42347m | 19.7112 | ug/l | |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 53191 | 17.4396 | ug/l | 98 |
| 94) | Butyl methacrylate | 7.817 | 41 | 26628m | 23.9124 | ug/l | |
| 95) | t-Butylbenzene | 8.010 | 119 | 48618 | 17.1607 | ug/l | 97 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 55199 | 17.4068 | ug/l | 96 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 61532 | 17.7092 | ug/l | 95 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 49238 | 16.9123 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.441 | 91 | 56055 | 17.8553 | ug/l | 96 |
| 100) | p-Diethylbenzene | 8.425 | 119 | 29038 | 17.3631 | ug/l | 98 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 36686m | 16.0047 | ug/l | |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.936 | 157 | 3845 | 19.1766 | ug/l | 88 |
| 103) | Camphor | 9.377 | 95 | 16075 | 169.8355 | ug/l | 96 |
| 104) | Hexachlorobutadiene | 9.521 | 225 | 7987 | 18.4088 | ug/l | 97 |
| 105) | 1,2,4-Trichlorobenzene | 9.431 | 180 | 16881 | 17.1113 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.737 | 180 | 15113 | 19.1853 | ug/l | 98 |
| 107) | Naphthalene | 9.592 | 128 | 42146 | 17.8004 | ug/l | 97 |

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


Abundance
TIC: 1M152824.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 1M152824.D
Acq On : 09/22/21 10:29
Operator : WP
Sam Mult : 1 Vial# : 49
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:20
Qt Upd On: 08/26/21 16:07
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->


Abundance
TIC: 1M152824.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->


Abundance
TIC: 1M152824.D\data.ms
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
t-Butylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

# Form7

Continuing Calibration

**Calibration Name:** CAL @ 20 PPB **Data File:** 2M157114.D **Instrument:** GCMS 2

**Cont Calibration Date/Time** 9/22/2021 1:16:00 P **Method:** EPA 8260D

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fluorobenzene | 1 | 0 | I | 5.10 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| Chlorodifluoromethane | 1 | 0 | | 1.70 | 12.25 | 20 | 20 | 0.1 | 0.265 | 0.204 | 38.73 | C1 |
| Dichlorodifluoromethane | 1 | 0 | | 1.68 | 37.88 | 20 | 20 | 0.1 | 0.143 | 0.270 | 89.42 | C1 |
| Chloromethane | 1 | 0 | | 1.86 | 20.84 | 20 | 20 | 0.1 | 0.192 | 0.200 | 4.20 | |
| Bromomethane | 1 | 0 | | 2.25 | 6.02 | 20 | 20 | 0.1 | 0.136 | 0.052 | 69.91 | C1 |
| Vinyl Chloride | 1 | 0 | | 1.95 | 21.26 | 20 | 20 | 0.1 | 0.217 | 0.230 | 6.32 | |
| Chloroethane | 1 | 0 | | 2.34 | 20.53 | 20 | 20 | 0.1 | 0.149 | 0.153 | 2.67 | |
| Trichlorofluoromethane | 1 | 0 | | 2.56 | 21.48 | 20 | 20 | 0.1 | 0.375 | 0.402 | 7.40 | |
| Ethyl ether | 1 | 0 | | 2.80 | 20.82 | 20 | 20 | 0.5 | 0.152 | 0.158 | 4.12 | |
| Furan | 1 | 0 | | 2.84 | 21.76 | 20 | 20 | 0.5 | 0.304 | 0.330 | 8.78 | |
| 1,1,2-Trichloro-1,2,2-trifluoroetha | 1 | 0 | | 3.00 | 19.98 | 20 | 20 | 0.1 | 0.185 | 0.185 | 0.12 | |
| Methylene Chloride | 1 | 0 | | 3.42 | 21.59 | 20 | 20 | 0.1 | 0.225 | 0.243 | 7.95 | |
| Acrolein | 1 | 0 | | 2.92 | 69.17 | 100 | 20 | | 0.042 | 0.029 | 30.83 | C1 |
| Acrylonitrile | 1 | 0 | | 3.62 | 17.12 | 20 | 20 | | 0.117 | 0.100 | 14.39 | |
| Iodomethane | 1 | 0 | | 3.15 | 16.53 | 20 | 20 | | 0.219 | 0.190 | 17.33 | |
| Acetone | 1 | 0 | | 3.04 | 85.88 | 100 | 20 | 0.1 | 0.090 | 0.077 | 14.12 | |
| Carbon Disulfide | 1 | 0 | | 3.22 | 19.13 | 20 | 20 | 0.1 | 0.592 | 0.566 | 4.35 | |
| t-Butyl Alcohol | 1 | 0 | | 3.48 | 75.38 | 100 | 20 | | 0.033 | 0.025 | 24.62 | C1 |
| n-Hexane | 1 | 0 | | 3.87 | 14.80 | 20 | 20 | | 0.223 | 0.165 | 25.99 | C1 |
| Di-isopropyl-ether | 1 | 0 | | 4.03 | 17.56 | 20 | 20 | | 0.728 | 0.639 | 12.20 | |
| 1,1-Dichloroethene | 1 | 0 | | 3.01 | 20.69 | 20 | 20 | 0.1 | 0.308 | 0.318 | 3.47 | |
| Methyl Acetate | 1 | 0 | | 3.32 | 19.07 | 20 | 20 | 0.1 | 0.271 | 0.259 | 4.66 | |
| Methyl-t-butyl ether | 1 | 0 | | 3.64 | 18.01 | 20 | 20 | 0.1 | 0.639 | 0.575 | 9.93 | |
| 1,1-Dichloroethane | 1 | 0 | | 4.00 | 20.23 | 20 | 20 | 0.2 | 0.380 | 0.384 | 1.13 | |
| trans-1,2-Dichloroethene | 1 | 0 | | 3.65 | 23.25 | 20 | 20 | 0.1 | 0.222 | 0.258 | 16.26 | |
| Ethyl-t-butyl ether | 1 | 0 | | 4.29 | 18.31 | 20 | 20 | 0.5 | 0.619 | 0.567 | 8.44 | |
| cis-1,2-Dichloroethene | 1 | 0 | | 4.41 | 18.78 | 20 | 20 | 0.1 | 0.393 | 0.369 | 6.08 | |
| Bromochloromethane | 1 | 0 | | 4.57 | 20.07 | 20 | 20 | | 0.188 | 0.189 | 0.34 | |
| 2,2-Dichloropropane | 1 | 0 | | 4.42 | 13.70 | 20 | 20 | | 0.321 | 0.220 | 31.49 | C1 |
| Ethyl acetate | 1 | 0 | | 4.44 | 16.44 | 20 | 20 | | 0.299 | 0.245 | 17.78 | |
| 1,4-Dioxane | 1 | 0 | | 5.49 | 1038.42 | 1000 | 20 | | 0.004 | 0.004 | 3.84 | |
| 1,1-Dichloropropene | 1 | 0 | | 4.82 | 20.60 | 20 | 20 | | 0.299 | 0.308 | 3.01 | |
| Chloroform | 1 | 0 | | 4.61 | 22.25 | 20 | 20 | 0.2 | 0.392 | 0.436 | 11.24 | |
| Dibromofluoromethane | 1 | 0 | S | 4.70 | 32.83 | 30 | ** | | 0.273 | 0.299 | 9.42 | |
| Cyclohexane | 1 | 0 | | 4.77 | 16.41 | 20 | 20 | 0.1 | 0.306 | 0.251 | 17.94 | |
| 1,2-Dichloroethane-d4 | 1 | 0 | S | 4.91 | 26.23 | 30 | ** | | 0.149 | 0.130 | 12.55 | |
| 1,2-Dichloroethane | 1 | 0 | | 4.95 | 19.80 | 20 | 20 | 0.1 | 0.330 | 0.326 | 0.98 | |
| 2-Butanone | 1 | 0 | | 4.41 | 16.07 | 20 | 20 | 0.1 | 0.152 | 0.122 | 19.66 | |
| 1,1,1-Trichloroethane | 1 | 0 | | 4.73 | 22.99 | 20 | 20 | 0.1 | 0.351 | 0.403 | 14.93 | |
| Carbon Tetrachloride | 1 | 0 | | 4.83 | 22.40 | 20 | 20 | 0.1 | 0.311 | 0.349 | 12.00 | |
| Vinyl Acetate | 1 | 0 | | 4.03 | 11.74 | 20 | 20 | | 0.794 | 0.466 | 41.32 | C1 |
| Bromodichloromethane | 1 | 0 | | 5.57 | 20.97 | 20 | 20 | 0.2 | 0.308 | 0.323 | 4.86 | |
| Methylcyclohexane | 1 | 0 | | 5.42 | 18.00 | 20 | 20 | 0.1 | 0.269 | 0.242 | 10.02 | |
| Dibromomethane | 1 | 0 | | 5.50 | 30.72 | 20 | 20 | | 0.183 | 0.282 | 53.59 | C1 |
| 1,2-Dichloropropane | 1 | 0 | | 5.43 | 19.77 | 20 | 20 | 0.1 | 0.226 | 0.223 | 1.14 | |
| Trichloroethene | 1 | 0 | | 5.30 | 28.51 | 20 | 20 | 0.2 | 0.248 | 0.354 | 42.54 | C1 |
| Benzene | 1 | 0 | | 4.95 | 21.01 | 20 | 20 | 0.5 | 0.875 | 0.919 | 5.03 | |
| tert-Amyl methyl ether | 1 | 0 | | 4.99 | 19.31 | 20 | 20 | | 0.635 | 0.613 | 3.47 | |
| Chlorobenzene-d5 | 1 | 0 | I | 6.73 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| Iso-propylacetate | 1 | 0 | | 4.95 | 15.46 | 20 | 20 | 0.5 | 0.736 | 0.569 | 22.68 | C1 |
| Methyl methacrylate | 1 | 0 | | 5.45 | 17.16 | 20 | 20 | 0.5 | 0.317 | 0.272 | 14.18 | |
| Dibromochloromethane | 1 | 0 | | 6.42 | 20.93 | 20 | 20 | 0.1 | 0.336 | 0.351 | 4.65 | |

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F.**
**624 limits are compared against the concentration found.**
**625 limits are compared against the %DIFF.**
**524.2 limits are compared against the %DIFF**

# Form7

Continuing Calibration

**Calibration Name:** CAL @ 20 PPB **Data File:** 2M157114.D **Instrument:** GCMS 2

**Cont Calibration Date/Time** 9/22/2021 1:16:00 P **Method:** EPA 8260D

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Chloroethylvinylether | 1 | 0 | | 5.71 | 12.88 | 20 | 20 | | 0.225 | 0.145 | 35.62 | C1 |
| cis-1,3-Dichloropropene | 1 | 0 | | 5.81 | 16.57 | 20 | 20 | 0.2 | 0.471 | 0.390 | 17.16 | |
| trans-1,3-Dichloropropene | 1 | 0 | | 6.09 | 15.16 | 20 | 20 | 0.1 | 0.437 | 0.331 | 24.19 | C1 |
| Ethyl methacrylate | 1 | 0 | | 6.11 | 19.82 | 20 | 20 | 0.5 | 0.325 | 0.322 | 0.89 | |
| 1,1,2-Trichloroethane | 1 | 0 | | 6.20 | 19.07 | 20 | 20 | 0.1 | 0.287 | 0.274 | 4.67 | |
| 1,2-Dibromoethane | 1 | 0 | | 6.49 | 19.94 | 20 | 20 | 0.1 | 0.314 | 0.313 | 0.30 | |
| 1,3-Dichloropropane | 1 | 0 | | 6.29 | 17.80 | 20 | 20 | | 0.480 | 0.427 | 10.98 | |
| 4-Methyl-2-Pentanone | 1 | 0 | | 5.87 | 16.37 | 20 | 20 | 0.1 | 0.392 | 0.321 | 18.13 | |
| 2-Hexanone | 1 | 0 | | 6.31 | 16.21 | 20 | 20 | 0.1 | 0.293 | 0.238 | 18.97 | |
| Tetrachloroethene | 1 | 0 | | 6.29 | 23.95 | 20 | 20 | 0.2 | 0.268 | 0.321 | 19.75 | |
| Toluene-d8 | 1 | 0 | S | 5.95 | 26.67 | 30 | ** | | 1.303 | 1.158 | 11.11 | |
| Toluene | 1 | 0 | | 5.99 | 18.91 | 20 | 20 | 0.4 | 0.746 | 0.705 | 5.45 | |
| 1,1,1,2-Tetrachloroethane | 1 | 0 | | 6.79 | 21.78 | 20 | 20 | | 0.297 | 0.323 | 8.90 | |
| Chlorobenzene | 1 | 0 | | 6.75 | 20.80 | 20 | 20 | 0.5 | 0.829 | 0.862 | 4.02 | |
| 1,4-Dichlorobenzene-d4 | 1 | 0 | I | 8.02 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| n-Butyl acrylate | 1 | 0 | | 6.99 | 10.91 | 20 | 20 | 0.5 | 1.269 | 0.692 | 45.46 | C1 |
| n-Amyl acetate | 1 | 0 | | 7.11 | 15.99 | 20 | 20 | 0.5 | 1.246 | 0.996 | 20.06 | |
| Bromoform | 1 | 0 | | 7.20 | 18.59 | 20 | 20 | 0.1 | 0.561 | 0.521 | 7.05 | |
| Ethylbenzene | 1 | 0 | | 6.79 | 16.77 | 20 | 20 | 0.1 | 0.743 | 0.623 | 16.14 | |
| 1,1,2,2-Tetrachloroethane | 1 | 0 | | 7.42 | 17.42 | 20 | 20 | 0.1 | 0.848 | 0.739 | 12.88 | |
| Bromofluorobenzene | 1 | 0 | S | 7.37 | 31.92 | 30 | ** | | 0.912 | 0.970 | 6.39 | |
| Styrene | 1 | 0 | | 7.07 | 16.79 | 20 | 20 | 0.3 | 1.802 | 1.512 | 16.06 | |
| m&p-Xylenes | 1 | 0 | | 6.85 | 33.48 | 40 | 20 | 0.1 | 1.104 | 0.924 | 16.31 | |
| o-Xylene | 1 | 0 | | 7.07 | 17.13 | 20 | 20 | 0.3 | 1.055 | 0.904 | 14.37 | |
| trans-1,4-Dichloro-2-butene | 1 | 0 | | 7.45 | 10.10 | 20 | 20 | | 0.359 | 0.181 | 49.49 | C1 |
| 1,3-Dichlorobenzene | 1 | 0 | | 7.99 | 20.12 | 20 | 20 | 0.6 | 1.189 | 1.196 | 0.60 | |
| 1,4-Dichlorobenzene | 1 | 0 | | 8.04 | 19.96 | 20 | 20 | 0.5 | 1.217 | 1.215 | 0.18 | |
| 1,2-Dichlorobenzene | 1 | 0 | | 8.26 | 19.68 | 20 | 20 | 0.4 | 1.141 | 1.123 | 1.62 | |
| Isopropylbenzene | 1 | 0 | | 7.26 | 16.92 | 20 | 20 | 0.1 | 2.452 | 2.075 | 15.41 | |
| Cyclohexanone | 1 | 0 | | 7.34 | 70.92 | 100 | 20 | | 0.037 | 0.026 | 29.08 | C1 |
| Camphene | 1 | 0 | | 7.43 | 16.03 | 20 | 20 | | 0.597 | 0.478 | 19.84 | |
| 1,2,3-Trichloropropane | 1 | 0 | | 7.46 | 16.01 | 20 | 20 | | 1.084 | 0.868 | 19.93 | |
| 2-Chlorotoluene | 1 | 0 | | 7.56 | 16.01 | 20 | 20 | | 1.480 | 1.185 | 19.94 | |
| p-Ethyltoluene | 1 | 0 | | 7.55 | 16.84 | 20 | 20 | | 2.472 | 2.081 | 15.81 | |
| 4-Chlorotoluene | 1 | 0 | | 7.62 | 15.61 | 20 | 20 | | 1.487 | 1.161 | 21.96 | C1 |
| n-Propylbenzene | 1 | 0 | | 7.49 | 15.97 | 20 | 20 | | 2.763 | 2.206 | 20.15 | |
| Bromobenzene | 1 | 0 | | 7.46 | 19.84 | 20 | 20 | | 1.590 | 1.577 | 0.82 | |
| 1,3,5-Trimethylbenzene | 1 | 0 | | 7.58 | 16.16 | 20 | 20 | | 1.732 | 1.399 | 19.20 | |
| Butyl methacrylate | 1 | 0 | | 7.59 | 18.86 | 20 | 20 | 0.5 | 0.867 | 0.818 | 5.68 | |
| t-Butylbenzene | 1 | 0 | | 7.78 | 17.90 | 20 | 20 | | 1.800 | 1.611 | 10.52 | |
| 1,2,4-Trimethylbenzene | 1 | 0 | | 7.80 | 16.40 | 20 | 20 | | 1.973 | 1.618 | 18.01 | |
| sec-Butylbenzene | 1 | 0 | | 7.90 | 16.61 | 20 | 20 | | 2.120 | 1.760 | 16.96 | |
| 4-Isopropyltoluene | 1 | 0 | | 7.97 | 17.51 | 20 | 20 | | 1.778 | 1.557 | 12.43 | |
| n-Butylbenzene | 1 | 0 | | 8.21 | 15.74 | 20 | 20 | | 1.868 | 1.470 | 21.29 | C1 |
| p-Diethylbenzene | 1 | 0 | | 8.19 | 16.29 | 20 | 20 | | 1.021 | 0.832 | 18.56 | |
| 1,2,4,5-Tetramethylbenzene | 1 | 0 | | 8.65 | 16.06 | 20 | 20 | | 1.252 | 1.006 | 19.70 | |
| 1,2-Dibromo-3-Chloropropane | 1 | 0 | | 8.71 | 18.95 | 20 | 20 | 0.05 | 0.212 | 0.201 | 5.27 | |
| Camphor | 1 | 0 | | 9.15 | 145.72 | 200 | 20 | | 0.095 | 0.069 | 27.14 | C1 |
| Hexachlorobutadiene | 1 | 0 | | 9.28 | 22.13 | 20 | 20 | | 0.291 | 0.322 | 10.66 | |
| 1,2,4-Trichlorobenzene | 1 | 0 | | 9.20 | 21.20 | 20 | 20 | 0.2 | 0.588 | 0.624 | 6.01 | |
| 1,2,3-Trichlorobenzene | 1 | 0 | | 9.50 | 20.32 | 20 | 20 | | 0.528 | 0.537 | 1.61 | |
| Naphthalene | 1 | 0 | | 9.36 | 16.17 | 20 | 20 | | 1.838 | 1.485 | 19.17 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

Quantitation Report (QT Reviewed)

SampleID : CAL ● 20 PPB  Operator : WP  Qt Meth : 2M_A0831.M
Data File: 2M157114.D  Sam Mult : 1 Vial# : 7  Qt On : 09/22/21 18:53
Acq On : 09/22/21 13:16  Misc : A,5ML  Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 215735 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 188989 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 107529 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.703 | 111 | 64528 | 32.83 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 109.43% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 28016 | 26.23 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 87.43% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 218826 | 26.67 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 88.90% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 104346 | 31.92 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.40% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 29396 | 12.2532 | ug/l | 63 |
| 6) Dichlorodifluoromethane | 1.685 | 85 | 38854 | 37.8847 | ug/l | 98 |
| 7) Chloromethane | 1.862 | 50 | 28751 | 20.8390 | ug/l | 100 |
| 8) Bromomethane | 2.252 | 94 | 7486m | 6.0172 | ug/l | |
| 9) Vinyl Chloride | 1.953 | 62 | 33123 | 21.2649 | ug/l | 92 |
| 10) Chloroethane | 2.337 | 64 | 21973 | 20.5333 | ug/l | 97 |
| 11) Trichlorofluoromethane | 2.563 | 101 | 57881 | 21.4804 | ug/l | 97 |
| 12) Ethyl ether | 2.801 | 59 | 22734 | 20.8234 | ug/l | 97 |
| 13) Furan | 2.837 | 39 | 47491 | 21.7560 | ug/l | 88 |
| 14) 1,1,2-Trichloro-1,2,2-... | 2.996 | 101 | 26641 | 19.9766 | ug/l | 86 |
| 15) Methylene Chloride | 3.416 | 84 | 34924 | 21.5891 | ug/l | 95 |
| 16) Acrolein | 2.916 | 56 | 20868m | 69.1742 | ug/l | |
| 17) Acrylonitrile | 3.624 | 53 | 14355 | 17.1226 | ug/l | 91 |
| 18) Iodomethane | 3.148 | 142 | 27266m | 16.5335 | ug/l | |
| 19) Acetone | 3.044 | 43 | 55623 | 85.8834 | ug/l | 99 |
| 20) Carbon Disulfide | 3.215 | 76 | 81431 | 19.1300 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.483 | 59 | 17933m | 75.3764 | ug/l | |
| 22) n-Hexane | 3.873 | 57 | 23689 | 14.8015 | ug/l | 93 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 91954 | 17.5593 | ug/l | 97 |
| 24) 1,1-Dichloroethene | 3.008 | 61 | 45791 | 20.6941 | ug/l | 96 |
| 25) Methyl Acetate | 3.319 | 43 | 37220 | 19.0677 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 82724 | 18.0138 | ug/l | 95 |
| 27) 1,1-Dichloroethane | 4.002 | 63 | 55212 | 20.2259 | ug/l | 98 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 37162 | 23.2523 | ug/l | 95 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 81496 | 18.3116 | ug/l | 98 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 53087 | 18.7842 | ug/l | 93 |
| 31) Bromochloromethane | 4.569 | 49 | 27181 | 20.0671 | ug/l | 80 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 31596 | 13.7019 | ug/l | 96 |
| 33) Ethyl acetate | 4.440 | 43 | 35304m | 16.4434 | ug/l | |
| 34) 1,4-Dioxane | 5.489 | 88 | 30343 | 1038.4235 | ug/l | 95 |
| 35) 1,1-Dichloropropene | 4.825 | 75 | 44228 | 20.6018 | ug/l | 94 |
| 36) Chloroform | 4.605 | 83 | 62716 | 22.2470 | ug/l | 96 |
| 38) Cyclohexane | 4.770 | 56 | 36116 | 16.4120 | ug/l | 96 |
| 40) 1,2-Dichloroethane | 4.953 | 62 | 46954 | 19.8038 | ug/l | 99 |
| 41) 2-Butanone | 4.410 | 43 | 17585m | 16.0679 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 57938 | 22.9861 | ug/l | 94 |
| 43) Carbon Tetrachloride | 4.831 | 117 | 50173 | 22.3999 | ug/l | 100 |
| 44) Vinyl Acetate | 4.026 | 43 | 67005 | 11.7354 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 46424 | 20.9722 | ug/l | 96 |
| 46) Methylcyclohexane | 5.416 | 83 | 34815 | 17.9958 | ug/l | 96 |
| 47) Dibromomethane | 5.495 | 174 | 40502m | 30.7175 | ug/l | |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 32070 | 19.7712 | ug/l | 96 |
| 49) Trichloroethene | 5.300 | 130 | 50861m | 28.5072 | ug/l | |
| 50) Benzene | 4.953 | 78 | 132227 | 21.0055 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 88122m | 19.3056 | ug/l | |
| 53) Iso-propylacetate | 4.946 | 43 | 71656m | 15.4639 | ug/l | |
| 54) Methyl methacrylate | 5.452 | 41 | 34319 | 17.1648 | ug/l | 90 |
| 55) Dibromochloromethane | 6.422 | 129 | 44286 | 20.9293 | ug/l | 100 |
| 56) 2-Chloroethylvinylether | 5.709 | 63 | 18220 | 12.8756 | ug/l | 98 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 49176m | 16.5678 | ug/l | |
| 58) trans-1,3-Dichloropropene | 6.093 | 75 | 41758m | 15.1630 | ug/l | |
| 59) Ethyl methacrylate | 6.111 | 41 | 40525m | 19.8227 | ug/l | |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 34472 | 19.0654 | ug/l | 99 |
| 61) 1,2-Dibromoethane | 6.495 | 107 | 39389 | 19.9393 | ug/l | 92 |
| 62) 1,3-Dichloropropane | 6.288 | 76 | 53806 | 17.8043 | ug/l | 96 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 40411m | 16.3732 | ug/l | |
| 64) 2-Hexanone | 6.306 | 43 | 29930m | 16.2056 | ug/l | |
| 65) Tetrachloroethene | 6.288 | 164 | 40398m | 23.9501 | ug/l | |
| 67) Toluene | 5.989 | 92 | 88871 | 18.9091 | ug/l | 96 |

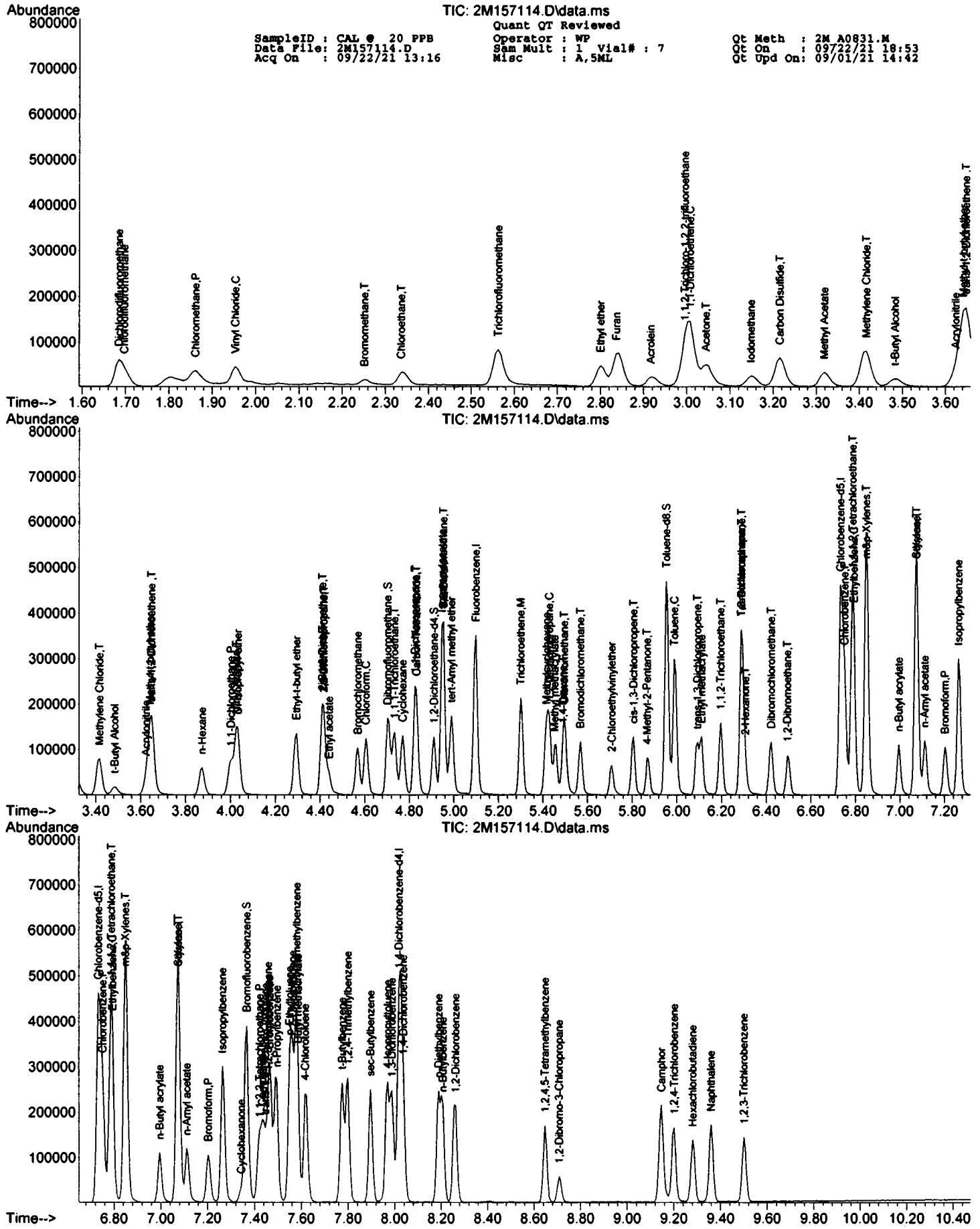
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157114.D Sam Mult : 1 Vial# : 7 Qt On : 09/22/21 18:53
Acq On : 09/22/21 13:16 Misc : A,5ML Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 6.788 | 133 | 40746 | 21.7808 | ug/l | 91 |
| 69) | Chlorobenzene | 6.751 | 112 | 108652 | 20.8036 | ug/l | 98 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 49630 | 10.9074 | ug/l | 97 |
| 72) | n-Amyl acetate | 7.111 | 43 | 71379m | 15.9881 | ug/l | |
| 73) | Bromoform | 7.202 | 173 | 37371 | 18.5890 | ug/l | 98 |
| 74) | Ethylbenzene | 6.794 | 106 | 44652 | 16.7730 | ug/l | 90 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.422 | 83 | 52984m | 17.4236 | ug/l | |
| 77) | Styrene | 7.074 | 104 | 108401 | 16.7874 | ug/l | 96 |
| 78) | m&p-Xylenes | 6.849 | 106 | 132480 | 33.4773 | ug/l | 98 |
| 79) | o-Xylene | 7.074 | 106 | 64785 | 17.1269 | ug/l | 90 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 13008m | 10.1028 | ug/l | |
| 81) | 1,3-Dichlorobenzene | 7.989 | 146 | 85770 | 20.1202 | ug/l | 95 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 87074 | 19.9647 | ug/l | 96 |
| 83) | 1,2-Dichlorobenzene | 8.263 | 146 | 80484 | 19.6758 | ug/l | 95 |
| 84) | Isopropylbenzene | 7.263 | 105 | 148714 | 16.9190 | ug/l | 97 |
| 85) | Cyclohexanone | 7.342 | 55 | 9457m | 70.9235 | ug/l | |
| 86) | Camphene | 7.434 | 93 | 34291m | 16.0329 | ug/l | |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 62217m | 16.0138 | ug/l | |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 84964 | 16.0116 | ug/l | 97 |
| 89) | p-Ethyltoluene | 7.550 | 105 | 149205 | 16.8375 | ug/l | 97 |
| 90) | 4-Chlorotoluene | 7.617 | 91 | 83200m | 15.6076 | ug/l | |
| 91) | n-Propylbenzene | 7.495 | 91 | 158128 | 15.9694 | ug/l | 93 |
| 92) | Bromobenzene | 7.464 | 77 | 113064m | 19.8352 | ug/l | |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 100314 | 16.1594 | ug/l | 84 |
| 94) | Butyl methacrylate | 7.586 | 41 | 58655m | 18.8647 | ug/l | |
| 95) | t-Butylbenzene | 7.775 | 119 | 115491 | 17.8968 | ug/l | 95 |
| 96) | 1,2,4-Trimethylbenzene | 7.800 | 105 | 115975 | 16.3983 | ug/l | 96 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 126164 | 16.6071 | ug/l | 93 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 111587 | 17.5143 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.208 | 91 | 105388m | 15.7411 | ug/l | |
| 100) | p-Diethylbenzene | 8.190 | 119 | 59614 | 16.2880 | ug/l | 93 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 72095m | 16.0596 | ug/l | |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 14428 | 18.9460 | ug/l | 83 |
| 103) | Camphor | 9.147 | 95 | 49657m | 145.7241 | ug/l | |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 23054 | 22.1318 | ug/l | 94 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 44713 | 21.2016 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.501 | 180 | 38496 | 20.3224 | ug/l | 95 |
| 107) | Naphthalene | 9.360 | 128 | 106489 | 16.1659 | ug/l | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 2M157114.D
Acq On : 09/22/21 13:16
Operator : WP
Sam Mult : 1 Vial# : 7
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:53
Qt Upd On: 09/01/21 14:42
Abundance
Time-->

# Form7

Continuing Calibration

**Calibration Name:** CAL @ 20 PPB **Data File:** 1M152870.D **Instrument:** GCMS 1

**Cont Calibration Date/Time** 9/23/2021 12:33:00 **Method:** EPA 8260D

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fluorobenzene | 1 | 0 | I | 5.30 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| Chlorodifluoromethane | 1 | 0 | | 2.09 | 11.46 | 20 | 20 | 0.1 | 0.316 | 0.212 | 42.69 | C1 |
| Dichlorodifluoromethane | 1 | 0 | | 2.08 | 3.43 | 20 | 20 | 0.1 | 0.177 | 0.025 | 82.83 | C1 |
| Chloromethane | 1 | 0 | | 2.25 | 8.46 | 20 | 20 | 0.1 | 0.269 | 0.114 | 57.72 | C1 |
| Bromomethane | 1 | 0 | | 2.61 | 6.85 | 20 | 20 | 0.1 | 0.144 | 0.049 | 65.73 | C1 |
| Vinyl Chloride | 1 | 0 | | 2.33 | 8.14 | 20 | 20 | 0.1 | 0.259 | 0.106 | 59.32 | C1 |
| Chloroethane | 1 | 0 | | 2.70 | 12.95 | 20 | 20 | 0.1 | 0.172 | 0.111 | 35.24 | C1 |
| Trichlorofluoromethane | 1 | 0 | | 2.90 | 12.76 | 20 | 20 | 0.1 | 0.381 | 0.243 | 36.22 | C1 |
| Ethyl ether | 1 | 0 | | 3.11 | 19.07 | 20 | 20 | 0.5 | 0.172 | 0.164 | 4.67 | |
| Furan | 1 | 0 | | 3.15 | 19.81 | 20 | 20 | 0.5 | 0.323 | 0.320 | 0.93 | |
| 1,1,2-Trichloro-1,2,2-trifluoroetha | 1 | 0 | | 3.31 | 15.93 | 20 | 20 | 0.1 | 0.176 | 0.140 | 20.36 | |
| Methylene Chloride | 1 | 0 | | 3.69 | 17.40 | 20 | 20 | 0.1 | 0.245 | 0.213 | 12.99 | |
| Acrolein | 1 | 0 | | 3.22 | 120.22 | 100 | 20 | | 0.033 | 0.039 | 20.22 | |
| Acrylonitrile | 1 | 0 | | 3.86 | 27.05 | 20 | 20 | | 0.084 | 0.117 | 35.23 | C1 |
| Iodomethane | 1 | 0 | | 3.44 | 6.32 | 20 | 20 | | 0.213 | 0.081 | 68.38 | C1 |
| Acetone | 1 | 0 | | 3.32 | 128.36 | 100 | 20 | 0.1 | 0.072 | 0.074 | 28.36 | C1 |
| Carbon Disulfide | 1 | 0 | | 3.52 | 17.65 | 20 | 20 | 0.1 | 0.522 | 0.460 | 11.77 | |
| t-Butyl Alcohol | 1 | 0 | | 3.74 | 125.28 | 100 | 20 | | 0.024 | 0.030 | 25.28 | C1 |
| n-Hexane | 1 | 0 | | 4.11 | 17.38 | 20 | 20 | | 0.216 | 0.188 | 13.11 | |
| Di-isopropyl-ether | 1 | 0 | | 4.26 | 25.63 | 20 | 20 | | 0.695 | 0.890 | 28.15 | C1 |
| 1,1-Dichloroethene | 1 | 0 | | 3.32 | 15.97 | 20 | 20 | 0.1 | 0.405 | 0.323 | 20.17 | |
| Methyl Acetate | 1 | 0 | | 3.59 | 25.03 | 20 | 20 | 0.1 | 0.185 | 0.232 | 25.13 | C1 |
| Methyl-t-butyl ether | 1 | 0 | | 3.90 | 19.78 | 20 | 20 | 0.1 | 0.660 | 0.587 | 1.10 | |
| 1,1-Dichloroethane | 1 | 0 | | 4.23 | 19.45 | 20 | 20 | 0.2 | 0.470 | 0.457 | 2.76 | |
| trans-1,2-Dichloroethene | 1 | 0 | | 3.91 | 15.99 | 20 | 20 | 0.1 | 0.249 | 0.199 | 20.07 | |
| Ethyl-t-butyl ether | 1 | 0 | | 4.51 | 21.64 | 20 | 20 | 0.5 | 0.729 | 0.789 | 8.18 | |
| cis-1,2-Dichloroethene | 1 | 0 | | 4.62 | 21.32 | 20 | 20 | 0.1 | 0.483 | 0.515 | 6.59 | |
| Bromochloromethane | 1 | 0 | | 4.77 | 23.38 | 20 | 20 | | 0.242 | 0.283 | 16.90 | |
| 2,2-Dichloropropane | 1 | 0 | | 4.63 | 19.23 | 20 | 20 | | 0.394 | 0.378 | 3.83 | |
| Ethyl acetate | 1 | 0 | | 4.64 | 23.53 | 20 | 20 | | 0.238 | 0.279 | 17.65 | |
| 1,4-Dioxane | 1 | 0 | | 5.70 | 1089.03 | 1000 | 20 | | 0.003 | 0.003 | 8.90 | |
| 1,1-Dichloropropene | 1 | 0 | | 5.03 | 18.18 | 20 | 20 | | 0.333 | 0.303 | 9.11 | |
| Chloroform | 1 | 0 | | 4.80 | 20.11 | 20 | 20 | 0.2 | 0.458 | 0.460 | 0.54 | |
| Dibromofluoromethane | 1 | 0 | S | 4.90 | 32.59 | 30 | ** | | 0.262 | 0.285 | 8.64 | |
| Cyclohexane | 1 | 0 | | 4.98 | 18.91 | 20 | 20 | 0.1 | 0.323 | 0.305 | 5.44 | |
| 1,2-Dichloroethane-d4 | 1 | 0 | S | 5.11 | 35.05 | 30 | ** | | 0.143 | 0.167 | 16.84 | |
| 1,2-Dichloroethane | 1 | 0 | | 5.15 | 21.18 | 20 | 20 | 0.1 | 0.407 | 0.431 | 5.89 | |
| 2-Butanone | 1 | 0 | | 4.63 | 22.81 | 20 | 20 | 0.1 | 0.168 | 0.152 | 14.05 | |
| 1,1,1-Trichloroethane | 1 | 0 | | 4.94 | 18.97 | 20 | 20 | 0.1 | 0.423 | 0.401 | 5.14 | |
| Carbon Tetrachloride | 1 | 0 | | 5.04 | 16.87 | 20 | 20 | 0.1 | 0.352 | 0.297 | 15.66 | |
| Vinyl Acetate | 1 | 0 | | 4.25 | 25.57 | 20 | 20 | | 0.688 | 0.879 | 27.83 | C1 |
| Bromodichloromethane | 1 | 0 | | 5.77 | 20.96 | 20 | 20 | 0.2 | 0.346 | 0.363 | 4.81 | |
| Methylcyclohexane | 1 | 0 | | 5.63 | 16.65 | 20 | 20 | 0.1 | 0.267 | 0.222 | 16.74 | |
| Dibromomethane | 1 | 0 | | 5.70 | 18.42 | 20 | 20 | | 0.171 | 0.157 | 7.89 | |
| 1,2-Dichloropropane | 1 | 0 | | 5.63 | 21.12 | 20 | 20 | 0.1 | 0.262 | 0.276 | 5.59 | |
| Trichloroethene | 1 | 0 | | 5.51 | 17.54 | 20 | 20 | 0.2 | 0.275 | 0.241 | 12.32 | |
| Benzene | 1 | 0 | | 5.15 | 17.87 | 20 | 20 | 0.5 | 0.967 | 0.864 | 10.65 | |
| tert-Amyl methyl ether | 1 | 0 | | 5.20 | 19.50 | 20 | 20 | | 0.622 | 0.606 | 2.52 | |
| Chlorobenzene-d5 | 1 | 0 | I | 6.96 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| Iso-propylacetate | 1 | 0 | | 5.15 | 24.05 | 20 | 20 | 0.5 | 0.538 | 0.647 | 20.25 | |
| Methyl methacrylate | 1 | 0 | | 5.66 | 24.02 | 20 | 20 | 0.5 | 0.227 | 0.273 | 20.11 | |
| Dibromochloromethane | 1 | 0 | | 6.64 | 18.16 | 20 | 20 | 0.1 | 0.337 | 0.306 | 9.21 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

# Form7

Continuing Calibration

**Calibration Name:** CAL @ 20 PPB **Data File:** 1M152870.D **Instrument:** GCMS 1

**Cont Calibration Date/Time** 9/23/2021 12:33:00 **Method:** EPA 8260D

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Chloroethylvinylether | 1 | 0 | | 5.91 | 19.86 | 20 | 20 | | 0.191 | 0.190 | 0.72 | |
| cis-1,3-Dichloropropene | 1 | 0 | | 6.01 | 18.34 | 20 | 20 | 0.2 | 0.470 | 0.431 | 8.32 | |
| trans-1,3-Dichloropropene | 1 | 0 | | 6.30 | 18.25 | 20 | 20 | 0.1 | 0.442 | 0.403 | 8.73 | |
| Ethyl methacrylate | 1 | 0 | | 6.33 | 23.92 | 20 | 20 | 0.5 | 0.255 | 0.305 | 19.59 | |
| 1,1,2-Trichloroethane | 1 | 0 | | 6.41 | 18.32 | 20 | 20 | 0.1 | 0.284 | 0.261 | 8.39 | |
| 1,2-Dibromoethane | 1 | 0 | | 6.71 | 18.66 | 20 | 20 | 0.1 | 0.292 | 0.273 | 6.70 | |
| 1,3-Dichloropropane | 1 | 0 | | 6.50 | 19.74 | 20 | 20 | | 0.482 | 0.476 | 1.30 | |
| 4-Methyl-2-Pentanone | 1 | 0 | | 6.08 | 24.08 | 20 | 20 | 0.1 | 0.263 | 0.317 | 20.40 | |
| 2-Hexanone | 1 | 0 | | 6.52 | 23.43 | 20 | 20 | 0.1 | 0.181 | 0.212 | 17.17 | |
| Tetrachloroethene | 1 | 0 | | 6.51 | 17.58 | 20 | 20 | 0.2 | 0.280 | 0.246 | 12.08 | |
| Toluene-d8 | 1 | 0 | S | 6.17 | 29.37 | 30 | ** | | 1.277 | 1.250 | 2.09 | |
| Toluene | 1 | 0 | | 6.21 | 18.06 | 20 | 20 | 0.4 | 0.810 | 0.731 | 9.71 | |
| 1,1,1,2-Tetrachloroethane | 1 | 0 | | 7.01 | 18.52 | 20 | 20 | | 0.311 | 0.288 | 7.40 | |
| Chlorobenzene | 1 | 0 | | 6.97 | 18.17 | 20 | 20 | 0.5 | 0.896 | 0.815 | 9.14 | |
| 1,4-Dichlorobenzene-d4 | 1 | 0 | I | 8.25 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| n-Butyl acrylate | 1 | 0 | | 7.22 | 21.81 | 20 | 20 | 0.5 | 1.096 | 1.195 | 9.05 | |
| n-Amyl acetate | 1 | 0 | | 7.34 | 23.98 | 20 | 20 | 0.5 | 0.861 | 1.032 | 19.88 | |
| Bromoform | 1 | 0 | | 7.43 | 16.48 | 20 | 20 | 0.1 | 0.414 | 0.341 | 17.62 | |
| Ethylbenzene | 1 | 0 | | 7.02 | 17.91 | 20 | 20 | 0.1 | 0.741 | 0.663 | 10.43 | |
| 1,1,2,2-Tetrachloroethane | 1 | 0 | | 7.64 | 20.08 | 20 | 20 | 0.1 | 0.645 | 0.647 | 0.40 | |
| Bromofluorobenzene | 1 | 0 | S | 7.60 | 29.39 | 30 | ** | | 0.778 | 0.762 | 2.03 | |
| Styrene | 1 | 0 | | 7.30 | 18.08 | 20 | 20 | 0.3 | 1.779 | 1.608 | 9.61 | |
| m&p-Xylenes | 1 | 0 | | 7.08 | 35.86 | 40 | 20 | 0.1 | 1.057 | 0.948 | 10.35 | |
| o-Xylene | 1 | 0 | | 7.30 | 18.08 | 20 | 20 | 0.3 | 1.024 | 0.926 | 9.61 | |
| trans-1,4-Dichloro-2-butene | 1 | 0 | | 7.67 | 18.19 | 20 | 20 | | 0.270 | 0.246 | 9.04 | |
| 1,3-Dichlorobenzene | 1 | 0 | | 8.22 | 17.64 | 20 | 20 | 0.6 | 1.249 | 1.102 | 11.78 | |
| 1,4-Dichlorobenzene | 1 | 0 | | 8.27 | 18.49 | 20 | 20 | 0.5 | 1.291 | 1.193 | 7.54 | |
| 1,2-Dichlorobenzene | 1 | 0 | | 8.49 | 17.51 | 20 | 20 | 0.4 | 1.194 | 1.045 | 12.48 | |
| Isopropylbenzene | 1 | 0 | | 7.50 | 18.30 | 20 | 20 | 0.1 | 2.504 | 2.292 | 8.48 | |
| Cyclohexanone | 1 | 0 | | 7.57 | 130.66 | 100 | 20 | | 0.025 | 0.033 | 30.66 | C1 |
| Camphene | 1 | 0 | | 7.67 | 18.42 | 20 | 20 | | 0.565 | 0.520 | 7.89 | |
| 1,2,3-Trichloropropane | 1 | 0 | | 7.68 | 17.35 | 20 | 20 | | 0.831 | 0.721 | 13.25 | |
| 2-Chlorotoluene | 1 | 0 | | 7.79 | 18.60 | 20 | 20 | | 1.643 | 1.528 | 7.00 | |
| p-Ethyltoluene | 1 | 0 | | 7.79 | 19.01 | 20 | 20 | | 2.483 | 2.360 | 4.94 | |
| 4-Chlorotoluene | 1 | 0 | | 7.85 | 18.95 | 20 | 20 | | 1.648 | 1.561 | 5.26 | |
| n-Propylbenzene | 1 | 0 | | 7.72 | 19.06 | 20 | 20 | | 2.933 | 2.795 | 4.70 | |
| Bromobenzene | 1 | 0 | | 7.69 | 20.32 | 20 | 20 | | 1.435 | 1.458 | 1.62 | |
| 1,3,5-Trimethylbenzene | 1 | 0 | | 7.81 | 18.27 | 20 | 20 | | 2.037 | 1.861 | 8.66 | |
| Butyl methacrylate | 1 | 0 | | 7.82 | 23.76 | 20 | 20 | 0.5 | 0.744 | 0.883 | 18.79 | |
| t-Butylbenzene | 1 | 0 | | 8.01 | 17.89 | 20 | 20 | | 1.892 | 1.693 | 10.54 | |
| 1,2,4-Trimethylbenzene | 1 | 0 | | 8.03 | 18.54 | 20 | 20 | | 2.118 | 1.963 | 7.32 | |
| sec-Butylbenzene | 1 | 0 | | 8.13 | 17.99 | 20 | 20 | | 2.321 | 2.088 | 10.03 | |
| 4-Isopropyltoluene | 1 | 0 | | 8.20 | 17.81 | 20 | 20 | | 1.945 | 1.732 | 10.94 | |
| n-Butylbenzene | 1 | 0 | | 8.44 | 19.53 | 20 | 20 | | 2.097 | 2.048 | 2.33 | |
| p-Diethylbenzene | 1 | 0 | | 8.42 | 18.23 | 20 | 20 | | 1.117 | 1.018 | 8.84 | |
| 1,2,4,5-Tetramethylbenzene | 1 | 0 | | 8.88 | 16.44 | 20 | 20 | | 1.531 | 1.259 | 17.79 | |
| 1,2-Dibromo-3-Chloropropane | 1 | 0 | | 8.94 | 18.68 | 20 | 20 | 0.05 | 0.134 | 0.125 | 6.61 | |
| Camphor | 1 | 0 | | 9.38 | 172.99 | 200 | 20 | | 0.063 | 0.055 | 13.50 | |
| Hexachlorobutadiene | 1 | 0 | | 9.52 | 18.11 | 20 | 20 | | 0.290 | 0.262 | 9.43 | |
| 1,2,4-Trichlorobenzene | 1 | 0 | | 9.43 | 18.60 | 20 | 20 | 0.2 | 0.659 | 0.613 | 7.01 | |
| 1,2,3-Trichlorobenzene | 1 | 0 | | 9.74 | 19.68 | 20 | 20 | | 0.526 | 0.518 | 1.58 | |
| Naphthalene | 1 | 0 | | 9.59 | 18.33 | 20 | 20 | | 1.581 | 1.449 | 8.37 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152870.D Sam Mult : 1 Vial# : 13 Qt On : 09/23/21 00:48
Acq On : 09/23/21 00:33 Misc : A,5ML Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 91994 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.955 | 117 | 74895 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 42051 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.904 | 111 | 26210 | 32.59 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.63% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 15325 | 35.05 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 116.83% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 93634 | 29.37 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.90% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 32045 | 29.39 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.97% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.087 | 51 | 13032m | 11.4623 | ug/l | |
| 6) Dichlorodifluoromethane | 2.081 | 85 | 1540m | 3.4345 | ug/l | |
| 7) Chloromethane | 2.248 | 50 | 6964m | 8.4561 | ug/l | |
| 8) Bromomethane | 2.612 | 94 | 3031m | 6.8531 | ug/l | |
| 9) Vinyl Chloride | 2.325 | 62 | 6471m | 8.1367 | ug/l | |
| 10) Chloroethane | 2.698 | 64 | 6813m | 12.9529 | ug/l | |
| 11) Trichlorofluoromethane | 2.904 | 101 | 14915 | 12.7551 | ug/l | 88 |
| 12) Ethyl ether | 3.110 | 59 | 10077m | 19.0661 | ug/l | |
| 13) Furan | 3.152 | 39 | 19595m | 19.8137 | ug/l | |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.306 | 101 | 8594m | 15.9288 | ug/l | |
| 15) Methylene Chloride | 3.685 | 84 | 13065m | 17.4013 | ug/l | |
| 16) Acrolein | 3.222 | 56 | 12004 | 120.2182 | ug/l | 93 |
| 17) Acrylonitrile | 3.859 | 53 | 7193m | 27.0465 | ug/l | |
| 18) Iodomethane | 3.444 | 142 | 4938m | 6.3237 | ug/l | |
| 19) Acetone | 3.322 | 43 | 22620 | 128.3640 | ug/l | 99 |
| 20) Carbon Disulfide | 3.515 | 76 | 28225 | 17.6464 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.737 | 59 | 9187 | 125.2792 | ug/l | 81 |
| 22) n-Hexane | 4.113 | 57 | 11501 | 17.3788 | ug/l | 95 |
| 23) Di-isopropyl-ether | 4.258 | 45 | 54606 | 25.6308 | ug/l | 74 |
| 24) 1,1-Dichloroethene | 3.316 | 61 | 19819 | 15.9663 | ug/l | 77 |
| 25) Methyl Acetate | 3.589 | 43 | 14216 | 25.0263 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.901 | 73 | 35996 | 19.7793 | ug/l | 79 |
| 27) 1,1-Dichloroethane | 4.226 | 63 | 28001 | 19.4489 | ug/l | 91 |
| 28) trans-1,2-Dichloroethene | 3.907 | 96 | 12196 | 15.9854 | ug/l | 71 |
| 29) Ethyl-t-butyl ether | 4.509 | 59 | 48383 | 21.6355 | ug/l | 86 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 31580 | 21.3171 | ug/l | 76 |
| 31) Bromochloromethane | 4.769 | 49 | 17350 | 23.3791 | ug/l | 66 |
| 32) 2,2-Dichloropropane | 4.628 | 77 | 23210 | 19.2339 | ug/l | 97 |
| 33) Ethyl acetate | 4.640 | 43 | 17139m | 23.5305 | ug/l | |
| 34) 1,4-Dioxane | 5.698 | 88 | 8892 | 1089.0341 | ug/l | 76 |
| 35) 1,1-Dichloropropene | 5.029 | 75 | 18573 | 18.1789 | ug/l | 94 |
| 36) Chloroform | 4.804 | 83 | 28212 | 20.1080 | ug/l | 91 |
| 38) Cyclohexane | 4.981 | 56 | 18735 | 18.9114 | ug/l | 72 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 26433 | 21.1770 | ug/l | 98 |
| 41) 2-Butanone | 4.628 | 43 | 9316m | 22.8103 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.939 | 97 | 24584 | 18.9726 | ug/l | 97 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 18194 | 16.8684 | ug/l | 94 |
| 44) Vinyl Acetate | 4.251 | 43 | 53909m | 25.5666 | ug/l | |
| 45) Bromodichloromethane | 5.769 | 83 | 22238 | 20.9614 | ug/l | 99 |
| 46) Methylcyclohexane | 5.628 | 83 | 13608 | 16.6519 | ug/l | 78 |
| 47) Dibromomethane | 5.698 | 174 | 9649 | 18.4212 | ug/l | 88 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 16939 | 21.1185 | ug/l | 94 |
| 49) Trichloroethene | 5.505 | 130 | 14762 | 17.5363 | ug/l | 89 |
| 50) Benzene | 5.152 | 78 | 52971 | 17.8698 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 37164 | 19.4964 | ug/l | 89 |
| 53) Iso-propylacetate | 5.148 | 43 | 32285 | 24.0492 | ug/l | 92 |
| 54) Methyl methacrylate | 5.656 | 41 | 13639m | 24.0225 | ug/l | |
| 55) Dibromochloromethane | 6.637 | 129 | 15266 | 18.1582 | ug/l | 90 |
| 56) 2-Chloroethylvinylether | 5.910 | 63 | 9485 | 19.8569 | ug/l | 89 |
| 57) cis-1,3-Dichloropropene | 6.007 | 75 | 21503 | 18.3364 | ug/l | 95 |
| 58) trans-1,3-Dichloropropene | 6.300 | 75 | 20133 | 18.2536 | ug/l | 91 |
| 59) Ethyl methacrylate | 6.325 | 41 | 15227m | 23.9189 | ug/l | |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 13008 | 18.3228 | ug/l | 92 |
| 61) 1,2-Dibromoethane | 6.711 | 107 | 13622 | 18.6600 | ug/l | 93 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 23754 | 19.7394 | ug/l | 98 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 15817m | 24.0806 | ug/l | |
| 64) 2-Hexanone | 6.521 | 43 | 10569m | 23.4335 | ug/l | |
| 65) Tetrachloroethene | 6.509 | 164 | 12288 | 17.5848 | ug/l | 99 |
| 67) Toluene | 6.206 | 92 | 36518 | 18.0579 | ug/l | 98 |

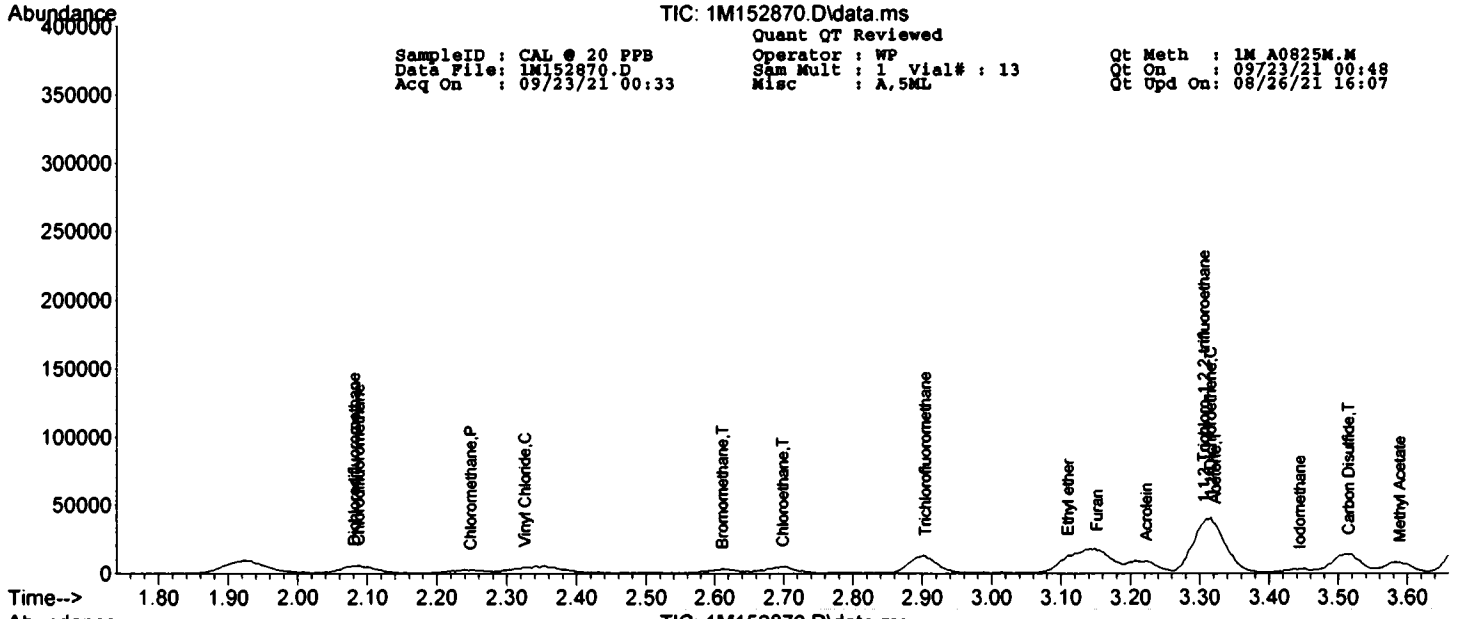
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152870.D Sam Mult : 1 Vial# : 13 Qt On : 09/23/21 00:48
Acq On : 09/23/21 00:33 Misc : A,5ML Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.010 | 133 | 14384 | 18.5196 | ug/l | 92 |
| 69) | Chlorobenzene | 6.975 | 112 | 40671 | 18.1728 | ug/l | 92 |
| 71) | n-Butyl acrylate | 7.222 | 55 | 33506 | 21.8091 | ug/l | 86 |
| 72) | n-Amyl acetate | 7.345 | 43 | 28937m | 23.9767 | ug/l | |
| 73) | Bromoform | 7.428 | 173 | 9557 | 16.4770 | ug/l | 96 |
| 74) | Ethylbenzene | 7.020 | 106 | 18600 | 17.9143 | ug/l | 95 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 18149 | 20.0803 | ug/l | 98 |
| 77) | Styrene | 7.303 | 104 | 45084 | 18.0777 | ug/l | 95 |
| 78) | m&p-Xylenes | 7.078 | 106 | 53132 | 35.8595 | ug/l | 99 |
| 79) | o-Xylene | 7.299 | 106 | 25955 | 18.0773 | ug/l | 95 |
| 80) | trans-1,4-Dichloro-2-b... | 7.672 | 53 | 6887 | 18.1924 | ug/l | 72 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 30896 | 17.6436 | ug/l | 97 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 33455 | 18.4927 | ug/l | 96 |
| 83) | 1,2-Dichlorobenzene | 8.492 | 146 | 29289 | 17.5050 | ug/l | 98 |
| 84) | Isopropylbenzene | 7.496 | 105 | 64243 | 18.3033 | ug/l | 99 |
| 85) | Cyclohexanone | 7.566 | 55 | 4621 | 130.6622 | ug/l | 89 |
| 86) | Camphene | 7.669 | 93 | 14578 | 18.4221 | ug/l | 99 |
| 87) | 1,2,3-Trichloropropane | 7.682 | 75 | 20211 | 17.3495 | ug/l | 96 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 42848 | 18.6001 | ug/l | 92 |
| 89) | p-Ethyltoluene | 7.785 | 105 | 66162 | 19.0129 | ug/l | 95 |
| 90) | 4-Chlorotoluene | 7.853 | 91 | 43771 | 18.9481 | ug/l | 94 |
| 91) | n-Propylbenzene | 7.724 | 91 | 78365 | 19.0605 | ug/l | 95 |
| 92) | Bromobenzene | 7.695 | 77 | 40879 | 20.3247 | ug/l | 85 |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 52164 | 18.2685 | ug/l | 94 |
| 94) | Butyl methacrylate | 7.817 | 41 | 24767m | 23.7570 | ug/l | |
| 95) | t-Butylbenzene | 8.010 | 119 | 47455 | 17.8918 | ug/l | 97 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 55032 | 18.5369 | ug/l | 96 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 58535 | 17.9948 | ug/l | 96 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 48550 | 17.8126 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.441 | 91 | 57412 | 19.5339 | ug/l | 94 |
| 100) | p-Diethylbenzene | 8.422 | 119 | 28545 | 18.2316 | ug/l | 96 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 35284 | 16.4421 | ug/l | 96 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.936 | 157 | 3506 | 18.6776 | ug/l | 99 |
| 103) | Camphor | 9.377 | 95 | 15329 | 172.9919 | ug/l | 97 |
| 104) | Hexachlorobutadiene | 9.518 | 225 | 7358 | 18.1149 | ug/l | 97 |
| 105) | 1,2,4-Trichlorobenzene | 9.434 | 180 | 17177 | 18.5980 | ug/l | 98 |
| 106) | 1,2,3-Trichlorobenzene | 9.737 | 180 | 14516 | 19.6834 | ug/l | 98 |
| 107) | Naphthalene | 9.592 | 128 | 40623 | 18.3265 | ug/l | 99 |

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


Abundance
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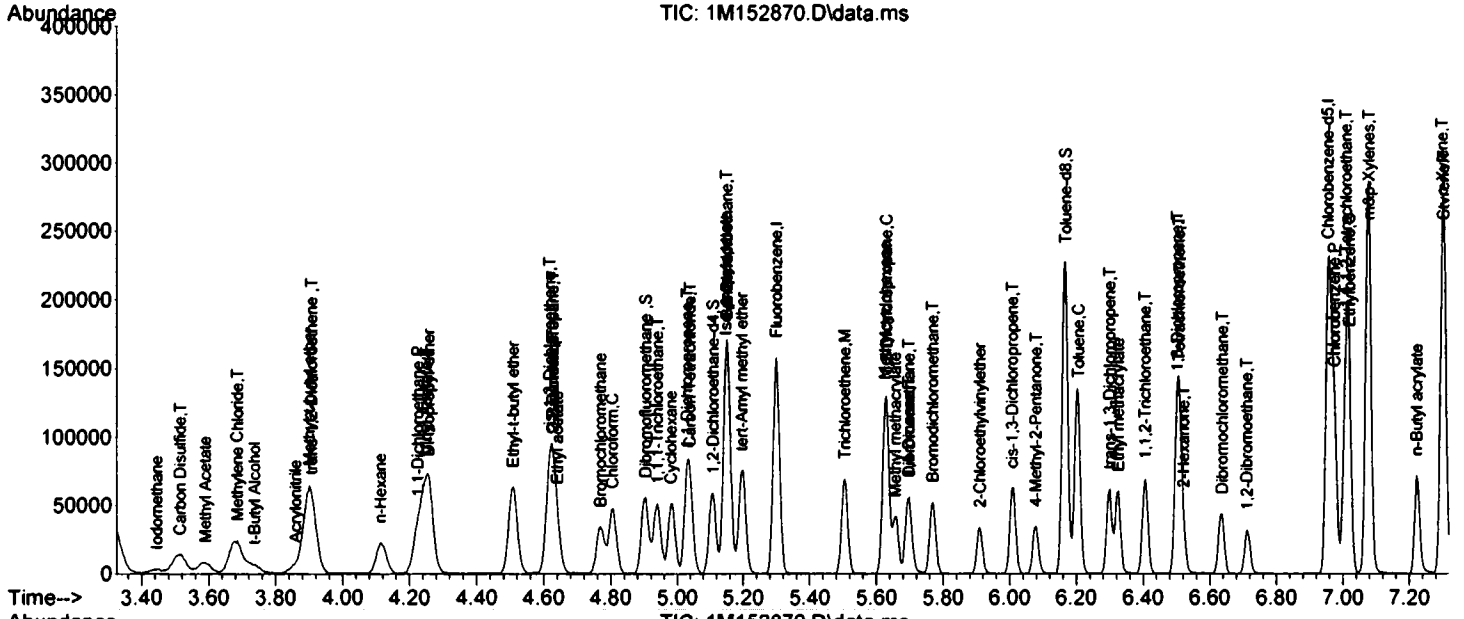
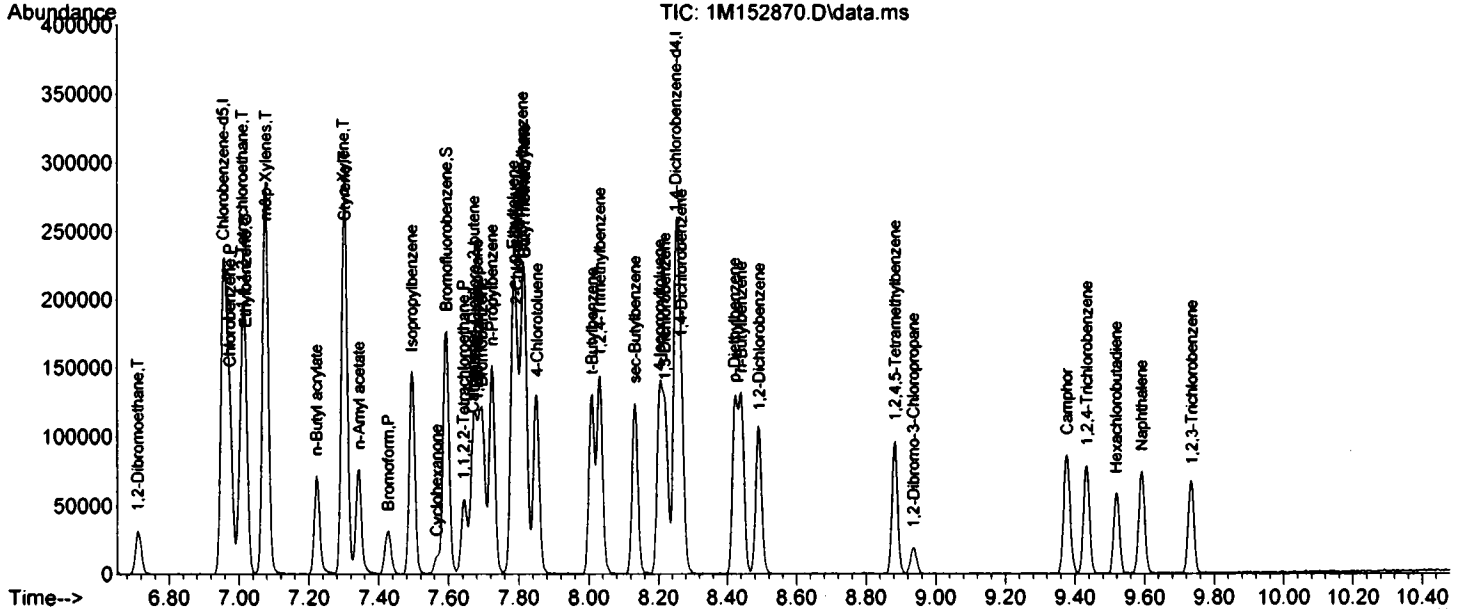
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 1M152870.D
Acq On : 09/23/21 00:33
Operator : WP
Sam Mult : 1 Vial# : 13
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 00:48
Qt Upd On: 08/26/21 16:07
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->


Abundance
TIC: 1M152870.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
Bromodichloromethane,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
Time-->


Abundance
TIC: 1M152870.D\data.ms
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
1,4-Dichlorobenzene-d4,I
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

# Form7

Continuing Calibration

**Calibration Name:** CAL @ 20 PPB **Data File:** 2M157195.D **Instrument:** GCMS 2

**Cont Calibration Date/Time** 9/23/2021 3:25:00 P Method: EPA 8260D

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fluorobenzene | 1 | 0 | I | 5.10 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| Chlorodifluoromethane | 1 | 0 | | 1.70 | 4.38 | 20 | 20 | 0.1 | 0.265 | 0.073 | 78.09 | C1 |
| Dichlorodifluoromethane | 1 | 0 | | 1.68 | 46.27 | 20 | 20 | 0.1 | 0.143 | 0.330 | 131.34 | C1 |
| Chloromethane | 1 | 0 | | 1.86 | 22.03 | 20 | 20 | 0.1 | 0.192 | 0.211 | 10.15 | |
| Bromomethane | 1 | 0 | | 2.25 | 10.71 | 20 | 20 | 0.1 | 0.136 | 0.093 | 46.44 | C1 |
| Vinyl Chloride | 1 | 0 | | 1.95 | 23.04 | 20 | 20 | 0.1 | 0.217 | 0.250 | 15.22 | |
| Chloroethane | 1 | 0 | | 2.34 | 21.27 | 20 | 20 | 0.1 | 0.149 | 0.158 | 6.33 | |
| Trichlorofluoromethane | 1 | 0 | | 2.56 | 23.92 | 20 | 20 | 0.1 | 0.375 | 0.448 | 19.62 | |
| Ethyl ether | 1 | 0 | | 2.80 | 19.57 | 20 | 20 | 0.5 | 0.152 | 0.149 | 2.16 | |
| Furan | 1 | 0 | | 2.84 | 19.01 | 20 | 20 | 0.5 | 0.304 | 0.288 | 4.97 | |
| 1,1,2-Trichloro-1,2,2-trifluoroetha | 1 | 0 | | 3.00 | 24.03 | 20 | 20 | 0.1 | 0.185 | 0.223 | 20.17 | |
| Methylene Chloride | 1 | 0 | | 3.41 | 21.02 | 20 | 20 | 0.1 | 0.225 | 0.236 | 5.11 | |
| Acrolein | 1 | 0 | | 2.92 | 93.73 | 100 | 20 | | 0.042 | 0.039 | 6.27 | |
| Acrylonitrile | 1 | 0 | | 3.62 | 18.75 | 20 | 20 | | 0.117 | 0.109 | 6.25 | |
| Iodomethane | 1 | 0 | | 3.15 | 15.98 | 20 | 20 | | 0.219 | 0.183 | 20.11 | |
| Acetone | 1 | 0 | | 3.04 | 86.61 | 100 | 20 | 0.1 | 0.090 | 0.078 | 13.39 | |
| Carbon Disulfide | 1 | 0 | | 3.21 | 18.33 | 20 | 20 | 0.1 | 0.592 | 0.542 | 8.37 | |
| t-Butyl Alcohol | 1 | 0 | | 3.48 | 77.89 | 100 | 20 | | 0.033 | 0.026 | 22.11 | C1 |
| n-Hexane | 1 | 0 | | 3.87 | 19.99 | 20 | 20 | | 0.223 | 0.222 | 0.06 | |
| Di-isopropyl-ether | 1 | 0 | | 4.03 | 19.07 | 20 | 20 | | 0.728 | 0.694 | 4.67 | |
| 1,1-Dichloroethene | 1 | 0 | | 3.01 | 18.34 | 20 | 20 | 0.1 | 0.308 | 0.282 | 8.30 | |
| Methyl Acetate | 1 | 0 | | 3.32 | 17.83 | 20 | 20 | 0.1 | 0.271 | 0.242 | 10.84 | |
| Methyl-t-butyl ether | 1 | 0 | | 3.64 | 18.97 | 20 | 20 | 0.1 | 0.639 | 0.606 | 5.16 | |
| 1,1-Dichloroethane | 1 | 0 | | 4.00 | 20.14 | 20 | 20 | 0.2 | 0.380 | 0.382 | 0.68 | |
| trans-1,2-Dichloroethene | 1 | 0 | | 3.65 | 22.44 | 20 | 20 | 0.1 | 0.222 | 0.249 | 12.20 | |
| Ethyl-t-butyl ether | 1 | 0 | | 4.29 | 18.40 | 20 | 20 | 0.5 | 0.619 | 0.569 | 8.00 | |
| cis-1,2-Dichloroethene | 1 | 0 | | 4.41 | 19.74 | 20 | 20 | 0.1 | 0.393 | 0.388 | 1.32 | |
| Bromochloromethane | 1 | 0 | | 4.57 | 20.37 | 20 | 20 | | 0.188 | 0.192 | 1.87 | |
| 2,2-Dichloropropane | 1 | 0 | | 4.42 | 18.92 | 20 | 20 | | 0.321 | 0.303 | 5.40 | |
| Ethyl acetate | 1 | 0 | | 4.44 | 18.98 | 20 | 20 | | 0.299 | 0.283 | 5.08 | |
| 1,4-Dioxane | 1 | 0 | | 5.49 | 1112.81 | 1000 | 20 | | 0.004 | 0.005 | 11.28 | |
| 1,1-Dichloropropene | 1 | 0 | | 4.82 | 20.57 | 20 | 20 | | 0.299 | 0.307 | 2.85 | |
| Chloroform | 1 | 0 | | 4.60 | 22.57 | 20 | 20 | 0.2 | 0.392 | 0.442 | 12.84 | |
| Dibromofluoromethane | 1 | 0 | S | 4.70 | 32.32 | 30 | ** | | 0.273 | 0.294 | 7.72 | |
| Cyclohexane | 1 | 0 | | 4.77 | 18.84 | 20 | 20 | 0.1 | 0.306 | 0.288 | 5.78 | |
| 1,2-Dichloroethane-d4 | 1 | 0 | S | 4.91 | 26.62 | 30 | ** | | 0.149 | 0.132 | 11.26 | |
| 1,2-Dichloroethane | 1 | 0 | | 4.95 | 19.88 | 20 | 20 | 0.1 | 0.330 | 0.328 | 0.59 | |
| 2-Butanone | 1 | 0 | | 4.41 | 17.40 | 20 | 20 | 0.1 | 0.152 | 0.132 | 13.01 | |
| 1,1,1-Trichloroethane | 1 | 0 | | 4.73 | 22.92 | 20 | 20 | 0.1 | 0.351 | 0.402 | 14.62 | |
| Carbon Tetrachloride | 1 | 0 | | 4.83 | 23.37 | 20 | 20 | 0.1 | 0.311 | 0.364 | 16.83 | |
| Vinyl Acetate | 1 | 0 | | 4.03 | 18.02 | 20 | 20 | | 0.794 | 0.715 | 9.90 | |
| Bromodichloromethane | 1 | 0 | | 5.57 | 20.61 | 20 | 20 | 0.2 | 0.308 | 0.317 | 3.03 | |
| Methylcyclohexane | 1 | 0 | | 5.42 | 22.16 | 20 | 20 | 0.1 | 0.269 | 0.298 | 10.79 | |
| Dibromomethane | 1 | 0 | | 5.50 | 29.94 | 20 | 20 | | 0.183 | 0.274 | 49.68 | C1 |
| 1,2-Dichloropropane | 1 | 0 | | 5.43 | 20.02 | 20 | 20 | 0.1 | 0.226 | 0.226 | 0.11 | |
| Trichloroethene | 1 | 0 | | 5.30 | 26.84 | 20 | 20 | 0.2 | 0.248 | 0.333 | 34.19 | C1 |
| Benzene | 1 | 0 | | 4.95 | 20.73 | 20 | 20 | 0.5 | 0.875 | 0.907 | 3.66 | |
| tert-Amyl methyl ether | 1 | 0 | | 4.99 | 18.99 | 20 | 20 | | 0.635 | 0.603 | 5.07 | |
| Chlorobenzene-d5 | 1 | 0 | I | 6.73 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| Iso-propylacetate | 1 | 0 | | 4.95 | 15.97 | 20 | 20 | 0.5 | 0.736 | 0.587 | 20.17 | |
| Methyl methacrylate | 1 | 0 | | 5.45 | 16.78 | 20 | 20 | 0.5 | 0.317 | 0.266 | 16.09 | |
| Dibromochloromethane | 1 | 0 | | 6.42 | 20.36 | 20 | 20 | 0.1 | 0.336 | 0.342 | 1.82 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

# Form7

Continuing Calibration

**Calibration Name:** CAL @ 20 PPB **Data File:** 2M157195.D **Instrument:** GCMS 2

**Cont Calibration Date/Time** 9/23/2021 3:25:00 P **Method:** EPA 8260D

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Chloroethylvinylether | 1 | 0 | | 5.71 | 14.56 | 20 | 20 | | 0.225 | 0.164 | 27.20 | C1 |
| cis-1,3-Dichloropropene | 1 | 0 | | 5.81 | 15.99 | 20 | 20 | 0.2 | 0.471 | 0.377 | 20.03 | |
| trans-1,3-Dichloropropene | 1 | 0 | | 6.09 | 16.29 | 20 | 20 | 0.1 | 0.437 | 0.356 | 18.53 | |
| Ethyl methacrylate | 1 | 0 | | 6.11 | 16.53 | 20 | 20 | 0.5 | 0.325 | 0.268 | 17.35 | |
| 1,1,2-Trichloroethane | 1 | 0 | | 6.20 | 19.38 | 20 | 20 | 0.1 | 0.287 | 0.278 | 3.09 | |
| 1,2-Dibromoethane | 1 | 0 | | 6.49 | 20.23 | 20 | 20 | 0.1 | 0.314 | 0.317 | 1.17 | |
| 1,3-Dichloropropane | 1 | 0 | | 6.29 | 17.59 | 20 | 20 | | 0.480 | 0.422 | 12.04 | |
| 4-Methyl-2-Pentanone | 1 | 0 | | 5.87 | 16.78 | 20 | 20 | 0.1 | 0.392 | 0.329 | 16.10 | |
| 2-Hexanone | 1 | 0 | | 6.31 | 16.03 | 20 | 20 | 0.1 | 0.293 | 0.235 | 19.87 | |
| Tetrachloroethene | 1 | 0 | | 6.29 | 25.81 | 20 | 20 | 0.2 | 0.268 | 0.346 | 29.07 | C1 |
| Toluene-d8 | 1 | 0 | S | 5.95 | 26.45 | 30 | ** | | 1.303 | 1.149 | 11.83 | |
| Toluene | 1 | 0 | | 5.99 | 19.31 | 20 | 20 | 0.4 | 0.746 | 0.720 | 3.46 | |
| 1,1,1,2-Tetrachloroethane | 1 | 0 | | 6.78 | 21.91 | 20 | 20 | | 0.297 | 0.325 | 9.56 | |
| Chlorobenzene | 1 | 0 | | 6.75 | 21.11 | 20 | 20 | 0.5 | 0.829 | 0.875 | 5.54 | |
| 1,4-Dichlorobenzene-d4 | 1 | 0 | I | 8.02 | 30.00 | 30 | ** | | | 0.000 | 0.00 | |
| n-Butyl acrylate | 1 | 0 | | 6.99 | 12.48 | 20 | 20 | 0.5 | 1.269 | 0.792 | 37.58 | C1 |
| n-Amyl acetate | 1 | 0 | | 7.11 | 16.73 | 20 | 20 | 0.5 | 1.246 | 1.042 | 16.33 | |
| Bromoform | 1 | 0 | | 7.20 | 17.91 | 20 | 20 | 0.1 | 0.561 | 0.502 | 10.43 | |
| Ethylbenzene | 1 | 0 | | 6.79 | 16.84 | 20 | 20 | 0.1 | 0.743 | 0.625 | 15.79 | |
| 1,1,2,2-Tetrachloroethane | 1 | 0 | | 7.42 | 15.99 | 20 | 20 | 0.1 | 0.848 | 0.678 | 20.04 | |
| Bromofluorobenzene | 1 | 0 | S | 7.37 | 32.67 | 30 | ** | | 0.912 | 0.993 | 8.90 | |
| Styrene | 1 | 0 | | 7.07 | 17.22 | 20 | 20 | 0.3 | 1.802 | 1.551 | 13.88 | |
| m&p-Xylenes | 1 | 0 | | 6.85 | 33.99 | 40 | 20 | 0.1 | 1.104 | 0.938 | 15.02 | |
| o-Xylene | 1 | 0 | | 7.07 | 17.58 | 20 | 20 | 0.3 | 1.055 | 0.928 | 12.09 | |
| trans-1,4-Dichloro-2-butene | 1 | 0 | | 7.45 | 11.79 | 20 | 20 | | 0.359 | 0.212 | 41.07 | C1 |
| 1,3-Dichlorobenzene | 1 | 0 | | 7.99 | 20.58 | 20 | 20 | 0.6 | 1.189 | 1.224 | 2.89 | |
| 1,4-Dichlorobenzene | 1 | 0 | | 8.04 | 20.53 | 20 | 20 | 0.5 | 1.217 | 1.249 | 2.64 | |
| 1,2-Dichlorobenzene | 1 | 0 | | 8.26 | 19.97 | 20 | 20 | 0.4 | 1.141 | 1.139 | 0.16 | |
| Isopropylbenzene | 1 | 0 | | 7.26 | 17.83 | 20 | 20 | 0.1 | 2.452 | 2.186 | 10.87 | |
| Cyclohexanone | 1 | 0 | | 7.34 | 69.62 | 100 | 20 | | 0.037 | 0.026 | 30.38 | C1 |
| Camphene | 1 | 0 | | 7.43 | 17.01 | 20 | 20 | | 0.597 | 0.508 | 14.93 | |
| 1,2,3-Trichloropropane | 1 | 0 | | 7.46 | 16.27 | 20 | 20 | | 1.084 | 0.882 | 18.63 | |
| 2-Chlorotoluene | 1 | 0 | | 7.56 | 16.82 | 20 | 20 | | 1.480 | 1.245 | 15.92 | |
| p-Ethyltoluene | 1 | 0 | | 7.55 | 17.82 | 20 | 20 | | 2.472 | 2.203 | 10.90 | |
| 4-Chlorotoluene | 1 | 0 | | 7.62 | 15.63 | 20 | 20 | | 1.487 | 1.162 | 21.87 | C1 |
| n-Propylbenzene | 1 | 0 | | 7.49 | 16.68 | 20 | 20 | | 2.763 | 2.304 | 16.61 | |
| Bromobenzene | 1 | 0 | | 7.46 | 15.15 | 20 | 20 | | 1.590 | 1.205 | 24.26 | C1 |
| 1,3,5-Trimethylbenzene | 1 | 0 | | 7.58 | 17.38 | 20 | 20 | | 1.732 | 1.505 | 13.08 | |
| Butyl methacrylate | 1 | 0 | | 7.59 | 13.60 | 20 | 20 | 0.5 | 0.867 | 0.590 | 32.00 | C1 |
| t-Butylbenzene | 1 | 0 | | 7.78 | 18.44 | 20 | 20 | | 1.800 | 1.660 | 7.82 | |
| 1,2,4-Trimethylbenzene | 1 | 0 | | 7.80 | 17.34 | 20 | 20 | | 1.973 | 1.711 | 13.29 | |
| sec-Butylbenzene | 1 | 0 | | 7.90 | 17.59 | 20 | 20 | | 2.120 | 1.864 | 12.07 | |
| 4-Isopropyltoluene | 1 | 0 | | 7.97 | 18.39 | 20 | 20 | | 1.778 | 1.635 | 8.04 | |
| n-Butylbenzene | 1 | 0 | | 8.21 | 16.60 | 20 | 20 | | 1.868 | 1.551 | 16.98 | |
| p-Diethylbenzene | 1 | 0 | | 8.19 | 18.02 | 20 | 20 | | 1.021 | 0.920 | 9.88 | |
| 1,2,4,5-Tetramethylbenzene | 1 | 0 | | 8.65 | 16.38 | 20 | 20 | | 1.252 | 1.026 | 18.10 | |
| 1,2-Dibromo-3-Chloropropane | 1 | 0 | | 8.71 | 17.43 | 20 | 20 | 0.05 | 0.212 | 0.185 | 12.85 | |
| Camphor | 1 | 0 | | 9.15 | 137.00 | 200 | 20 | | 0.095 | 0.065 | 31.50 | C1 |
| Hexachlorobutadiene | 1 | 0 | | 9.28 | 25.29 | 20 | 20 | | 0.291 | 0.367 | 26.45 | C1 |
| 1,2,4-Trichlorobenzene | 1 | 0 | | 9.20 | 22.46 | 20 | 20 | 0.2 | 0.588 | 0.661 | 12.30 | |
| 1,2,3-Trichlorobenzene | 1 | 0 | | 9.50 | 22.04 | 20 | 20 | | 0.528 | 0.582 | 10.20 | |
| Naphthalene | 1 | 0 | | 9.36 | 17.02 | 20 | 20 | | 1.838 | 1.564 | 14.90 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157195.D Sam Mult : 1 Vial# : 5 Qt On : 09/23/21 15:49
Acq On : 09/23/21 15:25 Misc : A,5ML Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\09-2321\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 219573 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 194965 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 110871 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 64654 | 32.32 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 107.73% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 28937 | 26.62 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 88.73% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 223920 | 26.45 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 88.17% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 110131 | 32.67 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.90% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 10710m | 4.3824 | ug/l | |
| 6) Dichlorodifluoromethane | 1.685 | 85 | 48296 | 46.2680 | ug/l | 100 |
| 7) Chloromethane | 1.862 | 50 | 30934 | 22.0294 | ug/l | 98 |
| 8) Bromomethane | 2.252 | 94 | 13546 | 10.7127 | ug/l | 94 |
| 9) Vinyl Chloride | 1.953 | 62 | 36532 | 23.0435 | ug/l | 98 |
| 10) Chloroethane | 2.337 | 64 | 23162 | 21.2661 | ug/l | 99 |
| 11) Trichlorofluoromethane | 2.563 | 101 | 65613 | 23.9242 | ug/l | 98 |
| 12) Ethyl ether | 2.800 | 59 | 21744 | 19.5685 | ug/l | 95 |
| 13) Furan | 2.837 | 39 | 42226 | 19.0059 | ug/l | 91 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.002 | 101 | 32622m | 24.0338 | ug/l | |
| 15) Methylene Chloride | 3.410 | 84 | 34610 | 21.0210 | ug/l | 94 |
| 16) Acrolein | 2.916 | 56 | 28778 | 93.7272 | ug/l | 96 |
| 17) Acrylonitrile | 3.623 | 53 | 15999 | 18.7499 | ug/l | 95 |
| 18) Iodomethane | 3.154 | 142 | 26806m | 15.9781 | ug/l | |
| 19) Acetone | 3.044 | 43 | 57094 | 86.6138 | ug/l | 95 |
| 20) Carbon Disulfide | 3.215 | 76 | 79398 | 18.3264 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.483 | 59 | 18860m | 77.8871 | ug/l | |
| 22) n-Hexane | 3.873 | 57 | 32559 | 19.9881 | ug/l | 95 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 101616 | 19.0651 | ug/l | 97 |
| 24) 1,1-Dichloroethene | 3.008 | 61 | 41302 | 18.3391 | ug/l | 96 |
| 25) Methyl Acetate | 3.319 | 43 | 35426 | 17.8314 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 88653 | 18.9674 | ug/l | 94 |
| 27) 1,1-Dichloroethane | 4.001 | 63 | 55943 | 20.1355 | ug/l | 95 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 36503 | 22.4407 | ug/l | 95 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 83351 | 18.4010 | ug/l | 99 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 56771 | 19.7366 | ug/l | 96 |
| 31) Bromochloromethane | 4.568 | 49 | 28087 | 20.3735 | ug/l | 81 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 44405 | 18.9200 | ug/l | 96 |
| 33) Ethyl acetate | 4.440 | 43 | 41484m | 18.9841 | ug/l | |
| 34) 1,4-Dioxane | 5.489 | 88 | 33095 | 1112.8075 | ug/l | 96 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 44944 | 20.5694 | ug/l | 97 |
| 36) Chloroform | 4.605 | 83 | 64754 | 22.5684 | ug/l | 98 |
| 38) Cyclohexane | 4.770 | 56 | 42204 | 18.8433 | ug/l | 98 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 47979 | 19.8824 | ug/l | 100 |
| 41) 2-Butanone | 4.410 | 43 | 19379m | 17.3976 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 58808 | 22.9234 | ug/l | 97 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 53267 | 23.3655 | ug/l | 98 |
| 44) Vinyl Acetate | 4.026 | 43 | 104724 | 18.0210 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 46425 | 20.6061 | ug/l | 98 |
| 46) Methylcyclohexane | 5.416 | 83 | 43630 | 22.1581 | ug/l | 98 |
| 47) Dibromomethane | 5.501 | 174 | 40175m | 29.9369 | ug/l | |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 33054 | 20.0216 | ug/l | 93 |
| 49) Trichloroethene | 5.300 | 130 | 48736m | 26.8387 | ug/l | |
| 50) Benzene | 4.946 | 78 | 132830 | 20.7325 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 88203 | 18.9856 | ug/l | 94 |
| 53) Iso-propylacetate | 4.946 | 43 | 76323m | 15.9662 | ug/l | |
| 54) Methyl methacrylate | 5.452 | 41 | 34615m | 16.7821 | ug/l | |
| 55) Dibromochloromethane | 6.422 | 129 | 44454 | 20.3648 | ug/l | 100 |
| 56) 2-Chloroethylvinylether | 5.708 | 63 | 21255m | 14.5599 | ug/l | |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 48976 | 15.9946 | ug/l | 98 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 46292m | 16.2941 | ug/l | |
| 59) Ethyl methacrylate | 6.111 | 41 | 34861m | 16.5295 | ug/l | |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 36154 | 19.3827 | ug/l | 96 |
| 61) 1,2-Dibromoethane | 6.495 | 107 | 41234 | 20.2334 | ug/l | 94 |
| 62) 1,3-Dichloropropane | 6.288 | 76 | 54846 | 17.5922 | ug/l | 100 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 42723m | 16.7794 | ug/l | |
| 64) 2-Hexanone | 6.306 | 43 | 30536m | 16.0269 | ug/l | |
| 65) Tetrachloroethene | 6.288 | 164 | 44920m | 25.8147 | ug/l | |
| 67) Toluene | 5.989 | 92 | 93620 | 19.3090 | ug/l | 97 |

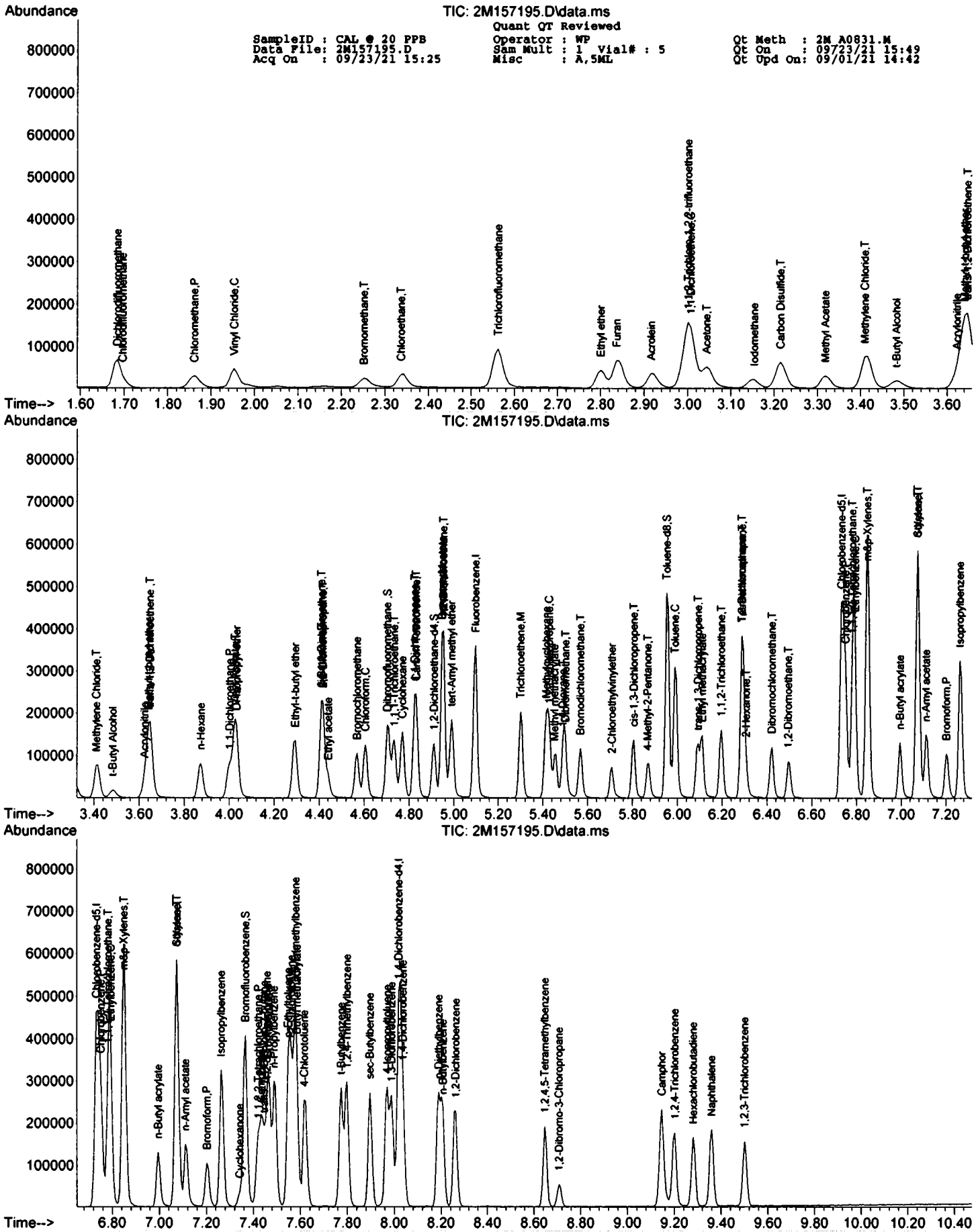
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB  Operator : WP  Qt Meth : 2M_A0831.M
Data File: 2M157195.D  Sam Mult : 1  Vial# : 5  Qt On : 09/23/21 15:49
Acq On : 09/23/21 15:25  Misc : A,5ML  Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\09-2321\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 6.781 | 133 | 42289 | 21.9128 | ug/l | 94 |
| 69) | Chlorobenzene | 6.751 | 112 | 113732 | 21.1088 | ug/l | 99 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 58568 | 12.4837 | ug/l | 97 |
| 72) | n-Amyl acetate | 7.111 | 43 | 77029m | 16.7336 | ug/l | |
| 73) | Bromoform | 7.202 | 173 | 37132 | 17.9134 | ug/l | 96 |
| 74) | Ethylbenzene | 6.794 | 106 | 46231 | 16.8427 | ug/l | 90 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.422 | 83 | 50140m | 15.9914 | ug/l | |
| 77) | Styrene | 7.074 | 104 | 114674 | 17.2236 | ug/l | 99 |
| 78) | m&p-Xylenes | 6.848 | 106 | 138693 | 33.9909 | ug/l | 97 |
| 79) | o-Xylene | 7.074 | 106 | 68574 | 17.5821 | ug/l | 92 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 15648m | 11.7869 | ug/l | |
| 81) | 1,3-Dichlorobenzene | 7.988 | 146 | 90448 | 20.5780 | ug/l | 96 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 92313 | 20.5279 | ug/l | 97 |
| 83) | 1,2-Dichlorobenzene | 8.263 | 146 | 84219 | 19.9683 | ug/l | 95 |
| 84) | Isopropylbenzene | 7.263 | 105 | 161554 | 17.8258 | ug/l | 96 |
| 85) | Cyclohexanone | 7.342 | 55 | 9572m | 69.6221 | ug/l | |
| 86) | Camphene | 7.434 | 93 | 37522 | 17.0147 | ug/l | 93 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 65196m | 16.2747 | ug/l | |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 92002 | 16.8153 | ug/l | 97 |
| 89) | p-Ethyltoluene | 7.550 | 105 | 162826 | 17.8207 | ug/l | 95 |
| 90) | 4-Chlorotoluene | 7.617 | 91 | 85888 | 15.6262 | ug/l | 93 |
| 91) | n-Propylbenzene | 7.489 | 91 | 170280 | 16.6783 | ug/l | 94 |
| 92) | Bromobenzene | 7.464 | 77 | 89030 | 15.1481 | ug/l | 80 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 111274 | 17.3846 | ug/l | 84 |
| 94) | Butyl methacrylate | 7.586 | 41 | 43603 | 13.6010 | ug/l | 86 |
| 95) | t-Butylbenzene | 7.775 | 119 | 122671 | 18.4364 | ug/l | 94 |
| 96) | 1,2,4-Trimethylbenzene | 7.799 | 105 | 126457 | 17.3414 | ug/l | 96 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 137756 | 17.5864 | ug/l | 91 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 120823 | 18.3923 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.208 | 91 | 114621 | 16.6041 | ug/l | 95 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 68020 | 18.0245 | ug/l | 93 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 75819 | 16.3801 | ug/l | 98 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 13686 | 17.4300 | ug/l | 84 |
| 103) | Camphor | 9.147 | 95 | 48134 | 136.9968 | ug/l | 96 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 27162 | 25.2894 | ug/l | 93 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 48841 | 22.4609 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 43046 | 22.0394 | ug/l | 97 |
| 107) | Naphthalene | 9.360 | 128 | 115596 | 17.0195 | ug/l | 100 |

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


Abundance
TIC: 2M157195.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 2M157195.D
Acq On : 09/23/21 15:25
Operator : WP
Sam Mult : 1 Vial# : 5
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 09/23/21 15:49
Qt Upd On: 09/01/21 14:42
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->


Abundance
TIC: 2M157195.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M157195.D\data.ms
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

# GC/MS Volatile Data
# Raw QC Data

# Form 5

**Tune Name:** BFB TUNE
**Instrument:** GCMS I
**Data File:** 1M151942.D
**Analysis Date:** 08/25/21 18:09
**Method:** EPA 8260D

**Tune Scan/Time Range:** Average of 7.563 to 7.602 min

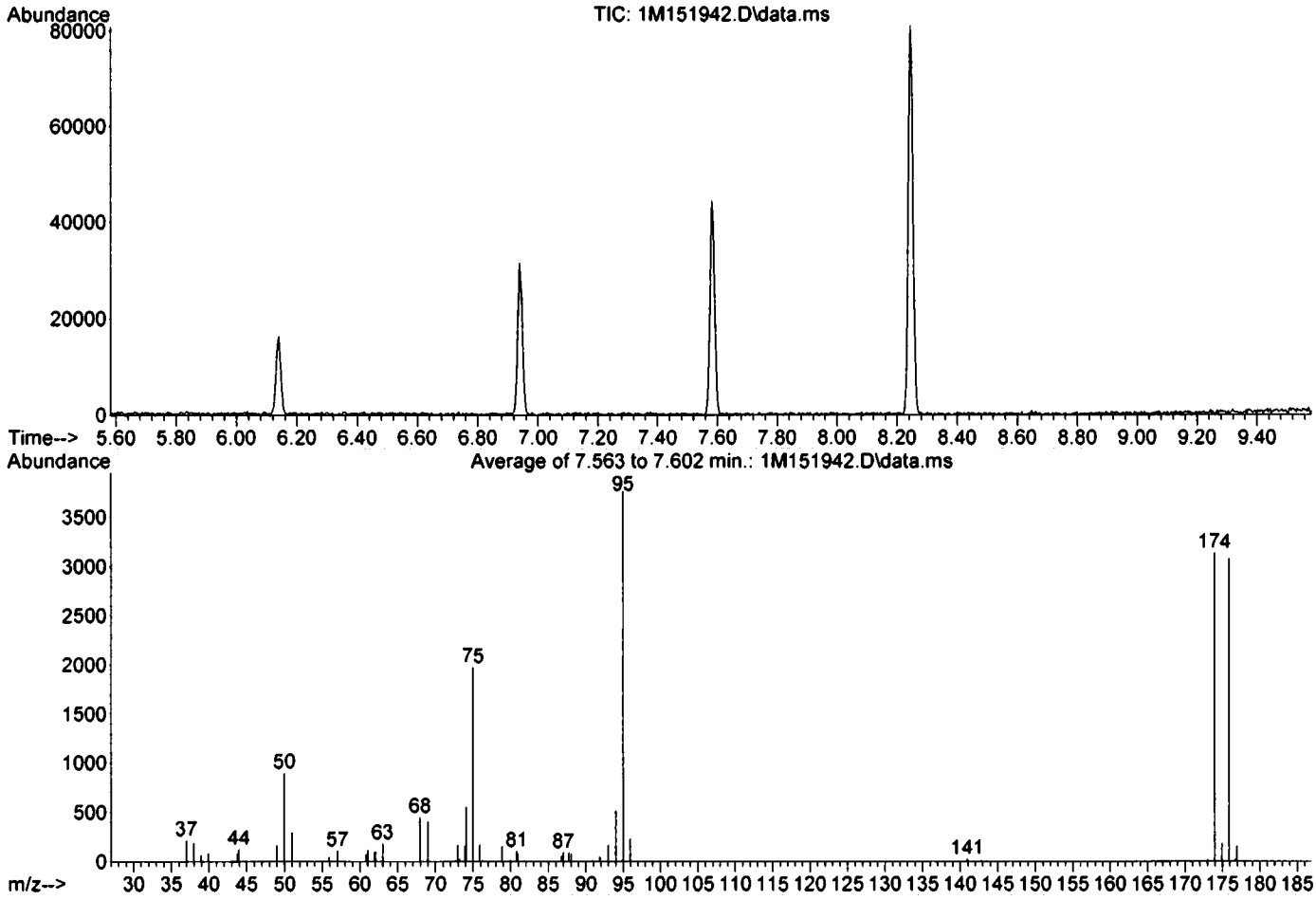
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 23.9 | 901 | PASS |
| 75 | 95 | 30 | 60 | 52.6 | 1982 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 3771 | PASS |
| 96 | 95 | 5 | 9 | 6.3 | 239 | PASS |
| 173 | 174 | 0.00 | 2 | 0.6 | 20 | PASS |
| 174 | 95 | 50 | 100 | 83.3 | 3141 | PASS |
| 175 | 174 | 5 | 9 | 6.1 | 190 | PASS |
| 176 | 174 | 95 | 101 | 98.2 | 3086 | PASS |
| 177 | 176 | 5 | 9 | 5.2 | 161 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 1M151944.D | CAL @ 0.5 PPB | 08/25/21 18:42 |
| 1M151945.D | CAL @ 1 PPB | 08/25/21 19:01 |
| 1M151946.D | CAL @ 5 PPB | 08/25/21 19:20 |
| 1M151947.D | CAL @ 10 PPB | 08/25/21 19:38 |
| 1M151948.D | CAL @ 20 PPB | 08/25/21 19:57 |
| 1M151949.D | CAL @ 50 PPB | 08/25/21 20:16 |
| 1M151950.D | CAL @500 PPB | 08/25/21 20:35 |
| 1M151952.D | CAL @ 250 PPB | 08/25/21 21:12 |
| 1M151954.D | CAL @ 100 PPB | 08/25/21 21:50 |
| 1M151960.D | STD | 08/25/21 23:43 |
| 1M151961.D | ICV | 08/26/21 00:01 |
| 1M151964.D | BLK | 08/26/21 00:58 |

Data Path : G:\GcMsData\2021\GCMS_1\Data\08-25-21\
Data File : 1M151942.D
Acq On : 25 Aug 2021 18:09
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 14 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_1\MethodQt\1M_A0805M.M
Title : @GCMS_1,ug,624,8260
Last Update : Thu Aug 05 22:14:46 2021







Spectrum Information: Average of 7.563 to 7.602 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 23.9 | 901 | PASS |
| 75 | 95 | 30 | 60 | 52.6 | 1982 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 3771 | PASS |
| 96 | 95 | 5 | 9 | 6.3 | 239 | PASS |
| 173 | 174 | 0.00 | 2 | 0.6 | 20 | PASS |
| 174 | 95 | 50 | 100 | 83.3 | 3141 | PASS |
| 175 | 174 | 5 | 9 | 6.1 | 190 | PASS |
| 176 | 174 | 95 | 101 | 98.2 | 3086 | PASS |
| 177 | 176 | 5 | 9 | 5.2 | 161 | PASS |

# Form 5

**Tune Name:** BFB TUNE
**Instrument:** GCMS 2
**Data File:** 2M156178.D
**Analysis Date:** 08/31/21 19:36
**Method:** EPA 8260D

**Tune Scan/Time Range:** Average of 7.342 to 7.379 min

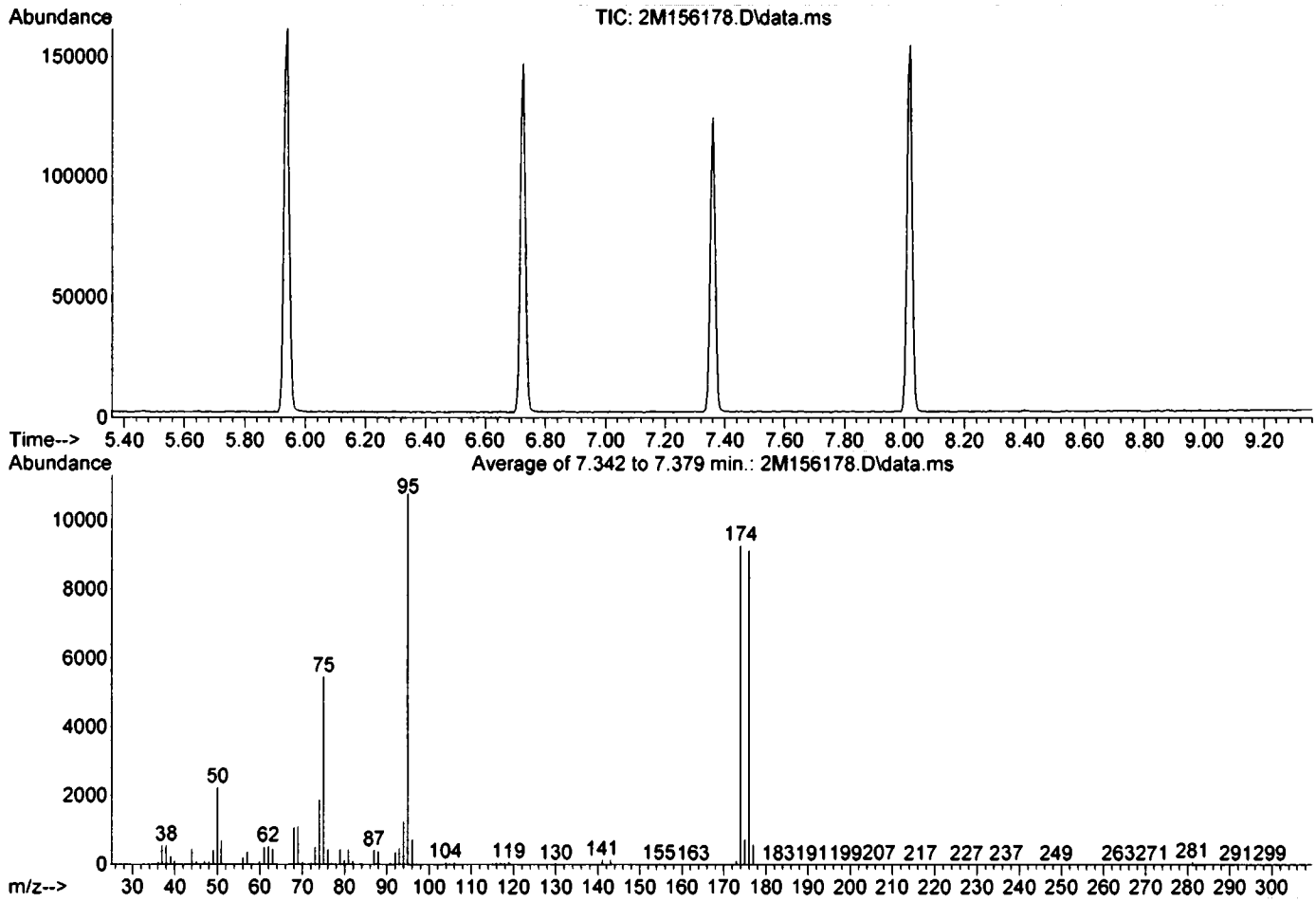
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 20.8 | 2246 | PASS |
| 75 | 95 | 30 | 60 | 50.8 | 5472 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 10778 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 720 | PASS |
| 173 | 174 | 0.00 | 2 | 1.1 | 101 | PASS |
| 174 | 95 | 50 | 100 | 86.0 | 9272 | PASS |
| 175 | 174 | 5 | 9 | 7.9 | 731 | PASS |
| 176 | 174 | 95 | 101 | 98.6 | 9138 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 587 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 2M156181.D | CAL @0.5 PPB | 08/31/21 20:31 |
| 2M156182.D | CAL @1 PPB | 08/31/21 20:51 |
| 2M156183.D | CAL @ 5 PPB | 08/31/21 21:10 |
| 2M156184.D | CAL @10 PPB | 08/31/21 21:30 |
| 2M156185.D | CAL @20 PPB | 08/31/21 21:50 |
| 2M156186.D | CAL @50 PPB | 08/31/21 22:09 |
| 2M156187.D | CAL @500 PPB | 08/31/21 22:29 |
| 2M156189.D | CAL @250 PPB | 08/31/21 23:08 |
| 2M156191.D | CAL @100 PPB | 08/31/21 23:47 |
| 2M156192.D | 250 PPB | 09/01/21 00:07 |
| 2M156196.D | STD | 09/01/21 01:25 |
| 2M156197.D | ICV | 09/01/21 01:44 |
| 2M156198.D | BLK | 09/01/21 02:04 |

Data Path : G:\GcMsData\2021\GCMS_2\Data\08-31-21\
Data File : 2M156178.D
Acq On : 31 Aug 2021 19:36
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 18 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_A0625.M
Title : @GCMS_2,ug,624,8260
Last Update : Fri Jun 25 16:49:17 2021




Spectrum Information: Average of 7.342 to 7.379 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 20.8 | 2246 | PASS |
| 75 | 95 | 30 | 60 | 50.8 | 5472 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 10778 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 720 | PASS |
| 173 | 174 | 0.00 | 2 | 1.1 | 101 | PASS |
| 174 | 95 | 50 | 100 | 86.0 | 9272 | PASS |
| 175 | 174 | 5 | 9 | 7.9 | 731 | PASS |
| 176 | 174 | 95 | 101 | 98.6 | 9138 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 587 | PASS |

# Form 5

**Tune Name:** BFB TUNE **Data File:** 1M152694.D
**Instrument:** GCMS 1 **Analysis Date:** 09/20/21 17:59
**Method:** EPA 8260D
**Tune Scan/Time Range:** Average of 7.567 to 7.602 min

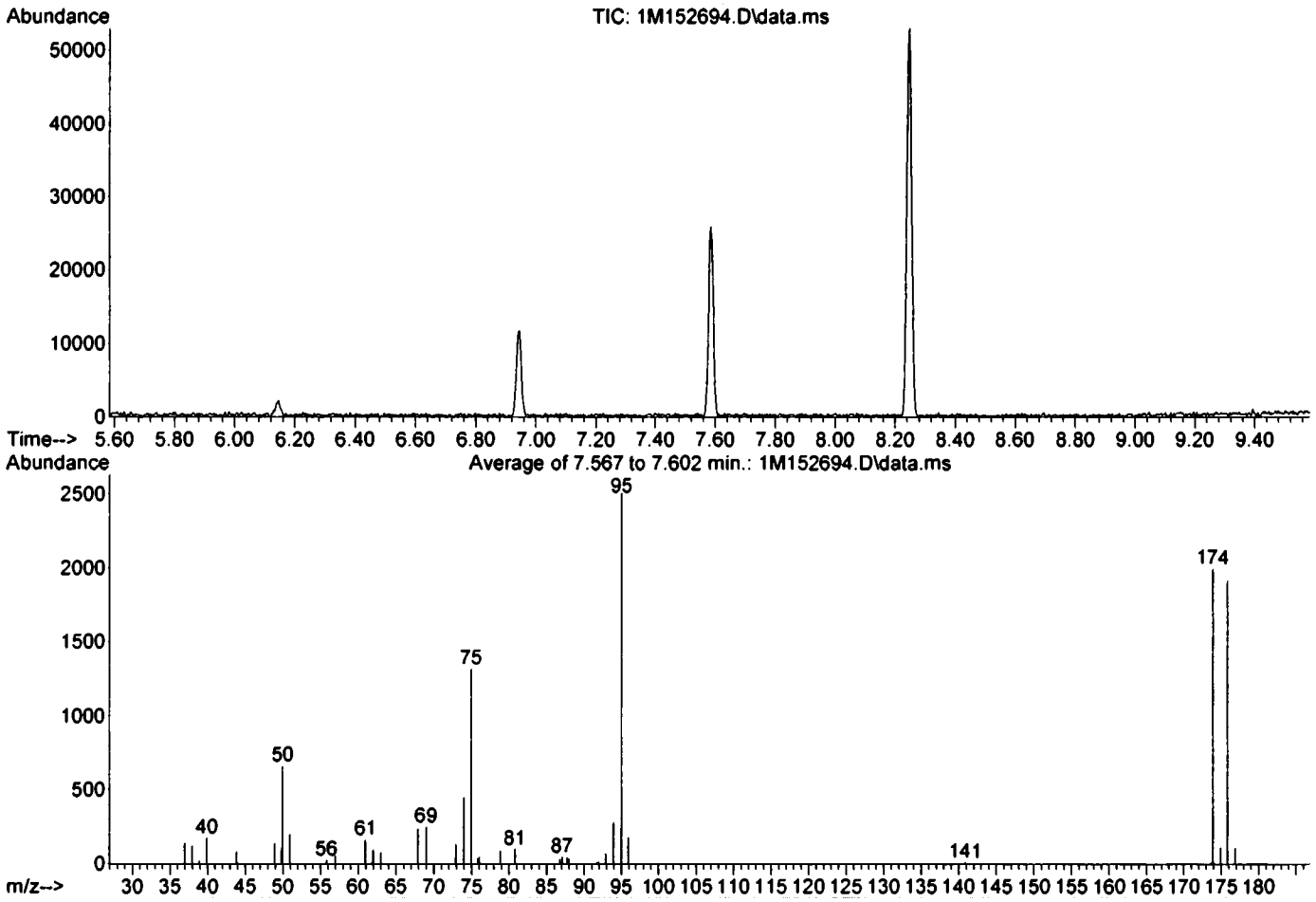
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 26.4 | 663 | PASS |
| 75 | 95 | 30 | 60 | 52.6 | 1319 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 2510 | PASS |
| 96 | 95 | 5 | 9 | 7.2 | 182 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 79.6 | 1998 | PASS |
| 175 | 174 | 5 | 9 | 5.6 | 112 | PASS |
| 176 | 174 | 95 | 101 | 96.0 | 1917 | PASS |
| 177 | 176 | 5 | 9 | 5.9 | 113 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 1M152695.D | BLK | 09/20/21 18:14 |
| 1M152696.D | CAL @ 20 PPB | 09/20/21 18:32 |
| 1M152697.D | BLK | 09/20/21 18:51 |
| 1M152698.D | BLK | 09/20/21 19:10 |
| 1M152699.D | BLK | 09/20/21 19:29 |
| 1M152700.D | DAILY BLANK | 09/20/21 19:47 |
| 1M152701.D | DAILY BLANK | 09/20/21 20:06 |
| 1M152702.D | AD26083-003 | 09/20/21 20:25 |
| 1M152703.D | AD25947-003(10X) | 09/20/21 20:44 |
| 1M152704.D | AD25947-002(10X) | 09/20/21 21:03 |
| 1M152705.D | 25889-018(T) | 09/20/21 21:21 |
| 1M152706.D | AD25947-003(100X | 09/20/21 21:40 |
| 1M152707.D | AD25947-002(100X | 09/20/21 21:59 |
| 1M152708.D | AD25889-018(T) | 09/20/21 22:18 |
| 1M152709.D | MBS96769 | 09/20/21 22:36 |
| 1M152710.D | MBS96770 | 09/20/21 22:55 |
| 1M152711.D | AD26025-002 | 09/20/21 23:14 |
| 1M152712.D | AD25991-001(80uL | 09/20/21 23:33 |
| 1M152713.D | AD26025-002(MS) | 09/20/21 23:51 |
| 1M152714.D | AD26025-002(MSD | 09/21/21 00:10 |
| 1M152715.D | BLK | 09/21/21 00:29 |
| 1M152716.D | AD26002-001 | 09/21/21 00:47 |
| 1M152717.D | AD26073-001 | 09/21/21 01:06 |
| 1M152718.D | AD26030-001 | 09/21/21 01:25 |
| 1M152719.D | AD25889-018(T:M | 09/21/21 01:43 |
| 1M152720.D | AD25889-018(T:M | 09/21/21 02:02 |
| 1M152721.D | BLK | 09/21/21 02:21 |
| 1M152722.D | BLK | 09/21/21 02:39 |
| 1M152723.D | AD26024-002 | 09/21/21 02:58 |
| 1M152724.D | AD26024-004(50X) | 09/21/21 03:17 |
| 1M152725.D | AD26024-007(5X) | 09/21/21 03:36 |
| 1M152726.D | BLK | 09/21/21 03:54 |
| 1M152727.D | AD26048-002(5X) | 09/21/21 04:13 |
| 1M152728.D | AD26048-001(20X) | 09/21/21 04:32 |
| 1M152729.D | AD26048-007(20X) | 09/21/21 04:50 |
| 1M152730.D | BLK | 09/21/21 05:09 |
| 1M152731.D | AD26024-006 | 09/21/21 05:28 |
| 1M152732.D | AD26024-005 | 09/21/21 05:47 |
| 1M152733.D | BLK | 09/21/21 06:05 |
| 1M152734.D | BLK | 09/21/21 06:24 |
| 1M152735.D | BLK | 09/21/21 06:43 |
| 1M152736.D | BLK | 09/21/21 07:02 |

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-20-21\
Data File : 1M152694.D
Acq On : 20 Sep 2021 17:59
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_1\MethodQt\1M_A0825M.M
Title : @GCMS_1,ug,624,8260
Last Update : Thu Aug 26 15:52:18 2021




Spectrum Information: Average of 7.567 to 7.602 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 26.4 | 663 | PASS |
| 75 | 95 | 30 | 60 | 52.6 | 1319 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 2510 | PASS |
| 96 | 95 | 5 | 9 | 7.2 | 182 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 79.6 | 1998 | PASS |
| 175 | 174 | 5 | 9 | 5.6 | 112 | PASS |
| 176 | 174 | 95 | 101 | 96.0 | 1917 | PASS |
| 177 | 176 | 5 | 9 | 5.9 | 113 | PASS |

# Form 5

**Tune Name:** BFB TUNE
**Instrument:** GCMS 1
**Data File:** 1M152821.D
**Analysis Date:** 09/22/21 09:33
**Method:** EPA 8260D

**Tune Scan/Time Range:** Average of 7.576 to 7.615 min

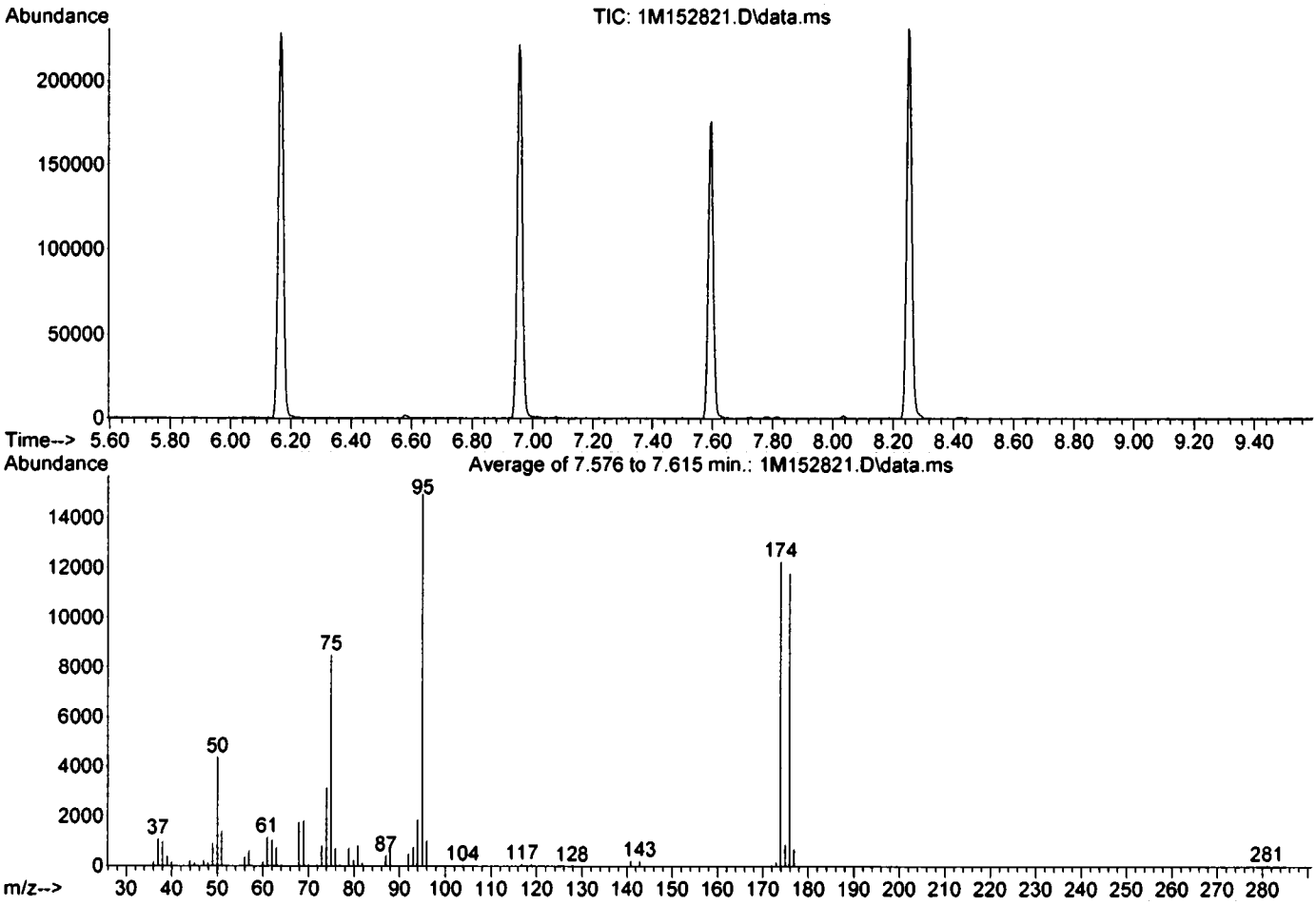
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 29.3 | 4386 | PASS |
| 75 | 95 | 30 | 60 | 56.9 | 8514 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 14957 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 1045 | PASS |
| 173 | 174 | 0.00 | 2 | 1.4 | 175 | PASS |
| 174 | 95 | 50 | 100 | 82.0 | 12272 | PASS |
| 175 | 174 | 5 | 9 | 7.2 | 878 | PASS |
| 176 | 174 | 95 | 101 | 96.1 | 11789 | PASS |
| 177 | 176 | 5 | 9 | 5.9 | 701 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 1M152822.D | 20 PPB | 09/22/21 09:51 |
| 1M152823.D | 20 PPB | 09/22/21 10:10 |
| 1M152824.D | CAL @ 20 PPB | 09/22/21 10:29 |
| 1M152825.D | BLK | 09/22/21 10:48 |
| 1M152826.D | BLK | 09/22/21 11:06 |
| 1M152827.D | BLK | 09/22/21 11:25 |
| 1M152828.D | DAILY BLANK | 09/22/21 11:44 |
| 1M152829.D | AD26083-012 | 09/22/21 12:03 |
| 1M152830.D | AD26083-014 | 09/22/21 12:22 |
| 1M152831.D | AD26083-016 | 09/22/21 12:41 |
| 1M152832.D | AD26083-018 | 09/22/21 13:00 |
| 1M152833.D | AD26083-019 | 09/22/21 13:18 |
| 1M152834.D | AD26083-021 | 09/22/21 13:37 |
| 1M152835.D | AD26083-023 | 09/22/21 13:56 |
| 1M152836.D | AD26083-026 | 09/22/21 14:15 |
| 1M152837.D | AD26083-028 | 09/22/21 14:34 |
| 1M152838.D | AD26083-030 | 09/22/21 14:53 |
| 1M152839.D | STD | 09/22/21 15:11 |
| 1M152840.D | STD | 09/22/21 15:30 |
| 1M152841.D | MBS96783 | 09/22/21 15:49 |
| 1M152842.D | MBS96784 | 09/22/21 16:07 |
| 1M152843.D | BLK | 09/22/21 16:26 |
| 1M152844.D | BLK | 09/22/21 16:45 |
| 1M152845.D | AD26046-001 | 09/22/21 17:04 |
| 1M152846.D | AD26046-002 | 09/22/21 17:23 |
| 1M152847.D | AD26162-002 | 09/22/21 17:42 |
| 1M152848.D | AD26162-003 | 09/22/21 18:01 |
| 1M152849.D | AD26162-002 | 09/22/21 18:19 |
| 1M152850.D | AD26162-001 | 09/22/21 18:38 |
| 1M152851.D | AD26046-006 | 09/22/21 18:57 |
| 1M152852.D | AD26046-007 | 09/22/21 19:16 |
| 1M152853.D | AD26083-027 | 09/22/21 19:35 |
| 1M152854.D | AD26083-040 | 09/22/21 19:54 |
| 1M152855.D | AD26083-042(MS: | 09/22/21 20:12 |
| 1M152856.D | AD26083-044(MSD | 09/22/21 20:31 |
| 1M152857.D | BLK | 09/22/21 20:50 |
| 1M152858.D | AD26047-004 | 09/22/21 21:09 |
| 1M152859.D | AD25975-002 | 09/22/21 21:27 |

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Data File : 1M152821.D
Acq On : 22 Sep 2021 09:33
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 46 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_1\MethodQt\1M_A0825M.M
Title : @GCMS_1,ug,624,8260
Last Update : Thu Aug 26 15:52:18 2021




Spectrum Information: Average of 7.576 to 7.615 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 29.3 | 4386 | PASS |
| 75 | 95 | 30 | 60 | 56.9 | 8514 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 14957 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 1045 | PASS |
| 173 | 174 | 0.00 | 2 | 1.4 | 175 | PASS |
| 174 | 95 | 50 | 100 | 82.0 | 12272 | PASS |
| 175 | 174 | 5 | 9 | 7.2 | 878 | PASS |
| 176 | 174 | 95 | 101 | 96.1 | 11789 | PASS |
| 177 | 176 | 5 | 9 | 5.9 | 701 | PASS |

# Form 5

**Tune Name:** BFB TUNE
**Instrument:** GCMS 2
**Data File:** 2M157113.D
**Analysis Date:** 09/22/21 12:56
**Method:** EPA 8260D

**Tune Scan/Time Range:** Average of 7.342 to 7.355 min

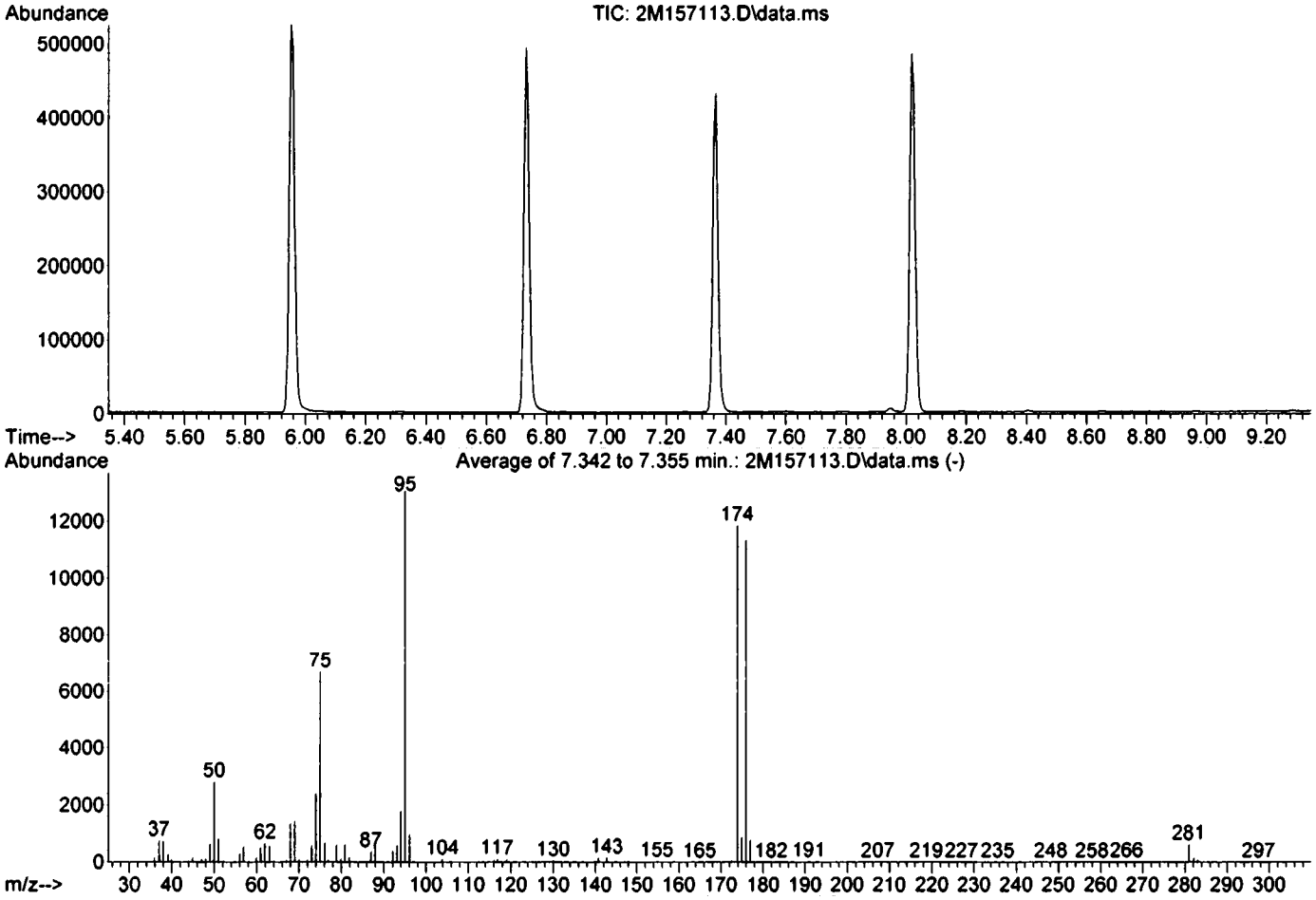
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.4 | 2804 | PASS |
| 75 | 95 | 30 | 60 | 51.3 | 6710 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 13075 | PASS |
| 96 | 95 | 5 | 9 | 7.4 | 970 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 1 | PASS |
| 174 | 95 | 50 | 100 | 90.7 | 11865 | PASS |
| 175 | 174 | 5 | 9 | 7.3 | 870 | PASS |
| 176 | 174 | 95 | 101 | 95.7 | 11357 | PASS |
| 177 | 176 | 5 | 9 | 6.9 | 780 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 2M157114.D | CAL @ 20 PPB | 09/22/21 13:16 |
| 2M157115.D | 20 PPB | 09/22/21 13:35 |
| 2M157116.D | BLK | 09/22/21 13:54 |
| 2M157117.D | BLK | 09/22/21 14:14 |
| 2M157118.D | DAILY BLANK | 09/22/21 14:34 |
| 2M157119.D | AD26083-032 | 09/22/21 14:53 |
| 2M157120.D | AD26083-035 | 09/22/21 15:13 |
| 2M157121.D | AD26083-036 | 09/22/21 15:33 |
| 2M157122.D | AD26083-038 | 09/22/21 15:52 |
| 2M157123.D | AD26083-046 | 09/22/21 16:12 |
| 2M157124.D | AD26083-048 | 09/22/21 16:32 |
| 2M157125.D | AD26083-049(MS: | 09/22/21 16:51 |
| 2M157126.D | AD26083-050(MSD | 09/22/21 17:10 |
| 2M157127.D | MBS96787 | 09/22/21 17:30 |
| 2M157128.D | MBS96788 | 09/22/21 17:49 |
| 2M157129.D | BLK | 09/22/21 18:09 |
| 2M157130.D | BLK | 09/22/21 18:28 |
| 2M157131.D | AD25995-001(50X) | 09/22/21 18:48 |
| 2M157132.D | AD25995-003(50X) | 09/22/21 19:09 |
| 2M157133.D | AD25995-005(50X) | 09/22/21 19:29 |
| 2M157134.D | AD26030-001(50X) | 09/22/21 19:49 |
| 2M157135.D | AD26063-001(T) | 09/22/21 20:08 |
| 2M157136.D | AD25995-001(50X) | 09/22/21 20:28 |
| 2M157137.D | AD25995-001(50X) | 09/22/21 20:48 |
| 2M157138.D | AD26009-002(50X) | 09/22/21 21:08 |
| 2M157139.D | AD26010-002(50X) | 09/22/21 21:28 |
| 2M157140.D | AD26052-001(50X) | 09/22/21 21:48 |
| 2M157141.D | AD26073-001(50X) | 09/22/21 22:08 |
| 2M157142.D | AD26088-001(50X) | 09/22/21 22:28 |
| 2M157143.D | AD26088-003(50X) | 09/22/21 22:48 |
| 2M157144.D | AD26089-001(50X) | 09/22/21 23:08 |
| 2M157145.D | 26151-001 | 09/22/21 23:28 |
| 2M157146.D | EF-1-V-357518(092 | 09/22/21 23:48 |
| 2M157147.D | AD26111-001(100X | 09/23/21 00:08 |
| 2M157148.D | AD26111-001(10X) | 09/23/21 00:27 |

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Data File : 2M157113.D
Acq On : 22 Sep 2021 12:56
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_A0831.M
Title : @GCMS_2,ug,624,8260
Last Update : Wed Sep 01 14:42:05 2021




Spectrum Information: Average of 7.342 to 7.355 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.4 | 2804 | PASS |
| 75 | 95 | 30 | 60 | 51.3 | 6710 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 13075 | PASS |
| 96 | 95 | 5 | 9 | 7.4 | 970 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 1 | PASS |
| 174 | 95 | 50 | 100 | 90.7 | 11865 | PASS |
| 175 | 174 | 5 | 9 | 7.3 | 870 | PASS |
| 176 | 174 | 95 | 101 | 95.7 | 11357 | PASS |
| 177 | 176 | 5 | 9 | 6.9 | 780 | PASS |

# Form 5

**Tune Name:** BFB TUNE
**Instrument:** GCMS I
**Data File:** 1M152868.D
**Analysis Date:** 09/22/21 23:59
**Method:** EPA 8260D

Tune Scan/Time Range: Average of 7.586 to 7.595 min

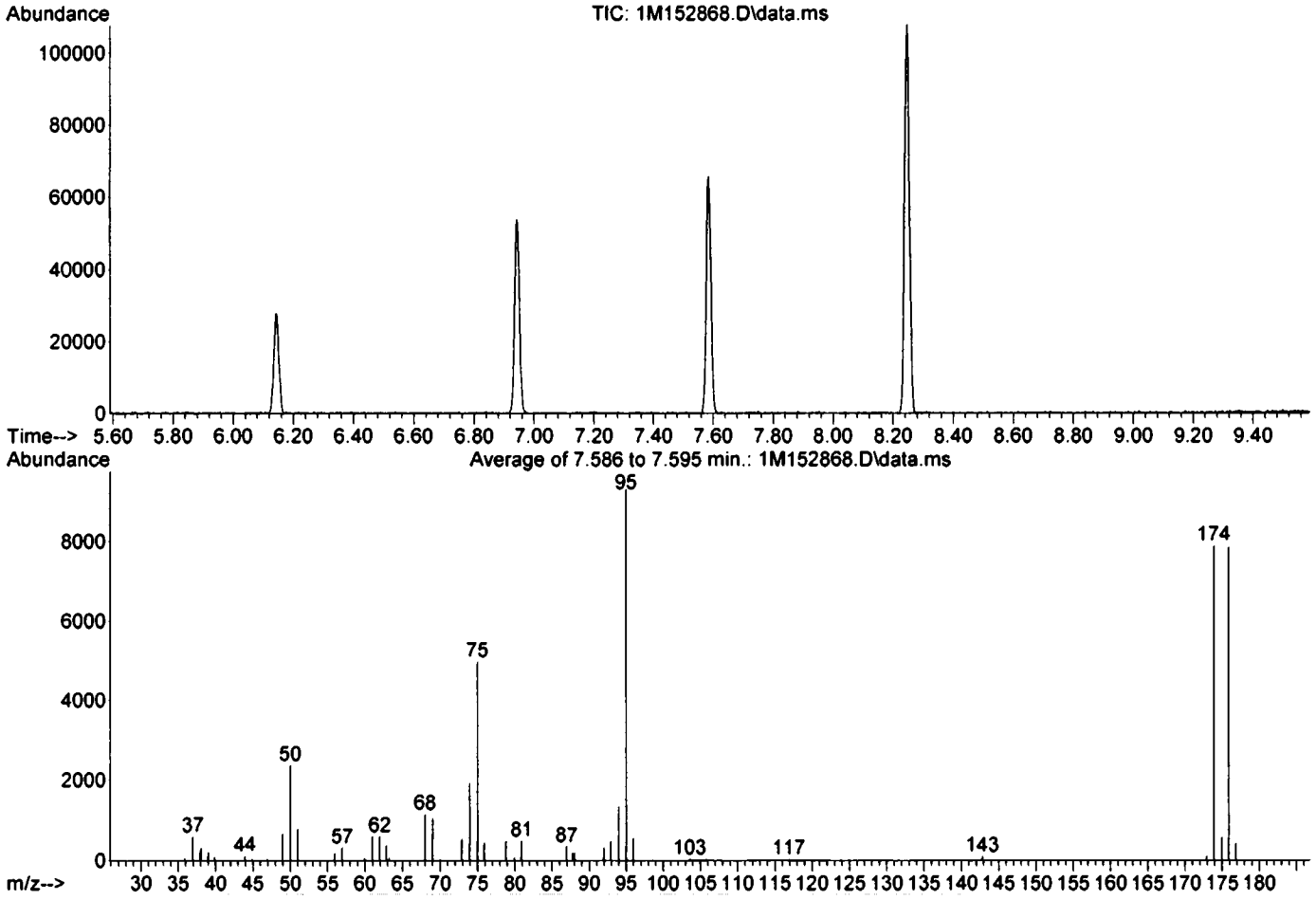
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 25.6 | 2382 | PASS |
| 75 | 95 | 30 | 60 | 53.7 | 4986 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 9288 | PASS |
| 96 | 95 | 5 | 9 | 6.0 | 558 | PASS |
| 173 | 174 | 0.00 | 2 | 1.5 | 115 | PASS |
| 174 | 95 | 50 | 100 | 85.0 | 7894 | PASS |
| 175 | 174 | 5 | 9 | 7.4 | 585 | PASS |
| 176 | 174 | 95 | 101 | 99.5 | 7858 | PASS |
| 177 | 176 | 5 | 9 | 5.4 | 425 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 1M152870.D | CAL @ 20 PPB | 09/23/21 00:33 |
| 1M152871.D | 20 PPB | 09/23/21 00:52 |
| 1M152872.D | BLK | 09/23/21 01:11 |
| 1M152873.D | BLK | 09/23/21 01:29 |
| 1M152874.D | BLK | 09/23/21 01:48 |
| 1M152875.D | DAILY BLANK | 09/23/21 02:07 |
| 1M152876.D | AD26083-008(MS) | 09/23/21 02:26 |
| 1M152877.D | AD26083-008(MSD | 09/23/21 02:44 |
| 1M152878.D | MBS96791 | 09/23/21 03:03 |
| 1M152879.D | MBS96792 | 09/23/21 03:21 |
| 1M152880.D | BLK | 09/23/21 03:40 |
| 1M152881.D | BLK | 09/23/21 03:59 |
| 1M152882.D | AD26083-033 | 09/23/21 04:18 |
| 1M152883.D | AD26083-034 | 09/23/21 04:37 |
| 1M152884.D | AD26083-051 | 09/23/21 04:56 |
| 1M152885.D | AD26083-010 | 09/23/21 05:14 |
| 1M152886.D | AD26083-005 | 09/23/21 05:33 |
| 1M152887.D | AD26083-025 | 09/23/21 05:52 |
| 1M152888.D | AD26051-012 | 09/23/21 06:11 |
| 1M152889.D | AD26051-013 | 09/23/21 06:29 |
| 1M152890.D | AD26051-014 | 09/23/21 06:48 |
| 1M152891.D | AD26083-027 | 09/23/21 07:07 |
| 1M152892.D | AD26083-040 | 09/23/21 07:26 |
| 1M152893.D | AD26083-001 | 09/23/21 07:45 |
| 1M152894.D | AD26083-002 | 09/23/21 08:04 |
| 1M152895.D | AD26083-006 | 09/23/21 08:23 |
| 1M152896.D | AD26083-008 | 09/23/21 08:41 |
| 1M152897.D | AD26083-009 | 09/23/21 09:00 |
| 1M152898.D | AD26083-011 | 09/23/21 09:19 |
| 1M152899.D | AD26046-003 | 09/23/21 09:38 |
| 1M152900.D | AD26046-004 | 09/23/21 09:57 |
| 1M152901.D | AD26046-005 | 09/23/21 10:15 |
| 1M152902.D | BLK | 09/23/21 10:34 |
| 1M152903.D | BLK | 09/23/21 10:53 |

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Data File : 1M152868.D
Acq On : 22 Sep 2021 23:59
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 11 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_1\MethodQt\1M_A0825M.M
Title : @GCMS_1,ug,624,8260
Last Update : Thu Aug 26 15:52:18 2021




Spectrum Information: Average of 7.586 to 7.595 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 25.6 | 2382 | PASS |
| 75 | 95 | 30 | 60 | 53.7 | 4986 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 9288 | PASS |
| 96 | 95 | 5 | 9 | 6.0 | 558 | PASS |
| 173 | 174 | 0.00 | 2 | 1.5 | 115 | PASS |
| 174 | 95 | 50 | 100 | 85.0 | 7894 | PASS |
| 175 | 174 | 5 | 9 | 7.4 | 585 | PASS |
| 176 | 174 | 95 | 101 | 99.5 | 7858 | PASS |
| 177 | 176 | 5 | 9 | 5.4 | 425 | PASS |

# Form 5

**Tune Name:** BFB TUNE
**Instrument:** GCMS 2
**Data File:** 2M157193.D
**Analysis Date:** 09/23/21 14:51
**Method:** EPA 8260D

**Tune Scan/Time Range:** Average of 7.342 to 7.348 min

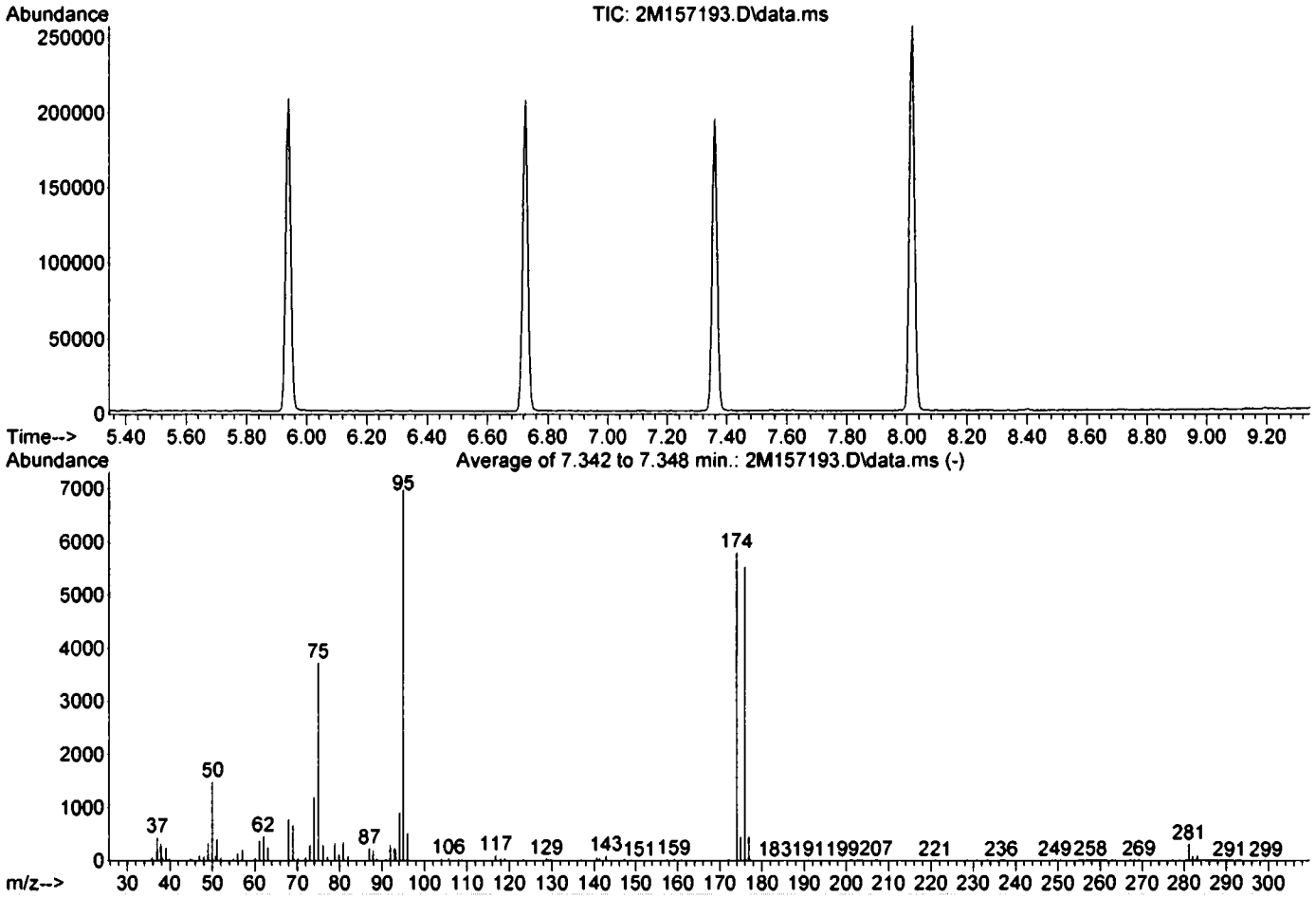
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.4 | 1491 | PASS |
| 75 | 95 | 30 | 60 | 53.5 | 3733 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 6974 | PASS |
| 96 | 95 | 5 | 9 | 7.6 | 530 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 83.2 | 5804 | PASS |
| 175 | 174 | 5 | 9 | 7.8 | 451 | PASS |
| 176 | 174 | 95 | 101 | 95.3 | 5532 | PASS |
| 177 | 176 | 5 | 9 | 8.3 | 459 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 2M157195.D | CAL @ 20 PPB | 09/23/21 15:25 |
| 2M157196.D | 20 PPB | 09/23/21 15:45 |
| 2M157198.D | BLK | 09/23/21 16:24 |
| 2M157199.D | DAILY BLANK | 09/23/21 16:43 |
| 2M157200.D | DAILY BLANK | 09/23/21 17:03 |
| 2M157202.D | AD26047-005(5X) | 09/23/21 17:42 |
| 2M157203.D | MBS96794 | 09/23/21 18:02 |
| 2M157204.D | MBS96795 | 09/23/21 18:21 |
| 2M157205.D | AD26002-005 | 09/23/21 18:41 |
| 2M157206.D | AD26083-010 | 09/23/21 19:00 |
| 2M157207.D | AD26151-001 | 09/23/21 19:20 |
| 2M157208.D | AD26152-001 | 09/23/21 19:39 |
| 2M157209.D | AD26170-001(5X) | 09/23/21 19:59 |
| 2M157210.D | AD26002-005(MS) | 09/23/21 20:19 |
| 2M157211.D | AD26120-001 | 09/23/21 20:38 |
| 2M157212.D | AD26002-005(MSD | 09/23/21 20:58 |
| 2M157213.D | BLK | 09/23/21 21:18 |
| 2M157214.D | BLK | 09/23/21 21:37 |
| 2M157215.D | AD26005-005 | 09/23/21 21:57 |
| 2M157216.D | AD26078-001 | 09/23/21 22:16 |
| 2M157217.D | AD26051-005 | 09/23/21 22:36 |
| 2M157218.D | AD26100-007 | 09/23/21 22:55 |
| 2M157219.D | AD26051-010 | 09/23/21 23:15 |
| 2M157220.D | AD26100-006(10X) | 09/23/21 23:34 |
| 2M157221.D | AD26051-011(5X) | 09/23/21 23:54 |
| 2M157222.D | AD26051-009 | 09/24/21 00:14 |
| 2M157223.D | AD26051-006 | 09/24/21 00:33 |
| 2M157224.D | BLK | 09/24/21 00:53 |
| 2M157225.D | AD26121-001 | 09/24/21 01:12 |
| 2M157226.D | AD26121-002 | 09/24/21 01:32 |
| 2M157227.D | AD26121-003 | 09/24/21 01:52 |
| 2M157228.D | AD26121-004 | 09/24/21 02:11 |
| 2M157229.D | AD26121-005 | 09/24/21 02:31 |
| 2M157230.D | AD26121-006 | 09/24/21 02:50 |
| 2M157231.D | STD | 09/24/21 03:10 |
| 2M157232.D | BLK | 09/24/21 03:29 |
| 2M157233.D | BLK | 09/24/21 03:49 |
| 2M157234.D | BLK | 09/24/21 04:09 |
| 2M157235.D | BLK | 09/24/21 04:28 |
| 2M157236.D | BLK | 09/24/21 04:48 |
| 2M157237.D | BLK | 09/24/21 05:07 |
| 2M157238.D | BLK | 09/24/21 05:27 |
| 2M157239.D | STD | 09/24/21 05:46 |
| 2M157240.D | STD | 09/24/21 06:05 |
| 2M157241.D | BLK | 09/24/21 06:25 |
| 2M157242.D | BLK | 09/24/21 06:45 |

Data Path : G:\GcMsData\2021\GCMS_2\Data\09-2321\
Data File : 2M157193.D
Acq On : 23 Sep 2021 14:51
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2021\GCMS_2\MethodQt\2M_A0831.M
Title : @GCMS_2,ug,624,8260
Last Update : Wed Sep 01 14:42:05 2021




Spectrum Information: Average of 7.342 to 7.348 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.4 | 1491 | PASS |
| 75 | 95 | 30 | 60 | 53.5 | 3733 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 6974 | PASS |
| 96 | 95 | 5 | 9 | 7.6 | 530 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 83.2 | 5804 | PASS |
| 175 | 174 | 5 | 9 | 7.8 | 451 | PASS |
| 176 | 174 | 95 | 101 | 95.3 | 5532 | PASS |
| 177 | 176 | 5 | 9 | 8.3 | 459 | PASS |

# Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 1M152700.D
Analysis Date: 09/20/21 19:47
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |

Worksheet #: 610717

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

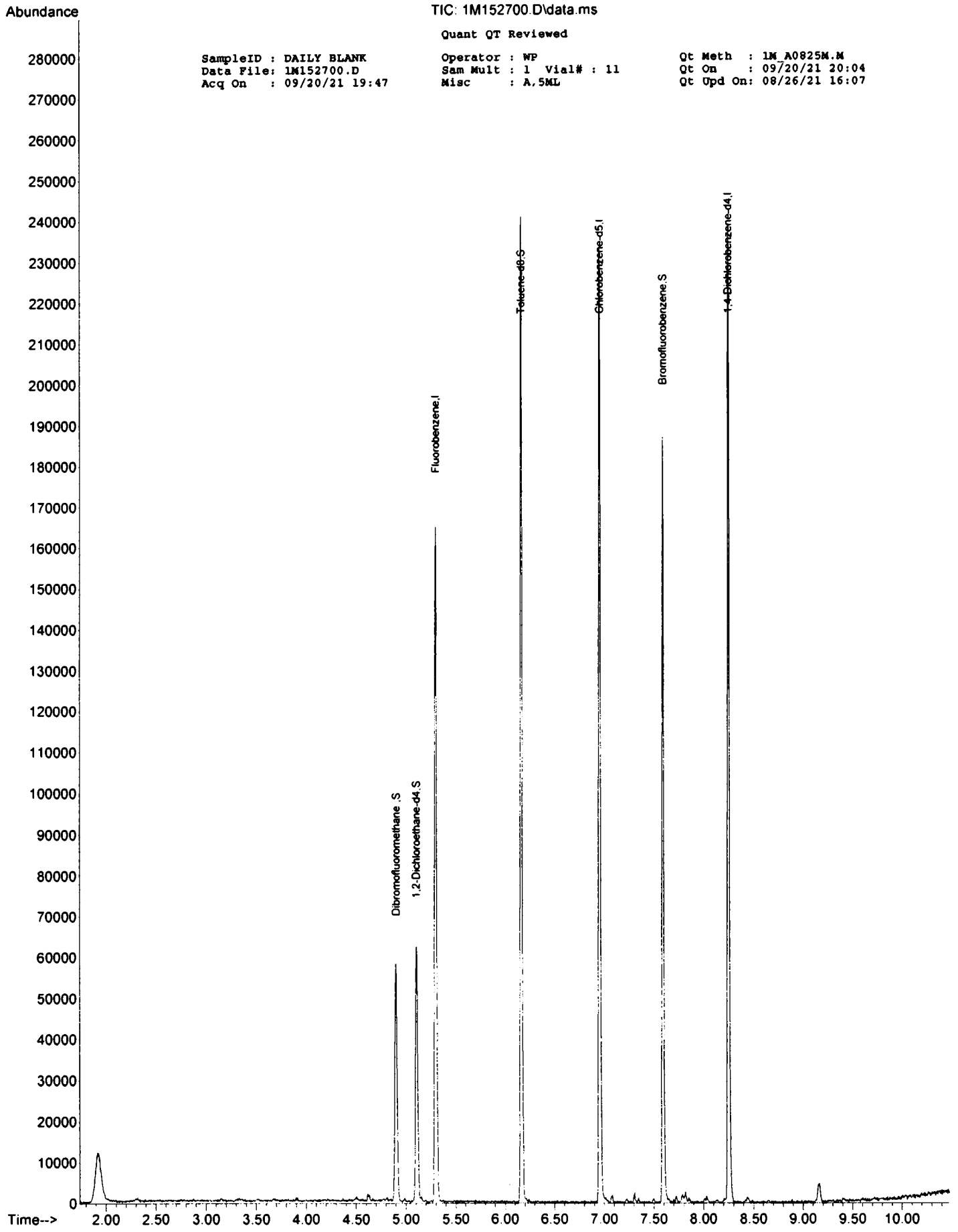
*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : DAILY BLANK Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152700.D Sam Mult : 1 Vial# : 11 Qt On : 09/20/21 20:04
Acq On : 09/20/21 19:47 Misc : A,5ML Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-20-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 98990 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 81936 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 43990 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.904 | 111 | 26878 | 31.06 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.53% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 16196 | 34.43 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 114.77% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 99742 | 28.60 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.33% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 33445 | 29.32 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.73% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152700.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 1M152700.D
Acq On : 09/20/21 19:47
Operator : WP
Sam Mult : 1 Vial# : 11
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 09/20/21 20:04
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 1M152828.D
Analysis Date: 09/22/21 11:44
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |

Worksheet #: 610717

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

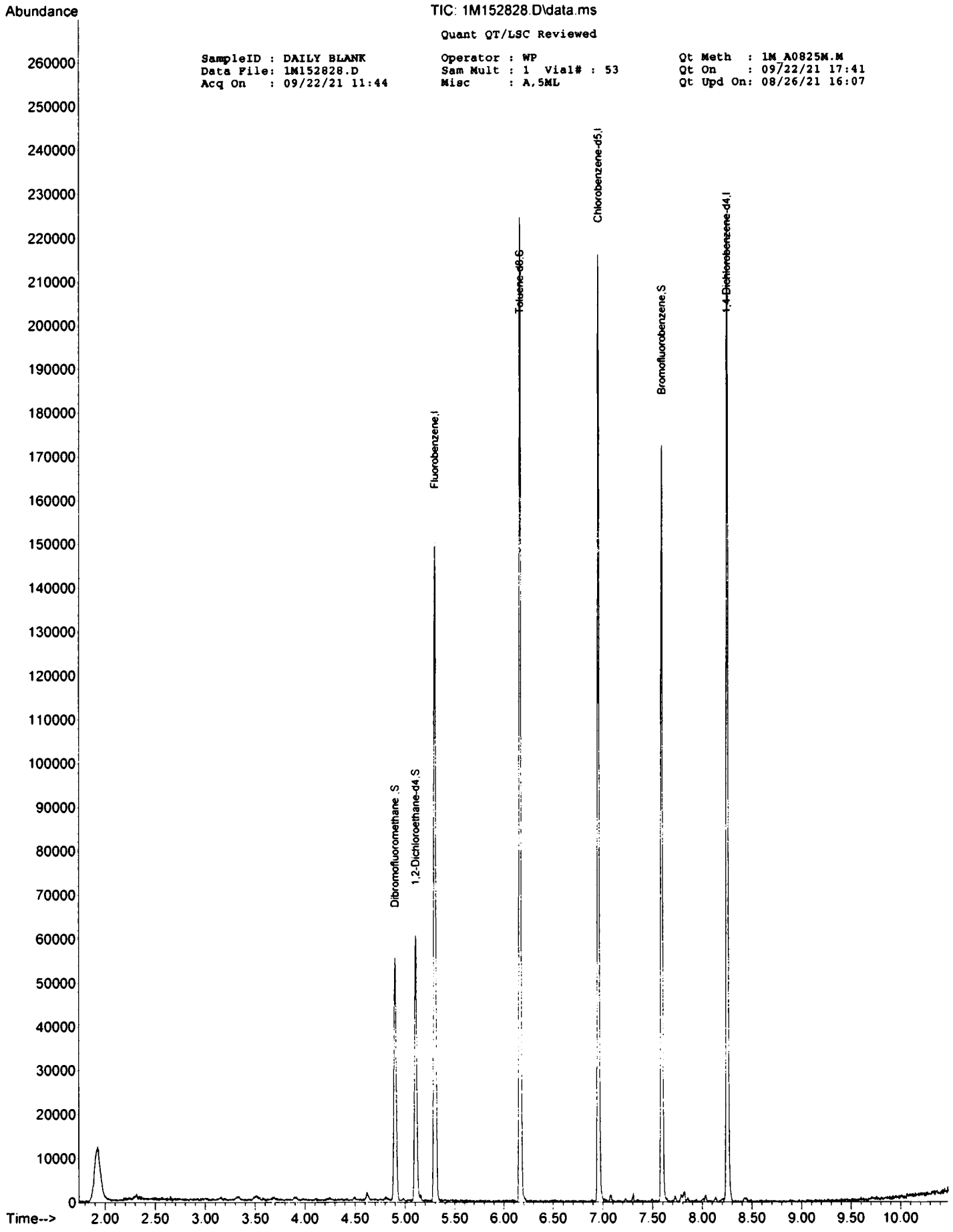
*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : DAILY BLANK Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152828.D Sam Mult : 1 Vial# : 53 Qt On : 09/22/21 17:41
Acq On : 09/22/21 11:44 Misc : A,5ML Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 90195 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 74520 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 39382 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 25591 | 32.46 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.20% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 15523 | 36.21 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 120.70% | | | |
| 66) Toluene-d8 | 6.164 | 98 | 92317 | 29.11 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.03% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 30889 | 30.25 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 100.83% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152828.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 1M152828.D
Acq On : 09/22/21 11:44
Operator : WP
Sam Mult : 1 Vial# : 53
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:41
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 1M152875.D
Analysis Date: 09/23/21 02:07
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |

Worksheet #: 610717

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

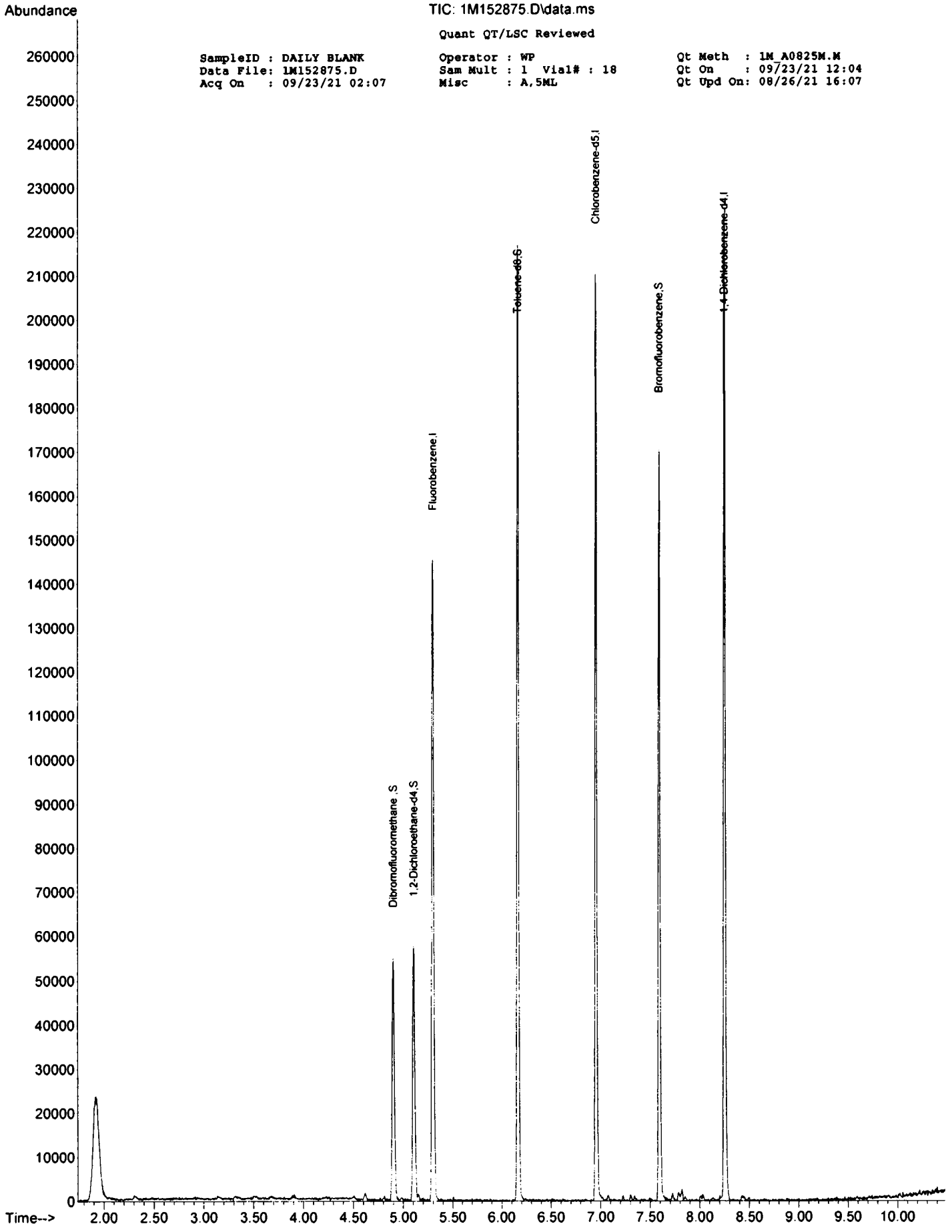
*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : DAILY BLANK Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152875.D Sam Mult : 1 Vial# : 18 Qt On : 09/23/21 12:04
Acq On : 09/23/21 02:07 Misc : A,5ML Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 88271 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 73425 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 40304 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 25128 | 32.56 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.53% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 15079 | 35.95 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 119.83% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 90624 | 29.00 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.67% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 30359 | 29.05 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.83% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152875.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 1M152875.D
Acq On : 09/23/21 02:07
Operator : WP
Sam Mult : 1 Vial# : 18
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:04
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8-6
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M157118.D
Analysis Date: 09/22/21 14:34
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |

Worksheet #: 610717

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

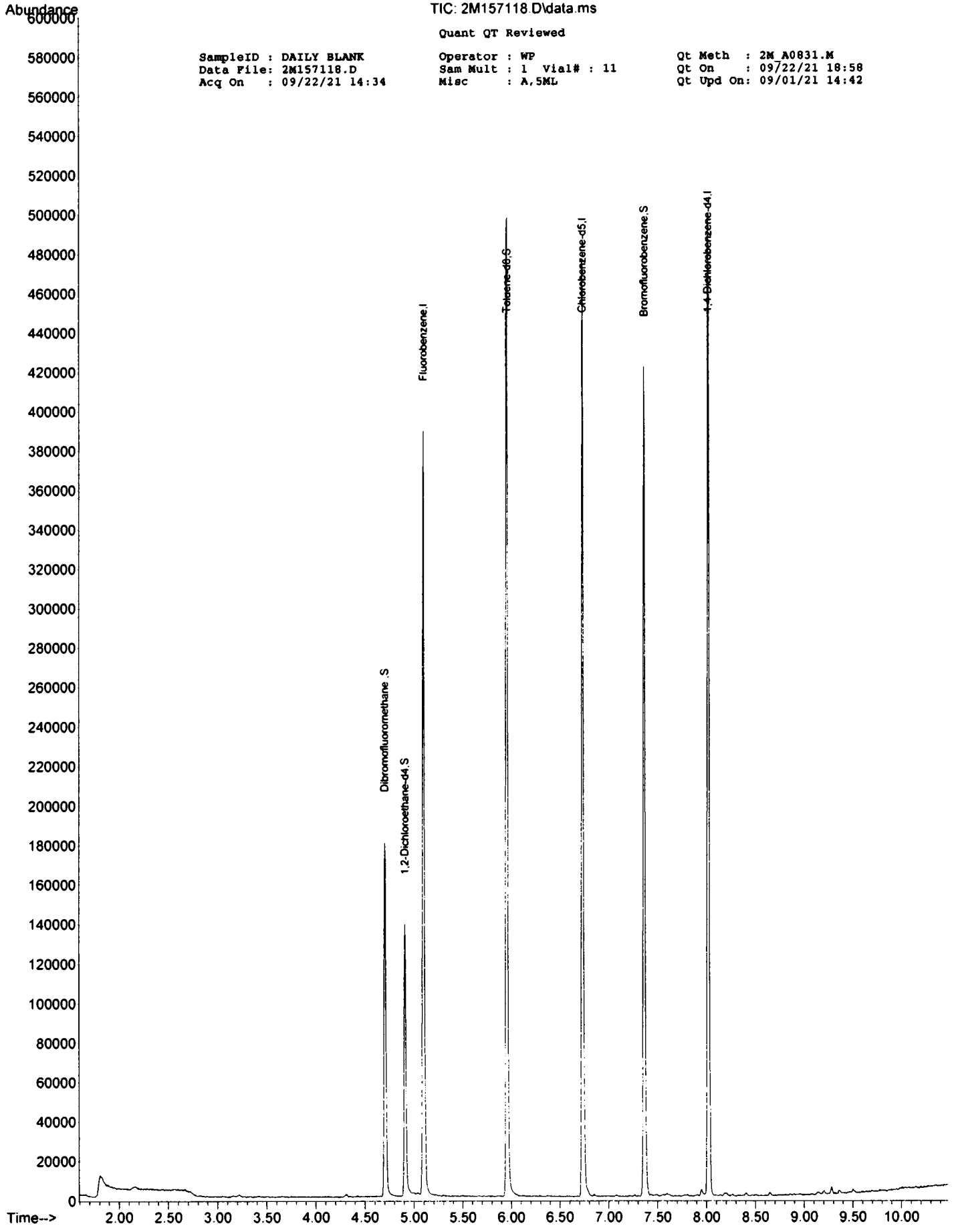
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157118.D Sam Mult : 1 Vial# : 11 Qt On : 09/22/21 18:58
Acq On : 09/22/21 14:34 Misc : A,5ML Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 237559 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 212880 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 115364 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 70507 | 32.57 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.57% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 31080 | 26.43 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 88.10% | | | |
| 66) Toluene-d8 | 5.958 | 98 | 241368 | 26.11 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 87.03% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 111440 | 31.77 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 105.90% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 2M157118.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 2M157118.D
Acq On : 09/22/21 14:34
Operator : WP
Sam Mult : 1 Vial# : 11
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:58
Qt Upd On: 09/01/21 14:42
Dibromofluoromethane .S
1,2-Dichloroethane-d4.S
Fluorobenzene.I
Toluene-d8.S
Chlorobenzene-d5.I
Bromofluorobenzene.S
1,4-Dichlorobenzene-d4.I
Time-->

# Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M157199.D
Analysis Date: 09/23/21 16:43
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | U | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |

Worksheet #: 610717

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK
Data File: 2M157199.D
Acq On : 09/23/21 16:43

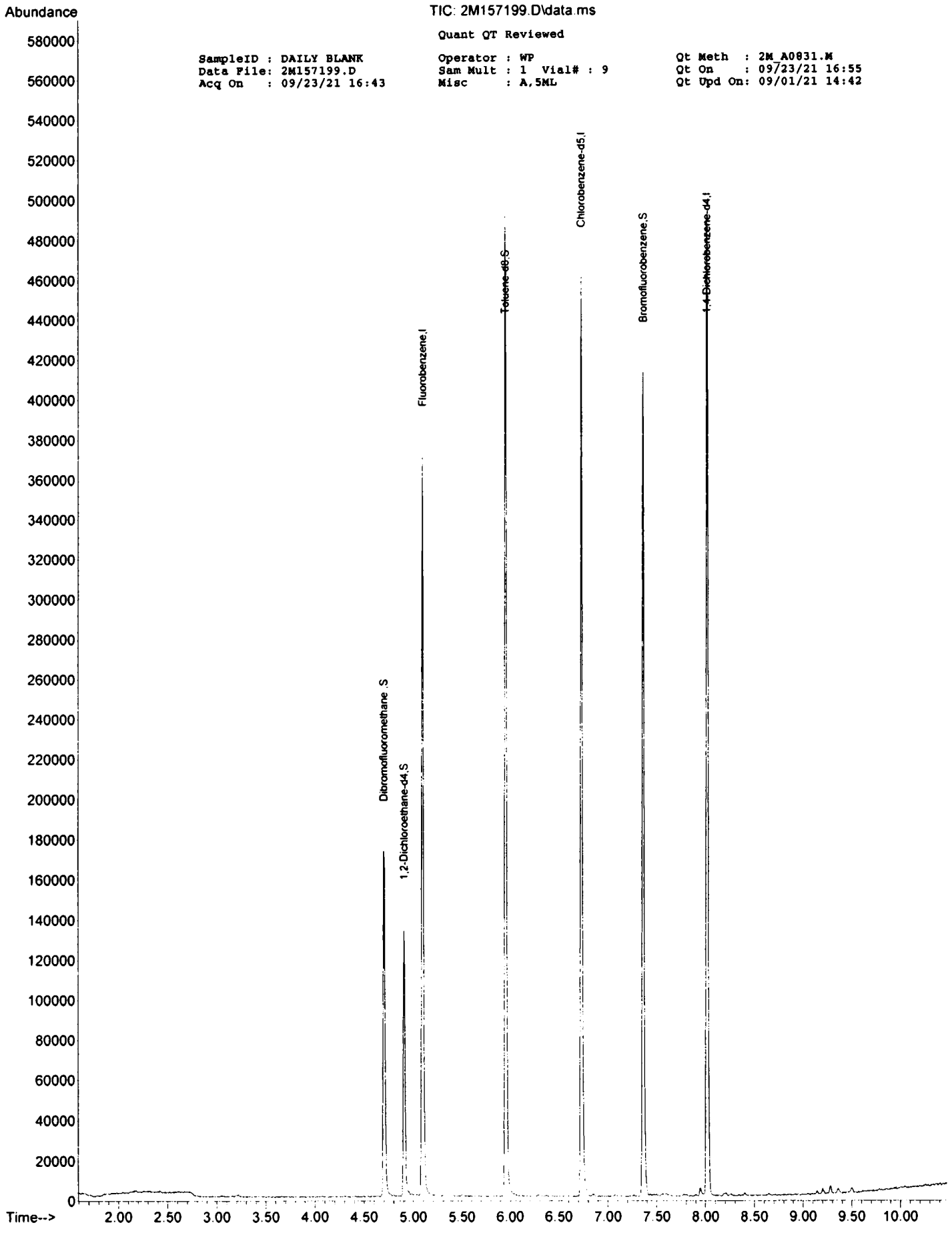
Operator : WP
Sam Mult : 1 Vial# : 9
Misc : A,5ML

Qt Meth : 2M_A0831.M
Qt On : 09/23/21 16:55
Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\09-2321\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.098 | 96 | 225675 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.732 | 117 | 207477 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 116938 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 66962 | 32.56 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.53% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 30232 | 27.06 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 90.20% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 232930 | 25.86 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 86.20% | | | |
| 76) Bromofluorobenzene | 7.366 | 174 | 111301 | 31.30 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 104.33% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 2M157199.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 2M157199.D
Acq On : 09/23/21 16:43
Operator : WP
Sam Mult : 1 Vial# : 9
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 09/23/21 16:55
Qt Upd On: 09/01/21 14:42
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96749

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 2M156847.D | MBS96749 | 9/16/2021 10:55:00 AM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 16.5147 | 0 | 20 | 83 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 7.2831 | 0 | 20 | 36* | 50 | 150 |
| **Chloromethane** | 1 | 12.754 | 0 | 20 | 64 | 50 | 150 |
| **Bromomethane** | 1 | 12.2825 | 0 | 20 | 61 | 50 | 150 |
| **Vinyl Chloride** | 1 | 14.1383 | 0 | 20 | 71 | 50 | 150 |
| **Chloroethane** | 1 | 17.8737 | 0 | 20 | 89 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 19.9609 | 0 | 20 | 100 | 50 | 150 |
| Ethyl ether | 1 | 15.1261 | 0 | 20 | 76 | 50 | 150 |
| Furan | 1 | 16.5633 | 0 | 20 | 83 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 14.7651 | 0 | 20 | 74 | 50 | 150 |
| **Methylene Chloride** | 1 | 16.7004 | 0 | 20 | 84 | 70 | 130 |
| Acrolein | 1 | 48.1484 | 0 | 100 | 48* | 50 | 150 |
| Acrylonitrile | 1 | 15.7757 | 0 | 20 | 79 | 50 | 150 |
| Iodomethane | 1 | 13.0041 | 0 | 20 | 65 | 50 | 150 |
| **Acetone** | 1 | 86.9931 | 0 | 100 | 87 | 50 | 150 |
| **Carbon Disulfide** | 1 | 10.6019 | 0 | 20 | 53 | 50 | 150 |
| t-Butyl Alcohol | 1 | 78.2485 | 0 | 100 | 78 | 50 | 150 |
| n-Hexane | 1 | 12.7308 | 0 | 20 | 64* | 70 | 130 |
| Di-isopropyl-ether | 1 | 16.5485 | 0 | 20 | 83 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 17.705 | 0 | 20 | 89 | 70 | 130 |
| **Methyl Acetate** | 1 | 22.9075 | 0 | 20 | 115 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 15.0026 | 0 | 20 | 75 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 17.227 | 0 | 20 | 86 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 16.8494 | 0 | 20 | 84 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 16.3394 | 0 | 20 | 82 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 16.8489 | 0 | 20 | 84 | 70 | 130 |
| **Bromochloromethane** | 1 | 18.6426 | 0 | 20 | 93 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 12.1232 | 0 | 20 | 61* | 70 | 130 |
| Ethyl acetate | 1 | 14.4072 | 0 | 20 | 72 | 50 | 150 |
| **1,4-Dioxane** | 1 | 985.4616 | 0 | 1000 | 99 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 18.1729 | 0 | 20 | 91 | 70 | 130 |
| **Chloroform** | 1 | 18.5125 | 0 | 20 | 93 | 70 | 130 |
| **Cyclohexane** | 1 | 15.9135 | 0 | 20 | 80 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 17.7332 | 0 | 20 | 89 | 70 | 130 |
| **2-Butanone** | 1 | 15.8221 | 0 | 20 | 79 | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 17.9582 | 0 | 20 | 90 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 16.7453 | 0 | 20 | 84 | 50 | 150 |
| Vinyl Acetate | 1 | 10.6925 | 0 | 20 | 53 | 50 | 150 |
| **Bromodichloromethane** | 1 | 16.3762 | 0 | 20 | 82 | 70 | 130 |
| **Methylcyclohexane** | 1 | 16.8088 | 0 | 20 | 84 | 70 | 130 |
| Dibromomethane | 1 | 18.8222 | 0 | 20 | 94 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 17.5083 | 0 | 20 | 88 | 70 | 130 |
| **Trichloroethene** | 1 | 18.9945 | 0 | 20 | 95 | 70 | 130 |
| **Benzene** | 1 | 17.4218 | 0 | 20 | 87 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 15.5317 | 0 | 20 | 78 | 70 | 130 |
| Iso-propylacetate | 1 | 13.1436 | 0 | 20 | 66* | 70 | 130 |
| Methyl methacrylate | 1 | 17.7945 | 0 | 20 | 89 | 70 | 130 |
| **Dibromochloromethane** | 1 | 14.4794 | 0 | 20 | 72 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 13.1405 | 0 | 20 | 66* | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 13.2972 | 0 | 20 | 66* | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 13.1908 | 0 | 20 | 66* | 70 | 130 |
| Ethyl methacrylate | 1 | 13.0084 | 0 | 20 | 65* | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 15.8146 | 0 | 20 | 79 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 15.6086 | 0 | 20 | 78 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 16.0368 | 0 | 20 | 80 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 14.4452 | 0 | 20 | 72 | 50 | 150 |
| **2-Hexanone** | 1 | 15.2305 | 0 | 20 | 76 | 50 | 150 |
| **Tetrachloroethene** | 1 | 18.1597 | 0 | 20 | 91 | 50 | 150 |
| **Toluene** | 1 | 16.5374 | 0 | 20 | 83 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 15.7812 | 0 | 20 | 79 | 70 | 130 |
| **Chlorobenzene** | 1 | 17.0017 | 0 | 20 | 85 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96749

| Method: 8260D | Matrix: Aqueous | | Units: ug/L | QC Type: MBS | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| n-Butyl acrylate | 1 | 8.8555 | 0 | 20 | 44* | 70 | 130 |
| n-Amyl acetate | 1 | 8.8886 | 0 | 20 | 44* | 70 | 130 |
| **Bromoform** | 1 | 11.4264 | 0 | 20 | 57* | 70 | 130 |
| **Ethylbenzene** | 1 | 14.3487 | 0 | 20 | 72 | 70 | 130 |
| **1,1,2,2-Tetrachloroethane** | 1 | 12.8477 | 0 | 20 | 64* | 70 | 130 |
| **Styrene** | 1 | 13.9864 | 0 | 20 | 70 | 70 | 130 |
| **m&p-Xylenes** | 1 | 28.3927 | 0 | 40 | 71 | 70 | 130 |
| **o-Xylene** | 1 | 14.8091 | 0 | 20 | 74 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 10.6464 | 0 | 20 | 53 | 50 | 150 |
| **1,3-Dichlorobenzene** | 1 | 15.4946 | 0 | 20 | 77 | 70 | 130 |
| **1,4-Dichlorobenzene** | 1 | 15.1144 | 0 | 20 | 76 | 70 | 130 |
| **1,2-Dichlorobenzene** | 1 | 15.3739 | 0 | 20 | 77 | 70 | 130 |
| **Isopropylbenzene** | 1 | 14.9502 | 0 | 20 | 75 | 70 | 130 |
| Cyclohexanone | 1 | 75.3383 | 0 | 100 | 75 | 50 | 150 |
| Camphene | 1 | 14.2735 | 0 | 20 | 71 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 12.1934 | 0 | 20 | 61* | 70 | 130 |
| 2-Chlorotoluene | 1 | 14.8687 | 0 | 20 | 74 | 70 | 130 |
| p-Ethyltoluene | 1 | 13.1013 | 0 | 20 | 66* | 70 | 130 |
| 4-Chlorotoluene | 1 | 14.1048 | 0 | 20 | 71 | 70 | 130 |
| n-Propylbenzene | 1 | 14.8333 | 0 | 20 | 74 | 70 | 130 |
| Bromobenzene | 1 | 13.7172 | 0 | 20 | 69* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 16.3838 | 0 | 20 | 82 | 70 | 130 |
| Butyl methacrylate | 1 | 10.8537 | 0 | 20 | 54* | 70 | 130 |
| t-Butylbenzene | 1 | 15.6336 | 0 | 20 | 78 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 14.9685 | 0 | 20 | 75 | 70 | 130 |
| sec-Butylbenzene | 1 | 14.9725 | 0 | 20 | 75 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 15.2867 | 0 | 20 | 76 | 70 | 130 |
| n-Butylbenzene | 1 | 14.6818 | 0 | 20 | 73 | 70 | 130 |
| p-Diethylbenzene | 1 | 14.4387 | 0 | 20 | 72 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 14.4716 | 0 | 20 | 72 | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | 1 | 11.1832 | 0 | 20 | 56 | 50 | 150 |
| Camphor | 1 | 133.1558 | 0 | 200 | 67 | 20 | 150 |
| Hexachlorobutadiene | 1 | 14.7263 | 0 | 20 | 74 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | 1 | 14.594 | 0 | 20 | 73 | 70 | 130 |
| **1,2,3-Trichlorobenzene** | 1 | 13.7569 | 0 | 20 | 69* | 70 | 130 |
| Naphthalene | 1 | 13.41 | 0 | 20 | 67 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : MBS Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M156847.D Sam Mult : 1 Vial# : 20 Qt On : 09/16/21 15:26
Acq On : 09/16/21 10:55 Misc : A,5ML Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0916-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 193945 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 160065 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 92108 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 52160 | 29.52 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 98.40% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 28692 | 29.89 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.63% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 197356 | 28.40 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 94.67% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 78353 | 27.98 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.27% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 35601 | 16.5147 | ug/l | 21 |
| 6) Dichlorodifluoromethane | 1.679 | 85 | 6715 | 7.2831 | ug/l | 99 |
| 7) Chloromethane | 1.861 | 50 | 15819m | 12.7540 | ug/l | |
| 8) Bromomethane | 2.233 | 94 | 13712m | 12.2825 | ug/l | |
| 9) Vinyl Chloride | 1.953 | 62 | 19798 | 14.1383 | ug/l | 98 |
| 10) Chloroethane | 2.325 | 64 | 17195 | 17.8737 | ug/l | 99 |
| 11) Trichlorofluoromethane | 2.550 | 101 | 48354 | 19.9609 | ug/l | 97 |
| 12) Ethyl ether | 2.794 | 59 | 14846 | 15.1261 | ug/l | 93 |
| 13) Furan | 2.837 | 39 | 32504 | 16.5633 | ug/l | 81 |
| 14) 1,1,2-Trichloro-1,2,2-... | 2.989 | 101 | 17702 | 14.7651 | ug/l | 97 |
| 15) Methylene Chloride | 3.410 | 84 | 24287 | 16.7004 | ug/l | 80 |
| 16) Acrolein | 2.916 | 56 | 13058m | 48.1484 | ug/l | |
| 17) Acrylonitrile | 3.617 | 53 | 11890 | 15.7757 | ug/l | 94 |
| 18) Iodomethane | 3.142 | 142 | 19221m | 13.0041 | ug/l | |
| 19) Acetone | 3.044 | 43 | 50651 | 86.9931 | ug/l | 96 |
| 20) Carbon Disulfide | 3.209 | 76 | 40571 | 10.6019 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.489 | 59 | 16736 | 78.2485 | ug/l | 99 |
| 22) n-Hexane | 3.867 | 57 | 18317 | 12.7308 | ug/l | 87 |
| 23) Di-isopropyl-ether | 4.026 | 45 | 77908 | 16.5485 | ug/l | 90 |
| 24) 1,1-Dichloroethene | 3.002 | 61 | 35220 | 17.7050 | ug/l | 89 |
| 25) Methyl Acetate | 3.312 | 43 | 40199 | 22.9075 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 61937 | 15.0026 | ug/l | 89 |
| 27) 1,1-Dichloroethane | 3.995 | 63 | 42276 | 17.2270 | ug/l | 99 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 24209 | 16.8494 | ug/l | 97 |
| 29) Ethyl-t-butyl ether | 4.288 | 59 | 65374 | 16.3394 | ug/l | 96 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 42808 | 16.8489 | ug/l | 95 |
| 31) Bromochloromethane | 4.562 | 49 | 22701 | 18.6426 | ug/l | 80 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 25132 | 12.1232 | ug/l | 99 |
| 33) Ethyl acetate | 4.434 | 43 | 27808m | 14.4072 | ug/l | |
| 34) 1,4-Dioxane | 5.489 | 88 | 25887 | 985.4616 | ug/l | 95 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 35073 | 18.1729 | ug/l | 99 |
| 36) Chloroform | 4.605 | 83 | 46917 | 18.5125 | ug/l | 96 |
| 38) Cyclohexane | 4.769 | 56 | 31482 | 15.9135 | ug/l | 92 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 37798 | 17.7332 | ug/l | 98 |
| 41) 2-Butanone | 4.410 | 43 | 15567m | 15.8221 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 40693 | 17.9582 | ug/l | 95 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 33719 | 16.7453 | ug/l | 99 |
| 44) Vinyl Acetate | 4.026 | 43 | 54884 | 10.6925 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 32589 | 16.3762 | ug/l | 94 |
| 46) Methylcyclohexane | 5.416 | 83 | 29234 | 16.8088 | ug/l | 94 |
| 47) Dibromomethane | 5.495 | 174 | 22311 | 18.8222 | ug/l | 97 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 25531 | 17.5083 | ug/l | 97 |
| 49) Trichloroethene | 5.300 | 130 | 30466 | 18.9945 | ug/l | 97 |
| 50) Benzene | 4.946 | 78 | 98591 | 17.4218 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 63735 | 15.5317 | ug/l | 93 |
| 53) Iso-propylacetate | 4.946 | 43 | 51583 | 13.1436 | ug/l | 90 |
| 54) Methyl methacrylate | 5.452 | 41 | 30133 | 17.7945 | ug/l | 84 |
| 55) Dibromochloromethane | 6.422 | 129 | 25949 | 14.4794 | ug/l | 99 |
| 56) 2-Chloroethylvinylether | 5.708 | 63 | 15749 | 13.1405 | ug/l | 96 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 33428 | 13.2972 | ug/l | 100 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 30767 | 13.1908 | ug/l | 100 |
| 59) Ethyl methacrylate | 6.111 | 41 | 22524 | 13.0084 | ug/l | 78 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 24218 | 15.8146 | ug/l | 96 |
| 61) 1,2-Dibromoethane | 6.495 | 107 | 26115 | 15.6086 | ug/l | 98 |
| 62) 1,3-Dichloropropane | 6.287 | 76 | 41047 | 16.0368 | ug/l | 98 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 30196 | 14.4452 | ug/l | 89 |
| 64) 2-Hexanone | 6.306 | 43 | 23824 | 15.2305 | ug/l | 95 |
| 65) Tetrachloroethene | 6.287 | 164 | 25943 | 18.1597 | ug/l | 93 |
| 67) Toluene | 5.989 | 92 | 65829 | 16.5374 | ug/l | 99 |

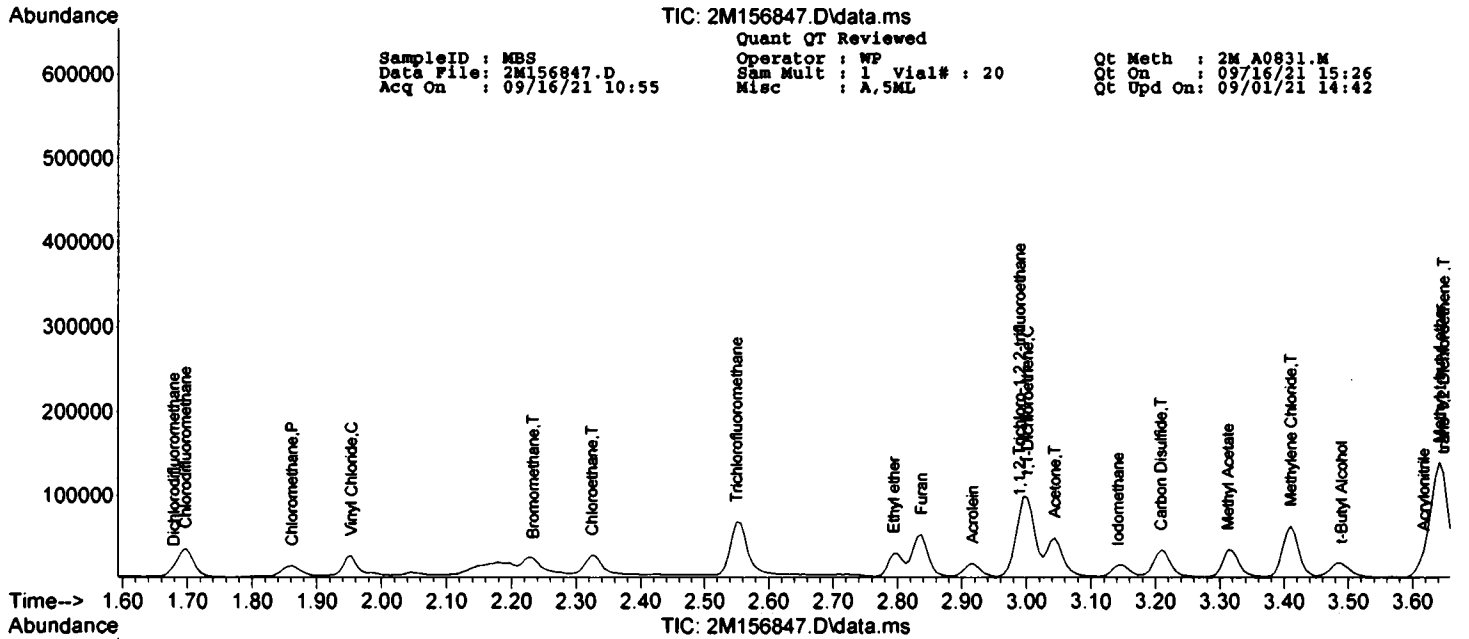
Quantitation Report (QT Reviewed)

SampleID : MBS | Operator : WP | Qt Meth : 2M_A0831.M
Data File: 2M156847.D | Sam Mult : 1 Vial# : 20 | Qt On : 09/16/21 15:26
Acq On : 09/16/21 10:55 | Misc : A,5ML | Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0916-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 6.787 | 133 | 25004 | 15.7812 | ug/l | 95 |
| 69) | Chlorobenzene | 6.751 | 112 | 75206 | 17.0017 | ug/l | 98 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 34515 | 8.8555 | ug/l | 95 |
| 72) | n-Amyl acetate | 7.111 | 43 | 33992 | 8.8886 | ug/l | 92 |
| 73) | Bromoform | 7.202 | 173 | 19677 | 11.4264 | ug/l | 98 |
| 74) | Ethylbenzene | 6.793 | 106 | 32720 | 14.3487 | ug/l | 95 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.415 | 83 | 33466 | 12.8477 | ug/l | 96 |
| 77) | Styrene | 7.074 | 104 | 77362 | 13.9864 | ug/l | 86 |
| 78) | m&p-Xylenes | 6.848 | 106 | 96245 | 28.3927 | ug/l | 100 |
| 79) | o-Xylene | 7.074 | 106 | 47984 | 14.8091 | ug/l | 92 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 11742 | 10.6464 | ug/l | 76 |
| 81) | 1,3-Dichlorobenzene | 7.988 | 146 | 56579 | 15.4946 | ug/l | 98 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 56466 | 15.1144 | ug/l | 98 |
| 83) | 1,2-Dichlorobenzene | 8.257 | 146 | 53868 | 15.3739 | ug/l | 98 |
| 84) | Isopropylbenzene | 7.263 | 105 | 112563 | 14.9502 | ug/l | 98 |
| 85) | Cyclohexanone | 7.342 | 55 | 8605 | 75.3383 | ug/l | 92 |
| 86) | Camphene | 7.434 | 93 | 26150 | 14.2735 | ug/l | 98 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 40580 | 12.1934 | ug/l | 93 |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 67584 | 14.8687 | ug/l | 98 |
| 89) | p-Ethyltoluene | 7.549 | 105 | 99447 | 13.1013 | ug/l | 100 |
| 90) | 4-Chlorotoluene | 7.617 | 91 | 64406 | 14.1048 | ug/l | 97 |
| 91) | n-Propylbenzene | 7.489 | 91 | 125814 | 14.8333 | ug/l | 98 |
| 92) | Bromobenzene | 7.464 | 77 | 66977 | 13.7172 | ug/l | 92 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 87121 | 16.3838 | ug/l | 98 |
| 94) | Butyl methacrylate | 7.586 | 41 | 28907 | 10.8537 | ug/l | 77 |
| 95) | t-Butylbenzene | 7.775 | 119 | 86418 | 15.6336 | ug/l | 99 |
| 96) | 1,2,4-Trimethylbenzene | 7.799 | 105 | 90681 | 14.9685 | ug/l | 100 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 97433 | 14.9725 | ug/l | 96 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 83427 | 15.2867 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.202 | 91 | 84199 | 14.6818 | ug/l | 99 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 45267 | 14.4387 | ug/l | 96 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 55649 | 14.4716 | ug/l | 95 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 7295 | 11.1832 | ug/l | 91 |
| 103) | Camphor | 9.147 | 95 | 38867 | 133.1558 | ug/l | 98 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 13140 | 14.7263 | ug/l | 94 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 26364 | 14.5940 | ug/l | 96 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 22322 | 13.7569 | ug/l | 93 |
| 107) | Naphthalene | 9.360 | 128 | 75667 | 13.4100 | ug/l | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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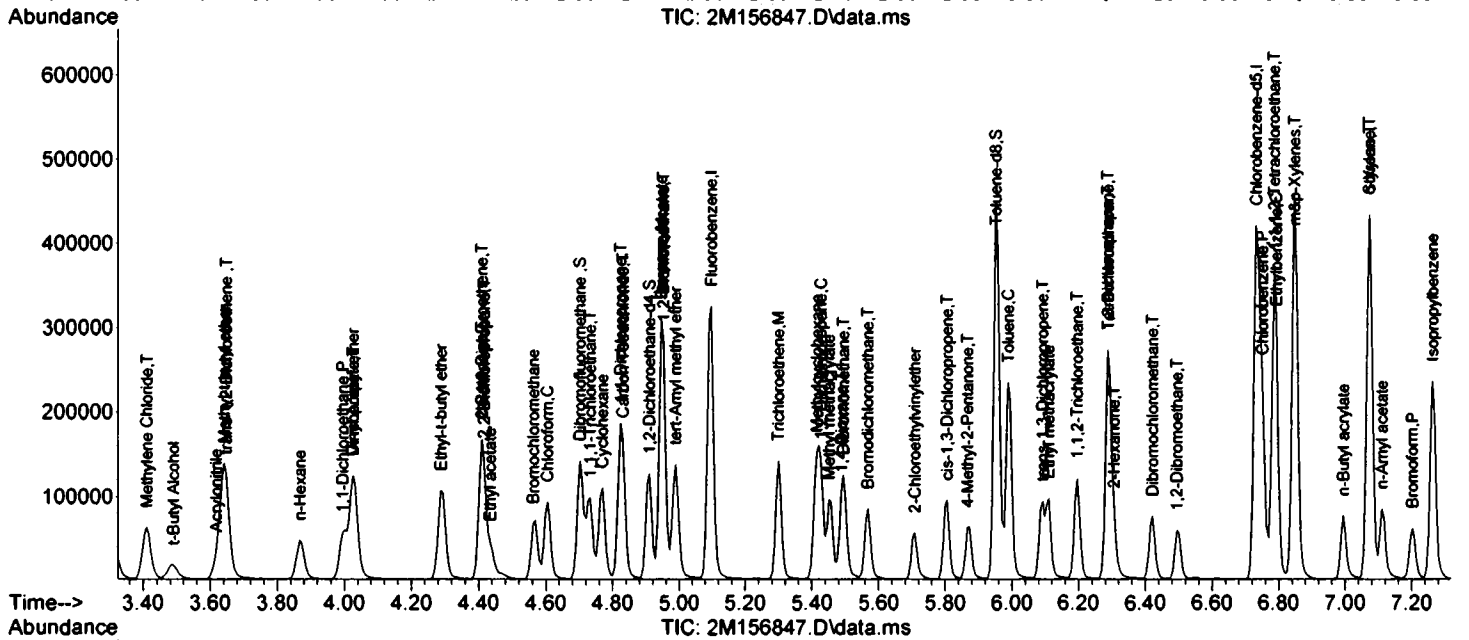
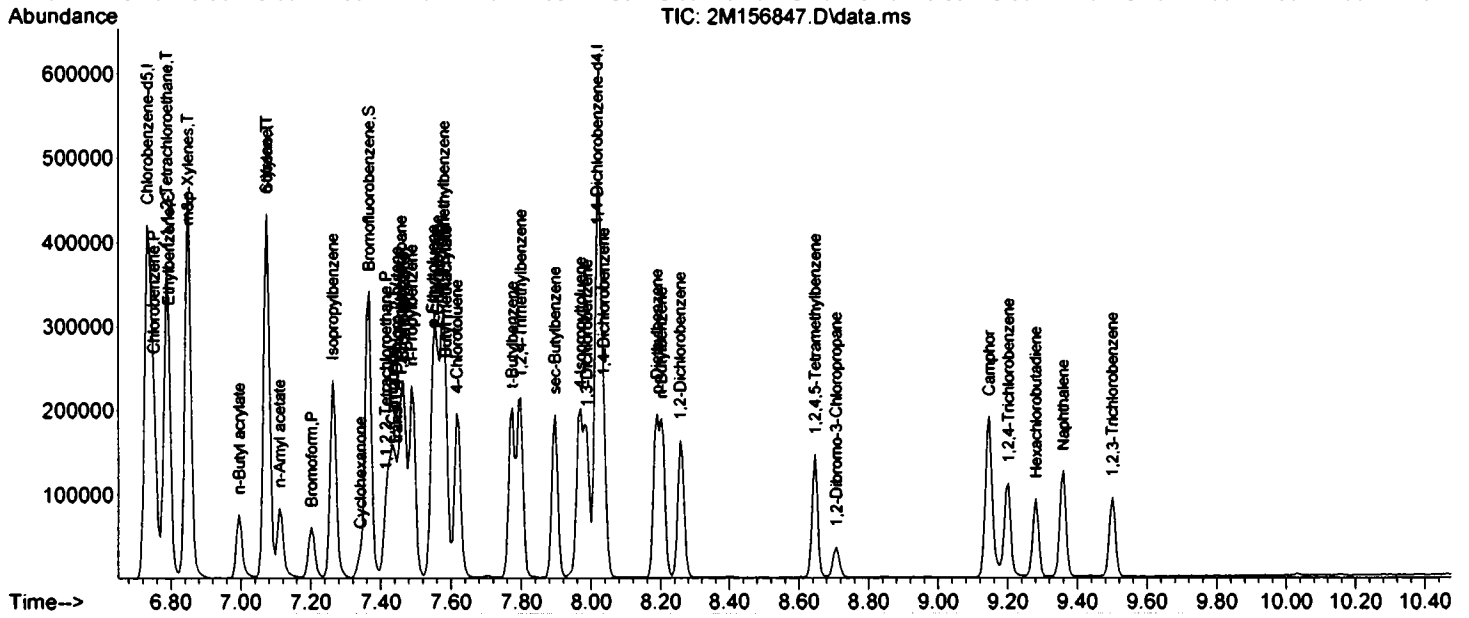
TIC: 2M156847.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 2M156847.D
Acq On : 09/16/21 10:55
Operator : WP
Sam Mult : 1 Vial# : 20
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 09/16/21 15:26
Qt Upd On: 09/01/21 14:42
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 2M156847.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M156847.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,T
Ethylbenzene-d10,S
Tetrachloroethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96770

| Data File | Sample ID: | Analysis Date |
|---|---|---|
| Spike or Dup: 1M152710.D | MBS96770 | 9/20/2021 10:55:00 PM |
| Non Spike(If applicable): | | |
| Inst Blank(If applicable): | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 25.227 | 0 | 20 | 126 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 12.0263 | 0 | 20 | 60 | 50 | 150 |
| **Chloromethane** | 1 | 16.801 | 0 | 20 | 84 | 50 | 150 |
| **Bromomethane** | 1 | 18.1847 | 0 | 20 | 91 | 50 | 150 |
| **Vinyl Chloride** | 1 | 18.2994 | 0 | 20 | 91 | 50 | 150 |
| **Chloroethane** | 1 | 20.0437 | 0 | 20 | 100 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 21.1797 | 0 | 20 | 106 | 50 | 150 |
| Ethyl ether | 1 | 19.9682 | 0 | 20 | 100 | 50 | 150 |
| Furan | 1 | 20.9438 | 0 | 20 | 105 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 22.4221 | 0 | 20 | 112 | 50 | 150 |
| **Methylene Chloride** | 1 | 20.0776 | 0 | 20 | 100 | 70 | 130 |
| Acrolein | 1 | 93.28 | 0 | 100 | 93 | 50 | 150 |
| Acrylonitrile | 1 | 22.3469 | 0 | 20 | 112 | 50 | 150 |
| Iodomethane | 1 | 16.5326 | 0 | 20 | 83 | 50 | 150 |
| **Acetone** | 1 | 113.8972 | 0 | 100 | 114 | 50 | 150 |
| **Carbon Disulfide** | 1 | 19.8474 | 0 | 20 | 99 | 50 | 150 |
| t-Butyl Alcohol | 1 | 109.255 | 0 | 100 | 109 | 50 | 150 |
| n-Hexane | 1 | 23.3985 | 0 | 20 | 117 | 70 | 130 |
| Di-isopropyl-ether | 1 | 22.4508 | 0 | 20 | 112 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 22.0065 | 0 | 20 | 110 | 70 | 130 |
| **Methyl Acetate** | 1 | 22.6233 | 0 | 20 | 113 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 20.8851 | 0 | 20 | 104 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 20.8912 | 0 | 20 | 104 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 21.0216 | 0 | 20 | 105 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 21.4218 | 0 | 20 | 107 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 21.4717 | 0 | 20 | 107 | 70 | 130 |
| **Bromochloromethane** | 1 | 21.8801 | 0 | 20 | 109 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 20.7142 | 0 | 20 | 104 | 70 | 130 |
| Ethyl acetate | 1 | 20.7819 | 0 | 20 | 104 | 50 | 150 |
| **1,4-Dioxane** | 1 | 1030.976 | 0 | 1000 | 103 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 22.0259 | 0 | 20 | 110 | 70 | 130 |
| **Chloroform** | 1 | 19.8456 | 0 | 20 | 99 | 70 | 130 |
| **Cyclohexane** | 1 | 24.7378 | 0 | 20 | 124 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 20.0452 | 0 | 20 | 100 | 70 | 130 |
| **2-Butanone** | 1 | 18.3538 | 0 | 20 | 92 | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 21.1325 | 0 | 20 | 106 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 21.7075 | 0 | 20 | 109 | 50 | 150 |
| Vinyl Acetate | 1 | 20.6066 | 0 | 20 | 103 | 50 | 150 |
| **Bromodichloromethane** | 1 | 20.1159 | 0 | 20 | 101 | 70 | 130 |
| **Methylcyclohexane** | 1 | 22.7994 | 0 | 20 | 114 | 70 | 130 |
| Dibromomethane | 1 | 20.1354 | 0 | 20 | 101 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 21.2436 | 0 | 20 | 106 | 70 | 130 |
| **Trichloroethene** | 1 | 19.7063 | 0 | 20 | 99 | 70 | 130 |
| **Benzene** | 1 | 19.9464 | 0 | 20 | 100 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 20.0625 | 0 | 20 | 100 | 70 | 130 |
| Iso-propylacetate | 1 | 20.6416 | 0 | 20 | 103 | 70 | 130 |
| Methyl methacrylate | 1 | 21.195 | 0 | 20 | 106 | 70 | 130 |
| **Dibromochloromethane** | 1 | 18.33 | 0 | 20 | 92 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 20.391 | 0 | 20 | 102 | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 19.3076 | 0 | 20 | 97 | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 19.2421 | 0 | 20 | 96 | 70 | 130 |
| Ethyl methacrylate | 1 | 21.1794 | 0 | 20 | 106 | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 19.3742 | 0 | 20 | 97 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 19.3547 | 0 | 20 | 97 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 18.9252 | 0 | 20 | 95 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 21.5825 | 0 | 20 | 108 | 50 | 150 |
| **2-Hexanone** | 1 | 20.5245 | 0 | 20 | 103 | 50 | 150 |
| **Tetrachloroethene** | 1 | 19.2718 | 0 | 20 | 96 | 50 | 150 |
| **Toluene** | 1 | 19.3032 | 0 | 20 | 97 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 18.4541 | 0 | 20 | 92 | 70 | 130 |
| **Chlorobenzene** | 1 | 19.0374 | 0 | 20 | 95 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96770

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 18.167 | 0 | 20 | 91 | 70 | 130 |
| n-Amyl acetate | 1 | 19.0685 | 0 | 20 | 95 | 70 | 130 |
| **Bromoform** | **1** | **17.1047** | **0** | **20** | **86** | **70** | **130** |
| **Ethylbenzene** | **1** | **18.5655** | **0** | **20** | **93** | **70** | **130** |
| **1,1,2,2-Tetrachloroethane** | **1** | **18.6521** | **0** | **20** | **93** | **70** | **130** |
| **Styrene** | **1** | **18.4591** | **0** | **20** | **92** | **70** | **130** |
| **m&p-Xylenes** | **1** | **37.7385** | **0** | **40** | **94** | **70** | **130** |
| **o-Xylene** | **1** | **19.3282** | **0** | **20** | **97** | **70** | **130** |
| trans-1,4-Dichloro-2-butene | 1 | 20.5122 | 0 | 20 | 103 | 50 | 150 |
| **1,3-Dichlorobenzene** | **1** | **18.0106** | **0** | **20** | **90** | **70** | **130** |
| **1,4-Dichlorobenzene** | **1** | **17.5072** | **0** | **20** | **88** | **70** | **130** |
| **1,2-Dichlorobenzene** | **1** | **17.7889** | **0** | **20** | **89** | **70** | **130** |
| **Isopropylbenzene** | **1** | **19.7474** | **0** | **20** | **99** | **70** | **130** |
| Cyclohexanone | 1 | 109.3322 | 0 | 100 | 109 | 50 | 150 |
| Camphene | 1 | 21.1476 | 0 | 20 | 106 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 17.849 | 0 | 20 | 89 | 70 | 130 |
| 2-Chlorotoluene | 1 | 18.6486 | 0 | 20 | 93 | 70 | 130 |
| p-Ethyltoluene | 1 | 19.351 | 0 | 20 | 97 | 70 | 130 |
| 4-Chlorotoluene | 1 | 19.0187 | 0 | 20 | 95 | 70 | 130 |
| n-Propylbenzene | 1 | 19.8405 | 0 | 20 | 99 | 70 | 130 |
| Bromobenzene | 1 | 18.995 | 0 | 20 | 95 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 19.3304 | 0 | 20 | 97 | 70 | 130 |
| Butyl methacrylate | 1 | 20.446 | 0 | 20 | 102 | 70 | 130 |
| t-Butylbenzene | 1 | 19.0921 | 0 | 20 | 95 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 19.8067 | 0 | 20 | 99 | 70 | 130 |
| sec-Butylbenzene | 1 | 18.9969 | 0 | 20 | 95 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 19.016 | 0 | 20 | 95 | 70 | 130 |
| n-Butylbenzene | 1 | 19.6721 | 0 | 20 | 98 | 70 | 130 |
| p-Diethylbenzene | 1 | 19.3444 | 0 | 20 | 97 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 18.2238 | 0 | 20 | 91 | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | **1** | **19.0956** | **0** | **20** | **95** | **50** | **150** |
| Camphor | 1 | 176.6769 | 0 | 200 | 88 | 20 | 150 |
| Hexachlorobutadiene | 1 | 19.2622 | 0 | 20 | 96 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | **1** | **19.1649** | **0** | **20** | **96** | **70** | **130** |
| **1,2,3-Trichlorobenzene** | **1** | **19.3244** | **0** | **20** | **97** | **70** | **130** |
| Naphthalene | 1 | 18.593 | 0 | 20 | 93 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 1M152710.D
Acq On : 09/20/21 22:55
Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 09/20/21 23:11
Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-20-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 107163 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 87743 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 50070 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 28464 | 30.38 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 101.27% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 16110 | 31.63 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 105.43% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 109008 | 29.19 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.30% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 39009 | 30.05 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 100.17% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.078 | 51 | 33432m | 25.2270 | ug/l | |
| 6) Dichlorodifluoromethane | 2.075 | 85 | 6367 | 12.0263 | ug/l | 90 |
| 7) Chloromethane | 2.245 | 50 | 16118m | 16.8010 | ug/l | |
| 8) Bromomethane | 2.615 | 94 | 9369 | 18.1847 | ug/l | 99 |
| 9) Vinyl Chloride | 2.338 | 62 | 16953 | 18.2994 | ug/l | 94 |
| 10) Chloroethane | 2.689 | 64 | 12281 | 20.0437 | ug/l | 97 |
| 11) Trichlorofluoromethane | 2.898 | 101 | 28850 | 21.1797 | ug/l | 94 |
| 12) Ethyl ether | 3.110 | 59 | 12294m | 19.9682 | ug/l | |
| 13) Furan | 3.149 | 39 | 24128 | 20.9438 | ug/l | 74 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.306 | 101 | 14092m | 22.4221 | ug/l | |
| 15) Methylene Chloride | 3.682 | 84 | 17560 | 20.0776 | ug/l | 68 |
| 16) Acrolein | 3.210 | 56 | 10850m | 93.2800 | ug/l | |
| 17) Acrylonitrile | 3.853 | 53 | 6919 | 22.3469 | ug/l | 94 |
| 18) Iodomethane | 3.444 | 142 | 15053m | 16.5326 | ug/l | |
| 19) Acetone | 3.329 | 43 | 23381 | 113.8972 | ug/l | 70 |
| 20) Carbon Disulfide | 3.512 | 76 | 36980 | 19.8474 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.727 | 59 | 9333 | 109.2550 | ug/l | 63 |
| 22) n-Hexane | 4.113 | 57 | 18038 | 23.3985 | ug/l | 94 |
| 23) Di-isopropyl-ether | 4.255 | 45 | 55718 | 22.4508 | ug/l | 87 |
| 24) 1,1-Dichloroethene | 3.309 | 61 | 31821 | 22.0065 | ug/l | 92 |
| 25) Methyl Acetate | 3.583 | 43 | 14970 | 22.6233 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.898 | 73 | 44277 | 20.8851 | ug/l | 84 |
| 27) 1,1-Dichloroethane | 4.223 | 63 | 35037 | 20.8912 | ug/l | 93 |
| 28) trans-1,2-Dichloroethene | 3.904 | 96 | 18683 | 21.0216 | ug/l | 79 |
| 29) Ethyl-t-butyl ether | 4.509 | 59 | 55804 | 21.4218 | ug/l | 89 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 37054 | 21.4717 | ug/l | 82 |
| 31) Bromochloromethane | 4.769 | 49 | 18915 | 21.8801 | ug/l | 72 |
| 32) 2,2-Dichloropropane | 4.624 | 77 | 29118 | 20.7142 | ug/l | 98 |
| 33) Ethyl acetate | 4.641 | 43 | 17633m | 20.7819 | ug/l | |
| 34) 1,4-Dioxane | 5.695 | 88 | 9806 | 1030.9760 | ug/l | 82 |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 26214 | 22.0259 | ug/l | 93 |
| 36) Chloroform | 4.805 | 83 | 32435 | 19.8456 | ug/l | 94 |
| 38) Cyclohexane | 4.981 | 56 | 28548 | 24.7378 | ug/l | 79 |
| 40) 1,2-Dichloroethane | 5.149 | 62 | 29146 | 20.0452 | ug/l | 96 |
| 41) 2-Butanone | 4.628 | 43 | 8733m | 18.3538 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.936 | 97 | 31898 | 21.1325 | ug/l | 97 |
| 43) Carbon Tetrachloride | 5.042 | 117 | 27274 | 21.7075 | ug/l | 95 |
| 44) Vinyl Acetate | 4.248 | 43 | 50615 | 20.6066 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 24860 | 20.1159 | ug/l | 99 |
| 46) Methylcyclohexane | 5.628 | 83 | 21704 | 22.7994 | ug/l | 82 |
| 47) Dibromomethane | 5.695 | 174 | 12286 | 20.1354 | ug/l | 84 |
| 48) 1,2-Dichloropropane | 5.628 | 63 | 19849 | 21.2436 | ug/l | 92 |
| 49) Trichloroethene | 5.505 | 130 | 19324 | 19.7063 | ug/l | 98 |
| 50) Benzene | 5.155 | 78 | 68876 | 19.9464 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 44549 | 20.0625 | ug/l | 94 |
| 53) Iso-propylacetate | 5.149 | 43 | 32464 | 20.6416 | ug/l | 97 |
| 54) Methyl methacrylate | 5.657 | 41 | 14098 | 21.1950 | ug/l | 75 |
| 55) Dibromochloromethane | 6.634 | 129 | 18054 | 18.3300 | ug/l | 99 |
| 56) 2-Chloroethylvinylether | 5.907 | 63 | 11411 | 20.3910 | ug/l | 88 |
| 57) cis-1,3-Dichloropropene | 6.010 | 75 | 26526 | 19.3076 | ug/l | 99 |
| 58) trans-1,3-Dichloropropene | 6.296 | 75 | 24864 | 19.2421 | ug/l | 100 |
| 59) Ethyl methacrylate | 6.325 | 41 | 15796 | 21.1794 | ug/l | 72 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 16114 | 19.3742 | ug/l | 93 |
| 61) 1,2-Dibromoethane | 6.714 | 107 | 16553 | 19.3547 | ug/l | 92 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 26681 | 18.9252 | ug/l | 98 |
| 63) 4-Methyl-2-Pentanone | 6.075 | 43 | 16608 | 21.5825 | ug/l | 96 |
| 64) 2-Hexanone | 6.521 | 43 | 10845 | 20.5245 | ug/l | 94 |
| 65) Tetrachloroethene | 6.509 | 164 | 15777 | 19.2718 | ug/l | 96 |
| 67) Toluene | 6.203 | 92 | 45733 | 19.3032 | ug/l | 91 |

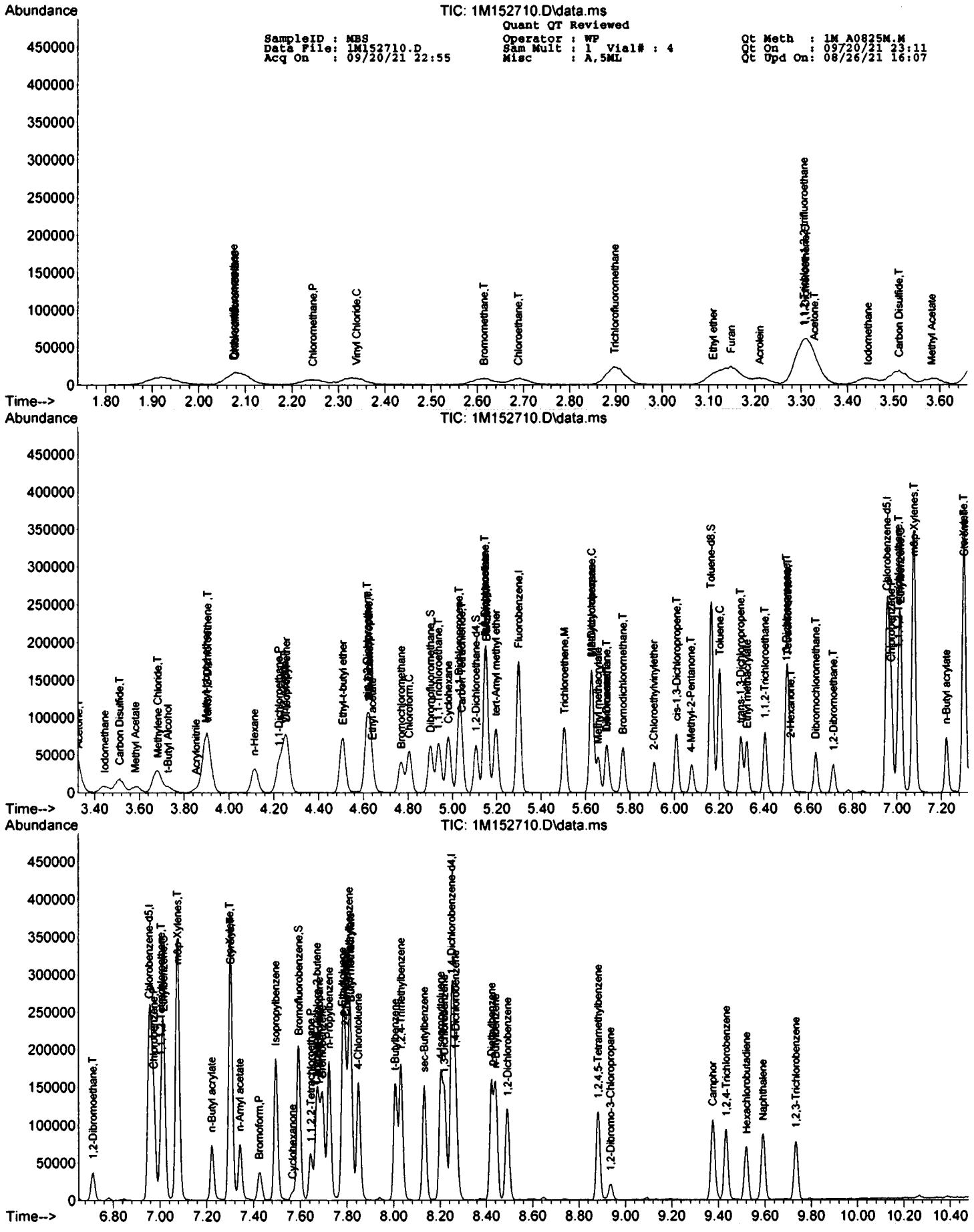
Quantitation Report (QT Reviewed)

SampleID : MBS Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152710.D Sam Mult : 1 Vial# : 4 Qt On : 09/20/21 23:11
Acq On : 09/20/21 22:55 Misc : A,5ML Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-20-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 16792 | 18.4541 | ug/l | 90 |
| 69) | Chlorobenzene | 6.975 | 112 | 49915 | 19.0374 | ug/l | 99 |
| 71) | n-Butyl acrylate | 7.222 | 55 | 33233 | 18.1670 | ug/l | 88 |
| 72) | n-Amyl acetate | 7.341 | 43 | 27402 | 19.0685 | ug/l | 88 |
| 73) | Bromoform | 7.425 | 173 | 11813 | 17.1047 | ug/l | 96 |
| 74) | Ethylbenzene | 7.017 | 106 | 22952 | 18.5655 | ug/l | 88 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.647 | 83 | 20073 | 18.6521 | ug/l | 99 |
| 77) | Styrene | 7.303 | 104 | 54814 | 18.4591 | ug/l | 94 |
| 78) | m&p-Xylenes | 7.078 | 106 | 66579 | 37.7385 | ug/l | 95 |
| 79) | o-Xylene | 7.300 | 106 | 33043 | 19.3282 | ug/l | 96 |
| 80) | trans-1,4-Dichloro-2-b... | 7.673 | 53 | 9246 | 20.5122 | ug/l | 83 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 37553 | 18.0106 | ug/l | 96 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 37712 | 17.5072 | ug/l | 98 |
| 83) | 1,2-Dichlorobenzene | 8.492 | 146 | 35440 | 17.7889 | ug/l | 98 |
| 84) | Isopropylbenzene | 7.496 | 105 | 82529 | 19.7474 | ug/l | 99 |
| 85) | Cyclohexanone | 7.566 | 55 | 4604 | 109.3322 | ug/l | 85 |
| 86) | Camphene | 7.669 | 93 | 19926 | 21.1476 | ug/l | 94 |
| 87) | 1,2,3-Trichloropropane | 7.682 | 75 | 24758 | 17.8490 | ug/l | 98 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 51152 | 18.6486 | ug/l | 93 |
| 89) | p-Ethyltoluene | 7.782 | 105 | 80180 | 19.3510 | ug/l | 92 |
| 90) | 4-Chlorotoluene | 7.849 | 91 | 52312 | 19.0187 | ug/l | 97 |
| 91) | n-Propylbenzene | 7.724 | 91 | 97127 | 19.8405 | ug/l | 97 |
| 92) | Bromobenzene | 7.695 | 77 | 45490 | 18.9950 | ug/l | 80 |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 65722 | 19.3304 | ug/l | 100 |
| 94) | Butyl methacrylate | 7.817 | 41 | 25380 | 20.4460 | ug/l | 63 |
| 95) | t-Butylbenzene | 8.007 | 119 | 60295 | 19.0921 | ug/l | 100 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 70015 | 19.8067 | ug/l | 97 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 73579 | 18.9969 | ug/l | 97 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 61714 | 19.0160 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.441 | 91 | 68844 | 19.6721 | ug/l | 99 |
| 100) | p-Diethylbenzene | 8.425 | 119 | 36063 | 19.3444 | ug/l | 98 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 46565 | 18.2238 | ug/l | 99 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.936 | 157 | 4268 | 19.0956 | ug/l | 84 |
| 103) | Camphor | 9.377 | 95 | 18641 | 176.6769 | ug/l | 99 |
| 104) | Hexachlorobutadiene | 9.521 | 225 | 9316 | 19.2622 | ug/l | 98 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 21076 | 19.1649 | ug/l | 98 |
| 106) | 1,2,3-Trichlorobenzene | 9.734 | 180 | 16969 | 19.3244 | ug/l | 98 |
| 107) | Naphthalene | 9.592 | 128 | 49073 | 18.5930 | ug/l | 99 |

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


Abundance
TIC: 1M152710.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 1M152710.D
Acq On : 09/20/21 22:55
Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 09/20/21 23:11
Qt Upd On: 08/26/21 16:07
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->


Abundance
TIC: 1M152710.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
Time-->


Abundance
TIC: 1M152710.D\data.ms
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
o-Xylene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,P
n-Propylbenzene
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96784

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152842.D | MBS96784 | 9/22/2021 4:07:00 PM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 23.7981 | 0 | 20 | 119 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 43.7966 | 0 | 20 | 219* | 50 | 150 |
| **Chloromethane** | 1 | 27.7174 | 0 | 20 | 139 | 50 | 150 |
| **Bromomethane** | 1 | 9.4206 | 0 | 20 | 47* | 50 | 150 |
| **Vinyl Chloride** | 1 | 24.7019 | 0 | 20 | 124 | 50 | 150 |
| **Chloroethane** | 1 | 23.6976 | 0 | 20 | 118 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 22.1328 | 0 | 20 | 111 | 50 | 150 |
| Ethyl ether | 1 | 20.7689 | 0 | 20 | 104 | 50 | 150 |
| Furan | 1 | 22.4713 | 0 | 20 | 112 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 20.1587 | 0 | 20 | 101 | 50 | 150 |
| **Methylene Chloride** | 1 | 17.1859 | 0 | 20 | 86 | 70 | 130 |
| Acrolein | 1 | 106.3301 | 0 | 100 | 106 | 50 | 150 |
| Acrylonitrile | 1 | 26.6435 | 0 | 20 | 133 | 50 | 150 |
| Iodomethane | 1 | 9.5048 | 0 | 20 | 48* | 50 | 150 |
| **Acetone** | 1 | 128.3165 | 0 | 100 | 128 | 50 | 150 |
| **Carbon Disulfide** | 1 | 26.6697 | 0 | 20 | 133 | 50 | 150 |
| t-Butyl Alcohol | 1 | 118.2689 | 0 | 100 | 118 | 50 | 150 |
| n-Hexane | 1 | 23.6078 | 0 | 20 | 118 | 70 | 130 |
| Di-isopropyl-ether | 1 | 24.2814 | 0 | 20 | 121 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 18.5197 | 0 | 20 | 93 | 70 | 130 |
| **Methyl Acetate** | 1 | 28.6396 | 0 | 20 | 143 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 19.3436 | 0 | 20 | 97 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 19.4239 | 0 | 20 | 97 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 16.3685 | 0 | 20 | 82 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 20.1145 | 0 | 20 | 101 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 17.7655 | 0 | 20 | 89 | 70 | 130 |
| **Bromochloromethane** | 1 | 23.7339 | 0 | 20 | 119 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 13.159 | 0 | 20 | 66* | 70 | 130 |
| Ethyl acetate | 1 | 19.7469 | 0 | 20 | 99 | 50 | 150 |
| **1,4-Dioxane** | 1 | 909.6263 | 0 | 1000 | 91 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 17.4566 | 0 | 20 | 87 | 70 | 130 |
| **Chloroform** | 1 | 17.452 | 0 | 20 | 87 | 70 | 130 |
| **Cyclohexane** | 1 | 22.2126 | 0 | 20 | 111 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 19.128 | 0 | 20 | 96 | 70 | 130 |
| **2-Butanone** | 1 | 19.6471 | 0 | 20 | 98 | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 17.1838 | 0 | 20 | 86 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 15.0444 | 0 | 20 | 75 | 50 | 150 |
| Vinyl Acetate | 1 | 19.567 | 0 | 20 | 98 | 50 | 150 |
| **Bromodichloromethane** | 1 | 17.1628 | 0 | 20 | 86 | 70 | 130 |
| **Methylcyclohexane** | 1 | 17.3128 | 0 | 20 | 87 | 70 | 130 |
| Dibromomethane | 1 | 16.0308 | 0 | 20 | 80 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 18.6807 | 0 | 20 | 93 | 70 | 130 |
| **Trichloroethene** | 1 | 15.6595 | 0 | 20 | 78 | 70 | 130 |
| **Benzene** | 1 | 16.4485 | 0 | 20 | 82 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 17.1434 | 0 | 20 | 86 | 70 | 130 |
| Iso-propylacetate | 1 | 22.1352 | 0 | 20 | 111 | 70 | 130 |
| Methyl methacrylate | 1 | 24.9998 | 0 | 20 | 125 | 70 | 130 |
| **Dibromochloromethane** | 1 | 14.9039 | 0 | 20 | 75 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 16.5679 | 0 | 20 | 83 | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 14.4864 | 0 | 20 | 72 | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 13.8501 | 0 | 20 | 69* | 70 | 130 |
| Ethyl methacrylate | 1 | 19.9773 | 0 | 20 | 100 | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 16.3908 | 0 | 20 | 82 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 16.2487 | 0 | 20 | 81 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 16.3647 | 0 | 20 | 82 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 22.5404 | 0 | 20 | 113 | 50 | 150 |
| **2-Hexanone** | 1 | 22.6513 | 0 | 20 | 113 | 50 | 150 |
| **Tetrachloroethene** | 1 | 14.9245 | 0 | 20 | 75 | 50 | 150 |
| **Toluene** | 1 | 15.6721 | 0 | 20 | 78 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 14.7403 | 0 | 20 | 74 | 70 | 130 |
| **Chlorobenzene** | 1 | 15.7364 | 0 | 20 | 79 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96784

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 16.9546 | 0 | 20 | 85 | 70 | 130 |
| n-Amyl acetate | 1 | 16.9916 | 0 | 20 | 85 | 70 | 130 |
| **Bromoform** | 1 | 14.1716 | 0 | 20 | 71 | 70 | 130 |
| **Ethylbenzene** | 1 | 15.6577 | 0 | 20 | 78 | 70 | 130 |
| **1,1,2,2-Tetrachloroethane** | 1 | 16.3941 | 0 | 20 | 82 | 70 | 130 |
| **Styrene** | 1 | 15.4275 | 0 | 20 | 77 | 70 | 130 |
| **m&p-Xylenes** | 1 | 30.742 | 0 | 40 | 77 | 70 | 130 |
| **o-Xylene** | 1 | 15.1967 | 0 | 20 | 76 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 13.7352 | 0 | 20 | 69 | 50 | 150 |
| **1,3-Dichlorobenzene** | 1 | 15.3708 | 0 | 20 | 77 | 70 | 130 |
| **1,4-Dichlorobenzene** | 1 | 14.9565 | 0 | 20 | 75 | 70 | 130 |
| **1,2-Dichlorobenzene** | 1 | 15.2871 | 0 | 20 | 76 | 70 | 130 |
| **Isopropylbenzene** | 1 | 15.9354 | 0 | 20 | 80 | 70 | 130 |
| Cyclohexanone | 1 | 80.1 | 0 | 100 | 80 | 50 | 150 |
| Camphene | 1 | 17.464 | 0 | 20 | 87 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 14.0525 | 0 | 20 | 70 | 70 | 130 |
| 2-Chlorotoluene | 1 | 15.9999 | 0 | 20 | 80 | 70 | 130 |
| p-Ethyltoluene | 1 | 15.6787 | 0 | 20 | 78 | 70 | 130 |
| 4-Chlorotoluene | 1 | 15.702 | 0 | 20 | 79 | 70 | 130 |
| n-Propylbenzene | 1 | 16.304 | 0 | 20 | 82 | 70 | 130 |
| Bromobenzene | 1 | 17.2371 | 0 | 20 | 86 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 15.8618 | 0 | 20 | 79 | 70 | 130 |
| Butyl methacrylate | 1 | 16.7471 | 0 | 20 | 84 | 70 | 130 |
| t-Butylbenzene | 1 | 15.7145 | 0 | 20 | 79 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 15.789 | 0 | 20 | 79 | 70 | 130 |
| sec-Butylbenzene | 1 | 15.7787 | 0 | 20 | 79 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 15.351 | 0 | 20 | 77 | 70 | 130 |
| n-Butylbenzene | 1 | 16.5616 | 0 | 20 | 83 | 70 | 130 |
| p-Diethylbenzene | 1 | 15.3588 | 0 | 20 | 77 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 13.2065 | 0 | 20 | 66* | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | 1 | 15.1926 | 0 | 20 | 76 | 50 | 150 |
| Camphor | 1 | 156.7762 | 0 | 200 | 78 | 20 | 150 |
| Hexachlorobutadiene | 1 | 15.9735 | 0 | 20 | 80 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | 1 | 16.2172 | 0 | 20 | 81 | 70 | 130 |
| **1,2,3-Trichlorobenzene** | 1 | 17.0476 | 0 | 20 | 85 | 70 | 130 |
| Naphthalene | 1 | 16.5495 | 0 | 20 | 83 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

SampleID : MBS Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152842.D Sam Mult : 1 Vial# : 67 Qt On : 09/22/21 17:53
Acq On : 09/22/21 16:07 Misc : A,5ML Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 96662 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 77782 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 44221 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 27253 | 32.25 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 107.50% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 15798 | 34.39 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 114.63% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 97876 | 29.57 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 98.57% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 33555 | 29.27 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.57% | | | |
| Target Compounds | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.097 | 51 | 28446m | 23.7981 | ug/l | |
| 6) Dichlorodifluoromethane | 2.072 | 85 | 21951 | 43.7966 | ug/l | 87 |
| 7) Chloromethane | 2.248 | 50 | 23985m | 27.7174 | ug/l | |
| 8) Bromomethane | 2.608 | 94 | 4378m | 9.4206 | ug/l | |
| 9) Vinyl Chloride | 2.332 | 62 | 20642 | 24.7019 | ug/l | 100 |
| 10) Chloroethane | 2.692 | 64 | 13097 | 23.6976 | ug/l | 99 |
| 11) Trichlorofluoromethane | 2.895 | 101 | 27194 | 22.1328 | ug/l | 90 |
| 12) Ethyl ether | 3.113 | 59 | 11534 | 20.7689 | ug/l | 72 |
| 13) Furan | 3.152 | 39 | 23351 | 22.4713 | ug/l | 64 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.297 | 101 | 11428m | 20.1587 | ug/l | |
| 15) Methylene Chloride | 3.682 | 84 | 13558 | 17.1859 | ug/l | 59 |
| 16) Acrolein | 3.216 | 56 | 11156 | 106.3301 | ug/l | 91 |
| 17) Acrylonitrile | 3.856 | 53 | 7445m | 26.6435 | ug/l | |
| 18) Iodomethane | 3.448 | 142 | 7801m | 9.5048 | ug/l | |
| 19) Acetone | 3.332 | 43 | 23759 | 128.3165 | ug/l | 89 |
| 20) Carbon Disulfide | 3.509 | 76 | 44822 | 26.6697 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.731 | 59 | 9113 | 118.2689 | ug/l | 85 |
| 22) n-Hexane | 4.116 | 57 | 16416 | 23.6078 | ug/l | 100 |
| 23) Di-isopropyl-ether | 4.258 | 45 | 54356 | 24.2814 | ug/l | 75 |
| 24) 1,1-Dichloroethene | 3.309 | 61 | 24155 | 18.5197 | ug/l | 85 |
| 25) Methyl Acetate | 3.579 | 43 | 17094 | 28.6396 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.898 | 73 | 36989 | 19.3436 | ug/l | 80 |
| 27) 1,1-Dichloroethane | 4.226 | 63 | 29384 | 19.4239 | ug/l | 86 |
| 28) trans-1,2-Dichloroethene | 3.901 | 96 | 13122 | 16.3685 | ug/l | 73 |
| 29) Ethyl-t-butyl ether | 4.509 | 59 | 47264 | 20.1145 | ug/l | 84 |
| 30) cis-1,2-Dichloroethene | 4.621 | 61 | 27654 | 17.7655 | ug/l | 77 |
| 31) Bromochloromethane | 4.766 | 49 | 18507 | 23.7339 | ug/l | 68 |
| 32) 2,2-Dichloropropane | 4.628 | 77 | 16685 | 13.1590 | ug/l | 96 |
| 33) Ethyl acetate | 4.637 | 43 | 15113m | 19.7469 | ug/l | |
| 34) 1,4-Dioxane | 5.695 | 88 | 7804 | 909.6263 | ug/l | 83 |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 18740 | 17.4566 | ug/l | 98 |
| 36) Chloroform | 4.805 | 83 | 25728 | 17.4520 | ug/l | 96 |
| 38) Cyclohexane | 4.981 | 56 | 23122 | 22.2126 | ug/l | 73 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 25087 | 19.1280 | ug/l | 96 |
| 41) 2-Butanone | 4.624 | 43 | 8432m | 19.6471 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.940 | 97 | 23396 | 17.1838 | ug/l | 92 |
| 43) Carbon Tetrachloride | 5.036 | 117 | 17050 | 15.0444 | ug/l | 95 |
| 44) Vinyl Acetate | 4.251 | 43 | 43352 | 19.5670 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 19132 | 17.1628 | ug/l | 98 |
| 46) Methylcyclohexane | 5.628 | 83 | 14866 | 17.3128 | ug/l | 70 |
| 47) Dibromomethane | 5.698 | 174 | 8823 | 16.0308 | ug/l | 86 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 15744 | 18.6807 | ug/l | 97 |
| 49) Trichloroethene | 5.505 | 130 | 13851 | 15.6595 | ug/l | 96 |
| 50) Benzene | 5.152 | 78 | 51232 | 16.4485 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.200 | 73 | 34337 | 17.1434 | ug/l | 88 |
| 53) Iso-propylacetate | 5.145 | 43 | 30861 | 22.1352 | ug/l | 90 |
| 54) Methyl methacrylate | 5.657 | 41 | 14741 | 24.9998 | ug/l | 64 |
| 55) Dibromochloromethane | 6.634 | 129 | 13013 | 14.9039 | ug/l | 91 |
| 56) 2-Chloroethylvinylether | 5.911 | 63 | 8219 | 16.5679 | ug/l | 85 |
| 57) cis-1,3-Dichloropropene | 6.007 | 75 | 17643 | 14.4864 | ug/l | 94 |
| 58) trans-1,3-Dichloropropene | 6.300 | 75 | 15865 | 13.8501 | ug/l | 94 |
| 59) Ethyl methacrylate | 6.322 | 41 | 13208 | 19.9773 | ug/l | 62 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 12085 | 16.3908 | ug/l | 87 |
| 61) 1,2-Dibromoethane | 6.711 | 107 | 12319 | 16.2487 | ug/l | 95 |
| 62) 1,3-Dichloropropane | 6.499 | 76 | 20452 | 16.3647 | ug/l | 90 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 15376 | 22.5404 | ug/l | 94 |
| 64) 2-Hexanone | 6.521 | 43 | 10610 | 22.6513 | ug/l | 97 |
| 65) Tetrachloroethene | 6.509 | 164 | 10831 | 14.9245 | ug/l | 99 |
| 67) Toluene | 6.203 | 92 | 32915 | 15.6721 | ug/l | 88 |

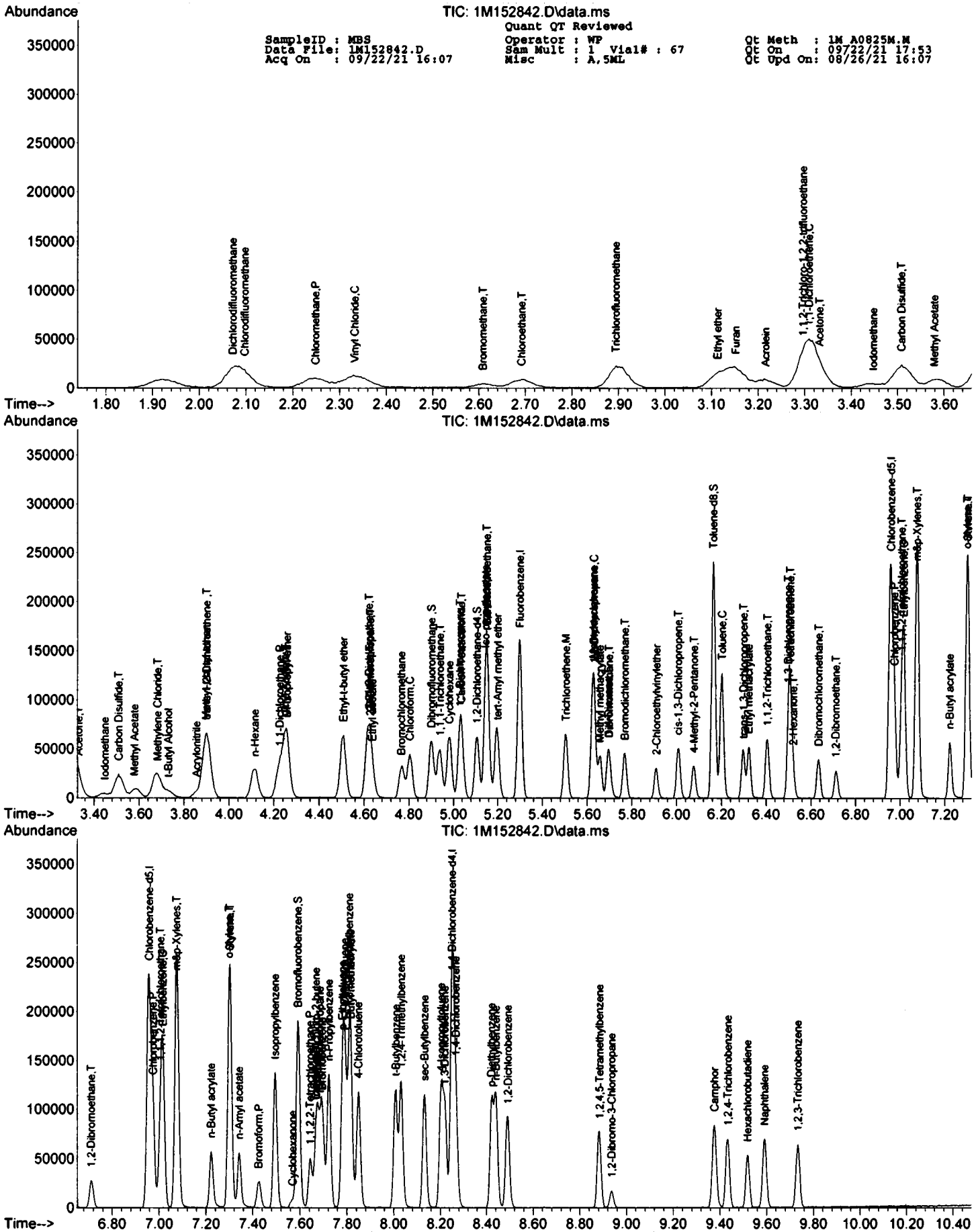
Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 1M152842.D
Acq On : 09/22/21 16:07
Operator : WP
Sam Mult : 1 Vial# : 67
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:53
Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 11890 | 14.7403 | ug/l | 92 |
| 69) | Chlorobenzene | 6.975 | 112 | 36576 | 15.7364 | ug/l | 96 |
| 71) | n-Butyl acrylate | 7.222 | 55 | 27392 | 16.9546 | ug/l | 85 |
| 72) | n-Amyl acetate | 7.341 | 43 | 21565 | 16.9916 | ug/l | 83 |
| 73) | Bromoform | 7.425 | 173 | 8644m | 14.1716 | ug/l | |
| 74) | Ethylbenzene | 7.017 | 106 | 17096 | 15.6577 | ug/l | 95 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 15582 | 16.3941 | ug/l | 98 |
| 77) | Styrene | 7.303 | 104 | 40460 | 15.4275 | ug/l | 89 |
| 78) | m&p-Xylenes | 7.075 | 106 | 47900 | 30.7420 | ug/l | 97 |
| 79) | o-Xylene | 7.300 | 106 | 22945 | 15.1967 | ug/l | 85 |
| 80) | trans-1,4-Dichloro-2-b... | 7.669 | 53 | 5468 | 13.7352 | ug/l | 69 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 28305 | 15.3708 | ug/l | 97 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 28454 | 14.9565 | ug/l | 99 |
| 83) | 1,2-Dichlorobenzene | 8.492 | 146 | 26898 | 15.2871 | ug/l | 97 |
| 84) | Isopropylbenzene | 7.496 | 105 | 58818 | 15.9354 | ug/l | 99 |
| 85) | Cyclohexanone | 7.570 | 55 | 2979 | 80.1000 | ug/l | 85 |
| 86) | Camphene | 7.669 | 93 | 14533 | 17.4640 | ug/l | 94 |
| 87) | 1,2,3-Trichloropropane | 7.685 | 75 | 17215 | 14.0525 | ug/l | 92 |
| 88) | 2-Chlorotoluene | 7.792 | 91 | 38760 | 15.9999 | ug/l | 92 |
| 89) | p-Ethyltoluene | 7.782 | 105 | 57375 | 15.6787 | ug/l | 98 |
| 90) | 4-Chlorotoluene | 7.849 | 91 | 38144 | 15.7020 | ug/l | 96 |
| 91) | n-Propylbenzene | 7.724 | 91 | 70491 | 16.3040 | ug/l | 96 |
| 92) | Bromobenzene | 7.695 | 77 | 36458 | 17.2371 | ug/l | 86 |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 47629 | 15.8618 | ug/l | 96 |
| 94) | Butyl methacrylate | 7.817 | 41 | 18360 | 16.7471 | ug/l | 61 |
| 95) | t-Butylbenzene | 8.010 | 119 | 43831 | 15.7145 | ug/l | 97 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 49293 | 15.7890 | ug/l | 98 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 53975 | 15.7787 | ug/l | 98 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 44000 | 15.3510 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.441 | 91 | 51188 | 16.5616 | ug/l | 99 |
| 100) | p-Diethylbenzene | 8.422 | 119 | 25288 | 15.3588 | ug/l | 95 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 29803 | 13.2065 | ug/l | 95 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.936 | 157 | 2999 | 15.1926 | ug/l | 96 |
| 103) | Camphor | 9.377 | 95 | 14609 | 156.7762 | ug/l | 99 |
| 104) | Hexachlorobutadiene | 9.518 | 225 | 6823 | 15.9735 | ug/l | 98 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 15751 | 16.2172 | ug/l | 98 |
| 106) | 1,2,3-Trichlorobenzene | 9.734 | 180 | 13221 | 17.0476 | ug/l | 96 |
| 107) | Naphthalene | 9.592 | 128 | 38577 | 16.5495 | ug/l | 99 |

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


Abundance
TIC: 1M152842.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 1M152842.D
Acq On : 09/22/21 16:07
Operator : WP
Sam Mult : 1 Vial# : 67
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 17:53
Qt Upd On: 08/26/21 16:07
Time-->

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96787

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 2M157127.D | MBS96787 | 9/22/2021 5:30:00 PM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 15.9121 | 0 | 20 | 80 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 47.3869 | 0 | 20 | 237* | 50 | 150 |
| **Chloromethane** | 1 | 22.1265 | 0 | 20 | 111 | 50 | 150 |
| **Bromomethane** | 1 | 7.6277 | 0 | 20 | 38* | 50 | 150 |
| **Vinyl Chloride** | 1 | 23.4701 | 0 | 20 | 117 | 50 | 150 |
| **Chloroethane** | 1 | 21.2166 | 0 | 20 | 106 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 24.0989 | 0 | 20 | 120 | 50 | 150 |
| Ethyl ether | 1 | 17.8899 | 0 | 20 | 89 | 50 | 150 |
| Furan | 1 | 17.8629 | 0 | 20 | 89 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 22.9265 | 0 | 20 | 115 | 50 | 150 |
| **Methylene Chloride** | 1 | 19.2887 | 0 | 20 | 96 | 70 | 130 |
| Acrolein | 1 | 67.46 | 0 | 100 | 67 | 50 | 150 |
| Acrylonitrile | 1 | 17.3077 | 0 | 20 | 87 | 50 | 150 |
| Iodomethane | 1 | 19.7869 | 0 | 20 | 99 | 50 | 150 |
| **Acetone** | 1 | 87.1561 | 0 | 100 | 87 | 50 | 150 |
| **Carbon Disulfide** | 1 | 19.6094 | 0 | 20 | 98 | 50 | 150 |
| t-Butyl Alcohol | 1 | 83.6536 | 0 | 100 | 84 | 50 | 150 |
| n-Hexane | 1 | 16.1625 | 0 | 20 | 81 | 70 | 130 |
| Di-isopropyl-ether | 1 | 17.5883 | 0 | 20 | 88 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 18.177 | 0 | 20 | 91 | 70 | 130 |
| **Methyl Acetate** | 1 | 20.0024 | 0 | 20 | 100 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 17.5618 | 0 | 20 | 88 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 18.7414 | 0 | 20 | 94 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 20.983 | 0 | 20 | 105 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 17.1072 | 0 | 20 | 86 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 17.8119 | 0 | 20 | 89 | 70 | 130 |
| **Bromochloromethane** | 1 | 18.9437 | 0 | 20 | 95 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 12.038 | 0 | 20 | 60* | 70 | 130 |
| Ethyl acetate | 1 | 16.3451 | 0 | 20 | 82 | 50 | 150 |
| **1,4-Dioxane** | 1 | 1141.745 | 0 | 1000 | 114 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 20.0518 | 0 | 20 | 100 | 70 | 130 |
| **Chloroform** | 1 | 21.7056 | 0 | 20 | 109 | 70 | 130 |
| **Cyclohexane** | 1 | 18.5469 | 0 | 20 | 93 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 18.4014 | 0 | 20 | 92 | 70 | 130 |
| **2-Butanone** | 1 | 15.7504 | 0 | 20 | 79 | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 22.2561 | 0 | 20 | 111 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 22.8857 | 0 | 20 | 114 | 50 | 150 |
| Vinyl Acetate | 1 | 12.7355 | 0 | 20 | 64 | 50 | 150 |
| **Bromodichloromethane** | 1 | 19.5626 | 0 | 20 | 98 | 70 | 130 |
| **Methylcyclohexane** | 1 | 20.7857 | 0 | 20 | 104 | 70 | 130 |
| Dibromomethane | 1 | 29.1023 | 0 | 20 | 146* | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 18.6742 | 0 | 20 | 93 | 70 | 130 |
| **Trichloroethene** | 1 | 26.7161 | 0 | 20 | 134* | 70 | 130 |
| **Benzene** | 1 | 19.74 | 0 | 20 | 99 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 17.6838 | 0 | 20 | 88 | 70 | 130 |
| Iso-propylacetate | 1 | 13.2669 | 0 | 20 | 66* | 70 | 130 |
| Methyl methacrylate | 1 | 16.3991 | 0 | 20 | 82 | 70 | 130 |
| **Dibromochloromethane** | 1 | 19.737 | 0 | 20 | 99 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 10.5624 | 0 | 20 | 53* | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 14.0339 | 0 | 20 | 70 | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 13.9546 | 0 | 20 | 70 | 70 | 130 |
| Ethyl methacrylate | 1 | 12.5958 | 0 | 20 | 63* | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 18.0308 | 0 | 20 | 90 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 18.6152 | 0 | 20 | 93 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 16.0457 | 0 | 20 | 80 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 14.1701 | 0 | 20 | 71 | 50 | 150 |
| **2-Hexanone** | 1 | 14.2668 | 0 | 20 | 71 | 50 | 150 |
| **Tetrachloroethene** | 1 | 24.6705 | 0 | 20 | 123 | 50 | 150 |
| **Toluene** | 1 | 18.1724 | 0 | 20 | 91 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 20.0564 | 0 | 20 | 100 | 70 | 130 |
| **Chlorobenzene** | 1 | 19.6174 | 0 | 20 | 98 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96787

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 10.1627 | 0 | 20 | 51* | 70 | 130 |
| n-Amyl acetate | 1 | 9.1125 | 0 | 20 | 46* | 70 | 130 |
| **Bromoform** | 1 | 17.3725 | 0 | 20 | 87 | 70 | 130 |
| **Ethylbenzene** | 1 | 15.5558 | 0 | 20 | 78 | 70 | 130 |
| **1,1,2,2-Tetrachloroethane** | 1 | 13.8696 | 0 | 20 | 69* | 70 | 130 |
| **Styrene** | 1 | 15.5772 | 0 | 20 | 78 | 70 | 130 |
| **m&p-Xylenes** | 1 | 32.1131 | 0 | 40 | 80 | 70 | 130 |
| **o-Xylene** | 1 | 16.1896 | 0 | 20 | 81 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 9.303 | 0 | 20 | 47* | 50 | 150 |
| **1,3-Dichlorobenzene** | 1 | 19.1669 | 0 | 20 | 96 | 70 | 130 |
| **1,4-Dichlorobenzene** | 1 | 19.0691 | 0 | 20 | 95 | 70 | 130 |
| **1,2-Dichlorobenzene** | 1 | 18.4855 | 0 | 20 | 92 | 70 | 130 |
| **Isopropylbenzene** | 1 | 16.9467 | 0 | 20 | 85 | 70 | 130 |
| Cyclohexanone | 1 | 55.2431 | 0 | 100 | 55 | 50 | 150 |
| Camphene | 1 | 16.0446 | 0 | 20 | 80 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 12.2609 | 0 | 20 | 61* | 70 | 130 |
| 2-Chlorotoluene | 1 | 15.573 | 0 | 20 | 78 | 70 | 130 |
| p-Ethyltoluene | 1 | 15.0047 | 0 | 20 | 75 | 70 | 130 |
| 4-Chlorotoluene | 1 | 14.8759 | 0 | 20 | 74 | 70 | 130 |
| n-Propylbenzene | 1 | 15.6649 | 0 | 20 | 78 | 70 | 130 |
| Bromobenzene | 1 | 13.7897 | 0 | 20 | 69* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 18.4622 | 0 | 20 | 92 | 70 | 130 |
| Butyl methacrylate | 1 | 11.0437 | 0 | 20 | 55* | 70 | 130 |
| t-Butylbenzene | 1 | 17.7367 | 0 | 20 | 89 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 15.9493 | 0 | 20 | 80 | 70 | 130 |
| sec-Butylbenzene | 1 | 16.7936 | 0 | 20 | 84 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 17.8298 | 0 | 20 | 89 | 70 | 130 |
| n-Butylbenzene | 1 | 15.8101 | 0 | 20 | 79 | 70 | 130 |
| p-Diethylbenzene | 1 | 17.31 | 0 | 20 | 87 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 15.8263 | 0 | 20 | 79 | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | 1 | 17.6869 | 0 | 20 | 88 | 50 | 150 |
| Camphor | 1 | 149.8212 | 0 | 200 | 75 | 20 | 150 |
| Hexachlorobutadiene | 1 | 24.5937 | 0 | 20 | 123 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | 1 | 21.3893 | 0 | 20 | 107 | 70 | 130 |
| **1,2,3-Trichlorobenzene** | 1 | 21.1444 | 0 | 20 | 106 | 70 | 130 |
| Naphthalene | 1 | 17.2178 | 0 | 20 | 86 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

SampleID : MBS Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157127.D Sam Mult : 1 Vial# : 20 Qt On : 09/22/21 18:59
Acq On : 09/22/21 17:30 Misc : A,5ML Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 216892 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 194152 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 110490 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 66011 | 33.40 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 111.33% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 28170 | 26.24 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 87.47% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 220589 | 26.17 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 87.23% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 107750 | 32.07 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.90% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 38363 | 15.9121 | ug/l | 68 |
| 6) Dichlorodifluoromethane | 1.685 | 85 | 48860 | 47.3869 | ug/l | 98 |
| 7) Chloromethane | 1.861 | 50 | 30691 | 22.1265 | ug/l | 96 |
| 8) Bromomethane | 2.252 | 94 | 9536 | 7.6277 | ug/l | 90 |
| 9) Vinyl Chloride | 1.953 | 62 | 36754 | 23.4701 | ug/l | 95 |
| 10) Chloroethane | 2.343 | 64 | 22826 | 21.2166 | ug/l | 97 |
| 11) Trichlorofluoromethane | 2.563 | 101 | 65285 | 24.0989 | ug/l | 96 |
| 12) Ethyl ether | 2.800 | 59 | 19636 | 17.8899 | ug/l | 97 |
| 13) Furan | 2.837 | 39 | 39202 | 17.8629 | ug/l | 90 |
| 14) 1,1,2-Trichloro-1,2,2-... | 2.995 | 101 | 30739 | 22.9265 | ug/l | 88 |
| 15) Methylene Chloride | 3.410 | 84 | 31370 | 19.2887 | ug/l | 98 |
| 16) Acrolein | 2.916 | 56 | 20460 | 67.4600 | ug/l | 98 |
| 17) Acrylonitrile | 3.617 | 53 | 14588 | 17.3077 | ug/l | 96 |
| 18) Iodomethane | 3.148 | 142 | 32898 | 19.7869 | ug/l | 96 |
| 19) Acetone | 3.044 | 43 | 56750 | 87.1561 | ug/l | 96 |
| 20) Carbon Disulfide | 3.215 | 76 | 83919 | 19.6094 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.483 | 59 | 20009 | 83.6536 | ug/l | 90 |
| 22) n-Hexane | 3.873 | 57 | 26006 | 16.1625 | ug/l | 91 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 92600 | 17.5883 | ug/l | 96 |
| 24) 1,1-Dichloroethene | 3.008 | 61 | 40437 | 18.1770 | ug/l | 98 |
| 25) Methyl Acetate | 3.319 | 43 | 39254 | 20.0024 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 81081 | 17.5618 | ug/l | 94 |
| 27) 1,1-Dichloroethane | 4.001 | 63 | 51434 | 18.7414 | ug/l | 96 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 33715 | 20.9830 | ug/l | 96 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 76544 | 17.1072 | ug/l | 97 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 50609 | 17.8119 | ug/l | 90 |
| 31) Bromochloromethane | 4.568 | 49 | 25797 | 18.9437 | ug/l | 81 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 27908 | 12.0380 | ug/l | 95 |
| 33) Ethyl acetate | 4.440 | 43 | 35281m | 16.3451 | ug/l | |
| 34) 1,4-Dioxane | 5.489 | 88 | 33541 | 1141.7448 | ug/l | 97 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 43278 | 20.0518 | ug/l | 93 |
| 36) Chloroform | 4.605 | 83 | 61518 | 21.7056 | ug/l | 98 |
| 38) Cyclohexane | 4.769 | 56 | 41033 | 18.5469 | ug/l | 99 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 43863 | 18.4014 | ug/l | 96 |
| 41) 2-Butanone | 4.410 | 43 | 17330m | 15.7504 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 56399 | 22.2561 | ug/l | 99 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 51536 | 22.8857 | ug/l | 97 |
| 44) Vinyl Acetate | 4.026 | 43 | 73105 | 12.7355 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 43536 | 19.5626 | ug/l | 95 |
| 46) Methylcyclohexane | 5.416 | 83 | 40428 | 20.7857 | ug/l | 99 |
| 47) Dibromomethane | 5.495 | 174 | 38578 | 29.1023 | ug/l | 98 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 30453 | 18.6742 | ug/l | 99 |
| 49) Trichloroethene | 5.300 | 130 | 47921 | 26.7161 | ug/l | 95 |
| 50) Benzene | 4.946 | 78 | 124927 | 19.7400 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 81152 | 17.6838 | ug/l | 95 |
| 53) Iso-propylacetate | 4.946 | 43 | 63155 | 13.2669 | ug/l | 93 |
| 54) Methyl methacrylate | 5.458 | 41 | 33684 | 16.3991 | ug/l | 94 |
| 55) Dibromochloromethane | 6.422 | 129 | 42904 | 19.7370 | ug/l | 95 |
| 56) 2-Chloroethylvinylether | 5.708 | 63 | 15355 | 10.5624 | ug/l | 92 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 42793 | 14.0339 | ug/l | 98 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 39480 | 13.9546 | ug/l | 99 |
| 59) Ethyl methacrylate | 6.111 | 41 | 26454 | 12.5958 | ug/l | 86 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 33492 | 18.0308 | ug/l | 94 |
| 61) 1,2-Dibromoethane | 6.495 | 107 | 37778 | 18.6152 | ug/l | 98 |
| 62) 1,3-Dichloropropane | 6.288 | 76 | 49816 | 16.0457 | ug/l | 100 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 35929 | 14.1701 | ug/l | 96 |
| 64) 2-Hexanone | 6.306 | 43 | 27069 | 14.2668 | ug/l | 91 |
| 65) Tetrachloroethene | 6.288 | 164 | 42750 | 24.6705 | ug/l | 100 |
| 67) Toluene | 5.989 | 92 | 87742 | 18.1724 | ug/l | 97 |

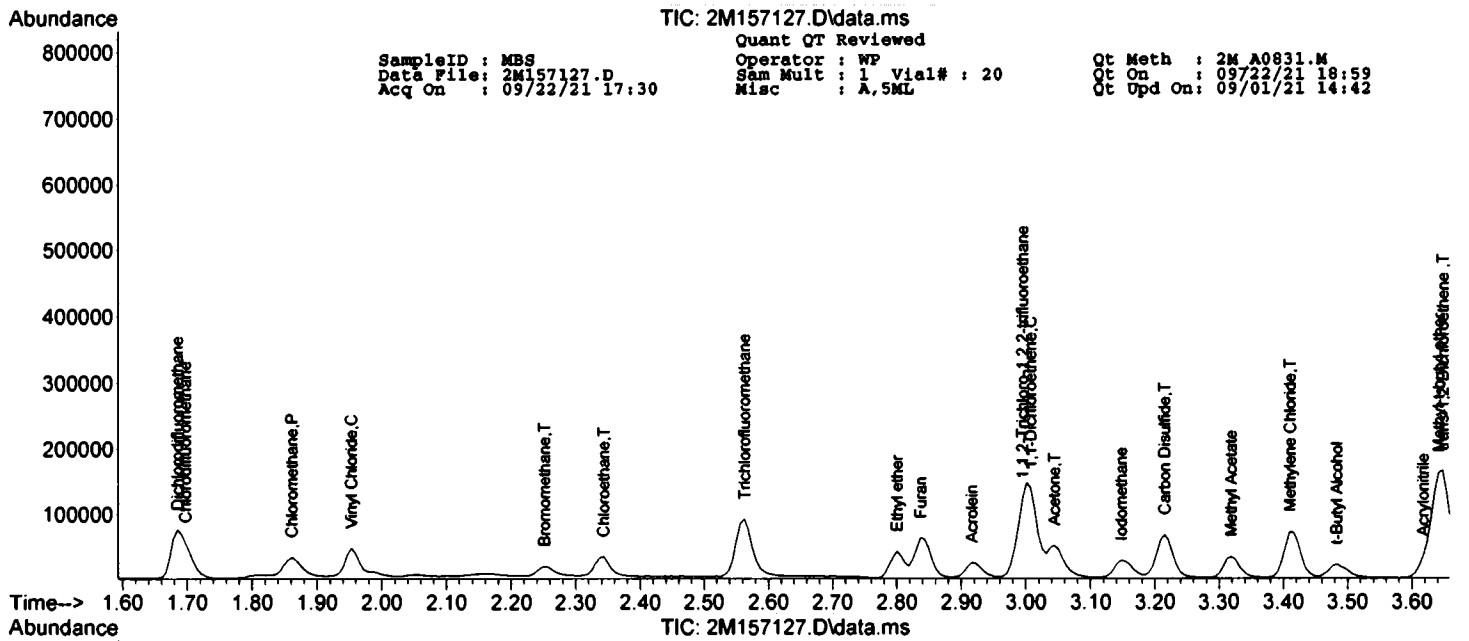
Quantitation Report (QT Reviewed)

SampleID : MBS | Operator : WP | Qt Meth : 2M_A0831.M
Data File: 2M157127.D | Sam Mult : 1 Vial# : 20 | Qt On : 09/22/21 18:59
Acq On : 09/22/21 17:30 | Misc : A,5ML | Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 6.781 | 133 | 38545 | 20.0564 | ug/l | 98 |
| 69) | Chlorobenzene | 6.751 | 112 | 105256 | 19.6174 | ug/l | 99 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 47515 | 10.1627 | ug/l | 98 |
| 72) | n-Amyl acetate | 7.111 | 43 | 41803 | 9.1125 | ug/l | 94 |
| 73) | Bromoform | 7.202 | 173 | 35887 | 17.3725 | ug/l | 99 |
| 74) | Ethylbenzene | 6.787 | 106 | 42552 | 15.5558 | ug/l | 91 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.421 | 83 | 43338 | 13.8696 | ug/l | 93 |
| 77) | Styrene | 7.074 | 104 | 103356 | 15.5772 | ug/l | 99 |
| 78) | m&p-Xylenes | 6.848 | 106 | 130581 | 32.1131 | ug/l | 97 |
| 79) | o-Xylene | 7.074 | 106 | 62926 | 16.1896 | ug/l | 93 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 12308 | 9.3030 | ug/l | 81 |
| 81) | 1,3-Dichlorobenzene | 7.988 | 146 | 83956 | 19.1669 | ug/l | 96 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 85458 | 19.0691 | ug/l | 96 |
| 83) | 1,2-Dichlorobenzene | 8.263 | 146 | 77697 | 18.4855 | ug/l | 95 |
| 84) | Isopropylbenzene | 7.263 | 105 | 153059 | 16.9467 | ug/l | 97 |
| 85) | Cyclohexanone | 7.342 | 55 | 7569 | 55.2431 | ug/l | 96 |
| 86) | Camphene | 7.434 | 93 | 35261 | 16.0446 | ug/l | 91 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 48948 | 12.2609 | ug/l | 84 |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 84912 | 15.5730 | ug/l | 97 |
| 89) | p-Ethyltoluene | 7.549 | 105 | 136625 | 15.0047 | ug/l | 99 |
| 90) | 4-Chlorotoluene | 7.617 | 91 | 81483 | 14.8759 | ug/l | 95 |
| 91) | n-Propylbenzene | 7.489 | 91 | 159384 | 15.6649 | ug/l | 95 |
| 92) | Bromobenzene | 7.464 | 77 | 80768 | 13.7897 | ug/l | 79 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 117765 | 18.4622 | ug/l | 96 |
| 94) | Butyl methacrylate | 7.586 | 41 | 35283 | 11.0437 | ug/l | 86 |
| 95) | t-Butylbenzene | 7.775 | 119 | 117610 | 17.7367 | ug/l | 93 |
| 96) | 1,2,4-Trimethylbenzene | 7.799 | 105 | 115906 | 15.9493 | ug/l | 95 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 131094 | 16.7936 | ug/l | 94 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 116725 | 17.8298 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.208 | 91 | 108765 | 15.8101 | ug/l | 95 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 65099 | 17.3100 | ug/l | 94 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 73004 | 15.8263 | ug/l | 99 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 13840 | 17.6869 | ug/l | 84 |
| 103) | Camphor | 9.147 | 95 | 52459 | 149.8212 | ug/l | 95 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 26324 | 24.5937 | ug/l | 95 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 46351 | 21.3893 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 41156 | 21.1444 | ug/l | 95 |
| 107) | Naphthalene | 9.360 | 128 | 116541 | 17.2178 | ug/l | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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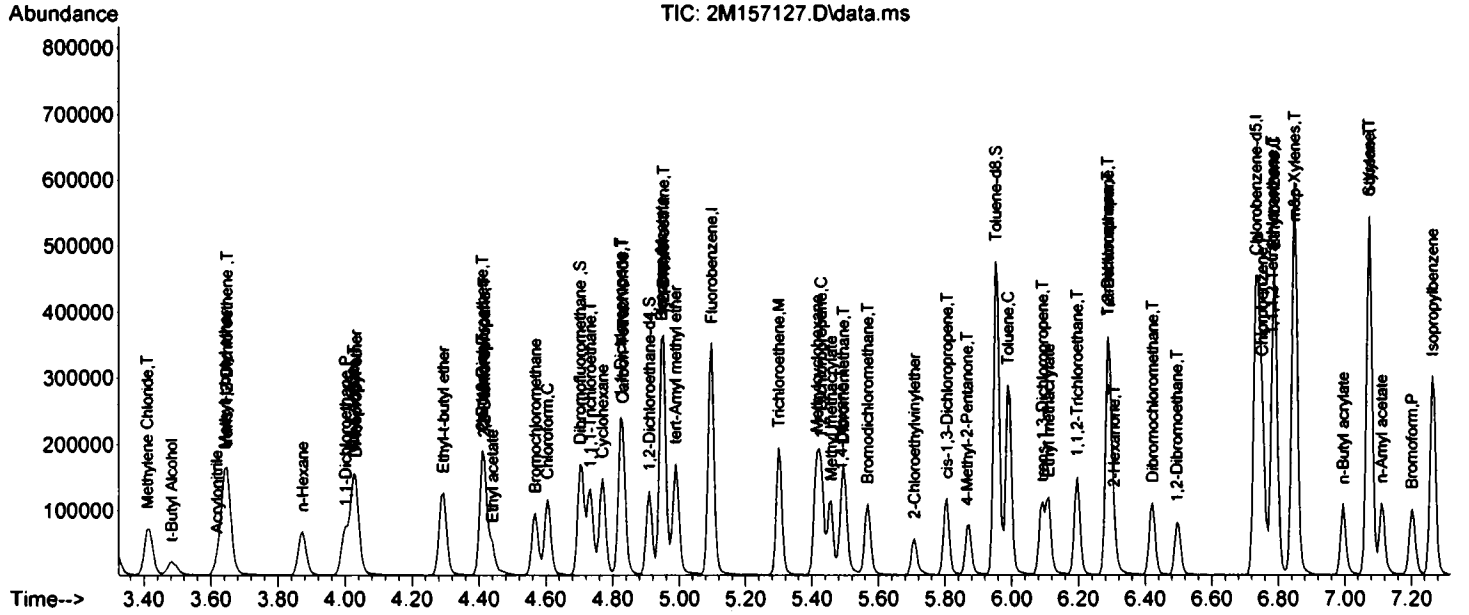
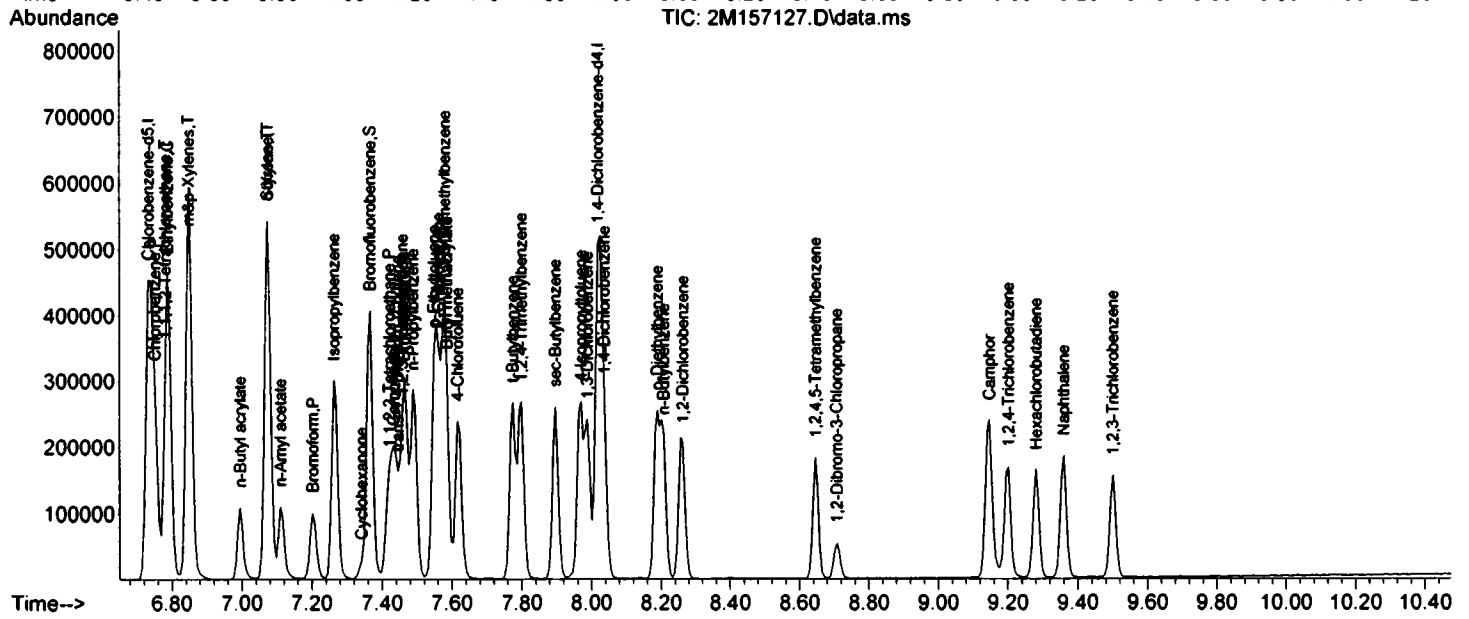
Quant QT Reviewed
SampleID : MBS
Data File: 2M157127.D
Acq On : 09/22/21 17:30
Operator : WP
Sam Mult : 1 Vial# : 20
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:59
Qt Upd On: 09/01/21 14:42
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 2M157127.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M157127.D\data.ms
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
4-Chlorotoluene
1,4-Dichlorobenzene-d4,I
sec-Butylbenzene
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96792

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152879.D | MBS96792 | 9/23/2021 3:21:00 AM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 11.568 | 0 | 20 | 58 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 50.9151 | 0 | 20 | 255* | 50 | 150 |
| **Chloromethane** | 1 | 32.1235 | 0 | 20 | 161* | 50 | 150 |
| **Bromomethane** | 1 | 8.7403 | 0 | 20 | 44* | 50 | 150 |
| **Vinyl Chloride** | 1 | 30.7824 | 0 | 20 | 154* | 50 | 150 |
| **Chloroethane** | 1 | 26.7436 | 0 | 20 | 134 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 26.2655 | 0 | 20 | 131 | 50 | 150 |
| Ethyl ether | 1 | 23.3139 | 0 | 20 | 117 | 50 | 150 |
| Furan | 1 | 25.7808 | 0 | 20 | 129 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 25.5749 | 0 | 20 | 128 | 50 | 150 |
| **Methylene Chloride** | 1 | 19.2204 | 0 | 20 | 96 | 70 | 130 |
| Acrolein | 1 | 141.8235 | 0 | 100 | 142 | 50 | 150 |
| Acrylonitrile | 1 | 28.5217 | 0 | 20 | 143 | 50 | 150 |
| Iodomethane | 1 | 14.5923 | 0 | 20 | 73 | 50 | 150 |
| **Acetone** | 1 | 135.4613 | 0 | 100 | 135 | 50 | 150 |
| **Carbon Disulfide** | 1 | 29.1589 | 0 | 20 | 146 | 50 | 150 |
| t-Butyl Alcohol | 1 | 127.2754 | 0 | 100 | 127 | 50 | 150 |
| n-Hexane | 1 | 31.5708 | 0 | 20 | 158* | 70 | 130 |
| Di-isopropyl-ether | 1 | 28.4821 | 0 | 20 | 142* | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 21.4718 | 0 | 20 | 107 | 70 | 130 |
| **Methyl Acetate** | 1 | 29.0945 | 0 | 20 | 145 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 22.017 | 0 | 20 | 110 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 22.5272 | 0 | 20 | 113 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 19.3767 | 0 | 20 | 97 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 23.4044 | 0 | 20 | 117 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 22.6666 | 0 | 20 | 113 | 70 | 130 |
| **Bromochloromethane** | 1 | 24.0251 | 0 | 20 | 120 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 20.9449 | 0 | 20 | 105 | 70 | 130 |
| Ethyl acetate | 1 | 24.9896 | 0 | 20 | 125 | 50 | 150 |
| **1,4-Dioxane** | 1 | 1004.219 | 0 | 1000 | 100 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 20.5434 | 0 | 20 | 103 | 70 | 130 |
| **Chloroform** | 1 | 20.8445 | 0 | 20 | 104 | 70 | 130 |
| **Cyclohexane** | 1 | 27.2085 | 0 | 20 | 136* | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 21.5857 | 0 | 20 | 108 | 70 | 130 |
| **2-Butanone** | 1 | 25.6262 | 0 | 20 | 128 | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 20.7628 | 0 | 20 | 104 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 19.7296 | 0 | 20 | 99 | 50 | 150 |
| Vinyl Acetate | 1 | 26.8786 | 0 | 20 | 134 | 50 | 150 |
| **Bromodichloromethane** | 1 | 20.2231 | 0 | 20 | 101 | 70 | 130 |
| **Methylcyclohexane** | 1 | 22.3941 | 0 | 20 | 112 | 70 | 130 |
| Dibromomethane | 1 | 18.3489 | 0 | 20 | 92 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 22.3893 | 0 | 20 | 112 | 70 | 130 |
| **Trichloroethene** | 1 | 19.1547 | 0 | 20 | 96 | 70 | 130 |
| **Benzene** | 1 | 19.1869 | 0 | 20 | 96 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 20.1458 | 0 | 20 | 101 | 70 | 130 |
| Iso-propylacetate | 1 | 25.4612 | 0 | 20 | 127 | 70 | 130 |
| Methyl methacrylate | 1 | 24.6481 | 0 | 20 | 123 | 70 | 130 |
| **Dibromochloromethane** | 1 | 17.186 | 0 | 20 | 86 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 19.821 | 0 | 20 | 99 | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 18.3866 | 0 | 20 | 92 | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 18.3628 | 0 | 20 | 92 | 70 | 130 |
| Ethyl methacrylate | 1 | 24.8878 | 0 | 20 | 124 | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 18.8101 | 0 | 20 | 94 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 17.9136 | 0 | 20 | 90 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 18.7768 | 0 | 20 | 94 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 25.5538 | 0 | 20 | 128 | 50 | 150 |
| **2-Hexanone** | 1 | 26.2584 | 0 | 20 | 131 | 50 | 150 |
| **Tetrachloroethene** | 1 | 18.1082 | 0 | 20 | 91 | 50 | 150 |
| **Toluene** | 1 | 17.8498 | 0 | 20 | 89 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 17.7212 | 0 | 20 | 89 | 70 | 130 |
| **Chlorobenzene** | 1 | 17.9467 | 0 | 20 | 90 | 70 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96792

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 21.9079 | 0 | 20 | 110 | 70 | 130 |
| n-Amyl acetate | 1 | 24.6101 | 0 | 20 | 123 | 70 | 130 |
| **Bromoform** | **1** | **16.391** | **0** | **20** | **82** | **70** | **130** |
| **Ethylbenzene** | **1** | **18.9356** | **0** | **20** | **95** | **70** | **130** |
| **1,1,2,2-Tetrachloroethane** | **1** | **19.5661** | **0** | **20** | **98** | **70** | **130** |
| **Styrene** | **1** | **18.3596** | **0** | **20** | **92** | **70** | **130** |
| **m&p-Xylenes** | **1** | **36.9451** | **0** | **40** | **92** | **70** | **130** |
| **o-Xylene** | **1** | **18.2035** | **0** | **20** | **91** | **70** | **130** |
| trans-1,4-Dichloro-2-butene | 1 | 19.8105 | 0 | 20 | 99 | 50 | 150 |
| **1,3-Dichlorobenzene** | **1** | **18.5073** | **0** | **20** | **93** | **70** | **130** |
| **1,4-Dichlorobenzene** | **1** | **17.6899** | **0** | **20** | **88** | **70** | **130** |
| **1,2-Dichlorobenzene** | **1** | **18.105** | **0** | **20** | **91** | **70** | **130** |
| **Isopropylbenzene** | **1** | **19.0807** | **0** | **20** | **95** | **70** | **130** |
| Cyclohexanone | 1 | 95.2025 | 0 | 100 | 95 | 50 | 150 |
| Camphene | 1 | 21.311 | 0 | 20 | 107 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 18.2238 | 0 | 20 | 91 | 70 | 130 |
| 2-Chlorotoluene | 1 | 19.178 | 0 | 20 | 96 | 70 | 130 |
| p-Ethyltoluene | 1 | 19.2636 | 0 | 20 | 96 | 70 | 130 |
| 4-Chlorotoluene | 1 | 18.8524 | 0 | 20 | 94 | 70 | 130 |
| n-Propylbenzene | 1 | 19.8592 | 0 | 20 | 99 | 70 | 130 |
| Bromobenzene | 1 | 20.7212 | 0 | 20 | 104 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 18.773 | 0 | 20 | 94 | 70 | 130 |
| Butyl methacrylate | 1 | 26.3743 | 0 | 20 | 132* | 70 | 130 |
| t-Butylbenzene | 1 | 18.812 | 0 | 20 | 94 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 18.6994 | 0 | 20 | 93 | 70 | 130 |
| sec-Butylbenzene | 1 | 19.5485 | 0 | 20 | 98 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 18.5233 | 0 | 20 | 93 | 70 | 130 |
| n-Butylbenzene | 1 | 20.2084 | 0 | 20 | 101 | 70 | 130 |
| p-Diethylbenzene | 1 | 18.5341 | 0 | 20 | 93 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 15.9395 | 0 | 20 | 80 | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | **1** | **18.2273** | **0** | **20** | **91** | **50** | **150** |
| Camphor | 1 | 172.7491 | 0 | 200 | 86 | 20 | 150 |
| Hexachlorobutadiene | 1 | 19.468 | 0 | 20 | 97 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | **1** | **18.4556** | **0** | **20** | **92** | **70** | **130** |
| **1,2,3-Trichlorobenzene** | **1** | **19.7098** | **0** | **20** | **99** | **70** | **130** |
| Naphthalene | 1 | 18.5993 | 0 | 20 | 93 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

SampleID : MBS Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152879.D Sam Mult : 1 Vial# : 22 Qt On : 09/23/21 12:04
Acq On : 09/23/21 03:21 Misc : A,5ML Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 88432 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 72523 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 40091 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 24537 | 31.74 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 105.80% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 14064 | 33.46 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 111.53% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 90673 | 29.38 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.93% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 30713 | 29.55 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 98.50% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.091 | 51 | 12643m | 11.5680 | ug/l | |
| 6) Dichlorodifluoromethane | 2.075 | 85 | 23593 | 50.9151 | ug/l | 88 |
| 7) Chloromethane | 2.248 | 50 | 25431m | 32.1235 | ug/l | |
| 8) Bromomethane | 2.609 | 94 | 3716 | 8.7403 | ug/l | 98 |
| 9) Vinyl Chloride | 2.329 | 62 | 23533 | 30.7824 | ug/l | 90 |
| 10) Chloroethane | 2.689 | 64 | 13522 | 26.7436 | ug/l | 96 |
| 11) Trichlorofluoromethane | 2.898 | 101 | 29524 | 26.2655 | ug/l | 98 |
| 12) Ethyl ether | 3.113 | 59 | 11845 | 23.3139 | ug/l | 73 |
| 13) Furan | 3.149 | 39 | 24509 | 25.7808 | ug/l | 64 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.303 | 101 | 13264m | 25.5749 | ug/l | |
| 15) Methylene Chloride | 3.682 | 84 | 13872m | 19.2204 | ug/l | |
| 16) Acrolein | 3.216 | 56 | 13613 | 141.8235 | ug/l | 96 |
| 17) Acrylonitrile | 3.856 | 53 | 7293 | 28.5217 | ug/l | 96 |
| 18) Iodomethane | 3.445 | 142 | 10962 | 14.5923 | ug/l | 96 |
| 19) Acetone | 3.329 | 43 | 22946 | 135.4613 | ug/l | 89 |
| 20) Carbon Disulfide | 3.509 | 76 | 44833 | 29.1589 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.734 | 59 | 8972 | 127.2754 | ug/l | 68 |
| 22) n-Hexane | 4.113 | 57 | 20084 | 31.5708 | ug/l | 99 |
| 23) Di-isopropyl-ether | 4.255 | 45 | 58331 | 28.4821 | ug/l | 70 |
| 24) 1,1-Dichloroethene | 3.306 | 61 | 25621 | 21.4718 | ug/l | 86 |
| 25) Methyl Acetate | 3.586 | 43 | 15887 | 29.0945 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.898 | 73 | 38519 | 22.0170 | ug/l | 79 |
| 27) 1,1-Dichloroethane | 4.226 | 63 | 31177 | 22.5272 | ug/l | 93 |
| 28) trans-1,2-Dichloroethene | 3.908 | 96 | 14211 | 19.3767 | ug/l | 75 |
| 29) Ethyl-t-butyl ether | 4.506 | 59 | 50312 | 23.4044 | ug/l | 85 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 32279 | 22.6666 | ug/l | 76 |
| 31) Bromochloromethane | 4.769 | 49 | 17139 | 24.0251 | ug/l | 72 |
| 32) 2,2-Dichloropropane | 4.628 | 77 | 24296 | 20.9449 | ug/l | 94 |
| 33) Ethyl acetate | 4.637 | 43 | 17497m | 24.9896 | ug/l | |
| 34) 1,4-Dioxane | 5.695 | 88 | 7882 | 1004.2192 | ug/l | 81 |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 20176 | 20.5434 | ug/l | 92 |
| 36) Chloroform | 4.801 | 83 | 28113 | 20.8445 | ug/l | 99 |
| 38) Cyclohexane | 4.981 | 56 | 25911 | 27.2085 | ug/l | 72 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 25900 | 21.5857 | ug/l | 96 |
| 41) 2-Butanone | 4.628 | 43 | 10060m | 25.6262 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.936 | 97 | 25862 | 20.7628 | ug/l | 97 |
| 43) Carbon Tetrachloride | 5.036 | 117 | 20456 | 19.7296 | ug/l | 86 |
| 44) Vinyl Acetate | 4.252 | 43 | 54481 | 26.8786 | ug/l | 100 |
| 45) Bromodichloromethane | 5.766 | 83 | 20624 | 20.2231 | ug/l | 98 |
| 46) Methylcyclohexane | 5.628 | 83 | 17592 | 22.3941 | ug/l | 75 |
| 47) Dibromomethane | 5.695 | 174 | 9239 | 18.3489 | ug/l | 90 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 17263 | 22.3893 | ug/l | 96 |
| 49) Trichloroethene | 5.506 | 130 | 15500 | 19.1547 | ug/l | 93 |
| 50) Benzene | 5.152 | 78 | 54673 | 19.1869 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.194 | 73 | 36915 | 20.1458 | ug/l | 90 |
| 53) Iso-propylacetate | 5.145 | 43 | 33098 | 25.4612 | ug/l | 91 |
| 54) Methyl methacrylate | 5.657 | 41 | 13551 | 24.6481 | ug/l | 66 |
| 55) Dibromochloromethane | 6.637 | 129 | 13991 | 17.1860 | ug/l | 97 |
| 56) 2-Chloroethylvinylether | 5.911 | 63 | 9168 | 19.8210 | ug/l | 95 |
| 57) cis-1,3-Dichloropropene | 6.007 | 75 | 20879 | 18.3866 | ug/l | 96 |
| 58) trans-1,3-Dichloropropene | 6.297 | 75 | 19612 | 18.3628 | ug/l | 98 |
| 59) Ethyl methacrylate | 6.322 | 41 | 15342 | 24.8878 | ug/l | 61 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 12931 | 18.8101 | ug/l | 88 |
| 61) 1,2-Dibromoethane | 6.711 | 107 | 12663 | 17.9136 | ug/l | 95 |
| 62) 1,3-Dichloropropane | 6.499 | 76 | 21880 | 18.7768 | ug/l | 99 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 16253 | 25.5538 | ug/l | 91 |
| 64) 2-Hexanone | 6.518 | 43 | 11468 | 26.2584 | ug/l | 90 |
| 65) Tetrachloroethene | 6.506 | 164 | 12253 | 18.1082 | ug/l | 98 |
| 67) Toluene | 6.200 | 92 | 34954 | 17.8498 | ug/l | 96 |

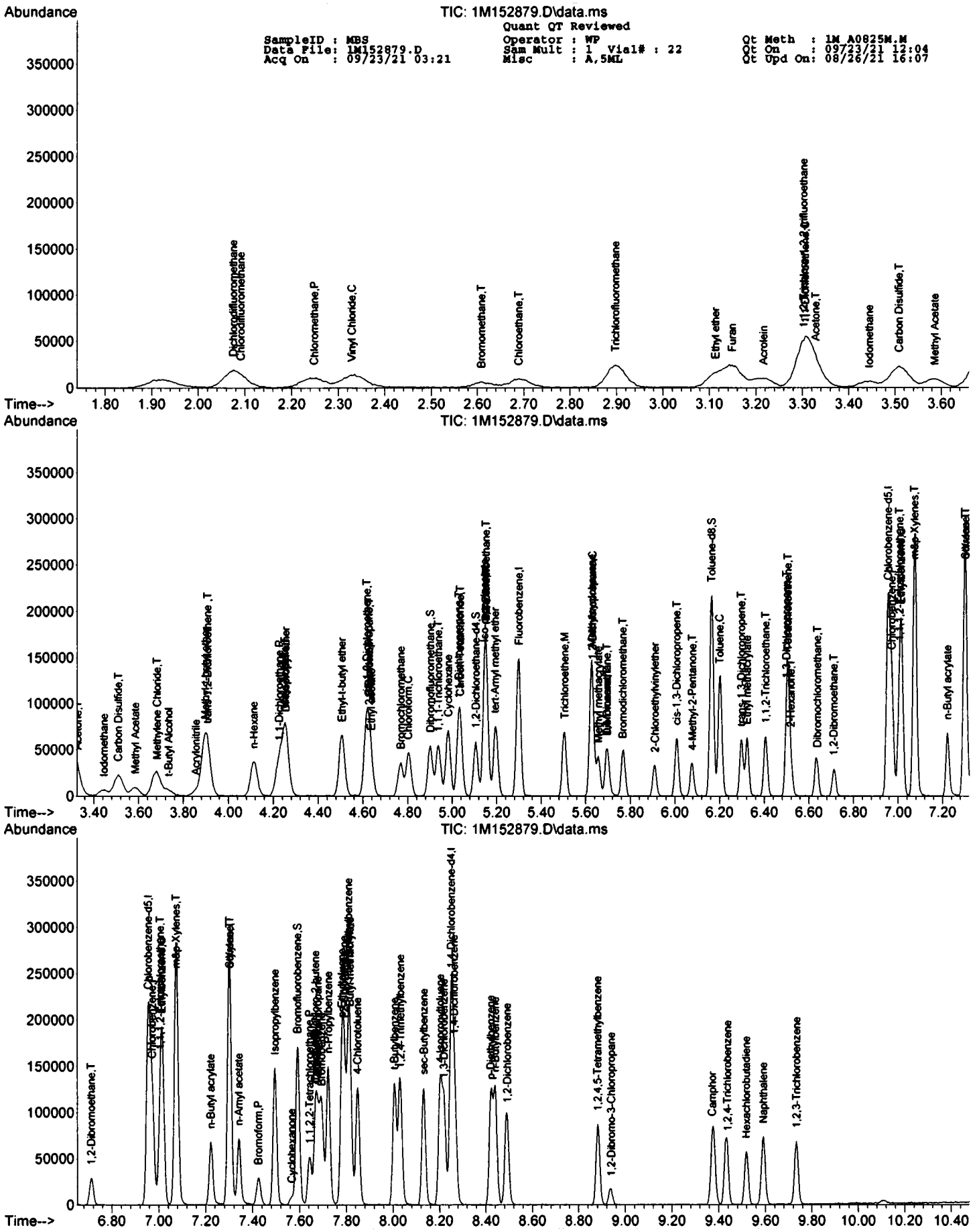
Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 1M152879.D
Acq On : 09/23/21 03:21
Operator : WP
Sam Mult : 1 Vial# : 22
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:04
Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 13328 | 17.7212 | ug/l | 96 |
| 69) | Chlorobenzene | 6.972 | 112 | 38893 | 17.9467 | ug/l | 94 |
| 71) | n-Butyl acrylate | 7.223 | 55 | 32089 | 21.9079 | ug/l | 85 |
| 72) | n-Amyl acetate | 7.341 | 43 | 28317 | 24.6101 | ug/l | 82 |
| 73) | Bromoform | 7.425 | 173 | 9064 | 16.3910 | ug/l | 94 |
| 74) | Ethylbenzene | 7.014 | 106 | 18744 | 18.9356 | ug/l | 85 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 16860 | 19.5661 | ug/l | 96 |
| 77) | Styrene | 7.303 | 104 | 43653 | 18.3596 | ug/l | 90 |
| 78) | m&p-Xylenes | 7.075 | 106 | 52189 | 36.9451 | ug/l | 95 |
| 79) | o-Xylene | 7.303 | 106 | 24918 | 18.2035 | ug/l | 80 |
| 80) | trans-1,4-Dichloro-2-b... | 7.669 | 53 | 7150 | 19.8105 | ug/l | 72 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 30898 | 18.5073 | ug/l | 94 |
| 82) | 1,4-Dichlorobenzene | 8.264 | 146 | 30511 | 17.6899 | ug/l | 98 |
| 83) | 1,2-Dichlorobenzene | 8.493 | 146 | 28881 | 18.1050 | ug/l | 98 |
| 84) | Isopropylbenzene | 7.496 | 105 | 63850 | 19.0807 | ug/l | 98 |
| 85) | Cyclohexanone | 7.567 | 55 | 3210 | 95.2025 | ug/l | 91 |
| 86) | Camphene | 7.669 | 93 | 16078 | 21.3110 | ug/l | 100 |
| 87) | 1,2,3-Trichloropropane | 7.679 | 75 | 20240 | 18.2238 | ug/l | 99 |
| 88) | 2-Chlorotoluene | 7.792 | 91 | 42120 | 19.1780 | ug/l | 91 |
| 89) | p-Ethyltoluene | 7.782 | 105 | 63910 | 19.2636 | ug/l | 95 |
| 90) | 4-Chlorotoluene | 7.850 | 91 | 41520 | 18.8524 | ug/l | 97 |
| 91) | n-Propylbenzene | 7.724 | 91 | 77843 | 19.8592 | ug/l | 96 |
| 92) | Bromobenzene | 7.695 | 77 | 39734 | 20.7212 | ug/l | 88 |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 51106 | 18.7730 | ug/l | 96 |
| 94) | Butyl methacrylate | 7.817 | 41 | 26214m | 26.3743 | ug/l | |
| 95) | t-Butylbenzene | 8.007 | 119 | 47570 | 18.8120 | ug/l | 96 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 52927 | 18.6994 | ug/l | 96 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 60625 | 19.5485 | ug/l | 97 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 48134 | 18.5233 | ug/l | 99 |
| 99) | n-Butylbenzene | 8.441 | 91 | 56626 | 20.2084 | ug/l | 95 |
| 100) | p-Diethylbenzene | 8.422 | 119 | 27666 | 18.5341 | ug/l | 97 |
| 101) | 1,2,4,5-Tetramethylben... | 8.882 | 119 | 32611 | 15.9395 | ug/l | 96 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.940 | 157 | 3262 | 18.2273 | ug/l | 99 |
| 103) | Camphor | 9.374 | 95 | 14594 | 172.7491 | ug/l | 99 |
| 104) | Hexachlorobutadiene | 9.518 | 225 | 7539 | 19.4680 | ug/l | 98 |
| 105) | 1,2,4-Trichlorobenzene | 9.438 | 180 | 16251 | 18.4556 | ug/l | 98 |
| 106) | 1,2,3-Trichlorobenzene | 9.734 | 180 | 13858 | 19.7098 | ug/l | 96 |
| 107) | Naphthalene | 9.592 | 128 | 39306 | 18.5993 | ug/l | 99 |

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


Abundance
TIC: 1M152879.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 1M152879.D
Acq On : 09/23/21 03:21
Operator : WP
Sam Mult : 1 Vial# : 22
Misc : A,5ML
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:04
Qt Upd On: 08/26/21 16:07
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->


Abundance
TIC: 1M152879.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
1,2-Dichloroethane-d4,S
Trichloroethene,M
Fluorobenzene,I
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
Time-->


Abundance
TIC: 1M152879.D\data.ms
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96795

| Data File | Sample ID: | Analysis Date |
|---|---|---|
| Spike or Dup: 2M157204.D | MBS96795 | 9/23/2021 6:21:00 PM |
| Non Spike(If applicable): | | |
| Inst Blank(If applicable): | | |

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 18.6109 | 0 | 20 | 93 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 34.6782 | 0 | 20 | 173* | 50 | 150 |
| **Chloromethane** | 1 | 18.4862 | 0 | 20 | 92 | 50 | 150 |
| **Bromomethane** | 1 | 11.4417 | 0 | 20 | 57 | 50 | 150 |
| **Vinyl Chloride** | 1 | 19.0498 | 0 | 20 | 95 | 50 | 150 |
| **Chloroethane** | 1 | 16.5637 | 0 | 20 | 83 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 19.5165 | 0 | 20 | 98 | 50 | 150 |
| Ethyl ether | 1 | 17.5236 | 0 | 20 | 88 | 50 | 150 |
| Furan | 1 | 17.6875 | 0 | 20 | 88 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 20.7978 | 0 | 20 | 104 | 50 | 150 |
| **Methylene Chloride** | 1 | 17.7763 | 0 | 20 | 89 | 70 | 130 |
| Acrolein | 1 | 75.2211 | 0 | 100 | 75 | 50 | 150 |
| Acrylonitrile | 1 | 15.068 | 0 | 20 | 75 | 50 | 150 |
| Iodomethane | 1 | 13.7716 | 0 | 20 | 69 | 50 | 150 |
| **Acetone** | 1 | 69.1049 | 0 | 100 | 69 | 50 | 150 |
| **Carbon Disulfide** | 1 | 14.394 | 0 | 20 | 72 | 50 | 150 |
| t-Butyl Alcohol | 1 | 69.838 | 0 | 100 | 70 | 50 | 150 |
| n-Hexane | 1 | 16.1152 | 0 | 20 | 81 | 70 | 130 |
| Di-isopropyl-ether | 1 | 14.8491 | 0 | 20 | 74 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 18.2539 | 0 | 20 | 91 | 70 | 130 |
| **Methyl Acetate** | 1 | 15.3297 | 0 | 20 | 77 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 15.13 | 0 | 20 | 76 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 16.9108 | 0 | 20 | 85 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 19.3219 | 0 | 20 | 97 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 15.1209 | 0 | 20 | 76 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 16.3364 | 0 | 20 | 82 | 70 | 130 |
| **Bromochloromethane** | 1 | 16.5463 | 0 | 20 | 83 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 16.3512 | 0 | 20 | 82 | 70 | 130 |
| Ethyl acetate | 1 | 14.0248 | 0 | 20 | 70 | 50 | 150 |
| **1,4-Dioxane** | 1 | 993.863 | 0 | 1000 | 99 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 18.1972 | 0 | 20 | 91 | 70 | 130 |
| **Chloroform** | 1 | 18.5895 | 0 | 20 | 93 | 70 | 130 |
| **Cyclohexane** | 1 | 16.3923 | 0 | 20 | 82 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 15.545 | 0 | 20 | 78 | 70 | 130 |
| **2-Butanone** | 1 | 14.2508 | 0 | 20 | 71 | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 19.8869 | 0 | 20 | 99 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 20.069 | 0 | 20 | 100 | 50 | 150 |
| Vinyl Acetate | 1 | 13.7193 | 0 | 20 | 69 | 50 | 150 |
| **Bromodichloromethane** | 1 | 16.2782 | 0 | 20 | 81 | 70 | 130 |
| **Methylcyclohexane** | 1 | 17.9516 | 0 | 20 | 90 | 70 | 130 |
| Dibromomethane | 1 | 24.7487 | 0 | 20 | 124 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 16.4017 | 0 | 20 | 82 | 70 | 130 |
| **Trichloroethene** | 1 | 22.8455 | 0 | 20 | 114 | 70 | 130 |
| **Benzene** | 1 | 17.1638 | 0 | 20 | 86 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 14.7109 | 0 | 20 | 74 | 70 | 130 |
| Iso-propylacetate | 1 | 10.9051 | 0 | 20 | 55* | 70 | 130 |
| Methyl methacrylate | 1 | 12.1089 | 0 | 20 | 61* | 70 | 130 |
| **Dibromochloromethane** | 1 | 15.585 | 0 | 20 | 78 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 10.4165 | 0 | 20 | 52* | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 12.6931 | 0 | 20 | 63* | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 12.4243 | 0 | 20 | 62* | 70 | 130 |
| Ethyl methacrylate | 1 | 11.7381 | 0 | 20 | 59* | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 14.8104 | 0 | 20 | 74 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 15.6718 | 0 | 20 | 78 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 14.0574 | 0 | 20 | 70 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 11.5628 | 0 | 20 | 58 | 50 | 150 |
| **2-Hexanone** | 1 | 11.8393 | 0 | 20 | 59 | 50 | 150 |
| **Tetrachloroethene** | 1 | 21.5151 | 0 | 20 | 108 | 50 | 150 |
| **Toluene** | 1 | 15.4162 | 0 | 20 | 77 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 16.9766 | 0 | 20 | 85 | 70 | 130 |
| **Chlorobenzene** | 1 | 16.9764 | 0 | 20 | 85 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96795

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 9.4963 | 0 | 20 | 47* | 70 | 130 |
| n-Amyl acetate | 1 | 9.5026 | 0 | 20 | 48* | 70 | 130 |
| **Bromoform** | 1 | 14.0297 | 0 | 20 | 70 | 70 | 130 |
| **Ethylbenzene** | 1 | 13.5586 | 0 | 20 | 68* | 70 | 130 |
| **1,1,2,2-Tetrachloroethane** | 1 | 12.2298 | 0 | 20 | 61* | 70 | 130 |
| **Styrene** | 1 | 13.6278 | 0 | 20 | 68* | 70 | 130 |
| **m&p-Xylenes** | 1 | 27.5453 | 0 | 40 | 69* | 70 | 130 |
| **o-Xylene** | 1 | 13.567 | 0 | 20 | 68* | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 8.9725 | 0 | 20 | 45* | 50 | 150 |
| **1,3-Dichlorobenzene** | 1 | 16.5496 | 0 | 20 | 83 | 70 | 130 |
| **1,4-Dichlorobenzene** | 1 | 16.4521 | 0 | 20 | 82 | 70 | 130 |
| **1,2-Dichlorobenzene** | 1 | 16.4541 | 0 | 20 | 82 | 70 | 130 |
| **Isopropylbenzene** | 1 | 14.4803 | 0 | 20 | 72 | 70 | 130 |
| Cyclohexanone | 1 | 53.4961 | 0 | 100 | 53 | 50 | 150 |
| Camphene | 1 | 13.5349 | 0 | 20 | 68* | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 10.7124 | 0 | 20 | 54* | 70 | 130 |
| 2-Chlorotoluene | 1 | 13.2647 | 0 | 20 | 66* | 70 | 130 |
| p-Ethyltoluene | 1 | 14.0955 | 0 | 20 | 70 | 70 | 130 |
| 4-Chlorotoluene | 1 | 12.4155 | 0 | 20 | 62* | 70 | 130 |
| n-Propylbenzene | 1 | 13.3427 | 0 | 20 | 67* | 70 | 130 |
| Bromobenzene | 1 | 11.8241 | 0 | 20 | 59* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 13.7821 | 0 | 20 | 69* | 70 | 130 |
| Butyl methacrylate | 1 | 10.5007 | 0 | 20 | 53* | 70 | 130 |
| t-Butylbenzene | 1 | 15.0036 | 0 | 20 | 75 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 13.7045 | 0 | 20 | 69* | 70 | 130 |
| sec-Butylbenzene | 1 | 14.241 | 0 | 20 | 71 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 15.2228 | 0 | 20 | 76 | 70 | 130 |
| n-Butylbenzene | 1 | 13.4026 | 0 | 20 | 67* | 70 | 130 |
| p-Diethylbenzene | 1 | 14.7471 | 0 | 20 | 74 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 13.0342 | 0 | 20 | 65* | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | 1 | 14.7851 | 0 | 20 | 74 | 50 | 150 |
| Camphor | 1 | 122.4195 | 0 | 200 | 61 | 20 | 150 |
| Hexachlorobutadiene | 1 | 21.0276 | 0 | 20 | 105 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | 1 | 19.3796 | 0 | 20 | 97 | 70 | 130 |
| **1,2,3-Trichlorobenzene** | 1 | 18.8182 | 0 | 20 | 94 | 70 | 130 |
| Naphthalene | 1 | 14.8854 | 0 | 20 | 74 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

SampleID : MBS Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157204.D Sam Mult : 1 Vial# : 14 Qt On : 09/23/21 18:50
Acq On : 09/23/21 18:21 Misc : A,5ML Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\09-2321\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 235622 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 211039 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 121364 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 69187 | 32.23 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 107.43% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 29921 | 25.65 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 85.50% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 239763 | 26.17 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 87.23% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 119697 | 32.44 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.13% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 48730 | 18.6109 | ug/l | 83 |
| 6) Dichlorodifluoromethane | 1.679 | 85 | 38844 | 34.6782 | ug/l | 100 |
| 7) Chloromethane | 1.855 | 50 | 27856 | 18.4862 | ug/l | 97 |
| 8) Bromomethane | 2.233 | 94 | 15522m | 11.4417 | ug/l | |
| 9) Vinyl Chloride | 1.953 | 62 | 32408 | 19.0498 | ug/l | 94 |
| 10) Chloroethane | 2.331 | 64 | 19359 | 16.5637 | ug/l | 92 |
| 11) Trichlorofluoromethane | 2.556 | 101 | 57437 | 19.5165 | ug/l | 98 |
| 12) Ethyl ether | 2.794 | 59 | 20895 | 17.5236 | ug/l | 99 |
| 13) Furan | 2.837 | 39 | 42169 | 17.6875 | ug/l | 93 |
| 14) 1,1,2-Trichloro-1,2,2-... | 2.995 | 101 | 30293 | 20.7978 | ug/l | 88 |
| 15) Methylene Chloride | 3.410 | 84 | 31407 | 17.7763 | ug/l | 95 |
| 16) Acrolein | 2.916 | 56 | 24784 | 75.2211 | ug/l | 91 |
| 17) Acrylonitrile | 3.623 | 53 | 13797 | 15.0680 | ug/l | 99 |
| 18) Iodomethane | 3.148 | 142 | 24746 | 13.7716 | ug/l | 97 |
| 19) Acetone | 3.044 | 43 | 48882 | 69.1049 | ug/l | 97 |
| 20) Carbon Disulfide | 3.209 | 76 | 66919 | 14.3940 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.489 | 59 | 18147 | 69.8380 | ug/l | 95 |
| 22) n-Hexane | 3.867 | 57 | 28169 | 16.1152 | ug/l | 93 |
| 23) Di-isopropyl-ether | 4.026 | 45 | 84930 | 14.8491 | ug/l | 97 |
| 24) 1,1-Dichloroethene | 3.001 | 61 | 44115 | 18.2539 | ug/l | 98 |
| 25) Methyl Acetate | 3.318 | 43 | 32682 | 15.3297 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 75886 | 15.1300 | ug/l | 96 |
| 27) 1,1-Dichloroethane | 3.995 | 63 | 50418 | 16.9108 | ug/l | 99 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 33727 | 19.3219 | ug/l | 94 |
| 29) Ethyl-t-butyl ether | 4.288 | 59 | 73499 | 15.1209 | ug/l | 99 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 50425 | 16.3364 | ug/l | 97 |
| 31) Bromochloromethane | 4.562 | 49 | 24478 | 16.5463 | ug/l | 94 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 41181 | 16.3512 | ug/l | 97 |
| 33) Ethyl acetate | 4.434 | 43 | 32887m | 14.0248 | ug/l | |
| 34) 1,4-Dioxane | 5.489 | 88 | 31718 | 993.8630 | ug/l | 97 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 42667 | 18.1972 | ug/l | 95 |
| 36) Chloroform | 4.605 | 83 | 57236 | 18.5895 | ug/l | 96 |
| 38) Cyclohexane | 4.769 | 56 | 39398 | 16.3923 | ug/l | 95 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 40254 | 15.5450 | ug/l | 99 |
| 41) 2-Butanone | 4.410 | 43 | 17034m | 14.2508 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 54747 | 19.8869 | ug/l | 99 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 49096 | 20.0690 | ug/l | 96 |
| 44) Vinyl Acetate | 4.020 | 43 | 85553 | 13.7193 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 39355 | 16.2782 | ug/l | 97 |
| 46) Methylcyclohexane | 5.416 | 83 | 37931 | 17.9516 | ug/l | 96 |
| 47) Dibromomethane | 5.495 | 174 | 35640 | 24.7487 | ug/l | 97 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 29057 | 16.4017 | ug/l | 99 |
| 49) Trichloroethene | 5.300 | 130 | 44517 | 22.8455 | ug/l | 93 |
| 50) Benzene | 4.946 | 78 | 118004 | 17.1638 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 73339 | 14.7109 | ug/l | 94 |
| 53) Iso-propylacetate | 4.946 | 43 | 56427 | 10.9051 | ug/l | 95 |
| 54) Methyl methacrylate | 5.452 | 41 | 27035 | 12.1089 | ug/l | 91 |
| 55) Dibromochloromethane | 6.422 | 129 | 36825 | 15.5850 | ug/l | 96 |
| 56) 2-Chloroethylvinylether | 5.708 | 63 | 16460 | 10.4165 | ug/l | 90 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 42071 | 12.6931 | ug/l | 100 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 38208 | 12.4243 | ug/l | 98 |
| 59) Ethyl methacrylate | 6.111 | 41 | 26797 | 11.7381 | ug/l | 88 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 29903 | 14.8104 | ug/l | 98 |
| 61) 1,2-Dibromoethane | 6.495 | 107 | 34571 | 15.6718 | ug/l | 98 |
| 62) 1,3-Dichloropropane | 6.287 | 76 | 47439 | 14.0574 | ug/l | 99 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 31868 | 11.5628 | ug/l | 92 |
| 64) 2-Hexanone | 6.306 | 43 | 24417 | 11.8393 | ug/l | 91 |
| 65) Tetrachloroethene | 6.287 | 164 | 40525 | 21.5151 | ug/l | 97 |
| 67) Toluene | 5.989 | 92 | 80908 | 15.4162 | ug/l | 99 |

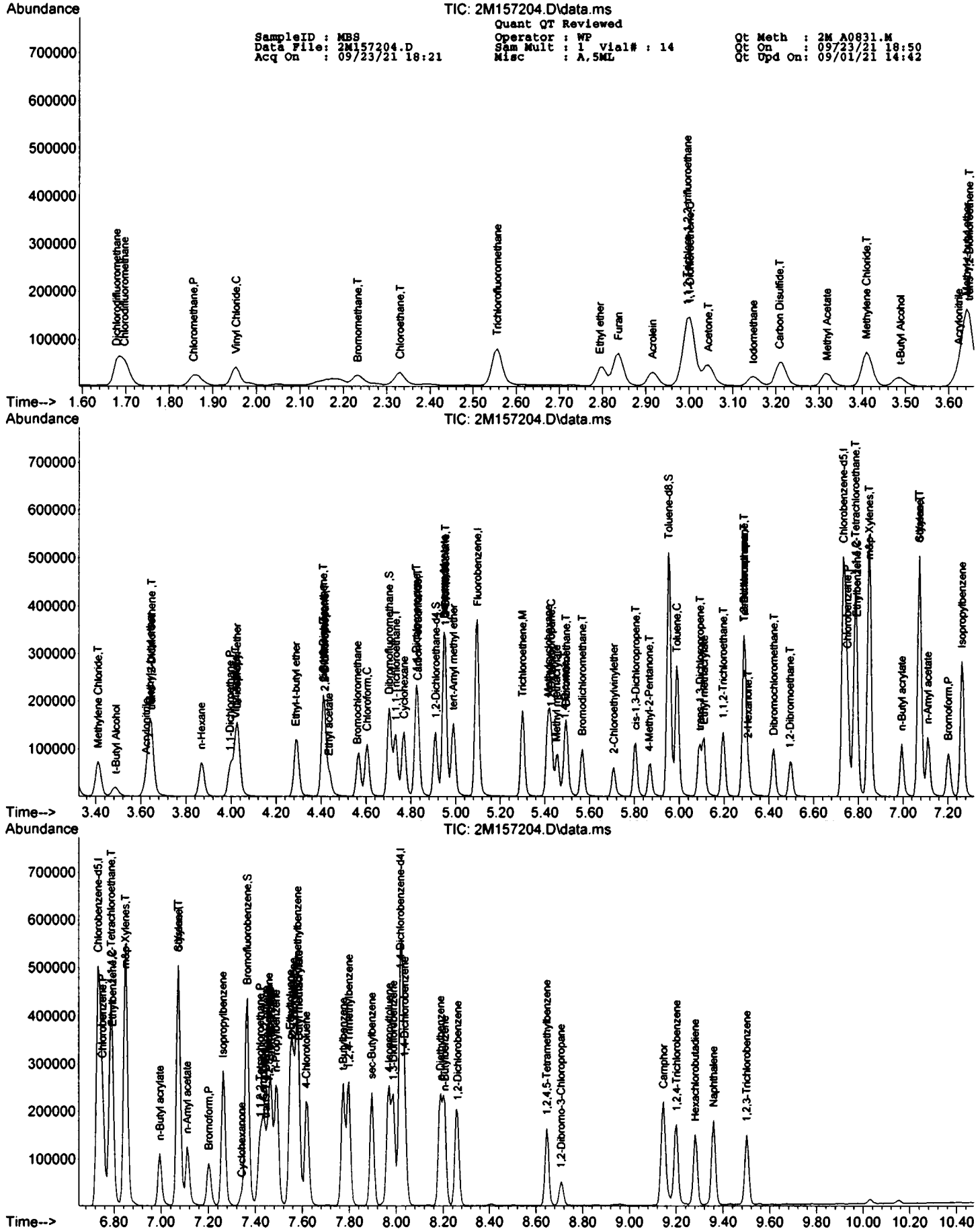
Quantitation Report (QT Reviewed)

SampleID : MBS | Operator : WP | Qt Meth : 2M_A0831.M
Data File: 2M157204.D | Sam Mult : 1 Vial# : 14 | Qt On : 09/23/21 18:50
Acq On : 09/23/21 18:21 | Misc : A,5ML | Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\09-2321\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | 1,1,1,2-Tetrachloroethane | 6.787 | 133 | 35464 | 16.9766 | ug/l | 96 |
| 69) | Chlorobenzene | 6.751 | 112 | 99008 | 16.9764 | ug/l | 97 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 48769 | 9.4963 | ug/l | 98 |
| 72) | n-Amyl acetate | 7.111 | 43 | 47883 | 9.5026 | ug/l | 94 |
| 73) | Bromoform | 7.202 | 173 | 31834 | 14.0297 | ug/l | 98 |
| 74) | Ethylbenzene | 6.793 | 106 | 40739 | 13.5586 | ug/l | 87 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.421 | 83 | 41975 | 12.2298 | ug/l | 96 |
| 77) | Styrene | 7.074 | 104 | 99321 | 13.6278 | ug/l | 99 |
| 78) | m&p-Xylenes | 6.848 | 106 | 123030 | 27.5453 | ug/l | 99 |
| 79) | o-Xylene | 7.074 | 106 | 57922 | 13.5670 | ug/l | 93 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 13039 | 8.9725 | ug/l | 84 |
| 81) | 1,3-Dichlorobenzene | 7.988 | 146 | 79626 | 16.5496 | ug/l | 96 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 80986 | 16.4521 | ug/l | 97 |
| 83) | 1,2-Dichlorobenzene | 8.263 | 146 | 75965 | 16.4541 | ug/l | 95 |
| 84) | Isopropylbenzene | 7.263 | 105 | 143654 | 14.4803 | ug/l | 96 |
| 85) | Cyclohexanone | 7.342 | 55 | 8051 | 53.4961 | ug/l | 96 |
| 86) | Camphene | 7.434 | 93 | 32673 | 13.5349 | ug/l | 92 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 46975 | 10.7124 | ug/l | 89 |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 79444 | 13.2647 | ug/l | 97 |
| 89) | p-Ethyltoluene | 7.549 | 105 | 140978 | 14.0955 | ug/l | 96 |
| 90) | 4-Chlorotoluene | 7.617 | 91 | 74699 | 12.4155 | ug/l | 96 |
| 91) | n-Propylbenzene | 7.488 | 91 | 149117 | 13.3427 | ug/l | 95 |
| 92) | Bromobenzene | 7.464 | 77 | 76071 | 11.8241 | ug/l | 80 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 96564 | 13.7821 | ug/l | 86 |
| 94) | Butyl methacrylate | 7.586 | 41 | 36850 | 10.5007 | ug/l | 84 |
| 95) | t-Butylbenzene | 7.775 | 119 | 109278 | 15.0036 | ug/l | 94 |
| 96) | 1,2,4-Trimethylbenzene | 7.799 | 105 | 109394 | 13.7045 | ug/l | 95 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 122108 | 14.2410 | ug/l | 92 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 109466 | 15.2228 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.208 | 91 | 101277 | 13.4026 | ug/l | 94 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 60919 | 14.7471 | ug/l | 92 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 66042 | 13.0342 | ug/l | 98 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 12708 | 14.7851 | ug/l | 82 |
| 103) | Camphor | 9.147 | 95 | 47083 | 122.4195 | ug/l | 96 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 24722 | 21.0276 | ug/l | 95 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 46129 | 19.3796 | ug/l | 98 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 40233 | 18.8182 | ug/l | 96 |
| 107) | Naphthalene | 9.360 | 128 | 110670 | 14.8854 | ug/l | 100 |

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


Abundance
TIC: 2M157204.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 2M157204.D
Acq On : 09/23/21 18:21
Operator : WP
Sam Mult : 1 Vial# : 14
Misc : A,5ML
Qt Meth : 2M_A0831.M
Qt On : 09/23/21 18:50
Qt Upd On: 09/01/21 14:42
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96770

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152719.D | AD25889-018(T:MS) | 9/21/2021 1:43:00 AM |
| Non Spike(If applicable): | 2M156856.D | AD25889-018(T) | 9/16/2021 1:51:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 13.0389 | 0 | 20 | 65 | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 11.5986 | 0 | 20 | 58 | 50 | 150 |
| **Chloromethane** | 1 | 11.4286 | 0 | 20 | 57 | 50 | 150 |
| **Bromomethane** | 1 | 7.8549 | 0 | 20 | 39* | 50 | 150 |
| **Vinyl Chloride** | 1 | 9.7315 | 0 | 20 | 49* | 50 | 150 |
| **Chloroethane** | 1 | 23.2689 | 0 | 20 | 116 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 22.5795 | 0 | 20 | 113 | 50 | 150 |
| Ethyl ether | 1 | 23.7746 | 0 | 20 | 119 | 50 | 150 |
| Furan | 1 | 23.1737 | 0 | 20 | 116 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| **Methylene Chloride** | 1 | 26.615 | 13.8364 | 20 | 64* | 70 | 130 |
| Acrolein | 1 | 94.3624 | 0 | 100 | 94 | 50 | 150 |
| Acrylonitrile | 1 | 10.158 | 0 | 20 | 51 | 50 | 150 |
| Iodomethane | 1 | 11.3153 | 0 | 20 | 57 | 50 | 150 |
| **Acetone** | 1 | 131.3329 | 5.5365 | 100 | 126 | 50 | 150 |
| **Carbon Disulfide** | 1 | 24.4908 | 0 | 20 | 122 | 50 | 150 |
| t-Butyl Alcohol | 1 | 124.2206 | 0 | 100 | 124 | 50 | 150 |
| n-Hexane | 1 | 26.8896 | 0 | 20 | 134* | 70 | 130 |
| Di-isopropyl-ether | 1 | 25.8277 | 0 | 20 | 129 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 23.7554 | 0 | 20 | 119 | 70 | 130 |
| **Methyl Acetate** | 1 | 24.6918 | 0 | 20 | 123 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 23.6835 | 0 | 20 | 118 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 23.2303 | 0 | 20 | 116 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 22.4055 | 0 | 20 | 112 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 24.4099 | 0 | 20 | 122 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 23.1602 | 0 | 20 | 116 | 70 | 130 |
| **Bromochloromethane** | 1 | 23.1172 | 0 | 20 | 116 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 22.7794 | 0 | 20 | 114 | 70 | 130 |
| Ethyl acetate | 1 | 30.555 | 0 | 20 | 153* | 50 | 150 |
| **1,4-Dioxane** | 1 | 1208.062 | 0 | 1000 | 121 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 23.3529 | 0 | 20 | 117 | 70 | 130 |
| **Chloroform** | 1 | 22.5977 | 0 | 20 | 113 | 70 | 130 |
| **Cyclohexane** | 1 | 26.0054 | 0 | 20 | 130 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 22.8421 | 0 | 20 | 114 | 70 | 130 |
| **2-Butanone** | 1 | 54.5414 | 0 | 20 | 273* | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 23.3056 | 0 | 20 | 117 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 20.985 | 0 | 20 | 105 | 50 | 150 |
| Vinyl Acetate | 1 | 23.3968 | 0 | 20 | 117 | 50 | 150 |
| **Bromodichloromethane** | 1 | 22.0033 | 0 | 20 | 110 | 70 | 130 |
| **Methylcyclohexane** | 1 | 25.4028 | 0 | 20 | 127 | 70 | 130 |
| Dibromomethane | 1 | 21.8978 | 0 | 20 | 109 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 23.5314 | 0 | 20 | 118 | 70 | 130 |
| **Trichloroethene** | 1 | 22.1268 | 0 | 20 | 111 | 70 | 130 |
| **Benzene** | 1 | 22.5468 | 0 | 20 | 113 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 22.9544 | 0 | 20 | 115 | 70 | 130 |
| Iso-propylacetate | 1 | 24.0647 | 0 | 20 | 120 | 70 | 130 |
| Methyl methacrylate | 1 | 25.3935 | 0 | 20 | 127 | 70 | 130 |
| **Dibromochloromethane** | 1 | 20.1929 | 0 | 20 | 101 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 23.499 | 0 | 20 | 117 | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 21.0405 | 0 | 20 | 105 | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 20.6375 | 0 | 20 | 103 | 70 | 130 |
| Ethyl methacrylate | 1 | 24.1814 | 0 | 20 | 121 | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 21.8804 | 0 | 20 | 109 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 21.6205 | 0 | 20 | 108 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 21.8493 | 0 | 20 | 109 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 24.2509 | 0 | 20 | 121 | 50 | 150 |
| **2-Hexanone** | 1 | 24.8393 | 0 | 20 | 124 | 50 | 150 |
| **Tetrachloroethene** | 1 | 21.2957 | 0 | 20 | 106 | 50 | 150 |
| **Toluene** | 1 | 21.7162 | 0 | 20 | 109 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 20.2475 | 0 | 20 | 101 | 70 | 130 |
| **Chlorobenzene** | 1 | 21.4133 | 0 | 20 | 107 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96770

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 20.5081 | 0 | 20 | 103 | 70 | 130 |
| n-Amyl acetate | 1 | 25.5671 | 0 | 20 | 128 | 70 | 130 |
| **Bromoform** | 1 | 18.6397 | 0 | 20 | 93 | 70 | 130 |
| **Ethylbenzene** | 1 | 21.2157 | 0 | 20 | 106 | 70 | 130 |
| **1,1,2,2-Tetrachloroethane** | 1 | 21.3407 | 0 | 20 | 107 | 70 | 130 |
| **Styrene** | 1 | 20.7229 | 0 | 20 | 104 | 70 | 130 |
| **m&p-Xylenes** | 1 | 42.7967 | 0 | 40 | 107 | 70 | 130 |
| **o-Xylene** | 1 | 20.6675 | 0 | 20 | 103 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 23.9089 | 0 | 20 | 120 | 50 | 150 |
| **1,3-Dichlorobenzene** | 1 | 19.8816 | 0 | 20 | 99 | 70 | 130 |
| **1,4-Dichlorobenzene** | 1 | 20.6181 | 0 | 20 | 103 | 70 | 130 |
| **1,2-Dichlorobenzene** | 1 | 19.9887 | 0 | 20 | 100 | 70 | 130 |
| **Isopropylbenzene** | 1 | 22.4491 | 0 | 20 | 112 | 70 | 130 |
| Cyclohexanone | 1 | 108.6402 | 0 | 100 | 109 | 50 | 150 |
| Camphene | 1 | 24.3612 | 0 | 20 | 122 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 19.681 | 0 | 20 | 98 | 70 | 130 |
| 2-Chlorotoluene | 1 | 21.2413 | 0 | 20 | 106 | 70 | 130 |
| p-Ethyltoluene | 1 | 21.1747 | 0 | 20 | 106 | 70 | 130 |
| 4-Chlorotoluene | 1 | 21.8336 | 0 | 20 | 109 | 70 | 130 |
| n-Propylbenzene | 1 | 24.7312 | 0 | 20 | 124 | 70 | 130 |
| Bromobenzene | 1 | 21.1679 | 0 | 20 | 106 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 21.3351 | 0 | 20 | 107 | 70 | 130 |
| Butyl methacrylate | 1 | 25.37 | 0 | 20 | 127 | 70 | 130 |
| t-Butylbenzene | 1 | 21.2137 | 0 | 20 | 106 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 21.7297 | 0 | 20 | 109 | 70 | 130 |
| sec-Butylbenzene | 1 | 22.0667 | 0 | 20 | 110 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 21.6648 | 0 | 20 | 108 | 70 | 130 |
| n-Butylbenzene | 1 | 23.8837 | 0 | 20 | 119 | 70 | 130 |
| p-Diethylbenzene | 1 | 22.6819 | 0 | 20 | 113 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 25.0194 | 0 | 20 | 125 | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | 1 | 20.8758 | 0 | 20 | 104 | 50 | 150 |
| Camphor | 1 | 209.8279 | 0 | 200 | 105 | 20 | 150 |
| Hexachlorobutadiene | 1 | 21.2479 | 0 | 20 | 106 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | 1 | 20.4887 | 0 | 20 | 102 | 70 | 130 |
| **1,2,3-Trichlorobenzene** | 1 | 21.1494 | 0 | 20 | 106 | 70 | 130 |
| Naphthalene | 1 | 22.2591 | 0 | 20 | 111 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96770

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152720.D | AD25889-018(T:MSD) | 9/21/2021 2:02:00 AM |
| Non Spike(If applicable): | 2M156856.D | AD25889-018(T) | 9/16/2021 1:51:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| **Dichlorodifluoromethane** | 1 | 5.2768 | 0 | 20 | 26* | 50 | 150 |
| **Chloromethane** | 1 | 6.4319 | 0 | 20 | 32* | 50 | 150 |
| **Bromomethane** | 1 | 9.4936 | 0 | 20 | 47* | 50 | 150 |
| **Vinyl Chloride** | 1 | 16.827 | 0 | 20 | 84 | 50 | 150 |
| **Chloroethane** | 1 | 20.4457 | 0 | 20 | 102 | 50 | 150 |
| **Trichlorofluoromethane** | 1 | 19.3786 | 0 | 20 | 97 | 50 | 150 |
| Ethyl ether | 1 | 20.4237 | 0 | 20 | 102 | 50 | 150 |
| Furan | 1 | 19.9187 | 0 | 20 | 100 | 50 | 150 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| **Methylene Chloride** | 1 | 23.5675 | 13.8364 | 20 | 49* | 70 | 130 |
| Acrolein | 1 | 86.9766 | 0 | 100 | 87 | 50 | 150 |
| Acrylonitrile | 1 | 23.1007 | 0 | 20 | 116 | 50 | 150 |
| Iodomethane | 1 | 12.7559 | 0 | 20 | 64 | 50 | 150 |
| **Acetone** | 1 | 115.8646 | 5.5365 | 100 | 110 | 50 | 150 |
| **Carbon Disulfide** | 1 | 20.7351 | 0 | 20 | 104 | 50 | 150 |
| t-Butyl Alcohol | 1 | 113.3382 | 0 | 100 | 113 | 50 | 150 |
| n-Hexane | 1 | 23.4887 | 0 | 20 | 117 | 70 | 130 |
| Di-isopropyl-ether | 1 | 22.458 | 0 | 20 | 112 | 70 | 130 |
| **1,1-Dichloroethene** | 1 | 20.4325 | 0 | 20 | 102 | 70 | 130 |
| **Methyl Acetate** | 1 | 22.2118 | 0 | 20 | 111 | 50 | 150 |
| **Methyl-t-butyl ether** | 1 | 21.0171 | 0 | 20 | 105 | 70 | 130 |
| **1,1-Dichloroethane** | 1 | 20.7153 | 0 | 20 | 104 | 70 | 130 |
| **trans-1,2-Dichloroethene** | 1 | 19.8307 | 0 | 20 | 99 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 21.6171 | 0 | 20 | 108 | 70 | 130 |
| **cis-1,2-Dichloroethene** | 1 | 20.8571 | 0 | 20 | 104 | 70 | 130 |
| **Bromochloromethane** | 1 | 20.5476 | 0 | 20 | 103 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 20.2132 | 0 | 20 | 101 | 70 | 130 |
| Ethyl acetate | 1 | 27.4543 | 0 | 20 | 137 | 50 | 150 |
| **1,4-Dioxane** | 1 | 1108.418 | 0 | 1000 | 111 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 20.3619 | 0 | 20 | 102 | 70 | 130 |
| **Chloroform** | 1 | 20.1021 | 0 | 20 | 101 | 70 | 130 |
| **Cyclohexane** | 1 | 23.0848 | 0 | 20 | 115 | 70 | 130 |
| **1,2-Dichloroethane** | 1 | 20.1793 | 0 | 20 | 101 | 70 | 130 |
| **2-Butanone** | 1 | 48.9989 | 0 | 20 | 245* | 50 | 150 |
| **1,1,1-Trichloroethane** | 1 | 20.136 | 0 | 20 | 101 | 70 | 130 |
| **Carbon Tetrachloride** | 1 | 19.0311 | 0 | 20 | 95 | 50 | 150 |
| Vinyl Acetate | 1 | 20.4376 | 0 | 20 | 102 | 50 | 150 |
| **Bromodichloromethane** | 1 | 19.8998 | 0 | 20 | 99 | 70 | 130 |
| **Methylcyclohexane** | 1 | 22.9303 | 0 | 20 | 115 | 70 | 130 |
| Dibromomethane | 1 | 20.2857 | 0 | 20 | 101 | 70 | 130 |
| **1,2-Dichloropropane** | 1 | 21.1768 | 0 | 20 | 106 | 70 | 130 |
| **Trichloroethene** | 1 | 19.774 | 0 | 20 | 99 | 70 | 130 |
| **Benzene** | 1 | 19.7312 | 0 | 20 | 99 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 20.3796 | 0 | 20 | 102 | 70 | 130 |
| Iso-propylacetate | 1 | 22.5665 | 0 | 20 | 113 | 70 | 130 |
| Methyl methacrylate | 1 | 23.0211 | 0 | 20 | 115 | 70 | 130 |
| **Dibromochloromethane** | 1 | 18.6178 | 0 | 20 | 93 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 20.5962 | 0 | 20 | 103 | 70 | 130 |
| **cis-1,3-Dichloropropene** | 1 | 19.2066 | 0 | 20 | 96 | 70 | 130 |
| **trans-1,3-Dichloropropene** | 1 | 18.8894 | 0 | 20 | 94 | 70 | 130 |
| Ethyl methacrylate | 1 | 22.6977 | 0 | 20 | 113 | 70 | 130 |
| **1,1,2-Trichloroethane** | 1 | 19.605 | 0 | 20 | 98 | 70 | 130 |
| **1,2-Dibromoethane** | 1 | 19.7913 | 0 | 20 | 99 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 19.6845 | 0 | 20 | 98 | 70 | 130 |
| **4-Methyl-2-Pentanone** | 1 | 23.1679 | 0 | 20 | 116 | 50 | 150 |
| **2-Hexanone** | 1 | 21.2015 | 0 | 20 | 106 | 50 | 150 |
| **Tetrachloroethene** | 1 | 19.334 | 0 | 20 | 97 | 50 | 150 |
| **Toluene** | 1 | 19.5503 | 0 | 20 | 98 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 18.8215 | 0 | 20 | 94 | 70 | 130 |
| **Chlorobenzene** | 1 | 19.1887 | 0 | 20 | 96 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96770

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 21.9823 | 0 | 20 | 110 | 70 | 130 |
| n-Amyl acetate | 1 | 22.1141 | 0 | 20 | 111 | 70 | 130 |
| **Bromoform** | **1** | **17.3375** | **0** | **20** | **87** | **70** | **130** |
| **Ethylbenzene** | **1** | **20.2945** | **0** | **20** | **101** | **70** | **130** |
| **1,1,2,2-Tetrachloroethane** | **1** | **20.5455** | **0** | **20** | **103** | **70** | **130** |
| **Styrene** | **1** | **19.5199** | **0** | **20** | **98** | **70** | **130** |
| **m&p-Xylenes** | **1** | **38.9242** | **0** | **40** | **97** | **70** | **130** |
| **o-Xylene** | **1** | **19.9241** | **0** | **20** | **100** | **70** | **130** |
| trans-1,4-Dichloro-2-butene | 1 | 20.3256 | 0 | 20 | 102 | 50 | 150 |
| **1,3-Dichlorobenzene** | **1** | **18.9131** | **0** | **20** | **95** | **70** | **130** |
| **1,4-Dichlorobenzene** | **1** | **19.0549** | **0** | **20** | **95** | **70** | **130** |
| **1,2-Dichlorobenzene** | **1** | **18.9214** | **0** | **20** | **95** | **70** | **130** |
| **Isopropylbenzene** | **1** | **20.5091** | **0** | **20** | **103** | **70** | **130** |
| Cyclohexanone | 1 | 87.7093 | 0 | 100 | 88 | 50 | 150 |
| Camphene | 1 | 22.4001 | 0 | 20 | 112 | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 18.0852 | 0 | 20 | 90 | 70 | 130 |
| 2-Chlorotoluene | 1 | 20.16 | 0 | 20 | 101 | 70 | 130 |
| p-Ethyltoluene | 1 | 19.9819 | 0 | 20 | 100 | 70 | 130 |
| 4-Chlorotoluene | 1 | 19.1354 | 0 | 20 | 96 | 70 | 130 |
| n-Propylbenzene | 1 | 21.5953 | 0 | 20 | 108 | 70 | 130 |
| Bromobenzene | 1 | 19.9557 | 0 | 20 | 100 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 20.277 | 0 | 20 | 101 | 70 | 130 |
| Butyl methacrylate | 1 | 22.5659 | 0 | 20 | 113 | 70 | 130 |
| t-Butylbenzene | 1 | 20.4275 | 0 | 20 | 102 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 20.2247 | 0 | 20 | 101 | 70 | 130 |
| sec-Butylbenzene | 1 | 20.706 | 0 | 20 | 104 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 20.9519 | 0 | 20 | 105 | 70 | 130 |
| n-Butylbenzene | 1 | 21.6383 | 0 | 20 | 108 | 70 | 130 |
| p-Diethylbenzene | 1 | 20.8716 | 0 | 20 | 104 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 20.7117 | 0 | 20 | 104 | 70 | 130 |
| **1,2-Dibromo-3-Chloropropane** | **1** | **19.7922** | **0** | **20** | **99** | **50** | **150** |
| Camphor | 1 | 198.5323 | 0 | 200 | 99 | 20 | 150 |
| Hexachlorobutadiene | 1 | 19.9108 | 0 | 20 | 100 | 50 | 150 |
| **1,2,4-Trichlorobenzene** | **1** | **19.6651** | **0** | **20** | **98** | **70** | **130** |
| **1,2,3-Trichlorobenzene** | **1** | **21.1001** | **0** | **20** | **106** | **70** | **130** |
| Naphthalene | 1 | 21.1026 | 0 | 20 | 106 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: MBS96770

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152720.D | AD25889-018(T:MSD) | 9/21/2021 2:02:00 AM |
| Duplicate(If applicable): | 1M152719.D | AD25889-018(T:MS) | 9/21/2021 1:43:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | 13.0389 | 200* | 30 |
| **Dichlorodifluoromethane** | 1 | 5.2768 | 11.5986 | 75* | 30 |
| **Chloromethane** | 1 | 6.4319 | 11.4286 | 56* | 30 |
| **Bromomethane** | 1 | 9.4936 | 7.8549 | 19 | 30 |
| **Vinyl Chloride** | 1 | 16.827 | 9.7315 | 53* | 40 |
| **Chloroethane** | 1 | 20.4457 | 23.2689 | 13 | 30 |
| **Trichlorofluoromethane** | 1 | 19.3786 | 22.5795 | 15 | 30 |
| Ethyl ether | 1 | 20.4237 | 23.7746 | 15 | 30 |
| Furan | 1 | 19.9187 | 23.1737 | 15 | 30 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | 1 | 0 | 0 | NA | 30 |
| **Methylene Chloride** | 1 | 23.5675 | 26.615 | 12 | 30 |
| Acrolein | 1 | 86.9766 | 94.3624 | 8.1 | 30 |
| Acrylonitrile | 1 | 23.1007 | 10.158 | 78* | 30 |
| Iodomethane | 1 | 12.7559 | 11.3153 | 12 | 30 |
| **Acetone** | 1 | 115.8646 | 131.3329 | 13 | 30 |
| **Carbon Disulfide** | 1 | 20.7351 | 24.4908 | 17 | 30 |
| t-Butyl Alcohol | 1 | 113.3382 | 124.2206 | 9.2 | 30 |
| n-Hexane | 1 | 23.4887 | 26.8896 | 14 | 30 |
| Di-isopropyl-ether | 1 | 22.458 | 25.8277 | 14 | 30 |
| **1,1-Dichloroethene** | 1 | 20.4325 | 23.7554 | 15 | 40 |
| **Methyl Acetate** | 1 | 22.2118 | 24.6918 | 11 | 30 |
| **Methyl-t-butyl ether** | 1 | 21.0171 | 23.6835 | 12 | 30 |
| **1,1-Dichloroethane** | 1 | 20.7153 | 23.2303 | 11 | 40 |
| **trans-1,2-Dichloroethene** | 1 | 19.8307 | 22.4055 | 12 | 30 |
| Ethyl-t-butyl ether | 1 | 21.6171 | 24.4099 | 12 | 30 |
| **cis-1,2-Dichloroethene** | 1 | 20.8571 | 23.1602 | 10 | 30 |
| **Bromochloromethane** | 1 | 20.5476 | 23.1172 | 12 | 30 |
| 2,2-Dichloropropane | 1 | 20.2132 | 22.7794 | 12 | 30 |
| Ethyl acetate | 1 | 27.4543 | 30.555 | 11 | 30 |
| **1,4-Dioxane** | 1 | 1108.418 | 1208.062 | 8.6 | 30 |
| 1,1-Dichloropropene | 1 | 20.3619 | 23.3529 | 14 | 30 |
| **Chloroform** | 1 | 20.1021 | 22.5977 | 12 | 40 |
| **Cyclohexane** | 1 | 23.0848 | 26.0054 | 12 | 30 |
| **1,2-Dichloroethane** | 1 | 20.1793 | 22.8421 | 12 | 40 |
| **2-Butanone** | 1 | 48.9989 | 54.5414 | 11 | 40 |
| **1,1,1-Trichloroethane** | 1 | 20.136 | 23.3056 | 15 | 30 |
| **Carbon Tetrachloride** | 1 | 19.0311 | 20.985 | 9.8 | 40 |
| Vinyl Acetate | 1 | 20.4376 | 23.3968 | 14 | 30 |
| **Bromodichloromethane** | 1 | 19.8998 | 22.0033 | 10 | 30 |
| **Methylcyclohexane** | 1 | 22.9303 | 25.4028 | 10 | 30 |
| Dibromomethane | 1 | 20.2857 | 21.8978 | 7.6 | 30 |
| **1,2-Dichloropropane** | 1 | 21.1768 | 23.5314 | 11 | 30 |
| **Trichloroethene** | 1 | 19.774 | 22.1268 | 11 | 40 |
| **Benzene** | 1 | 19.7312 | 22.5468 | 13 | 40 |
| tert-Amyl methyl ether | 1 | 20.3796 | 22.9544 | 12 | 30 |
| Iso-propylacetate | 1 | 22.5665 | 24.0647 | 6.4 | 30 |
| Methyl methacrylate | 1 | 23.0211 | 25.3935 | 9.8 | 30 |
| **Dibromochloromethane** | 1 | 18.6178 | 20.1929 | 8.1 | 30 |
| 2-Chloroethylvinylether | 1 | 20.5962 | 23.499 | 13 | 30 |
| **cis-1,3-Dichloropropene** | 1 | 19.2066 | 21.0405 | 9.1 | 30 |
| **trans-1,3-Dichloropropene** | 1 | 18.8894 | 20.6375 | 8.8 | 30 |
| Ethyl methacrylate | 1 | 22.6977 | 24.1814 | 6.3 | 30 |
| **1,1,2-Trichloroethane** | 1 | 19.605 | 21.8804 | 11 | 30 |
| **1,2-Dibromoethane** | 1 | 19.7913 | 21.6205 | 8.8 | 30 |
| 1,3-Dichloropropane | 1 | 19.6845 | 21.8493 | 10 | 30 |
| **4-Methyl-2-Pentanone** | 1 | 23.1679 | 24.2509 | 4.6 | 30 |
| **2-Hexanone** | 1 | 21.2015 | 24.8393 | 16 | 30 |
| **Tetrachloroethene** | 1 | 19.334 | 21.2957 | 9.7 | 40 |
| **Toluene** | 1 | 19.5503 | 21.7162 | 10 | 40 |
| 1,1,1,2-Tetrachloroethane | 1 | 18.8215 | 20.2475 | 7.3 | 30 |
| **Chlorobenzene** | 1 | 19.1887 | 21.4133 | 11 | 40 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: MBS96770

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 21.9823 | 20.5081 | 6.9 | 30 |
| n-Amyl acetate | 1 | 22.1141 | 25.5671 | 14 | 30 |
| **Bromoform** | **1** | **17.3375** | **18.6397** | **7.2** | **30** |
| **Ethylbenzene** | **1** | **20.2945** | **21.2157** | **4.4** | **30** |
| **1,1,2,2-Tetrachloroethane** | **1** | **20.5455** | **21.3407** | **3.8** | **30** |
| **Styrene** | **1** | **19.5199** | **20.7229** | **6** | **30** |
| **m&p-Xylenes** | **1** | **38.9242** | **42.7967** | **9.5** | **30** |
| **o-Xylene** | **1** | **19.9241** | **20.6675** | **3.7** | **30** |
| trans-1,4-Dichloro-2-butene | 1 | 20.3256 | 23.9089 | 16 | 30 |
| **1,3-Dichlorobenzene** | **1** | **18.9131** | **19.8816** | **5** | **30** |
| **1,4-Dichlorobenzene** | **1** | **19.0549** | **20.6181** | **7.9** | **40** |
| **1,2-Dichlorobenzene** | **1** | **18.9214** | **19.9887** | **5.5** | **40** |
| **Isopropylbenzene** | **1** | **20.5091** | **22.4491** | **9** | **30** |
| Cyclohexanone | 1 | 87.7093 | 108.6402 | 21 | 30 |
| Camphene | 1 | 22.4001 | 24.3612 | 8.4 | 30 |
| 1,2,3-Trichloropropane | 1 | 18.0852 | 19.681 | 8.5 | 30 |
| 2-Chlorotoluene | 1 | 20.16 | 21.2413 | 5.2 | 30 |
| p-Ethyltoluene | 1 | 19.9819 | 21.1747 | 5.8 | 30 |
| 4-Chlorotoluene | 1 | 19.1354 | 21.8336 | 13 | 30 |
| n-Propylbenzene | 1 | 21.5953 | 24.7312 | 14 | 40 |
| Bromobenzene | 1 | 19.9557 | 21.1679 | 5.9 | 30 |
| 1,3,5-Trimethylbenzene | 1 | 20.277 | 21.3351 | 5.1 | 30 |
| Butyl methacrylate | 1 | 22.5659 | 25.37 | 12 | 30 |
| t-Butylbenzene | 1 | 20.4275 | 21.2137 | 3.8 | 30 |
| 1,2,4-Trimethylbenzene | 1 | 20.2247 | 21.7297 | 7.2 | 30 |
| sec-Butylbenzene | 1 | 20.706 | 22.0667 | 6.4 | 40 |
| 4-Isopropyltoluene | 1 | 20.9519 | 21.6648 | 3.3 | 30 |
| n-Butylbenzene | 1 | 21.6383 | 23.8837 | 9.9 | 30 |
| p-Diethylbenzene | 1 | 20.8716 | 22.6819 | 8.3 | 30 |
| 1,2,4,5-Tetramethylbenzene | 1 | 20.7117 | 25.0194 | 19 | 30 |
| **1,2-Dibromo-3-Chloropropane** | **1** | **19.7922** | **20.8758** | **5.3** | **30** |
| Camphor | 1 | 198.5323 | 209.8279 | 5.5 | 30 |
| Hexachlorobutadiene | 1 | 19.9108 | 21.2479 | 6.5 | 30 |
| **1,2,4-Trichlorobenzene** | **1** | **19.6651** | **20.4887** | **4.1** | **30** |
| **1,2,3-Trichlorobenzene** | **1** | **21.1001** | **21.1494** | **0.23** | **30** |
| Naphthalene | 1 | 21.1026 | 22.2591 | 5.3 | 30 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Quantitation Report (Not Reviewed)

SampleID : AD25889-018(T:MS) Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152719.D Sam Mult : 1 Vial# : 12 Qt On : 09/21/21 11:31
Acq On : 09/21/21 01:43 Misc : A,5ML!18 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-20-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 107906 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 86420 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 48397 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 29150 | 30.90 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.00% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 16452 | 32.08 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.93% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 109657 | 29.81 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.37% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 38574 | 30.74 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 102.47% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.081 | 51 | 17390 | 13.0389 | ug/l | 43 |
| 6) Dichlorodifluoromethane | 2.068 | 85 | 6179 | 11.5986 | ug/l | 84 |
| 7) Chloromethane | 2.242 | 50 | 11040 | 11.4286 | ug/l | 90 |
| 8) Bromomethane | 2.618 | 94 | 4075 | 7.8549 | ug/l | 98 |
| 9) Vinyl Chloride | 2.329 | 62 | 9078 | 9.7315 | ug/l | 64 |
| 10) Chloroethane | 2.695 | 64 | 14356 | 23.2689 | ug/l | 87 |
| 11) Trichlorofluoromethane | 2.898 | 101 | 30970 | 22.5795 | ug/l | 85 |
| 12) Ethyl ether | 3.113 | 59 | 14739 | 23.7746 | ug/l | 75 |
| 13) Furan | 3.152 | 39 | 26882 | 23.1737 | ug/l | 74 |
| 15) Methylene Chloride | 3.676 | 84 | 23439 | 26.6150 | ug/l | 71 |
| 16) Acrolein | 3.216 | 56 | 11052 | 94.3624 | ug/l | 90 |
| 17) Acrylonitrile | 3.850 | 53 | 3162 | 10.1580 | ug/l | 88 |
| 18) Iodomethane | 3.448 | 142 | 10369 | 11.3153 | ug/l | 88 |
| 19) Acetone | 3.322 | 43 | 27146 | 131.3329 | ug/l | 85 |
| 20) Carbon Disulfide | 3.515 | 76 | 45948 | 24.4908 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.734 | 59 | 10685 | 124.2206 | ug/l | 73 |
| 22) n-Hexane | 4.113 | 57 | 20873 | 26.8896 | ug/l | 95 |
| 23) Di-isopropyl-ether | 4.258 | 45 | 64543 | 25.8277 | ug/l | 82 |
| 24) 1,1-Dichloroethene | 3.313 | 61 | 34588 | 23.7554 | ug/l | 95 |
| 25) Methyl Acetate | 3.583 | 43 | 16452 | 24.6918 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.895 | 73 | 50561 | 23.6835 | ug/l | 86 |
| 27) 1,1-Dichloroethane | 4.226 | 63 | 39230 | 23.2303 | ug/l | 90 |
| 28) trans-1,2-Dichloroethene | 3.904 | 96 | 20051 | 22.4055 | ug/l | 92 |
| 29) Ethyl-t-butyl ether | 4.509 | 59 | 64029 | 24.4099 | ug/l | 89 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 40245 | 23.1602 | ug/l | 85 |
| 31) Bromochloromethane | 4.769 | 49 | 20123 | 23.1172 | ug/l | 77 |
| 32) 2,2-Dichloropropane | 4.625 | 77 | 32243 | 22.7794 | ug/l | 95 |
| 33) Ethyl acetate | 4.641 | 43 | 26105 | 30.5550 | ug/l | 80 |
| 34) 1,4-Dioxane | 5.695 | 88 | 11570 | 1208.0622 | ug/l | 80 |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 27986 | 23.3529 | ug/l | 96 |
| 36) Chloroform | 4.805 | 83 | 37189 | 22.5977 | ug/l | 100 |
| 38) Cyclohexane | 4.981 | 56 | 30219 | 26.0054 | ug/l | 79 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 33443 | 22.8421 | ug/l | 94 |
| 41) 2-Butanone | 4.641 | 43 | 26105 | 54.5414 | ug/l | 83 |
| 42) 1,1,1-Trichloroethane | 4.940 | 97 | 35422 | 23.3056 | ug/l | 99 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 26549 | 20.9850 | ug/l | 95 |
| 44) Vinyl Acetate | 4.245 | 43 | 57867 | 23.3968 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 27381 | 22.0033 | ug/l | 98 |
| 46) Methylcyclohexane | 5.628 | 83 | 24350 | 25.4028 | ug/l | 84 |
| 47) Dibromomethane | 5.698 | 174 | 13454 | 21.8978 | ug/l | 89 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 22139 | 23.5314 | ug/l | 96 |
| 49) Trichloroethene | 5.502 | 130 | 21848 | 22.1268 | ug/l | 97 |
| 50) Benzene | 5.152 | 78 | 78395 | 22.5468 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 51324 | 22.9544 | ug/l | 94 |
| 53) Iso-propylacetate | 5.149 | 43 | 37277 | 24.0647 | ug/l | 96 |
| 54) Methyl methacrylate | 5.657 | 41 | 16636 | 25.3935 | ug/l | 76 |
| 55) Dibromochloromethane | 6.634 | 129 | 19589 | 20.1929 | ug/l | 95 |
| 56) 2-Chloroethylvinylether | 5.907 | 63 | 12952 | 23.4990 | ug/l | 91 |
| 57) cis-1,3-Dichloropropene | 6.007 | 75 | 28471 | 21.0405 | ug/l | 97 |
| 58) trans-1,3-Dichloropropene | 6.297 | 75 | 26265 | 20.6375 | ug/l | 98 |
| 59) Ethyl methacrylate | 6.325 | 41 | 17763 | 24.1814 | ug/l | 69 |
| 60) 1,1,2-Trichloroethane | 6.409 | 97 | 17924 | 21.8804 | ug/l | 90 |
| 61) 1,2-Dibromoethane | 6.711 | 107 | 18212 | 21.6205 | ug/l | 99 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 30339 | 21.8493 | ug/l | 99 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 18380 | 24.2509 | ug/l | 99 |
| 64) 2-Hexanone | 6.522 | 43 | 12927 | 24.8393 | ug/l | 89 |
| 65) Tetrachloroethene | 6.509 | 164 | 17171 | 21.2957 | ug/l | 96 |
| 67) Toluene | 6.203 | 92 | 50674 | 21.7162 | ug/l | 88 |
| 68) 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 18146 | 20.2475 | ug/l | 89 |

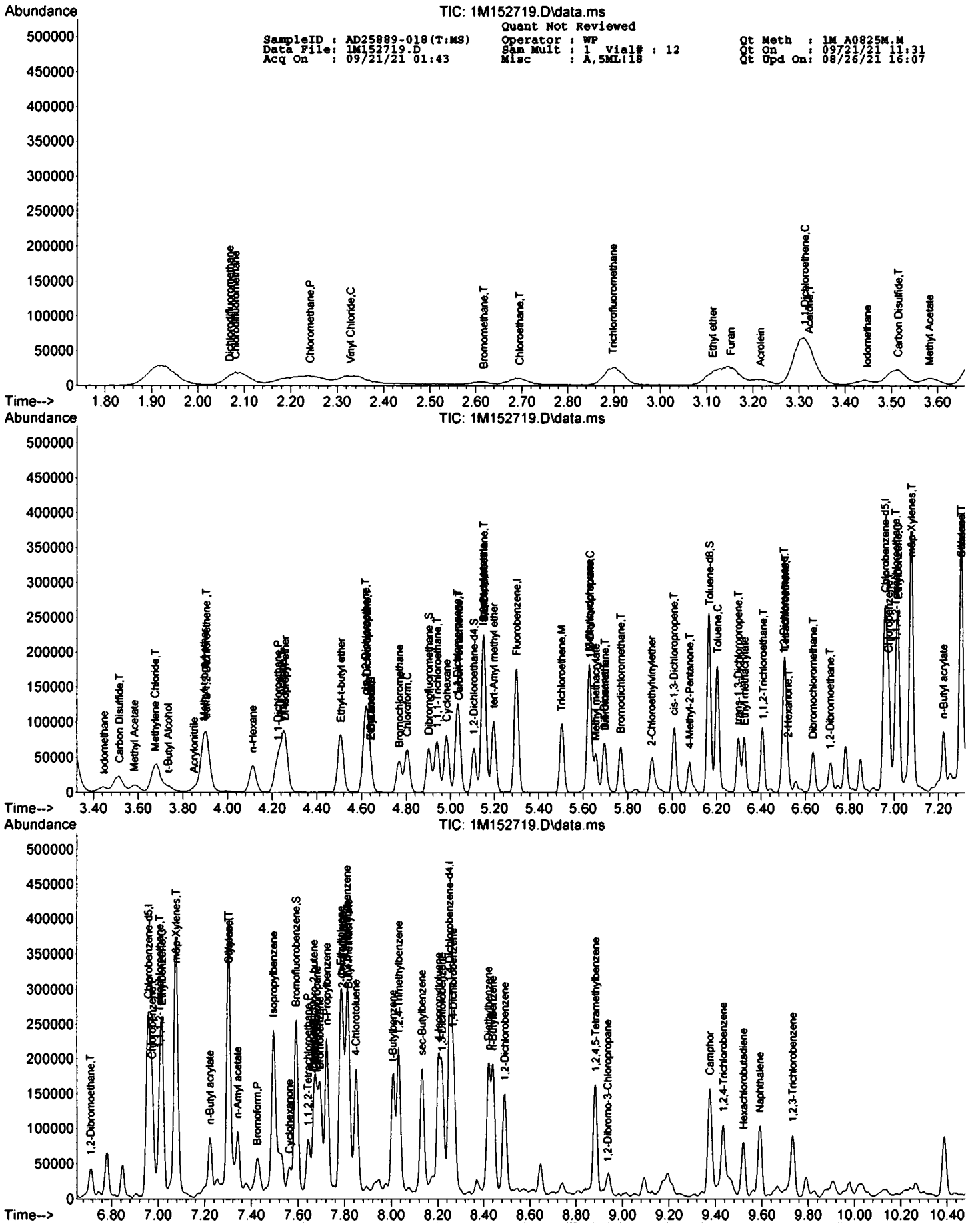
Quantitation Report (Not Reviewed)

SampleID : AD25889-018(T:MS) Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152719.D Sam Mult : 1 Vial# : 12 Qt On : 09/21/21 11:31
Acq On : 09/21/21 01:43 Misc : A,5ML!18 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-20-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 69) | Chlorobenzene | 6.975 | 112 | 55298 | 21.4133 | ug/l | 96 |
| 71) | n-Butyl acrylate | 7.223 | 55 | 36262 | 20.5081 | ug/l | 90 |
| 72) | n-Amyl acetate | 7.341 | 43 | 35513 | 25.5671 | ug/l | 88 |
| 73) | Bromoform | 7.425 | 173 | 12443 | 18.6397 | ug/l | 96 |
| 74) | Ethylbenzene | 7.017 | 106 | 25352 | 21.2157 | ug/l | 94 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 22199 | 21.3407 | ug/l | 93 |
| 77) | Styrene | 7.303 | 104 | 59480 | 20.7229 | ug/l | 93 |
| 78) | m&p-Xylenes | 7.078 | 106 | 72980 | 42.7967 | ug/l | 97 |
| 79) | o-Xylene | 7.303 | 106 | 34152 | 20.6675 | ug/l | 92 |
| 80) | trans-1,4-Dichloro-2-b... | 7.669 | 53 | 10417 | 23.9089 | ug/l | 70 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 40069 | 19.8816 | ug/l | 98 |
| 82) | 1,4-Dichlorobenzene | 8.268 | 146 | 42929 | 20.6181 | ug/l | 98 |
| 83) | 1,2-Dichlorobenzene | 8.493 | 146 | 38492 | 19.9887 | ug/l | 99 |
| 84) | Isopropylbenzene | 7.496 | 105 | 90685 | 22.4491 | ug/l | 98 |
| 85) | Cyclohexanone | 7.563 | 55 | 4422 | 108.6402 | ug/l | 86 |
| 86) | Camphene | 7.669 | 93 | 22187 | 24.3612 | ug/l | 100 |
| 87) | 1,2,3-Trichloropropane | 7.682 | 75 | 26387 | 19.6810 | ug/l | 95 |
| 88) | 2-Chlorotoluene | 7.792 | 91 | 56317 | 21.2413 | ug/l | 93 |
| 89) | p-Ethyltoluene | 7.785 | 105 | 84805 | 21.1747 | ug/l | 96 |
| 90) | 4-Chlorotoluene | 7.850 | 91 | 58048 | 21.8336 | ug/l | 97 |
| 91) | n-Propylbenzene | 7.724 | 91 | 117024 | 24.7312 | ug/l | 97 |
| 92) | Bromobenzene | 7.695 | 77 | 49000 | 21.1679 | ug/l | 80 |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 70114 | 21.3351 | ug/l | 96 |
| 94) | Butyl methacrylate | 7.817 | 41 | 30440 | 25.3700 | ug/l | 60 |
| 95) | t-Butylbenzene | 8.007 | 119 | 64757 | 21.2137 | ug/l | 97 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 74246 | 21.7297 | ug/l | 98 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 82613 | 22.0667 | ug/l | 97 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 67961 | 21.6648 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.441 | 91 | 80790 | 23.8837 | ug/l | 98 |
| 100) | p-Diethylbenzene | 8.422 | 119 | 40872 | 22.6819 | ug/l | 98 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 61793 | 25.0194 | ug/l | 97 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.936 | 157 | 4510 | 20.8758 | ug/l | 90 |
| 103) | Camphor | 9.377 | 95 | 21399 | 209.8279 | ug/l | 94 |
| 104) | Hexachlorobutadiene | 9.521 | 225 | 9933 | 21.2479 | ug/l | 96 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 21779 | 20.4887 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.734 | 180 | 17951 | 21.1494 | ug/l | 96 |
| 107) | Naphthalene | 9.592 | 128 | 56786 | 22.2591 | ug/l | 99 |

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


Abundance
TIC: 1M152719.D\data.ms
Quant Not Reviewed
SampleID : AD25889-018(T:MS)
Data File: 1M152719.D
Acq On : 09/21/21 01:43
Operator : WP
Sam Mult : 1 Vial# : 12
Misc : A,5ML;18
Qt Meth : 1M_A0825M.M
Qt On : 09/21/21 11:31
Qt Upd On: 08/26/21 16:07
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->


Abundance
TIC: 1M152719.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
Time-->


Abundance
TIC: 1M152719.D\data.ms
1,2-Dibromomethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (Not Reviewed)

SampleID : AD25889-018(T:MSD) Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152720.D Sam Mult : 1 Vial# : 13 Qt On : 09/21/21 11:31
Acq On : 09/21/21 02:02 Misc : A,5ML!18 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-20-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 116031 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 91779 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 50945 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 29138 | 28.73 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.77% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 16628 | 30.15 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 100.50% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 117089 | 29.97 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.90% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 39112 | 29.61 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 98.70% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 6) Dichlorodifluoromethane | 2.072 | 85 | 2993 | 5.2768 | ug/l | 95 |
| 7) Chloromethane | 2.236 | 50 | 6681 | 6.4319 | ug/l | 93 |
| 8) Bromomethane | 2.615 | 94 | 5296 | 9.4936 | ug/l | 78 |
| 9) Vinyl Chloride | 2.332 | 62 | 16879 | 16.8270 | ug/l | 81 |
| 10) Chloroethane | 2.686 | 64 | 13564 | 20.4457 | ug/l | 93 |
| 11) Trichlorofluoromethane | 2.898 | 101 | 28581 | 19.3786 | ug/l | 96 |
| 12) Ethyl ether | 3.113 | 59 | 13615 | 20.4237 | ug/l | 76 |
| 13) Furan | 3.155 | 39 | 24846 | 19.9187 | ug/l | 77 |
| 15) Methylene Chloride | 3.676 | 84 | 22318 | 23.5675 | ug/l | 74 |
| 16) Acrolein | 3.219 | 56 | 10954 | 86.9766 | ug/l | 91 |
| 17) Acrylonitrile | 3.859 | 53 | 7745 | 23.1007 | ug/l | 81 |
| 18) Iodomethane | 3.445 | 142 | 12571 | 12.7559 | ug/l | 100 |
| 19) Acetone | 3.326 | 43 | 25753 | 115.8646 | ug/l | 87 |
| 20) Carbon Disulfide | 3.506 | 76 | 41831 | 20.7351 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.731 | 59 | 10483 | 113.3382 | ug/l | 60 |
| 22) n-Hexane | 4.113 | 57 | 19606 | 23.4887 | ug/l | 95 |
| 23) Di-isopropyl-ether | 4.255 | 45 | 60348 | 22.4580 | ug/l | 83 |
| 24) 1,1-Dichloroethene | 3.309 | 61 | 31990 | 20.4325 | ug/l | 93 |
| 25) Methyl Acetate | 3.586 | 43 | 15914 | 22.2118 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.901 | 73 | 48244 | 21.0171 | ug/l | 87 |
| 27) 1,1-Dichloroethane | 4.223 | 63 | 37617 | 20.7153 | ug/l | 97 |
| 28) trans-1,2-Dichloroethene | 3.904 | 96 | 19083 | 19.8307 | ug/l | 75 |
| 29) Ethyl-t-butyl ether | 4.509 | 59 | 60973 | 21.6171 | ug/l | 89 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 38972 | 20.8571 | ug/l | 89 |
| 31) Bromochloromethane | 4.766 | 49 | 19233 | 20.5476 | ug/l | 75 |
| 32) 2,2-Dichloropropane | 4.628 | 77 | 30765 | 20.2132 | ug/l | 99 |
| 33) Ethyl acetate | 4.637 | 43 | 25222 | 27.4543 | ug/l | 92 |
| 34) 1,4-Dioxane | 5.695 | 88 | 11415 | 1108.4176 | ug/l | 96 |
| 35) 1,1-Dichloropropene | 5.033 | 75 | 26239 | 20.3619 | ug/l | 95 |
| 36) Chloroform | 4.805 | 83 | 35573 | 20.1021 | ug/l | 97 |
| 38) Cyclohexane | 4.981 | 56 | 28845 | 23.0848 | ug/l | 79 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 31769 | 20.1793 | ug/l | 93 |
| 41) 2-Butanone | 4.637 | 43 | 25222 | 48.9989 | ug/l | 90 |
| 42) 1,1,1-Trichloroethane | 4.940 | 97 | 32909 | 20.1360 | ug/l | 95 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 25890 | 19.0311 | ug/l | 98 |
| 44) Vinyl Acetate | 4.248 | 43 | 54354 | 20.4376 | ug/l | 100 |
| 45) Bromodichloromethane | 5.772 | 83 | 26628 | 19.8998 | ug/l | 96 |
| 46) Methylcyclohexane | 5.628 | 83 | 23635 | 22.9303 | ug/l | 86 |
| 47) Dibromomethane | 5.698 | 174 | 13402 | 20.2857 | ug/l | 84 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 21424 | 21.1768 | ug/l | 98 |
| 49) Trichloroethene | 5.506 | 130 | 20995 | 19.7740 | ug/l | 92 |
| 50) Benzene | 5.152 | 78 | 73771 | 19.7312 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 48998 | 20.3796 | ug/l | 95 |
| 53) Iso-propylacetate | 5.149 | 43 | 37124 | 22.5665 | ug/l | 95 |
| 54) Methyl methacrylate | 5.660 | 41 | 16017 | 23.0211 | ug/l | 76 |
| 55) Dibromochloromethane | 6.637 | 129 | 19181 | 18.6178 | ug/l | 99 |
| 56) 2-Chloroethylvinylether | 5.911 | 63 | 12056 | 20.5962 | ug/l | 90 |
| 57) cis-1,3-Dichloropropene | 6.010 | 75 | 27601 | 19.2066 | ug/l | 95 |
| 58) trans-1,3-Dichloropropene | 6.296 | 75 | 25531 | 18.8894 | ug/l | 96 |
| 59) Ethyl methacrylate | 6.325 | 41 | 17707 | 22.6977 | ug/l | 70 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 17056 | 19.6050 | ug/l | 92 |
| 61) 1,2-Dibromoethane | 6.714 | 107 | 17705 | 19.7913 | ug/l | 96 |
| 62) 1,3-Dichloropropane | 6.505 | 76 | 29028 | 19.6845 | ug/l | 99 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 18648 | 23.1679 | ug/l | 96 |
| 64) 2-Hexanone | 6.522 | 43 | 11718 | 21.2015 | ug/l | 91 |
| 65) Tetrachloroethene | 6.512 | 164 | 16556 | 19.3340 | ug/l | 98 |
| 67) Toluene | 6.203 | 92 | 48449 | 19.5503 | ug/l | 90 |
| 68) 1,1,1,2-Tetrachloroethane | 7.010 | 133 | 17914 | 18.8215 | ug/l | 93 |
| 69) Chlorobenzene | 6.972 | 112 | 52626 | 19.1887 | ug/l | 97 |

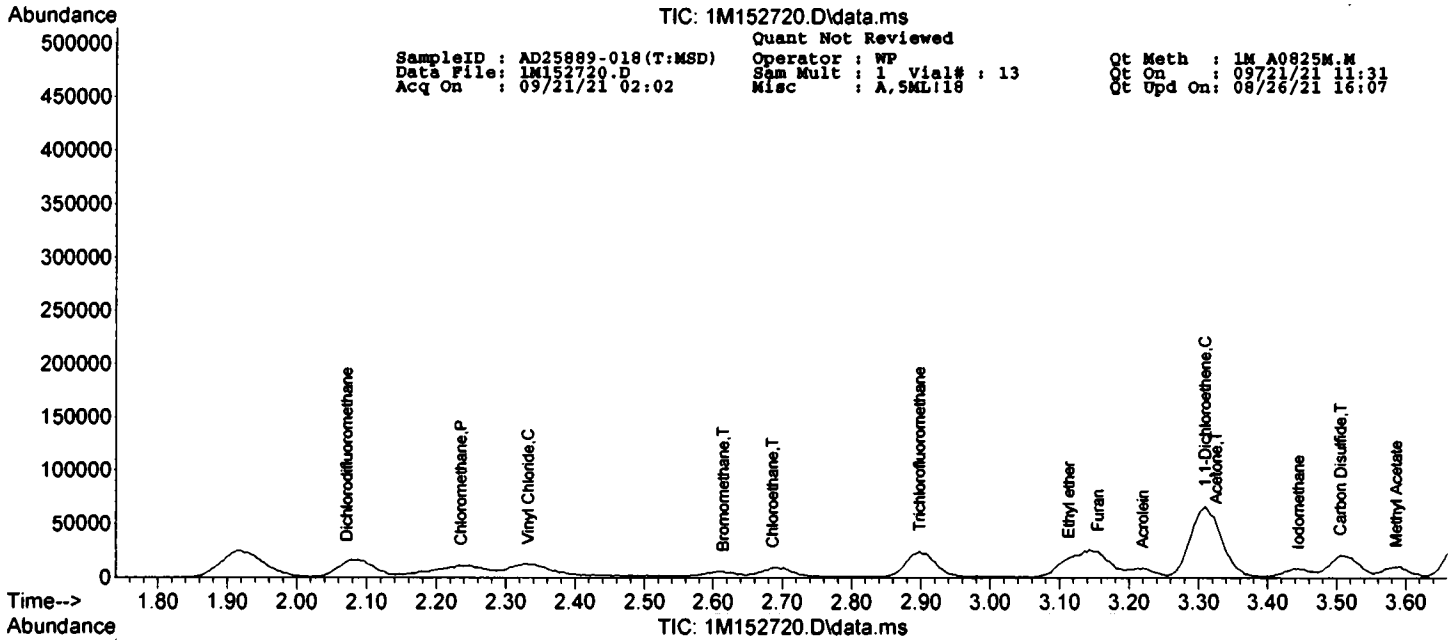
Quantitation Report (Not Reviewed)

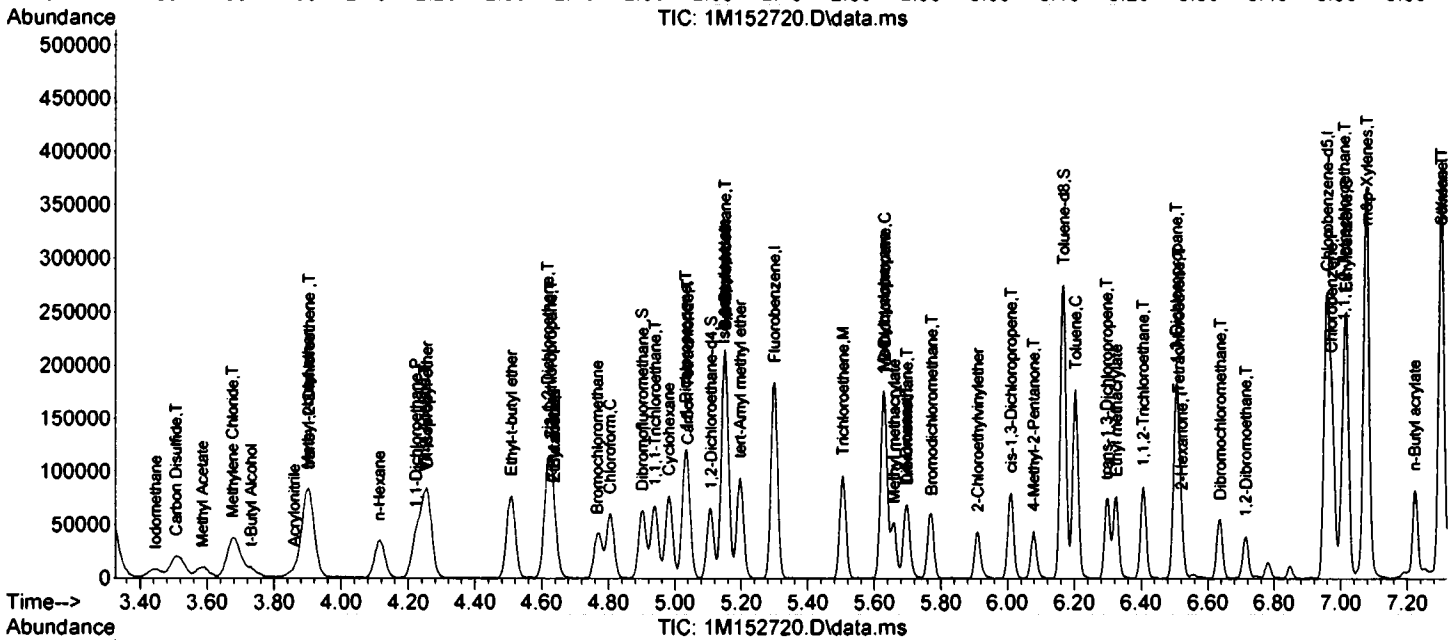
SampleID : AD25889-018(T:MSD) Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152720.D Sam Mult : 1 Vial# : 13 Qt On : 09/21/21 11:31
Acq On : 09/21/21 02:02 Misc : A,5ML!18 Qt Upd On: 08/26/21 16:07

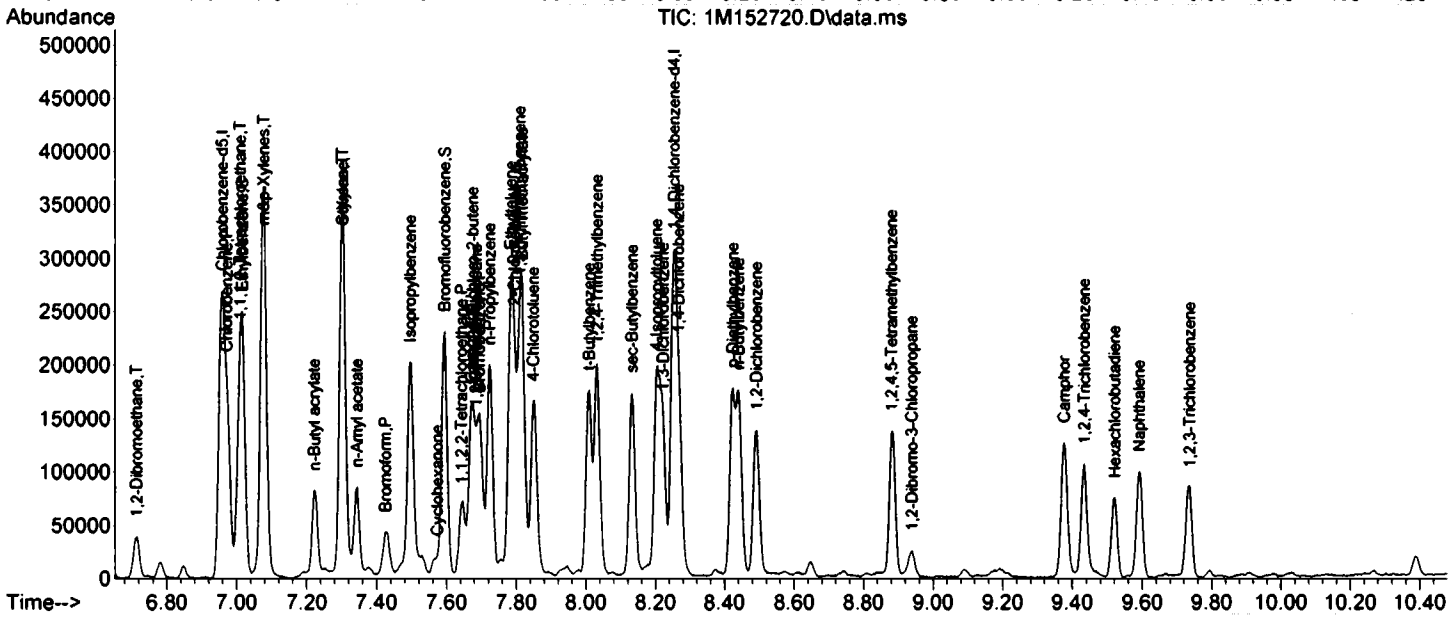
Data Path : G:\GcMsData\2021\GCMS_1\Data\09-20-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 71) | n-Butyl acrylate | 7.222 | 55 | 40915 | 21.9823 | ug/l | 87 |
| 72) | n-Amyl acetate | 7.345 | 43 | 32334 | 22.1141 | ug/l | 88 |
| 73) | Bromoform | 7.425 | 173 | 12183 | 17.3375 | ug/l | 93 |
| 74) | Ethylbenzene | 7.017 | 106 | 25528 | 20.2945 | ug/l | 98 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 22497 | 20.5455 | ug/l | 97 |
| 77) | Styrene | 7.303 | 104 | 58977 | 19.5199 | ug/l | 97 |
| 78) | m&p-Xylenes | 7.078 | 106 | 69871 | 38.9242 | ug/l | 98 |
| 79) | o-Xylene | 7.303 | 106 | 34657 | 19.9241 | ug/l | 96 |
| 80) | trans-1,4-Dichloro-2-b... | 7.676 | 53 | 9322 | 20.3256 | ug/l | 78 |
| 81) | 1,3-Dichlorobenzene | 8.222 | 146 | 40124 | 18.9131 | ug/l | 98 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 41763 | 19.0549 | ug/l | 98 |
| 83) | 1,2-Dichlorobenzene | 8.493 | 146 | 38355 | 18.9214 | ug/l | 98 |
| 84) | Isopropylbenzene | 7.496 | 105 | 87210 | 20.5091 | ug/l | 98 |
| 85) | Cyclohexanone | 7.573 | 55 | 3758 | 87.7093 | ug/l | 86 |
| 86) | Camphene | 7.673 | 93 | 21475 | 22.4001 | ug/l | 100 |
| 87) | 1,2,3-Trichloropropane | 7.685 | 75 | 25524 | 18.0852 | ug/l | 97 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 56264 | 20.1600 | ug/l | 92 |
| 89) | p-Ethyltoluene | 7.785 | 105 | 84241 | 19.9819 | ug/l | 97 |
| 90) | 4-Chlorotoluene | 7.849 | 91 | 53553 | 19.1354 | ug/l | 96 |
| 91) | n-Propylbenzene | 7.724 | 91 | 107565 | 21.5953 | ug/l | 98 |
| 92) | Bromobenzene | 7.695 | 77 | 48626 | 19.9557 | ug/l | 82 |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 70145 | 20.2770 | ug/l | 97 |
| 94) | Butyl methacrylate | 7.817 | 41 | 28501 | 22.5659 | ug/l | 60 |
| 95) | t-Butylbenzene | 8.010 | 119 | 65640 | 20.4275 | ug/l | 99 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 72742 | 20.2247 | ug/l | 97 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 81600 | 20.7060 | ug/l | 98 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 69185 | 20.9519 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.441 | 91 | 77048 | 21.6383 | ug/l | 98 |
| 100) | p-Diethylbenzene | 8.425 | 119 | 39590 | 20.8716 | ug/l | 99 |
| 101) | 1,2,4,5-Tetramethylben... | 8.882 | 119 | 53847 | 20.7117 | ug/l | 97 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.939 | 157 | 4501 | 19.7922 | ug/l | 84 |
| 103) | Camphor | 9.377 | 95 | 21313 | 198.5323 | ug/l | 95 |
| 104) | Hexachlorobutadiene | 9.521 | 225 | 9798 | 19.9108 | ug/l | 98 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 22004 | 19.6651 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.737 | 180 | 18852 | 21.1001 | ug/l | 97 |
| 107) | Naphthalene | 9.592 | 128 | 56670 | 21.1026 | ug/l | 99 |

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


Abundance
TIC: 1M152720.D\data.ms
Quant Not Reviewed
SampleID : AD25889-018(T:MSD)
Data File: 1M152720.D
Acq On : 09/21/21 02:02
Operator : WP
Sam Mult : 1 Vial# : 13
Misc : A,5ML!18
Qt Meth : 1M_A0825M.M
Qt On : 09/21/21 11:31
Qt Upd On: 08/26/21 16:07
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
1,1-Dichloroethene,C
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->


Abundance
TIC: 1M152720.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
Time-->


Abundance
TIC: 1M152720.D\data.ms
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
1,1,2,2-Tetrachloroethane,T
Bromofluorobenzene,S
n-Propylbenzene
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD25889-018(T) Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M156856.D Sam Mult : 1 Vial# : 29 Qt On : 09/16/21 15:44
Acq On : 09/16/21 13:51 Misc : A,5ML!18 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0916-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 162746 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 129189 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 63132 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 44748 | 30.18 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 100.60% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 25898 | 32.15 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 107.17% | | | |
| 66) Toluene-d8 | 5.958 | 98 | 162780 | 29.02 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.73% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 58464 | 30.46 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 101.53% | | | |
| Target Compounds | | | | | | Qvalue |
| 15) Methylene Chloride | 3.416 | 84 | 16885 | 13.8364 | ug/l | 90 |
| 19) Acetone | 3.044 | 43 | 2705 | 5.5365 | ug/l | 100 |

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

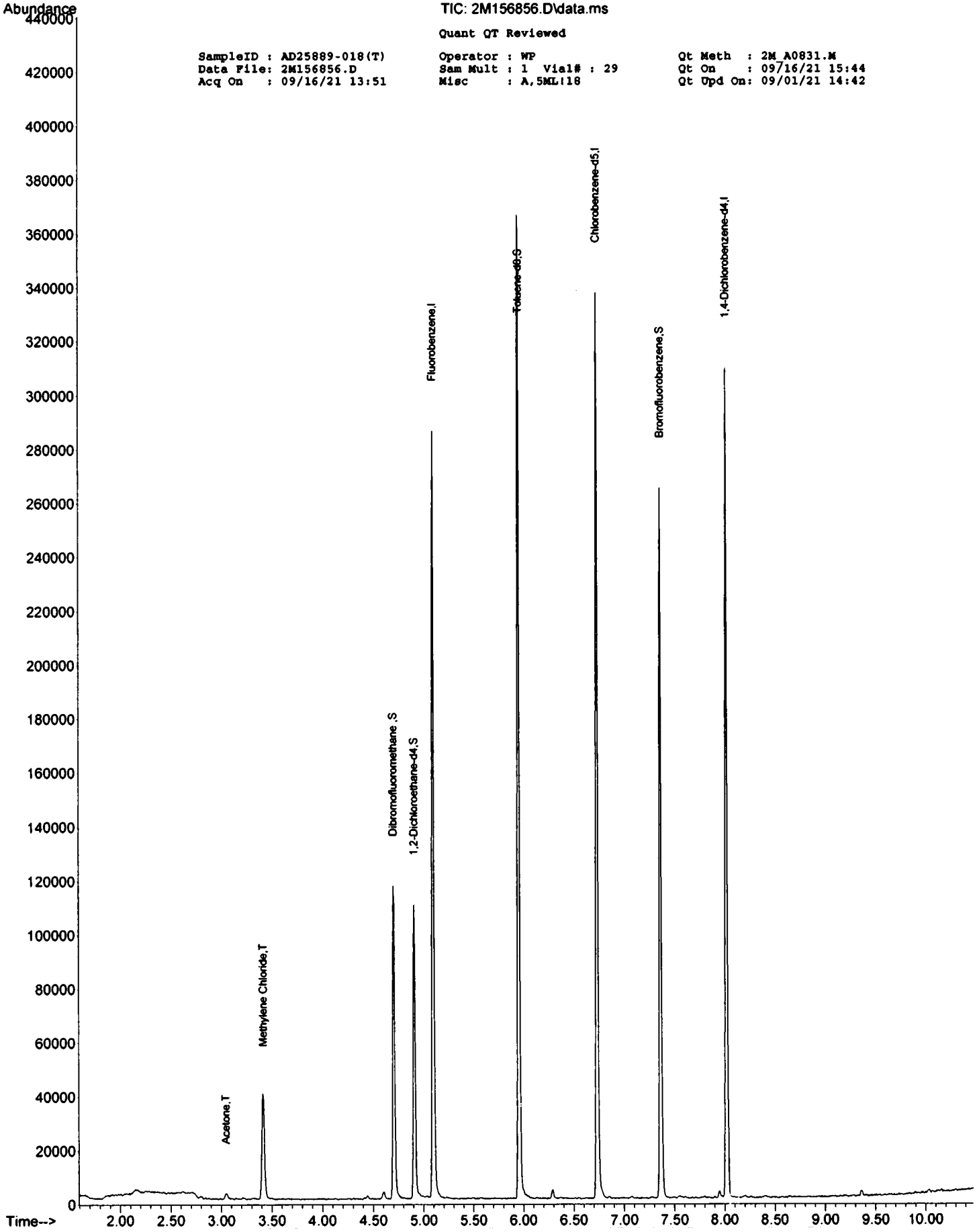
TIC: 2M156856.D\data.ms

Quant QT Reviewed

SampleID : AD25889-018(T)
Data File: 2M156856.D
Acq On : 09/16/21 13:51

Operator : WP
Sam Mult : 1 Vial# : 29
Misc : A,5ML!18

Qt Meth : 2M_A0831.M
Qt On : 09/16/21 15:44
Qt Upd On: 09/01/21 14:42



# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96784

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152855.D | AD26083-042(MS:AD26083-040 | 9/22/2021 8:12:00 PM |
| Non Spike(If applicable): | 1M152892.D | AD26083-040 | 9/23/2021 7:26:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 34.8819 | 0 | 20 | 174* | 50 | 150 |
| Dichlorodifluoromethane | 1 | 33.799 | 0 | 20 | 169* | 50 | 150 |
| Chloromethane | 1 | 25.6994 | 0 | 20 | 128 | 50 | 150 |
| Bromomethane | 1 | 5.7677 | 0 | 20 | 29* | 50 | 150 |
| Vinyl Chloride | 1 | 14.5516 | 0 | 20 | 73 | 50 | 150 |
| Chloroethane | 1 | 12.5952 | 0 | 20 | 63 | 50 | 150 |
| Trichlorofluoromethane | 1 | 19.7553 | 0 | 20 | 99 | 50 | 150 |
| Ethyl ether | 1 | 47.6885 | 0 | 20 | 238* | 50 | 150 |
| Furan | 1 | 23.7385 | 0 | 20 | 119 | 50 | 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 16.4787 | 0 | 20 | 82 | 50 | 150 |
| Methylene Chloride | 1 | 17.2879 | 0 | 20 | 86 | 70 | 130 |
| Acrolein | 1 | 112.5401 | 0 | 100 | 113 | 50 | 150 |
| Acrylonitrile | 1 | 23.9829 | 0 | 20 | 120 | 50 | 150 |
| Iodomethane | 1 | 8.4472 | 0 | 20 | 42* | 50 | 150 |
| Acetone | 1 | 154.0586 | 25.1822 | 100 | 129 | 50 | 150 |
| Carbon Disulfide | 1 | 28.2637 | 0 | 20 | 141 | 50 | 150 |
| t-Butyl Alcohol | 1 | 246.3796 | 0 | 100 | 246* | 50 | 150 |
| n-Hexane | 1 | 15.3098 | 0 | 20 | 77 | 70 | 130 |
| Di-isopropyl-ether | 1 | 24.9374 | 0 | 20 | 125 | 70 | 130 |
| 1,1-Dichloroethene | 1 | 18.6672 | 0 | 20 | 93 | 70 | 130 |
| Methyl Acetate | 1 | 23.4406 | 0 | 20 | 117 | 50 | 150 |
| Methyl-t-butyl ether | 1 | 19.5292 | 1.0017 | 20 | 93 | 70 | 130 |
| 1,1-Dichloroethane | 1 | 20.051 | 0 | 20 | 100 | 70 | 130 |
| trans-1,2-Dichloroethene | 1 | 16.5059 | 0 | 20 | 83 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 20.9008 | 0 | 20 | 105 | 70 | 130 |
| cis-1,2-Dichloroethene | 1 | 18.5166 | 0 | 20 | 93 | 70 | 130 |
| Bromochloromethane | 1 | 21.6182 | 0 | 20 | 108 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 11.4108 | 0 | 20 | 57* | 70 | 130 |
| Ethyl acetate | 1 | 18.8897 | 0 | 20 | 94 | 50 | 150 |
| 1,4-Dioxane | 1 | 1026.385 | 101.6859 | 1000 | 92 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 17.0309 | 0 | 20 | 85 | 70 | 130 |
| Chloroform | 1 | 18.0651 | 0 | 20 | 90 | 70 | 130 |
| Cyclohexane | 1 | 17.9752 | 0 | 20 | 90 | 70 | 130 |
| 1,2-Dichloroethane | 1 | 18.7952 | 0 | 20 | 94 | 70 | 130 |
| 2-Butanone | 1 | 28.9936 | 0 | 20 | 145 | 50 | 150 |
| 1,1,1-Trichloroethane | 1 | 18.0495 | 0 | 20 | 90 | 70 | 130 |
| Carbon Tetrachloride | 1 | 15.1934 | 0 | 20 | 76 | 50 | 150 |
| Vinyl Acetate | 1 | 23.6448 | 0 | 20 | 118 | 50 | 150 |
| Bromodichloromethane | 1 | 17.399 | 0 | 20 | 87 | 70 | 130 |
| Methylcyclohexane | 1 | 12.9622 | 0 | 20 | 65* | 70 | 130 |
| Dibromomethane | 1 | 16.0828 | 0 | 20 | 80 | 70 | 130 |
| 1,2-Dichloropropane | 1 | 19.0836 | 0 | 20 | 95 | 70 | 130 |
| Trichloroethene | 1 | 16.133 | 0 | 20 | 81 | 70 | 130 |
| Benzene | 1 | 17.1638 | 0 | 20 | 86 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 16.9713 | 0 | 20 | 85 | 70 | 130 |
| Iso-propylacetate | 1 | 20.3851 | 0 | 20 | 102 | 70 | 130 |
| Methyl methacrylate | 1 | 20.5701 | 0 | 20 | 103 | 70 | 130 |
| Dibromochloromethane | 1 | 14.6309 | 0 | 20 | 73 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| cis-1,3-Dichloropropene | 1 | 13.6312 | 0 | 20 | 68* | 70 | 130 |
| trans-1,3-Dichloropropene | 1 | 13.3726 | 0 | 20 | 67* | 70 | 130 |
| Ethyl methacrylate | 1 | 19.7528 | 0 | 20 | 99 | 70 | 130 |
| 1,1,2-Trichloroethane | 1 | 16.1502 | 0 | 20 | 81 | 70 | 130 |
| 1,2-Dibromoethane | 1 | 15.1981 | 0 | 20 | 76 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 15.9652 | 0 | 20 | 80 | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 20.8971 | 0 | 20 | 104 | 50 | 150 |
| 2-Hexanone | 1 | 21.0918 | 0 | 20 | 105 | 50 | 150 |
| Tetrachloroethene | 1 | 14.5153 | 0 | 20 | 73 | 50 | 150 |
| Toluene | 1 | 15.5558 | 0 | 20 | 78 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 14.326 | 0 | 20 | 72 | 70 | 130 |
| Chlorobenzene | 1 | 15.2841 | 0 | 20 | 76 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96784

| Method: 8260D | Matrix: Aqueous | | Units: ug/L | QC Type: MS | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| n-Butyl acrylate | 1 | 17.5086 | 0 | 20 | 88 | 70 | 130 |
| n-Amyl acetate | 1 | 19.1235 | 0 | 20 | 96 | 70 | 130 |
| Bromoform | 1 | 13.7525 | 0 | 20 | 69* | 70 | 130 |
| Ethylbenzene | 1 | 15.3465 | 0 | 20 | 77 | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 1 | 16.2445 | 0 | 20 | 81 | 70 | 130 |
| Styrene | 1 | 14.4811 | 0 | 20 | 72 | 70 | 130 |
| m&p-Xylenes | 1 | 29.6205 | 0 | 40 | 74 | 70 | 130 |
| o-Xylene | 1 | 14.9742 | 0 | 20 | 75 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 7.3569 | 0 | 20 | 37* | 50 | 150 |
| 1,3-Dichlorobenzene | 1 | 14.3376 | 0 | 20 | 72 | 70 | 130 |
| 1,4-Dichlorobenzene | 1 | 14.3404 | 0 | 20 | 72 | 70 | 130 |
| 1,2-Dichlorobenzene | 1 | 14.4231 | 0 | 20 | 72 | 70 | 130 |
| Isopropylbenzene | 1 | 14.7816 | 0 | 20 | 74 | 70 | 130 |
| Cyclohexanone | 1 | 71.8617 | 0 | 100 | 72 | 50 | 150 |
| Camphene | 1 | 2.3761 | 0 | 20 | 12* | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 13.565 | 0 | 20 | 68* | 70 | 130 |
| 2-Chlorotoluene | 1 | 15.7975 | 0 | 20 | 79 | 70 | 130 |
| p-Ethyltoluene | 1 | 14.547 | 0 | 20 | 73 | 70 | 130 |
| 4-Chlorotoluene | 1 | 15.249 | 0 | 20 | 76 | 70 | 130 |
| n-Propylbenzene | 1 | 14.7037 | 0 | 20 | 74 | 70 | 130 |
| Bromobenzene | 1 | 13.6362 | 0 | 20 | 68* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 14.3174 | 0 | 20 | 72 | 70 | 130 |
| Butyl methacrylate | 1 | 20.2255 | 0 | 20 | 101 | 70 | 130 |
| t-Butylbenzene | 1 | 14.3455 | 0 | 20 | 72 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 14.4095 | 0 | 20 | 72 | 70 | 130 |
| sec-Butylbenzene | 1 | 14.2291 | 0 | 20 | 71 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 13.9319 | 0 | 20 | 70 | 70 | 130 |
| n-Butylbenzene | 1 | 14.7626 | 0 | 20 | 74 | 70 | 130 |
| p-Diethylbenzene | 1 | 12.933 | 0 | 20 | 65* | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 11.8071 | 0 | 20 | 59* | 70 | 130 |
| 1,2-Dibromo-3-Chloropropane | 1 | 15.5901 | 0 | 20 | 78 | 50 | 150 |
| Camphor | 1 | 182.1254 | 0 | 200 | 91 | 20 | 150 |
| Hexachlorobutadiene | 1 | 13.7963 | 0 | 20 | 69 | 50 | 150 |
| 1,2,4-Trichlorobenzene | 1 | 14.3896 | 0 | 20 | 72 | 70 | 130 |
| 1,2,3-Trichlorobenzene | 1 | 14.8139 | 0 | 20 | 74 | 70 | 130 |
| Naphthalene | 1 | 15.0783 | 0 | 20 | 75 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96784

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152856.D | AD26083-044(MSD:AD26083-0 | 9/22/2021 8:31:00 PM |
| Non Spike(If applicable): | 1M152892.D | AD26083-040 | 9/23/2021 7:26:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 33.6267 | 0 | 20 | 168* | 50 | 150 |
| Dichlorodifluoromethane | 1 | 31.1007 | 0 | 20 | 156* | 50 | 150 |
| Chloromethane | 1 | 25.4295 | 0 | 20 | 127 | 50 | 150 |
| Bromomethane | 1 | 6.0382 | 0 | 20 | 30* | 50 | 150 |
| Vinyl Chloride | 1 | 23.4708 | 0 | 20 | 117 | 50 | 150 |
| Chloroethane | 1 | 22.4981 | 0 | 20 | 112 | 50 | 150 |
| Trichlorofluoromethane | 1 | 18.47 | 0 | 20 | 92 | 50 | 150 |
| Ethyl ether | 1 | 44.0257 | 0 | 20 | 220* | 50 | 150 |
| Furan | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 15.1041 | 0 | 20 | 76 | 50 | 150 |
| Methylene Chloride | 1 | 16.0341 | 0 | 20 | 80 | 70 | 130 |
| Acrolein | 1 | 109.3152 | 0 | 100 | 109 | 50 | 150 |
| Acrylonitrile | 1 | 25.4496 | 0 | 20 | 127 | 50 | 150 |
| Iodomethane | 1 | 9.5393 | 0 | 20 | 48* | 50 | 150 |
| Acetone | 1 | 71.8528 | 25.1822 | 100 | 47* | 50 | 150 |
| Carbon Disulfide | 1 | 26.1445 | 0 | 20 | 131 | 50 | 150 |
| t-Butyl Alcohol | 1 | 255.6048 | 0 | 100 | 256* | 50 | 150 |
| n-Hexane | 1 | 14.8218 | 0 | 20 | 74 | 70 | 130 |
| Di-isopropyl-ether | 1 | 24.1482 | 0 | 20 | 121 | 70 | 130 |
| 1,1-Dichloroethene | 1 | 17.7561 | 0 | 20 | 89 | 70 | 130 |
| Methyl Acetate | 1 | 22.0021 | 0 | 20 | 110 | 50 | 150 |
| Methyl-t-butyl ether | 1 | 18.6693 | 1.0017 | 20 | 88 | 70 | 130 |
| 1,1-Dichloroethane | 1 | 18.6101 | 0 | 20 | 93 | 70 | 130 |
| trans-1,2-Dichloroethene | 1 | 15.6317 | 0 | 20 | 78 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 18.7963 | 0 | 20 | 94 | 70 | 130 |
| cis-1,2-Dichloroethene | 1 | 17.3271 | 0 | 20 | 87 | 70 | 130 |
| Bromochloromethane | 1 | 19.6495 | 0 | 20 | 98 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 10.8716 | 0 | 20 | 54* | 70 | 130 |
| Ethyl acetate | 1 | 14.6617 | 0 | 20 | 73 | 50 | 150 |
| 1,4-Dioxane | 1 | 1086.944 | 101.6859 | 1000 | 99 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 16.2251 | 0 | 20 | 81 | 70 | 130 |
| Chloroform | 1 | 16.7657 | 0 | 20 | 84 | 70 | 130 |
| Cyclohexane | 1 | 16.7875 | 0 | 20 | 84 | 70 | 130 |
| 1,2-Dichloroethane | 1 | 17.4164 | 0 | 20 | 87 | 70 | 130 |
| 2-Butanone | 1 | 22.4966 | 0 | 20 | 112 | 50 | 150 |
| 1,1,1-Trichloroethane | 1 | 16.8188 | 0 | 20 | 84 | 70 | 130 |
| Carbon Tetrachloride | 1 | 13.8447 | 0 | 20 | 69 | 50 | 150 |
| Vinyl Acetate | 1 | 22.669 | 0 | 20 | 113 | 50 | 150 |
| Bromodichloromethane | 1 | 16.0271 | 0 | 20 | 80 | 70 | 130 |
| Methylcyclohexane | 1 | 12.4177 | 0 | 20 | 62* | 70 | 130 |
| Dibromomethane | 1 | 14.9799 | 0 | 20 | 75 | 70 | 130 |
| 1,2-Dichloropropane | 1 | 18.2204 | 0 | 20 | 91 | 70 | 130 |
| Trichloroethene | 1 | 15.0273 | 0 | 20 | 75 | 70 | 130 |
| Benzene | 1 | 16.163 | 0 | 20 | 81 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 16.6162 | 0 | 20 | 83 | 70 | 130 |
| Iso-propylacetate | 1 | 20.4762 | 0 | 20 | 102 | 70 | 130 |
| Methyl methacrylate | 1 | 19.6667 | 0 | 20 | 98 | 70 | 130 |
| Dibromochloromethane | 1 | 13.8861 | 0 | 20 | 69* | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| cis-1,3-Dichloropropene | 1 | 13.2344 | 0 | 20 | 66* | 70 | 130 |
| trans-1,3-Dichloropropene | 1 | 12.9221 | 0 | 20 | 65* | 70 | 130 |
| Ethyl methacrylate | 1 | 21.3148 | 0 | 20 | 107 | 70 | 130 |
| 1,1,2-Trichloroethane | 1 | 14.8647 | 0 | 20 | 74 | 70 | 130 |
| 1,2-Dibromoethane | 1 | 15.0204 | 0 | 20 | 75 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 15.7441 | 0 | 20 | 79 | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 20.9548 | 0 | 20 | 105 | 50 | 150 |
| 2-Hexanone | 1 | 21.9793 | 0 | 20 | 110 | 50 | 150 |
| Tetrachloroethene | 1 | 13.9151 | 0 | 20 | 70 | 50 | 150 |
| Toluene | 1 | 15.2486 | 0 | 20 | 76 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 14.4123 | 0 | 20 | 72 | 70 | 130 |
| Chlorobenzene | 1 | 15.3568 | 0 | 20 | 77 | 70 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96784

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 17.5667 | 0 | 20 | 88 | 70 | 130 |
| n-Amyl acetate | 1 | 19.6903 | 0 | 20 | 98 | 70 | 130 |
| Bromoform | 1 | 13.2938 | 0 | 20 | 66* | 70 | 130 |
| Ethylbenzene | 1 | 15.312 | 0 | 20 | 77 | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 1 | 16.7064 | 0 | 20 | 84 | 70 | 130 |
| Styrene | 1 | 14.0759 | 0 | 20 | 70 | 70 | 130 |
| m&p-Xylenes | 1 | 29.4985 | 0 | 40 | 74 | 70 | 130 |
| o-Xylene | 1 | 15.0143 | 0 | 20 | 75 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 7.4952 | 0 | 20 | 37* | 50 | 150 |
| 1,3-Dichlorobenzene | 1 | 14.029 | 0 | 20 | 70 | 70 | 130 |
| 1,4-Dichlorobenzene | 1 | 14.2861 | 0 | 20 | 71 | 70 | 130 |
| 1,2-Dichlorobenzene | 1 | 14.2532 | 0 | 20 | 71 | 70 | 130 |
| Isopropylbenzene | 1 | 14.7599 | 0 | 20 | 74 | 70 | 130 |
| Cyclohexanone | 1 | 88.8203 | 0 | 100 | 89 | 50 | 150 |
| Camphene | 1 | 2.426 | 0 | 20 | 12* | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 13.8799 | 0 | 20 | 69* | 70 | 130 |
| 2-Chlorotoluene | 1 | 15.6579 | 0 | 20 | 78 | 70 | 130 |
| p-Ethyltoluene | 1 | 14.4685 | 0 | 20 | 72 | 70 | 130 |
| 4-Chlorotoluene | 1 | 14.9698 | 0 | 20 | 75 | 70 | 130 |
| n-Propylbenzene | 1 | 14.8065 | 0 | 20 | 74 | 70 | 130 |
| Bromobenzene | 1 | 13.8395 | 0 | 20 | 69* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 14.831 | 0 | 20 | 74 | 70 | 130 |
| Butyl methacrylate | 1 | 20.1904 | 0 | 20 | 101 | 70 | 130 |
| t-Butylbenzene | 1 | 14.2803 | 0 | 20 | 71 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 14.3044 | 0 | 20 | 72 | 70 | 130 |
| sec-Butylbenzene | 1 | 14.024 | 0 | 20 | 70 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 13.7037 | 0 | 20 | 69* | 70 | 130 |
| n-Butylbenzene | 1 | 14.4715 | 0 | 20 | 72 | 70 | 130 |
| p-Diethylbenzene | 1 | 13.7725 | 0 | 20 | 69* | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 11.9753 | 0 | 20 | 60* | 70 | 130 |
| 1,2-Dibromo-3-Chloropropane | 1 | 16.3803 | 0 | 20 | 82 | 50 | 150 |
| Camphor | 1 | 179.8545 | 0 | 200 | 90 | 20 | 150 |
| Hexachlorobutadiene | 1 | 13.3479 | 0 | 20 | 67 | 50 | 150 |
| 1,2,4-Trichlorobenzene | 1 | 14.1514 | 0 | 20 | 71 | 70 | 130 |
| 1,2,3-Trichlorobenzene | 1 | 15.4686 | 0 | 20 | 77 | 70 | 130 |
| Naphthalene | 1 | 16.0247 | 0 | 20 | 80 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: MBS96784

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152856.D | AD26083-044(MSD:AD26083-0 | 9/22/2021 8:31:00 PM |
| Duplicate(If applicable): | 1M152855.D | AD26083-042(MS:AD26083-040 | 9/22/2021 8:12:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 33.6267 | 34.8819 | 3.7 | 30 |
| Dichlorodifluoromethane | 1 | 31.1007 | 33.799 | 8.3 | 30 |
| Chloromethane | 1 | 25.4295 | 25.6994 | 1.1 | 30 |
| Bromomethane | 1 | 6.0382 | 5.7677 | 4.6 | 30 |
| Vinyl Chloride | 1 | 23.4708 | 14.5516 | 47* | 40 |
| Chloroethane | 1 | 22.4981 | 12.5952 | 56* | 30 |
| Trichlorofluoromethane | 1 | 18.47 | 19.7553 | 6.7 | 30 |
| Ethyl ether | 1 | 44.0257 | 47.6885 | 8 | 30 |
| Furan | 1 | 0 | 23.7385 | 200* | 30 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 15.1041 | 16.4787 | 8.7 | 30 |
| Methylene Chloride | 1 | 16.0341 | 17.2879 | 7.5 | 30 |
| Acrolein | 1 | 109.3152 | 112.5401 | 2.9 | 30 |
| Acrylonitrile | 1 | 25.4496 | 23.9829 | 5.9 | 30 |
| Iodomethane | 1 | 9.5393 | 8.4472 | 12 | 30 |
| Acetone | 1 | 71.8528 | 154.0586 | 73* | 30 |
| Carbon Disulfide | 1 | 26.1445 | 28.2637 | 7.8 | 30 |
| t-Butyl Alcohol | 1 | 255.6048 | 246.3796 | 3.7 | 30 |
| n-Hexane | 1 | 14.8218 | 15.3098 | 3.2 | 30 |
| Di-isopropyl-ether | 1 | 24.1482 | 24.9374 | 3.2 | 30 |
| 1,1-Dichloroethene | 1 | 17.7561 | 18.6672 | 5 | 40 |
| Methyl Acetate | 1 | 22.0021 | 23.4406 | 6.3 | 30 |
| Methyl-t-butyl ether | 1 | 18.6693 | 19.5292 | 4.5 | 30 |
| 1,1-Dichloroethane | 1 | 18.6101 | 20.051 | 7.5 | 40 |
| trans-1,2-Dichloroethene | 1 | 15.6317 | 16.5059 | 5.4 | 30 |
| Ethyl-t-butyl ether | 1 | 18.7963 | 20.9008 | 11 | 30 |
| cis-1,2-Dichloroethene | 1 | 17.3271 | 18.5166 | 6.6 | 30 |
| Bromochloromethane | 1 | 19.6495 | 21.6182 | 9.5 | 30 |
| 2,2-Dichloropropane | 1 | 10.8716 | 11.4108 | 4.8 | 30 |
| Ethyl acetate | 1 | 14.6617 | 18.8897 | 25 | 30 |
| 1,4-Dioxane | 1 | 1086.944 | 1026.385 | 5.7 | 30 |
| 1,1-Dichloropropene | 1 | 16.2251 | 17.0309 | 4.8 | 30 |
| Chloroform | 1 | 16.7657 | 18.0651 | 7.5 | 40 |
| Cyclohexane | 1 | 16.7875 | 17.9752 | 6.8 | 30 |
| 1,2-Dichloroethane | 1 | 17.4164 | 18.7952 | 7.6 | 40 |
| 2-Butanone | 1 | 22.4966 | 28.9936 | 25 | 40 |
| 1,1,1-Trichloroethane | 1 | 16.8188 | 18.0495 | 7.1 | 30 |
| Carbon Tetrachloride | 1 | 13.8447 | 15.1934 | 9.3 | 40 |
| Vinyl Acetate | 1 | 22.669 | 23.6448 | 4.2 | 30 |
| Bromodichloromethane | 1 | 16.0271 | 17.399 | 8.2 | 30 |
| Methylcyclohexane | 1 | 12.4177 | 12.9622 | 4.3 | 30 |
| Dibromomethane | 1 | 14.9799 | 16.0828 | 7.1 | 30 |
| 1,2-Dichloropropane | 1 | 18.2204 | 19.0836 | 4.6 | 30 |
| Trichloroethene | 1 | 15.0273 | 16.133 | 7.1 | 40 |
| Benzene | 1 | 16.163 | 17.1638 | 6 | 40 |
| tert-Amyl methyl ether | 1 | 16.6162 | 16.9713 | 2.1 | 30 |
| Iso-propylacetate | 1 | 20.4762 | 20.3851 | 0.45 | 30 |
| Methyl methacrylate | 1 | 19.6667 | 20.5701 | 4.5 | 30 |
| Dibromochloromethane | 1 | 13.8861 | 14.6309 | 5.2 | 30 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | NA | 30 |
| cis-1,3-Dichloropropene | 1 | 13.2344 | 13.6312 | 3 | 30 |
| trans-1,3-Dichloropropene | 1 | 12.9221 | 13.3726 | 3.4 | 30 |
| Ethyl methacrylate | 1 | 21.3148 | 19.7528 | 7.6 | 30 |
| 1,1,2-Trichloroethane | 1 | 14.8647 | 16.1502 | 8.3 | 30 |
| 1,2-Dibromoethane | 1 | 15.0204 | 15.1981 | 1.2 | 30 |
| 1,3-Dichloropropane | 1 | 15.7441 | 15.9652 | 1.4 | 30 |
| 4-Methyl-2-Pentanone | 1 | 20.9548 | 20.8971 | 0.28 | 30 |
| 2-Hexanone | 1 | 21.9793 | 21.0918 | 4.1 | 30 |
| Tetrachloroethene | 1 | 13.9151 | 14.5153 | 4.2 | 40 |
| Toluene | 1 | 15.2486 | 15.5558 | 2 | 40 |
| 1,1,1,2-Tetrachloroethane | 1 | 14.4123 | 14.326 | 0.6 | 30 |
| Chlorobenzene | 1 | 15.3568 | 15.2841 | 0.47 | 40 |

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: MBS96784

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 17.5667 | 17.5086 | 0.33 | 30 |
| n-Amyl acetate | 1 | 19.6903 | 19.1235 | 2.9 | 30 |
| Bromoform | 1 | 13.2938 | 13.7525 | 3.4 | 30 |
| Ethylbenzene | 1 | 15.312 | 15.3465 | 0.23 | 30 |
| 1,1,2,2-Tetrachloroethane | 1 | 16.7064 | 16.2445 | 2.8 | 30 |
| Styrene | 1 | 14.0759 | 14.4811 | 2.8 | 30 |
| m&p-Xylenes | 1 | 29.4985 | 29.6205 | 0.41 | 30 |
| o-Xylene | 1 | 15.0143 | 14.9742 | 0.27 | 30 |
| trans-1,4-Dichloro-2-butene | 1 | 7.4952 | 7.3569 | 1.9 | 30 |
| 1,3-Dichlorobenzene | 1 | 14.029 | 14.3376 | 2.2 | 30 |
| 1,4-Dichlorobenzene | 1 | 14.2861 | 14.3404 | 0.38 | 40 |
| 1,2-Dichlorobenzene | 1 | 14.2532 | 14.4231 | 1.2 | 40 |
| Isopropylbenzene | 1 | 14.7599 | 14.7816 | 0.15 | 30 |
| Cyclohexanone | 1 | 88.8203 | 71.8617 | 21 | 30 |
| Camphene | 1 | 2.426 | 2.3761 | 2.1 | 30 |
| 1,2,3-Trichloropropane | 1 | 13.8799 | 13.565 | 2.3 | 30 |
| 2-Chlorotoluene | 1 | 15.6579 | 15.7975 | 0.89 | 30 |
| p-Ethyltoluene | 1 | 14.4685 | 14.547 | 0.54 | 30 |
| 4-Chlorotoluene | 1 | 14.9698 | 15.249 | 1.8 | 30 |
| n-Propylbenzene | 1 | 14.8065 | 14.7037 | 0.7 | 40 |
| Bromobenzene | 1 | 13.8395 | 13.6362 | 1.5 | 30 |
| 1,3,5-Trimethylbenzene | 1 | 14.831 | 14.3174 | 3.5 | 30 |
| Butyl methacrylate | 1 | 20.1904 | 20.2255 | 0.17 | 30 |
| t-Butylbenzene | 1 | 14.2803 | 14.3455 | 0.46 | 30 |
| 1,2,4-Trimethylbenzene | 1 | 14.3044 | 14.4095 | 0.73 | 30 |
| sec-Butylbenzene | 1 | 14.024 | 14.2291 | 1.5 | 40 |
| 4-Isopropyltoluene | 1 | 13.7037 | 13.9319 | 1.7 | 30 |
| n-Butylbenzene | 1 | 14.4715 | 14.7626 | 2 | 30 |
| p-Diethylbenzene | 1 | 13.7725 | 12.933 | 6.3 | 30 |
| 1,2,4,5-Tetramethylbenzene | 1 | 11.9753 | 11.8071 | 1.4 | 30 |
| 1,2-Dibromo-3-Chloropropane | 1 | 16.3803 | 15.5901 | 4.9 | 30 |
| Camphor | 1 | 179.8545 | 182.1254 | 1.3 | 30 |
| Hexachlorobutadiene | 1 | 13.3479 | 13.7963 | 3.3 | 30 |
| 1,2,4-Trichlorobenzene | 1 | 14.1514 | 14.3896 | 1.7 | 30 |
| 1,2,3-Trichlorobenzene | 1 | 15.4686 | 14.8139 | 4.3 | 30 |
| Naphthalene | 1 | 16.0247 | 15.0783 | 6.1 | 30 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

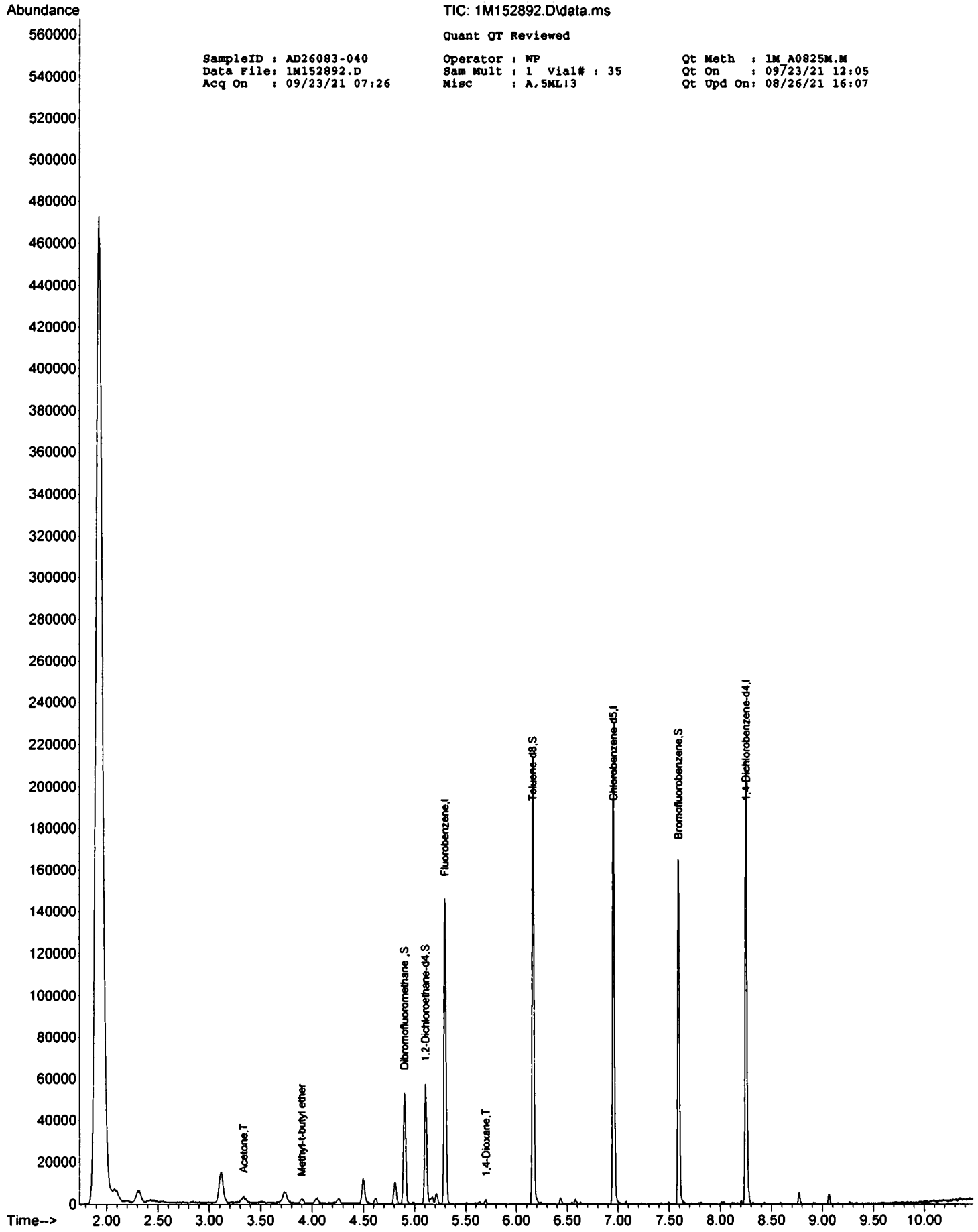
Quantitation Report (QT Reviewed)

SampleID : AD26083-040 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152892.D Sam Mult : 1 Vial# : 35 Qt On : 09/23/21 12:05
Acq On : 09/23/21 07:26 Misc : A,5ML!3 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 87089 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.959 | 117 | 73682 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 38686 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 24279 | 31.89 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.30% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 14200 | 34.31 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 114.37% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 87717 | 27.97 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.23% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 29584 | 29.49 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 98.30% | | | |
| Target Compounds | | | | | | Qvalue |
| 19) Acetone | 3.335 | 43 | 4202m | 25.1822 | ug/l | |
| 26) Methyl-t-butyl ether | 3.898 | 73 | 1725m | 1.0017 | ug/l | |
| 34) 1,4-Dioxane | 5.702 | 88 | 786 | 101.6859 | ug/l | 49 |

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


Abundance
TIC: 1M152892.D\data.ms
Quant QT Reviewed
SampleID : AD26083-040
Data File: 1M152892.D
Acq On : 09/23/21 07:26
Operator : WP
Sam Mult : 1 Vial# : 35
Misc : A,5ML;3
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:05
Qt Upd On: 08/26/21 16:07
Acetone,T
Methyl-t-butyl ether
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
1,4-Dioxane,T
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD26083-042(MS:AD26 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152855.D Sam Mult : 1 Vial# : 78 Qt On : 09/22/21 20:24
Acq On : 09/22/21 20:12 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 84206 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 69881 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 38668 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 23457 | 31.87 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.23% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 14004 | 34.99 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 116.63% | | | |
| 66) Toluene-d8 | 6.168 | 98 | 85586 | 28.78 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 95.93% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 30005 | 29.93 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.77% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.088 | 51 | 36340 | 34.8819 | ug/l | 47 |
| 6) Dichlorodifluoromethane | 2.078 | 85 | 14538 | 33.7990 | ug/l | 100 |
| 7) Chloromethane | 2.239 | 50 | 19373 | 25.6994 | ug/l | 93 |
| 8) Bromomethane | 2.612 | 94 | 2335 | 5.7677 | ug/l | 88 |
| 9) Vinyl Chloride | 2.329 | 62 | 10593 | 14.5516 | ug/l | 100 |
| 10) Chloroethane | 2.689 | 64 | 6064 | 12.5952 | ug/l | 92 |
| 11) Trichlorofluoromethane | 2.904 | 101 | 21145 | 19.7553 | ug/l | 97 |
| 12) Ethyl ether | 3.113 | 59 | 23071 | 47.6885 | ug/l | 70 |
| 13) Furan | 3.152 | 39 | 21489m | 23.7385 | ug/l | |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.300 | 101 | 8138m | 16.4787 | ug/l | |
| 15) Methylene Chloride | 3.679 | 84 | 11881m | 17.2879 | ug/l | |
| 16) Acrolein | 3.213 | 56 | 10286 | 112.5401 | ug/l | 95 |
| 17) Acrylonitrile | 3.863 | 53 | 5836 | 23.9829 | ug/l | 89 |
| 18) Iodomethane | 3.445 | 142 | 6039 | 8.4472 | ug/l | 97 |
| 19) Acetone | 3.326 | 43 | 24848 | 154.0586 | ug/l | 91 |
| 20) Carbon Disulfide | 3.515 | 76 | 41380 | 28.2637 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.734 | 59 | 16538 | 246.3796 | ug/l | 74 |
| 22) n-Hexane | 4.117 | 57 | 9274 | 15.3098 | ug/l | 97 |
| 23) Di-isopropyl-ether | 4.255 | 45 | 48631 | 24.9374 | ug/l | 76 |
| 24) 1,1-Dichloroethene | 3.306 | 61 | 21210 | 18.6672 | ug/l | 83 |
| 25) Methyl Acetate | 3.580 | 43 | 12188 | 23.4406 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.901 | 73 | 32532 | 19.5292 | ug/l | 76 |
| 27) 1,1-Dichloroethane | 4.223 | 63 | 26424 | 20.0510 | ug/l | 89 |
| 28) trans-1,2-Dichloroethene | 3.898 | 96 | 11527 | 16.5059 | ug/l | 71 |
| 29) Ethyl-t-butyl ether | 4.506 | 59 | 42783 | 20.9008 | ug/l | 86 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 25109 | 18.5166 | ug/l | 83 |
| 31) Bromochloromethane | 4.769 | 49 | 14685 | 21.6182 | ug/l | 67 |
| 32) 2,2-Dichloropropane | 4.628 | 77 | 12604 | 11.4108 | ug/l | 97 |
| 33) Ethyl acetate | 4.641 | 43 | 12594m | 18.8897 | ug/l | |
| 34) 1,4-Dioxane | 5.695 | 88 | 7671 | 1026.3854 | ug/l | 79 |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 15927 | 17.0309 | ug/l | 94 |
| 36) Chloroform | 4.805 | 83 | 23200 | 18.0651 | ug/l | 95 |
| 38) Cyclohexane | 4.981 | 56 | 16300 | 17.9752 | ug/l | 72 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 21474 | 18.7952 | ug/l | 96 |
| 41) 2-Butanone | 4.631 | 43 | 10837m | 28.9936 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.940 | 97 | 21408 | 18.0495 | ug/l | 95 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 15000 | 15.1934 | ug/l | 98 |
| 44) Vinyl Acetate | 4.252 | 43 | 45636 | 23.6448 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 16896 | 17.3990 | ug/l | 98 |
| 46) Methylcyclohexane | 5.628 | 83 | 9696 | 12.9622 | ug/l | 78 |
| 47) Dibromomethane | 5.695 | 174 | 7711 | 16.0828 | ug/l | 88 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 14011 | 19.0836 | ug/l | 100 |
| 49) Trichloroethene | 5.506 | 130 | 12431 | 16.1330 | ug/l | 95 |
| 50) Benzene | 5.152 | 78 | 46571 | 17.1638 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 29612 | 16.9713 | ug/l | 88 |
| 53) Iso-propylacetate | 5.145 | 43 | 25534 | 20.3851 | ug/l | 92 |
| 54) Methyl methacrylate | 5.657 | 41 | 10897 | 20.5701 | ug/l | 65 |
| 55) Dibromochloromethane | 6.634 | 129 | 11477 | 14.6309 | ug/l | 95 |
| 57) cis-1,3-Dichloropropene | 6.007 | 75 | 14915 | 13.6312 | ug/l | 100 |
| 58) trans-1,3-Dichloropropene | 6.297 | 75 | 13762 | 13.3726 | ug/l | 98 |
| 59) Ethyl methacrylate | 6.325 | 41 | 11733 | 19.7528 | ug/l | 62 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 10698 | 16.1502 | ug/l | 93 |
| 61) 1,2-Dibromoethane | 6.711 | 107 | 10352 | 15.1981 | ug/l | 96 |
| 62) 1,3-Dichloropropane | 6.499 | 76 | 17926 | 15.9652 | ug/l | 92 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 12807 | 20.8971 | ug/l | 90 |
| 64) 2-Hexanone | 6.522 | 43 | 8876 | 21.0918 | ug/l | 97 |
| 65) Tetrachloroethene | 6.509 | 164 | 9464 | 14.5153 | ug/l | 86 |
| 67) Toluene | 6.203 | 92 | 29352 | 15.5558 | ug/l | 92 |
| 68) 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 10382 | 14.3260 | ug/l | 100 |

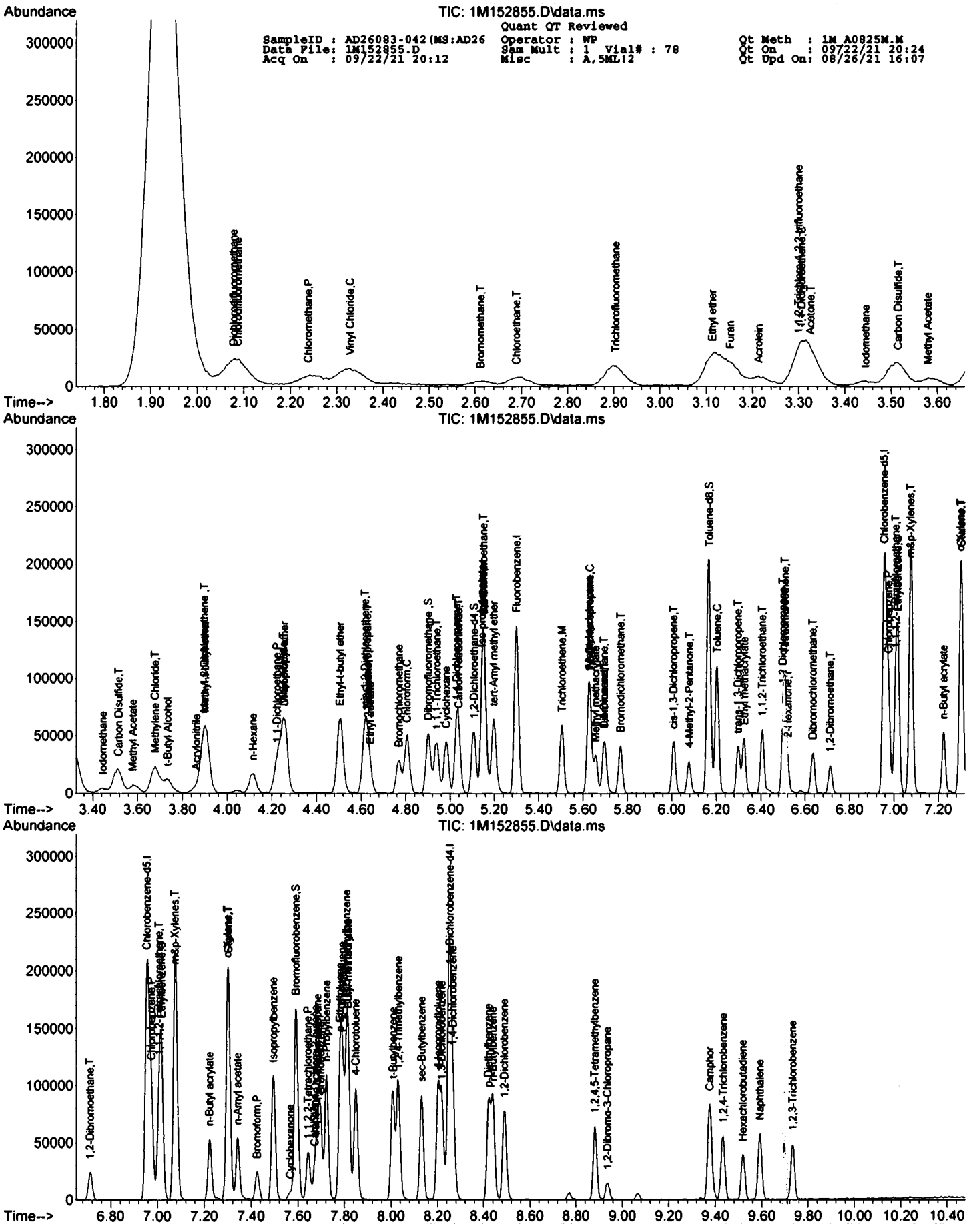
Quantitation Report (QT Reviewed)

SampleID : AD26083-042(MS:AD26 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152855.D Sam Mult : 1 Vial# : 78 Qt On : 09/22/21 20:24
Acq On : 09/22/21 20:12 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 69) | Chlorobenzene | 6.975 | 112 | 31916 | 15.2841 | ug/l | 95 |
| 71) | n-Butyl acrylate | 7.223 | 55 | 24735 | 17.5086 | ug/l | 86 |
| 72) | n-Amyl acetate | 7.341 | 43 | 21223 | 19.1235 | ug/l | 82 |
| 73) | Bromoform | 7.425 | 173 | 7335 | 13.7525 | ug/l | 83 |
| 74) | Ethylbenzene | 7.017 | 106 | 14652 | 15.3465 | ug/l | 97 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 13501 | 16.2445 | ug/l | 99 |
| 77) | Styrene | 7.303 | 104 | 33209 | 14.4811 | ug/l | 95 |
| 78) | m&p-Xylenes | 7.075 | 106 | 40357 | 29.6205 | ug/l | 99 |
| 79) | o-Xylene | 7.300 | 106 | 19770 | 14.9742 | ug/l | 88 |
| 80) | trans-1,4-Dichloro-2-b... | 7.676 | 53 | 2561 | 7.3569 | ug/l | 91 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 23087 | 14.3376 | ug/l | 96 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 23856 | 14.3404 | ug/l | 97 |
| 83) | 1,2-Dichlorobenzene | 8.489 | 146 | 22191 | 14.4231 | ug/l | 96 |
| 84) | Isopropylbenzene | 7.496 | 105 | 47708 | 14.7816 | ug/l | 98 |
| 85) | Cyclohexanone | 7.567 | 55 | 2337 | 71.8617 | ug/l | 84 |
| 86) | Camphene | 7.673 | 93 | 1729 | 2.3761 | ug/l | 92 |
| 87) | 1,2,3-Trichloropropane | 7.686 | 75 | 14531 | 13.5650 | ug/l | 94 |
| 88) | 2-Chlorotoluene | 7.792 | 91 | 33464 | 15.7975 | ug/l | 91 |
| 89) | p-Ethyltoluene | 7.782 | 105 | 46549 | 14.5470 | ug/l | 92 |
| 90) | 4-Chlorotoluene | 7.849 | 91 | 32392 | 15.2490 | ug/l | 96 |
| 91) | n-Propylbenzene | 7.724 | 91 | 55589 | 14.7037 | ug/l | 96 |
| 92) | Bromobenzene | 7.698 | 77 | 25220 | 13.6362 | ug/l | 74 |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 37593 | 14.3174 | ug/l | 98 |
| 94) | Butyl methacrylate | 7.817 | 41 | 19389 | 20.2255 | ug/l | 53 |
| 95) | t-Butylbenzene | 8.010 | 119 | 34988 | 14.3455 | ug/l | 98 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 39337 | 14.4095 | ug/l | 96 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 42562 | 14.2291 | ug/l | 97 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 34918 | 13.9319 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.441 | 91 | 39898 | 14.7626 | ug/l | 95 |
| 100) | p-Diethylbenzene | 8.422 | 119 | 18620 | 12.9330 | ug/l | 96 |
| 101) | 1,2,4,5-Tetramethylben... | 8.882 | 119 | 23299 | 11.8071 | ug/l | 95 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.936 | 157 | 2691 | 15.5901 | ug/l | 91 |
| 103) | Camphor | 9.377 | 95 | 14840 | 182.1254 | ug/l | 96 |
| 104) | Hexachlorobutadiene | 9.518 | 225 | 5153 | 13.7963 | ug/l | 97 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 12221 | 14.3896 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.734 | 180 | 10046 | 14.8139 | ug/l | 97 |
| 107) | Naphthalene | 9.592 | 128 | 30734 | 15.0783 | ug/l | 98 |

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


Abundance
TIC: 1M152855.D\data.ms
Quant QT Reviewed
SampleID : AD26083-042(MS:AD26
Data File: 1M152855.D
Acq On : 09/22/21 20:12
Operator : WP
Sam Mult : 1 Vial# : 78
Misc : A,5ML12
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 20:24
Qt Upd On: 08/26/21 16:07
Time-->
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Abundance
TIC: 1M152855.D\data.ms
Time-->
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
1,1,1-Trichloroethane,I
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Abundance
TIC: 1M152855.D\data.ms
Time-->
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Quantitation Report (QT Reviewed)

SampleID : AD26083-044(MSD:AD2 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152856.D Sam Mult : 1 Vial# : 79 Qt On : 09/22/21 20:54
Acq On : 09/22/21 20:31 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 88460 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 72333 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.251 | 152 | 39866 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 24938 | 32.25 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 107.50% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 14061 | 33.45 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 111.50% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 88844 | 28.86 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.20% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 30750 | 29.75 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.17% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 2.088 | 51 | 36800 | 33.6267 | ug/l | 45 |
| 6) Dichlorodifluoromethane | 2.072 | 85 | 13996 | 31.1007 | ug/l | 96 |
| 7) Chloromethane | 2.245 | 50 | 20138 | 25.4295 | ug/l | 86 |
| 8) Bromomethane | 2.615 | 94 | 2568 | 6.0382 | ug/l | 99 |
| 9) Vinyl Chloride | 2.332 | 62 | 17949 | 23.4708 | ug/l | 96 |
| 10) Chloroethane | 2.686 | 64 | 11379 | 22.4981 | ug/l | 93 |
| 11) Trichlorofluoromethane | 2.901 | 101 | 20768 | 18.4700 | ug/l | 95 |
| 12) Ethyl ether | 3.110 | 59 | 22375m | 44.0257 | ug/l | |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.300 | 101 | 7836m | 15.1041 | ug/l | |
| 15) Methylene Chloride | 3.676 | 84 | 11576 | 16.0341 | ug/l | 61 |
| 16) Acrolein | 3.216 | 56 | 10496 | 109.3152 | ug/l | 91 |
| 17) Acrylonitrile | 3.862 | 53 | 6507 | 25.4496 | ug/l | 97 |
| 18) Iodomethane | 3.448 | 142 | 7165 | 9.5393 | ug/l | 100 |
| 19) Acetone | 3.326 | 43 | 12177 | 71.8528 | ug/l | 97 |
| 20) Carbon Disulfide | 3.512 | 76 | 40211 | 26.1445 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.724 | 59 | 18024 | 255.6048 | ug/l | 91 |
| 22) n-Hexane | 4.117 | 57 | 9432m | 14.8218 | ug/l | |
| 23) Di-isopropyl-ether | 4.255 | 45 | 49471 | 24.1482 | ug/l | 75 |
| 24) 1,1-Dichloroethene | 3.313 | 61 | 21194 | 17.7561 | ug/l | 83 |
| 25) Methyl Acetate | 3.589 | 43 | 12018 | 22.0021 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.901 | 73 | 32670 | 18.6693 | ug/l | 78 |
| 27) 1,1-Dichloroethane | 4.226 | 63 | 25764 | 18.6101 | ug/l | 94 |
| 28) trans-1,2-Dichloroethene | 3.904 | 96 | 11468 | 15.6317 | ug/l | 77 |
| 29) Ethyl-t-butyl ether | 4.506 | 59 | 40419 | 18.7963 | ug/l | 87 |
| 30) cis-1,2-Dichloroethene | 4.618 | 61 | 24683 | 17.3271 | ug/l | 78 |
| 31) Bromochloromethane | 4.766 | 49 | 14022 | 19.6495 | ug/l | 63 |
| 32) 2,2-Dichloropropane | 4.628 | 77 | 12615 | 10.8716 | ug/l | 93 |
| 33) Ethyl acetate | 4.641 | 43 | 10269m | 14.6617 | ug/l | |
| 34) 1,4-Dioxane | 5.695 | 88 | 8534 | 1086.9441 | ug/l | 80 |
| 35) 1,1-Dichloropropene | 5.033 | 75 | 15940 | 16.2251 | ug/l | 92 |
| 36) Chloroform | 4.805 | 83 | 22619 | 16.7657 | ug/l | 91 |
| 38) Cyclohexane | 4.985 | 56 | 15992 | 16.7875 | ug/l | 74 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 20904 | 17.4164 | ug/l | 97 |
| 41) 2-Butanone | 4.628 | 43 | 8835m | 22.4966 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.940 | 97 | 20956 | 16.8188 | ug/l | 99 |
| 43) Carbon Tetrachloride | 5.043 | 117 | 14359 | 13.8447 | ug/l | 98 |
| 44) Vinyl Acetate | 4.248 | 43 | 45963 | 22.6690 | ug/l | 100 |
| 45) Bromodichloromethane | 5.766 | 83 | 16350 | 16.0271 | ug/l | 98 |
| 46) Methylcyclohexane | 5.624 | 83 | 9758 | 12.4177 | ug/l | 76 |
| 47) Dibromomethane | 5.695 | 174 | 7545 | 14.9799 | ug/l | 95 |
| 48) 1,2-Dichloropropane | 5.628 | 63 | 14053 | 18.2204 | ug/l | 93 |
| 49) Trichloroethene | 5.505 | 130 | 12164 | 15.0273 | ug/l | 98 |
| 50) Benzene | 5.155 | 78 | 46071 | 16.1630 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 30457 | 16.6162 | ug/l | 88 |
| 53) Iso-propylacetate | 5.145 | 43 | 26548 | 20.4762 | ug/l | 93 |
| 54) Methyl methacrylate | 5.660 | 41 | 10784 | 19.6667 | ug/l | 68 |
| 55) Dibromochloromethane | 6.634 | 129 | 11275 | 13.8861 | ug/l | 98 |
| 57) cis-1,3-Dichloropropene | 6.007 | 75 | 14989 | 13.2344 | ug/l | 97 |
| 58) trans-1,3-Dichloropropene | 6.296 | 75 | 13765 | 12.9221 | ug/l | 98 |
| 59) Ethyl methacrylate | 6.322 | 41 | 13105 | 21.3148 | ug/l | 57 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 10192 | 14.8647 | ug/l | 90 |
| 61) 1,2-Dibromoethane | 6.714 | 107 | 10590 | 15.0204 | ug/l | 95 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 18298 | 15.7441 | ug/l | 96 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 13293 | 20.9548 | ug/l | 87 |
| 64) 2-Hexanone | 6.522 | 43 | 9574 | 21.9793 | ug/l | 89 |
| 65) Tetrachloroethene | 6.509 | 164 | 9391 | 13.9151 | ug/l | 100 |
| 67) Toluene | 6.200 | 92 | 29782 | 15.2486 | ug/l | 99 |
| 68) 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 10811 | 14.4123 | ug/l | 96 |
| 69) Chlorobenzene | 6.975 | 112 | 33193 | 15.3568 | ug/l | 93 |

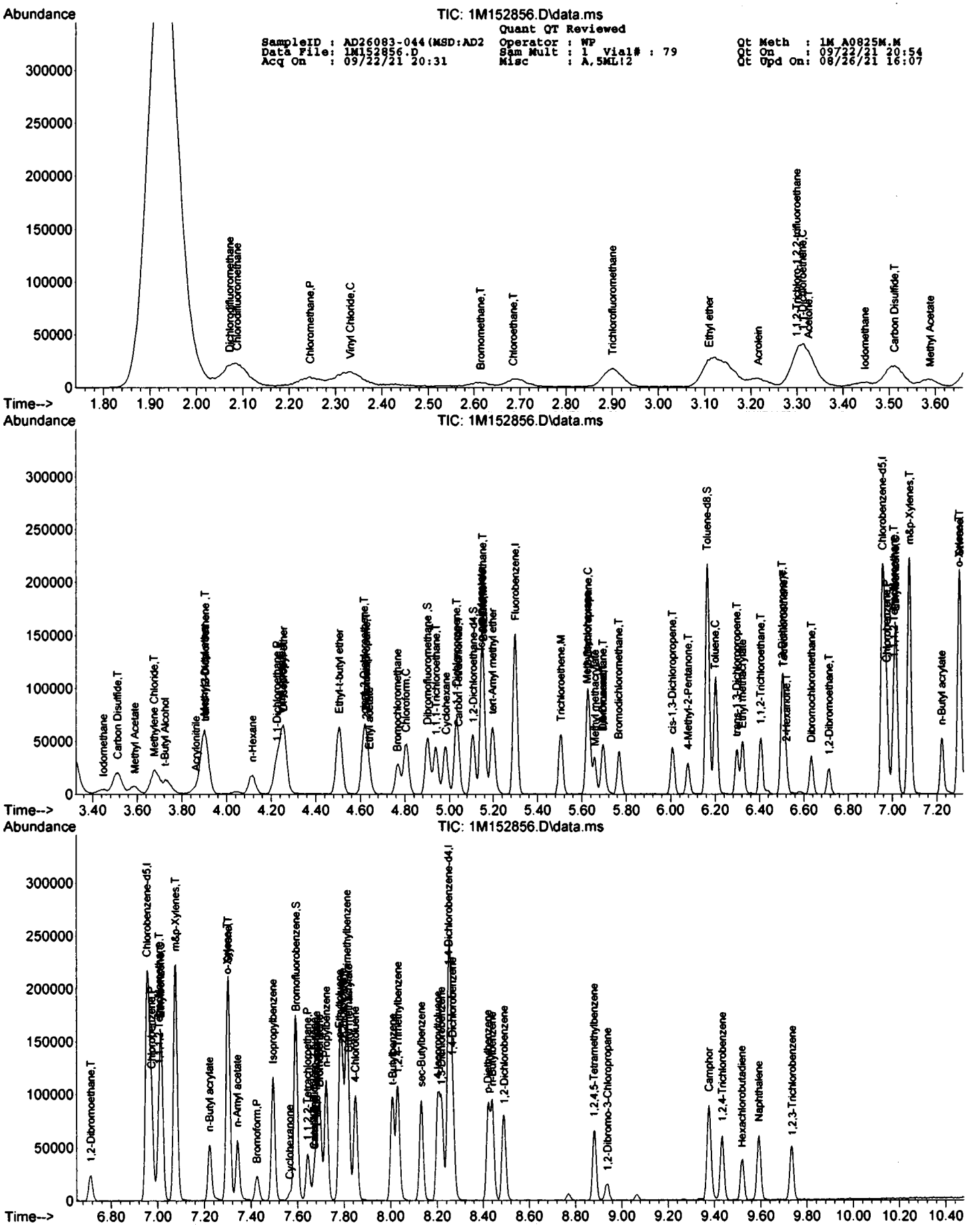
Quantitation Report (QT Reviewed)

SampleID : AD26083-044(MSD:AD2 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152856.D Sam Mult : 1 Vial# : 79 Qt On : 09/22/21 20:54
Acq On : 09/22/21 20:31 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 71) | n-Butyl acrylate | 7.222 | 55 | 25586 | 17.5667 | ug/l | 87 |
| 72) | n-Amyl acetate | 7.341 | 43 | 22529 | 19.6903 | ug/l | 82 |
| 73) | Bromoform | 7.425 | 173 | 7310 | 13.2938 | ug/l | 88 |
| 74) | Ethylbenzene | 7.013 | 106 | 15072 | 15.3120 | ug/l | 88 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 14315 | 16.7064 | ug/l | 96 |
| 77) | Styrene | 7.303 | 104 | 33280 | 14.0759 | ug/l | 93 |
| 78) | m&p-Xylenes | 7.078 | 106 | 41436 | 29.4985 | ug/l | 96 |
| 79) | o-Xylene | 7.300 | 106 | 20437 | 15.0143 | ug/l | 95 |
| 80) | trans-1,4-Dichloro-2-b... | 7.673 | 53 | 2690 | 7.4952 | ug/l | 87 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 23290 | 14.0290 | ug/l | 98 |
| 82) | 1,4-Dichlorobenzene | 8.267 | 146 | 24502 | 14.2861 | ug/l | 97 |
| 83) | 1,2-Dichlorobenzene | 8.493 | 146 | 22609 | 14.2532 | ug/l | 98 |
| 84) | Isopropylbenzene | 7.496 | 105 | 49114 | 14.7599 | ug/l | 98 |
| 85) | Cyclohexanone | 7.567 | 55 | 2978 | 88.8203 | ug/l | 87 |
| 86) | Camphene | 7.673 | 93 | 1820 | 2.4260 | ug/l | 91 |
| 87) | 1,2,3-Trichloropropane | 7.682 | 75 | 15329 | 13.8799 | ug/l | 93 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 34196 | 15.6579 | ug/l | 91 |
| 89) | p-Ethyltoluene | 7.782 | 105 | 47732 | 14.4685 | ug/l | 96 |
| 90) | 4-Chlorotoluene | 7.849 | 91 | 32784 | 14.9698 | ug/l | 95 |
| 91) | n-Propylbenzene | 7.724 | 91 | 57712 | 14.8065 | ug/l | 96 |
| 92) | Bromobenzene | 7.695 | 77 | 26389 | 13.8395 | ug/l | 75 |
| 93) | 1,3,5-Trimethylbenzene | 7.814 | 105 | 40148 | 14.8310 | ug/l | 94 |
| 94) | Butyl methacrylate | 7.821 | 41 | 19955 | 20.1904 | ug/l | 51 |
| 95) | t-Butylbenzene | 8.010 | 119 | 35908 | 14.2803 | ug/l | 96 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 40260 | 14.3044 | ug/l | 98 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 43248 | 14.0240 | ug/l | 97 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 35410 | 13.7037 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.441 | 91 | 40323 | 14.4715 | ug/l | 97 |
| 100) | p-Diethylbenzene | 8.422 | 119 | 20443 | 13.7725 | ug/l | 97 |
| 101) | 1,2,4,5-Tetramethylben... | 8.882 | 119 | 24363 | 11.9753 | ug/l | 96 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.939 | 157 | 2915 | 16.3803 | ug/l | 95 |
| 103) | Camphor | 9.377 | 95 | 15109 | 179.8545 | ug/l | 98 |
| 104) | Hexachlorobutadiene | 9.518 | 225 | 5140 | 13.3479 | ug/l | 94 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 12391 | 14.1514 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.737 | 180 | 10815 | 15.4686 | ug/l | 97 |
| 107) | Naphthalene | 9.592 | 128 | 33675 | 16.0247 | ug/l | 99 |

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


Abundance
TIC: 1M152856.D\data.ms
Quant QT Reviewed
SampleID : AD26083-044(MSD:AD2
Data File: 1M152856.D
Acq On : 09/22/21 20:31
Operator : WP
Sam Mult : 1 Vial# : 79
Misc : A,5ML12
Qt Meth : 1M_A0825M.M
Qt On : 09/22/21 20:54
Qt Upd On: 08/26/21 16:07
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Acrolein
Acetone,I
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->
Abundance
TIC: 1M152856.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->
Abundance
TIC: 1M152856.D\data.ms
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
1,4-Dichlorobenzene-d4,I
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

# Form3
## Recovery Data Laboratory Limits
### QC Batch:MBS96787

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 2M157125.D | AD26083-049(MS:AD26083-048 | 9/22/2021 4:51:00 PM |
| Non Spike(If applicable): | 2M157124.D | AD26083-048 | 9/22/2021 4:32:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 14.2058 | 0 | 20 | 71 | 50 | 150 |
| Dichlorodifluoromethane | 1 | 37.8605 | 0 | 20 | 189* | 50 | 150 |
| Chloromethane | 1 | 18.4756 | 0 | 20 | 92 | 50 | 150 |
| Bromomethane | 1 | 5.3689 | 0 | 20 | 27* | 50 | 150 |
| Vinyl Chloride | 1 | 19.9301 | 0 | 20 | 100 | 50 | 150 |
| Chloroethane | 1 | 18.3664 | 0 | 20 | 92 | 50 | 150 |
| Trichlorofluoromethane | 1 | 19.8891 | 0 | 20 | 99 | 50 | 150 |
| Ethyl ether | 1 | 16.4224 | 0 | 20 | 82 | 50 | 150 |
| Furan | 1 | 14.9563 | 0 | 20 | 75 | 50 | 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 19.4108 | 0 | 20 | 97 | 50 | 150 |
| Methylene Chloride | 1 | 16.9212 | 0 | 20 | 85 | 70 | 130 |
| Acrolein | 1 | 63.2807 | 0 | 100 | 63 | 50 | 150 |
| Acrylonitrile | 1 | 15.2524 | 0 | 20 | 76 | 50 | 150 |
| Iodomethane | 1 | 12.7076 | 0 | 20 | 64 | 50 | 150 |
| Acetone | 1 | 74.5505 | 0 | 100 | 75 | 50 | 150 |
| Carbon Disulfide | 1 | 16.9369 | 0 | 20 | 85 | 50 | 150 |
| t-Butyl Alcohol | 1 | 71.419 | 0 | 100 | 71 | 50 | 150 |
| n-Hexane | 1 | 13.2533 | 0 | 20 | 66* | 70 | 130 |
| Di-isopropyl-ether | 1 | 15.3605 | 0 | 20 | 77 | 70 | 130 |
| 1,1-Dichloroethene | 1 | 15.6608 | 0 | 20 | 78 | 70 | 130 |
| Methyl Acetate | 1 | 12.6023 | 0 | 20 | 63 | 50 | 150 |
| Methyl-t-butyl ether | 1 | 15.2747 | 0 | 20 | 76 | 70 | 130 |
| 1,1-Dichloroethane | 1 | 15.9727 | 0 | 20 | 80 | 70 | 130 |
| trans-1,2-Dichloroethene | 1 | 18.3884 | 0 | 20 | 92 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 14.777 | 0 | 20 | 74 | 70 | 130 |
| cis-1,2-Dichloroethene | 1 | 15.0621 | 0 | 20 | 75 | 70 | 130 |
| Bromochloromethane | 1 | 16.7927 | 0 | 20 | 84 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 10.2248 | 0 | 20 | 51* | 70 | 130 |
| Ethyl acetate | 1 | 13.0789 | 0 | 20 | 65 | 50 | 150 |
| 1,4-Dioxane | 1 | 876.1692 | 0 | 1000 | 88 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 17.3398 | 0 | 20 | 87 | 70 | 130 |
| Chloroform | 1 | 18.249 | 0 | 20 | 91 | 70 | 130 |
| Cyclohexane | 1 | 16.127 | 0 | 20 | 81 | 70 | 130 |
| 1,2-Dichloroethane | 1 | 15.7958 | 0 | 20 | 79 | 70 | 130 |
| 2-Butanone | 1 | 14.2469 | 0 | 20 | 71 | 50 | 150 |
| 1,1,1-Trichloroethane | 1 | 19.5699 | 0 | 20 | 98 | 70 | 130 |
| Carbon Tetrachloride | 1 | 19.271 | 0 | 20 | 96 | 50 | 150 |
| Vinyl Acetate | 1 | 13.1855 | 0 | 20 | 66 | 50 | 150 |
| Bromodichloromethane | 1 | 17.2009 | 0 | 20 | 86 | 70 | 130 |
| Methylcyclohexane | 1 | 17.0488 | 0 | 20 | 85 | 70 | 130 |
| Dibromomethane | 1 | 24.7012 | 0 | 20 | 124 | 70 | 130 |
| 1,2-Dichloropropane | 1 | 16.6015 | 0 | 20 | 83 | 70 | 130 |
| Trichloroethene | 1 | 22.347 | 0 | 20 | 112 | 70 | 130 |
| Benzene | 1 | 16.9653 | 0 | 20 | 85 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 15.5185 | 0 | 20 | 78 | 70 | 130 |
| Iso-propylacetate | 1 | 10.6231 | 0 | 20 | 53* | 70 | 130 |
| Methyl methacrylate | 1 | 12.4486 | 0 | 20 | 62* | 70 | 130 |
| Dibromochloromethane | 1 | 16.8353 | 0 | 20 | 84 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| cis-1,3-Dichloropropene | 1 | 11.8305 | 0 | 20 | 59* | 70 | 130 |
| trans-1,3-Dichloropropene | 1 | 11.8464 | 0 | 20 | 59* | 70 | 130 |
| Ethyl methacrylate | 1 | 12.5931 | 0 | 20 | 63* | 70 | 130 |
| 1,1,2-Trichloroethane | 1 | 15.2957 | 0 | 20 | 76 | 70 | 130 |
| 1,2-Dibromoethane | 1 | 16.1677 | 0 | 20 | 81 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 14.3253 | 0 | 20 | 72 | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 13.242 | 0 | 20 | 66 | 50 | 150 |
| 2-Hexanone | 1 | 13.1779 | 0 | 20 | 66 | 50 | 150 |
| Tetrachloroethene | 1 | 21.3138 | 0 | 20 | 107 | 50 | 150 |
| Toluene | 1 | 15.5519 | 0 | 20 | 78 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 18.0803 | 0 | 20 | 90 | 70 | 130 |
| Chlorobenzene | 1 | 17.1418 | 0 | 20 | 86 | 70 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96787

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 9.7472 | 0 | 20 | 49* | 70 | 130 |
| n-Amyl acetate | 1 | 8.5093 | 0 | 20 | 43* | 70 | 130 |
| Bromoform | 1 | 14.1773 | 0 | 20 | 71 | 70 | 130 |
| Ethylbenzene | 1 | 12.8175 | 0 | 20 | 64* | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 1 | 12.5888 | 0 | 20 | 63* | 70 | 130 |
| Styrene | 1 | 12.8877 | 0 | 20 | 64* | 70 | 130 |
| m&p-Xylenes | 1 | 26.6471 | 0 | 40 | 67* | 70 | 130 |
| o-Xylene | 1 | 13.5995 | 0 | 20 | 68* | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 5.0436 | 0 | 20 | 25* | 50 | 150 |
| 1,3-Dichlorobenzene | 1 | 15.4797 | 0 | 20 | 77 | 70 | 130 |
| 1,4-Dichlorobenzene | 1 | 15.3639 | 0 | 20 | 77 | 70 | 130 |
| 1,2-Dichlorobenzene | 1 | 15.1771 | 0 | 20 | 76 | 70 | 130 |
| Isopropylbenzene | 1 | 13.8024 | 0 | 20 | 69* | 70 | 130 |
| Cyclohexanone | 1 | 43.8259 | 0 | 100 | 44* | 50 | 150 |
| Camphene | 1 | 2.2611 | 0 | 20 | 11* | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 10.1309 | 0 | 20 | 51* | 70 | 130 |
| 2-Chlorotoluene | 1 | 12.7164 | 0 | 20 | 64* | 70 | 130 |
| p-Ethyltoluene | 1 | 13.839 | 0 | 20 | 69* | 70 | 130 |
| 4-Chlorotoluene | 1 | 12.2213 | 0 | 20 | 61* | 70 | 130 |
| n-Propylbenzene | 1 | 12.9445 | 0 | 20 | 65* | 70 | 130 |
| Bromobenzene | 1 | 10.5953 | 0 | 20 | 53* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 13.1451 | 0 | 20 | 66* | 70 | 130 |
| Butyl methacrylate | 1 | 10.2523 | 0 | 20 | 51* | 70 | 130 |
| t-Butylbenzene | 1 | 14.3766 | 0 | 20 | 72 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 12.8313 | 0 | 20 | 64* | 70 | 130 |
| sec-Butylbenzene | 1 | 13.6014 | 0 | 20 | 68* | 70 | 130 |
| 4-Isopropyltoluene | 1 | 14.266 | 0 | 20 | 71 | 70 | 130 |
| n-Butylbenzene | 1 | 12.3961 | 0 | 20 | 62* | 70 | 130 |
| p-Diethylbenzene | 1 | 13.3618 | 0 | 20 | 67* | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 11.9591 | 0 | 20 | 60* | 70 | 130 |
| 1,2-Dibromo-3-Chloropropane | 1 | 13.8727 | 0 | 20 | 69 | 50 | 150 |
| Camphor | 1 | 126.7695 | 0 | 200 | 63 | 20 | 150 |
| Hexachlorobutadiene | 1 | 18.1118 | 0 | 20 | 91 | 50 | 150 |
| 1,2,4-Trichlorobenzene | 1 | 15.909 | 0 | 20 | 80 | 70 | 130 |
| 1,2,3-Trichlorobenzene | 1 | 14.8433 | 0 | 20 | 74 | 70 | 130 |
| Naphthalene | 1 | 12.5643 | 0 | 20 | 63 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96787

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 2M157126.D | AD26083-050(MSD:AD26083-0 | 9/22/2021 5:10:00 PM |
| Non Spike(If applicable): | 2M157124.D | AD26083-048 | 9/22/2021 4:32:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 13.8388 | 0 | 20 | 69 | 50 | 150 |
| Dichlorodifluoromethane | 1 | 36.1387 | 0 | 20 | 181* | 50 | 150 |
| Chloromethane | 1 | 17.9161 | 0 | 20 | 90 | 50 | 150 |
| Bromomethane | 1 | 5.3183 | 0 | 20 | 27* | 50 | 150 |
| Vinyl Chloride | 1 | 18.6302 | 0 | 20 | 93 | 50 | 150 |
| Chloroethane | 1 | 18.5234 | 0 | 20 | 93 | 50 | 150 |
| Trichlorofluoromethane | 1 | 19.5363 | 0 | 20 | 98 | 50 | 150 |
| Ethyl ether | 1 | 16.0488 | 0 | 20 | 80 | 50 | 150 |
| Furan | 1 | 14.4074 | 0 | 20 | 72 | 50 | 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 18.5441 | 0 | 20 | 93 | 50 | 150 |
| Methylene Chloride | 1 | 15.5787 | 0 | 20 | 78 | 70 | 130 |
| Acrolein | 1 | 63.1224 | 0 | 100 | 63 | 50 | 150 |
| Acrylonitrile | 1 | 15.0558 | 0 | 20 | 75 | 50 | 150 |
| Iodomethane | 1 | 13.9498 | 0 | 20 | 70 | 50 | 150 |
| Acetone | 1 | 74.9361 | 0 | 100 | 75 | 50 | 150 |
| Carbon Disulfide | 1 | 14.9235 | 0 | 20 | 75 | 50 | 150 |
| t-Butyl Alcohol | 1 | 81.4792 | 0 | 100 | 81 | 50 | 150 |
| n-Hexane | 1 | 13.5103 | 0 | 20 | 68* | 70 | 130 |
| Di-isopropyl-ether | 1 | 14.6511 | 0 | 20 | 73 | 70 | 130 |
| 1,1-Dichloroethene | 1 | 14.6064 | 0 | 20 | 73 | 70 | 130 |
| Methyl Acetate | 1 | 12.1884 | 0 | 20 | 61 | 50 | 150 |
| Methyl-t-butyl ether | 1 | 14.8929 | 0 | 20 | 74 | 70 | 130 |
| 1,1-Dichloroethane | 1 | 15.2144 | 0 | 20 | 76 | 70 | 130 |
| trans-1,2-Dichloroethene | 1 | 16.7615 | 0 | 20 | 84 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 14.1248 | 0 | 20 | 71 | 70 | 130 |
| cis-1,2-Dichloroethene | 1 | 14.2066 | 0 | 20 | 71 | 70 | 130 |
| Bromochloromethane | 1 | 15.6231 | 0 | 20 | 78 | 70 | 130 |
| 2,2-Dichloropropane | 1 | 9.7424 | 0 | 20 | 49* | 70 | 130 |
| Ethyl acetate | 1 | 12.8955 | 0 | 20 | 64 | 50 | 150 |
| 1,4-Dioxane | 1 | 968.1134 | 0 | 1000 | 97 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 15.8554 | 0 | 20 | 79 | 70 | 130 |
| Chloroform | 1 | 17.4529 | 0 | 20 | 87 | 70 | 130 |
| Cyclohexane | 1 | 15.7586 | 0 | 20 | 79 | 70 | 130 |
| 1,2-Dichloroethane | 1 | 15.2777 | 0 | 20 | 76 | 70 | 130 |
| 2-Butanone | 1 | 14.0543 | 0 | 20 | 70 | 50 | 150 |
| 1,1,1-Trichloroethane | 1 | 18.1601 | 0 | 20 | 91 | 70 | 130 |
| Carbon Tetrachloride | 1 | 18.4131 | 0 | 20 | 92 | 50 | 150 |
| Vinyl Acetate | 1 | 12.6406 | 0 | 20 | 63 | 50 | 150 |
| Bromodichloromethane | 1 | 16.5643 | 0 | 20 | 83 | 70 | 130 |
| Methylcyclohexane | 1 | 17.4564 | 0 | 20 | 87 | 70 | 130 |
| Dibromomethane | 1 | 23.9211 | 0 | 20 | 120 | 70 | 130 |
| 1,2-Dichloropropane | 1 | 15.9531 | 0 | 20 | 80 | 70 | 130 |
| Trichloroethene | 1 | 21.4618 | 0 | 20 | 107 | 70 | 130 |
| Benzene | 1 | 16.1884 | 0 | 20 | 81 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 14.8005 | 0 | 20 | 74 | 70 | 130 |
| Iso-propylacetate | 1 | 10.4314 | 0 | 20 | 52* | 70 | 130 |
| Methyl methacrylate | 1 | 12.7686 | 0 | 20 | 64* | 70 | 130 |
| Dibromochloromethane | 1 | 16.1172 | 0 | 20 | 81 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| cis-1,3-Dichloropropene | 1 | 11.315 | 0 | 20 | 57* | 70 | 130 |
| trans-1,3-Dichloropropene | 1 | 11.4766 | 0 | 20 | 57* | 70 | 130 |
| Ethyl methacrylate | 1 | 11.919 | 0 | 20 | 60* | 70 | 130 |
| 1,1,2-Trichloroethane | 1 | 14.8366 | 0 | 20 | 74 | 70 | 130 |
| 1,2-Dibromoethane | 1 | 15.2367 | 0 | 20 | 76 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 13.4411 | 0 | 20 | 67* | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 12.6919 | 0 | 20 | 63 | 50 | 150 |
| 2-Hexanone | 1 | 12.589 | 0 | 20 | 63 | 50 | 150 |
| Tetrachloroethene | 1 | 20.2342 | 0 | 20 | 101 | 50 | 150 |
| Toluene | 1 | 14.8686 | 0 | 20 | 74 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 16.6241 | 0 | 20 | 83 | 70 | 130 |
| Chlorobenzene | 1 | 16.4084 | 0 | 20 | 82 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96787

| Method: 8260D | Matrix: Aqueous | | Units: ug/L | QC Type: MSD | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| n-Butyl acrylate | 1 | 9.7145 | 0 | 20 | 49* | 70 | 130 |
| n-Amyl acetate | 1 | 8.1144 | 0 | 20 | 41* | 70 | 130 |
| Bromoform | 1 | 13.2981 | 0 | 20 | 66* | 70 | 130 |
| Ethylbenzene | 1 | 12.9571 | 0 | 20 | 65* | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 1 | 11.4841 | 0 | 20 | 57* | 70 | 130 |
| Styrene | 1 | 12.4504 | 0 | 20 | 62* | 70 | 130 |
| m&p-Xylenes | 1 | 25.5704 | 0 | 40 | 64* | 70 | 130 |
| o-Xylene | 1 | 13.166 | 0 | 20 | 66* | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 5.3287 | 0 | 20 | 27* | 50 | 150 |
| 1,3-Dichlorobenzene | 1 | 15.4186 | 0 | 20 | 77 | 70 | 130 |
| 1,4-Dichlorobenzene | 1 | 15.2207 | 0 | 20 | 76 | 70 | 130 |
| 1,2-Dichlorobenzene | 1 | 15.1407 | 0 | 20 | 76 | 70 | 130 |
| Isopropylbenzene | 1 | 13.6377 | 0 | 20 | 68* | 70 | 130 |
| Cyclohexanone | 1 | 44.5709 | 0 | 100 | 45* | 50 | 150 |
| Camphene | 1 | 2.3173 | 0 | 20 | 12* | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 10.0368 | 0 | 20 | 50* | 70 | 130 |
| 2-Chlorotoluene | 1 | 12.4191 | 0 | 20 | 62* | 70 | 130 |
| p-Ethyltoluene | 1 | 14.0091 | 0 | 20 | 70 | 70 | 130 |
| 4-Chlorotoluene | 1 | 11.6748 | 0 | 20 | 58* | 70 | 130 |
| n-Propylbenzene | 1 | 12.9056 | 0 | 20 | 65* | 70 | 130 |
| Bromobenzene | 1 | 10.2716 | 0 | 20 | 51* | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 12.8632 | 0 | 20 | 64* | 70 | 130 |
| Butyl methacrylate | 1 | 10.1345 | 0 | 20 | 51* | 70 | 130 |
| t-Butylbenzene | 1 | 14.3945 | 0 | 20 | 72 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 13.2255 | 0 | 20 | 66* | 70 | 130 |
| sec-Butylbenzene | 1 | 13.6244 | 0 | 20 | 68* | 70 | 130 |
| 4-Isopropyltoluene | 1 | 14.4233 | 0 | 20 | 72 | 70 | 130 |
| n-Butylbenzene | 1 | 12.5629 | 0 | 20 | 63* | 70 | 130 |
| p-Diethylbenzene | 1 | 13.7077 | 0 | 20 | 69* | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 12.2071 | 0 | 20 | 61* | 70 | 130 |
| 1,2-Dibromo-3-Chloropropane | 1 | 14.5752 | 0 | 20 | 73 | 50 | 150 |
| Camphor | 1 | 140.0018 | 0 | 200 | 70 | 20 | 150 |
| Hexachlorobutadiene | 1 | 16.8933 | 0 | 20 | 84 | 50 | 150 |
| 1,2,4-Trichlorobenzene | 1 | 16.971 | 0 | 20 | 85 | 70 | 130 |
| 1,2,3-Trichlorobenzene | 1 | 16.8742 | 0 | 20 | 84 | 70 | 130 |
| Naphthalene | 1 | 14.0228 | 0 | 20 | 70 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: MBS96787

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 2M157126.D | AD26083-050(MSD:AD26083-0 | 9/22/2021 5:10:00 PM |
| Duplicate(If applicable): | 2M157125.D | AD26083-049(MS:AD26083-048 | 9/22/2021 4:51:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 13.8388 | 14.2058 | 2.6 | 30 |
| Dichlorodifluoromethane | 1 | 36.1387 | 37.8605 | 4.7 | 30 |
| Chloromethane | 1 | 17.9161 | 18.4756 | 3.1 | 30 |
| Bromomethane | 1 | 5.3183 | 5.3689 | 0.95 | 30 |
| Vinyl Chloride | 1 | 18.6302 | 19.9301 | 6.7 | 40 |
| Chloroethane | 1 | 18.5234 | 18.3664 | 0.85 | 30 |
| Trichlorofluoromethane | 1 | 19.5363 | 19.8891 | 1.8 | 30 |
| Ethyl ether | 1 | 16.0488 | 16.4224 | 2.3 | 30 |
| Furan | 1 | 14.4074 | 14.9563 | 3.7 | 30 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 18.5441 | 19.4108 | 4.6 | 30 |
| Methylene Chloride | 1 | 15.5787 | 16.9212 | 8.3 | 30 |
| Acrolein | 1 | 63.1224 | 63.2807 | 0.25 | 30 |
| Acrylonitrile | 1 | 15.0558 | 15.2524 | 1.3 | 30 |
| Iodomethane | 1 | 13.9498 | 12.7076 | 9.3 | 30 |
| Acetone | 1 | 74.9361 | 74.5505 | 0.52 | 30 |
| Carbon Disulfide | 1 | 14.9235 | 16.9369 | 13 | 30 |
| t-Butyl Alcohol | 1 | 81.4792 | 71.419 | 13 | 30 |
| n-Hexane | 1 | 13.5103 | 13.2533 | 1.9 | 30 |
| Di-isopropyl-ether | 1 | 14.6511 | 15.3605 | 4.7 | 30 |
| 1,1-Dichloroethene | 1 | 14.6064 | 15.6608 | 7 | 40 |
| Methyl Acetate | 1 | 12.1884 | 12.6023 | 3.3 | 30 |
| Methyl-t-butyl ether | 1 | 14.8929 | 15.2747 | 2.5 | 30 |
| 1,1-Dichloroethane | 1 | 15.2144 | 15.9727 | 4.9 | 40 |
| trans-1,2-Dichloroethene | 1 | 16.7615 | 18.3884 | 9.3 | 30 |
| Ethyl-t-butyl ether | 1 | 14.1248 | 14.777 | 4.5 | 30 |
| cis-1,2-Dichloroethene | 1 | 14.2066 | 15.0621 | 5.8 | 30 |
| Bromochloromethane | 1 | 15.6231 | 16.7927 | 7.2 | 30 |
| 2,2-Dichloropropane | 1 | 9.7424 | 10.2248 | 4.8 | 30 |
| Ethyl acetate | 1 | 12.8955 | 13.0789 | 1.4 | 30 |
| 1,4-Dioxane | 1 | 968.1134 | 876.1692 | 10 | 30 |
| 1,1-Dichloropropene | 1 | 15.8554 | 17.3398 | 8.9 | 30 |
| Chloroform | 1 | 17.4529 | 18.249 | 4.5 | 40 |
| Cyclohexane | 1 | 15.7586 | 16.127 | 2.3 | 30 |
| 1,2-Dichloroethane | 1 | 15.2777 | 15.7958 | 3.3 | 40 |
| 2-Butanone | 1 | 14.0543 | 14.2469 | 1.4 | 40 |
| 1,1,1-Trichloroethane | 1 | 18.1601 | 19.5699 | 7.5 | 30 |
| Carbon Tetrachloride | 1 | 18.4131 | 19.271 | 4.6 | 40 |
| Vinyl Acetate | 1 | 12.6406 | 13.1855 | 4.2 | 30 |
| Bromodichloromethane | 1 | 16.5643 | 17.2009 | 3.8 | 30 |
| Methylcyclohexane | 1 | 17.4564 | 17.0488 | 2.4 | 30 |
| Dibromomethane | 1 | 23.9211 | 24.7012 | 3.2 | 30 |
| 1,2-Dichloropropane | 1 | 15.9531 | 16.6015 | 4 | 30 |
| Trichloroethene | 1 | 21.4618 | 22.347 | 4 | 40 |
| Benzene | 1 | 16.1884 | 16.9653 | 4.7 | 40 |
| tert-Amyl methyl ether | 1 | 14.8005 | 15.5185 | 4.7 | 30 |
| Iso-propylacetate | 1 | 10.4314 | 10.6231 | 1.8 | 30 |
| Methyl methacrylate | 1 | 12.7686 | 12.4486 | 2.5 | 30 |
| Dibromochloromethane | 1 | 16.1172 | 16.8353 | 4.4 | 30 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | NA | 30 |
| cis-1,3-Dichloropropene | 1 | 11.315 | 11.8305 | 4.5 | 30 |
| trans-1,3-Dichloropropene | 1 | 11.4766 | 11.8464 | 3.2 | 30 |
| Ethyl methacrylate | 1 | 11.919 | 12.5931 | 5.5 | 30 |
| 1,1,2-Trichloroethane | 1 | 14.8366 | 15.2957 | 3 | 30 |
| 1,2-Dibromoethane | 1 | 15.2367 | 16.1677 | 5.9 | 30 |
| 1,3-Dichloropropane | 1 | 13.4411 | 14.3253 | 6.4 | 30 |
| 4-Methyl-2-Pentanone | 1 | 12.6919 | 13.242 | 4.2 | 30 |
| 2-Hexanone | 1 | 12.589 | 13.1779 | 4.6 | 30 |
| Tetrachloroethene | 1 | 20.2342 | 21.3138 | 5.2 | 40 |
| Toluene | 1 | 14.8686 | 15.5519 | 4.5 | 40 |
| 1,1,1,2-Tetrachloroethane | 1 | 16.6241 | 18.0803 | 8.4 | 30 |
| Chlorobenzene | 1 | 16.4084 | 17.1418 | 4.4 | 40 |

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: MBS96787

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 9.7145 | 9.7472 | 0.34 | 30 |
| n-Amyl acetate | 1 | 8.1144 | 8.5093 | 4.8 | 30 |
| Bromoform | 1 | 13.2981 | 14.1773 | 6.4 | 30 |
| Ethylbenzene | 1 | 12.9571 | 12.8175 | 1.1 | 30 |
| 1,1,2,2-Tetrachloroethane | 1 | 11.4841 | 12.5888 | 9.2 | 30 |
| Styrene | 1 | 12.4504 | 12.8877 | 3.5 | 30 |
| m&p-Xylenes | 1 | 25.5704 | 26.6471 | 4.1 | 30 |
| o-Xylene | 1 | 13.166 | 13.5995 | 3.2 | 30 |
| trans-1,4-Dichloro-2-butene | 1 | 5.3287 | 5.0436 | 5.5 | 30 |
| 1,3-Dichlorobenzene | 1 | 15.4186 | 15.4797 | 0.4 | 30 |
| 1,4-Dichlorobenzene | 1 | 15.2207 | 15.3639 | 0.94 | 40 |
| 1,2-Dichlorobenzene | 1 | 15.1407 | 15.1771 | 0.24 | 40 |
| Isopropylbenzene | 1 | 13.6377 | 13.8024 | 1.2 | 30 |
| Cyclohexanone | 1 | 44.5709 | 43.8259 | 1.7 | 30 |
| Camphene | 1 | 2.3173 | 2.2611 | 2.5 | 30 |
| 1,2,3-Trichloropropane | 1 | 10.0368 | 10.1309 | 0.93 | 30 |
| 2-Chlorotoluene | 1 | 12.4191 | 12.7164 | 2.4 | 30 |
| p-Ethyltoluene | 1 | 14.0091 | 13.839 | 1.2 | 30 |
| 4-Chlorotoluene | 1 | 11.6748 | 12.2213 | 4.6 | 30 |
| n-Propylbenzene | 1 | 12.9056 | 12.9445 | 0.3 | 40 |
| Bromobenzene | 1 | 10.2716 | 10.5953 | 3.1 | 30 |
| 1,3,5-Trimethylbenzene | 1 | 12.8632 | 13.1451 | 2.2 | 30 |
| Butyl methacrylate | 1 | 10.1345 | 10.2523 | 1.2 | 30 |
| t-Butylbenzene | 1 | 14.3945 | 14.3766 | 0.12 | 30 |
| 1,2,4-Trimethylbenzene | 1 | 13.2255 | 12.8313 | 3 | 30 |
| sec-Butylbenzene | 1 | 13.6244 | 13.6014 | 0.17 | 40 |
| 4-Isopropyltoluene | 1 | 14.4233 | 14.266 | 1.1 | 30 |
| n-Butylbenzene | 1 | 12.5629 | 12.3961 | 1.3 | 30 |
| p-Diethylbenzene | 1 | 13.7077 | 13.3618 | 2.6 | 30 |
| 1,2,4,5-Tetramethylbenzene | 1 | 12.2071 | 11.9591 | 2.1 | 30 |
| 1,2-Dibromo-3-Chloropropane | 1 | 14.5752 | 13.8727 | 4.9 | 30 |
| Camphor | 1 | 140.0018 | 126.7695 | 9.9 | 30 |
| Hexachlorobutadiene | 1 | 16.8933 | 18.1118 | 7 | 30 |
| 1,2,4-Trichlorobenzene | 1 | 16.971 | 15.909 | 6.5 | 30 |
| 1,2,3-Trichlorobenzene | 1 | 16.8742 | 14.8433 | 13 | 30 |
| Naphthalene | 1 | 14.0228 | 12.5643 | 11 | 30 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Quantitation Report (Not Reviewed)

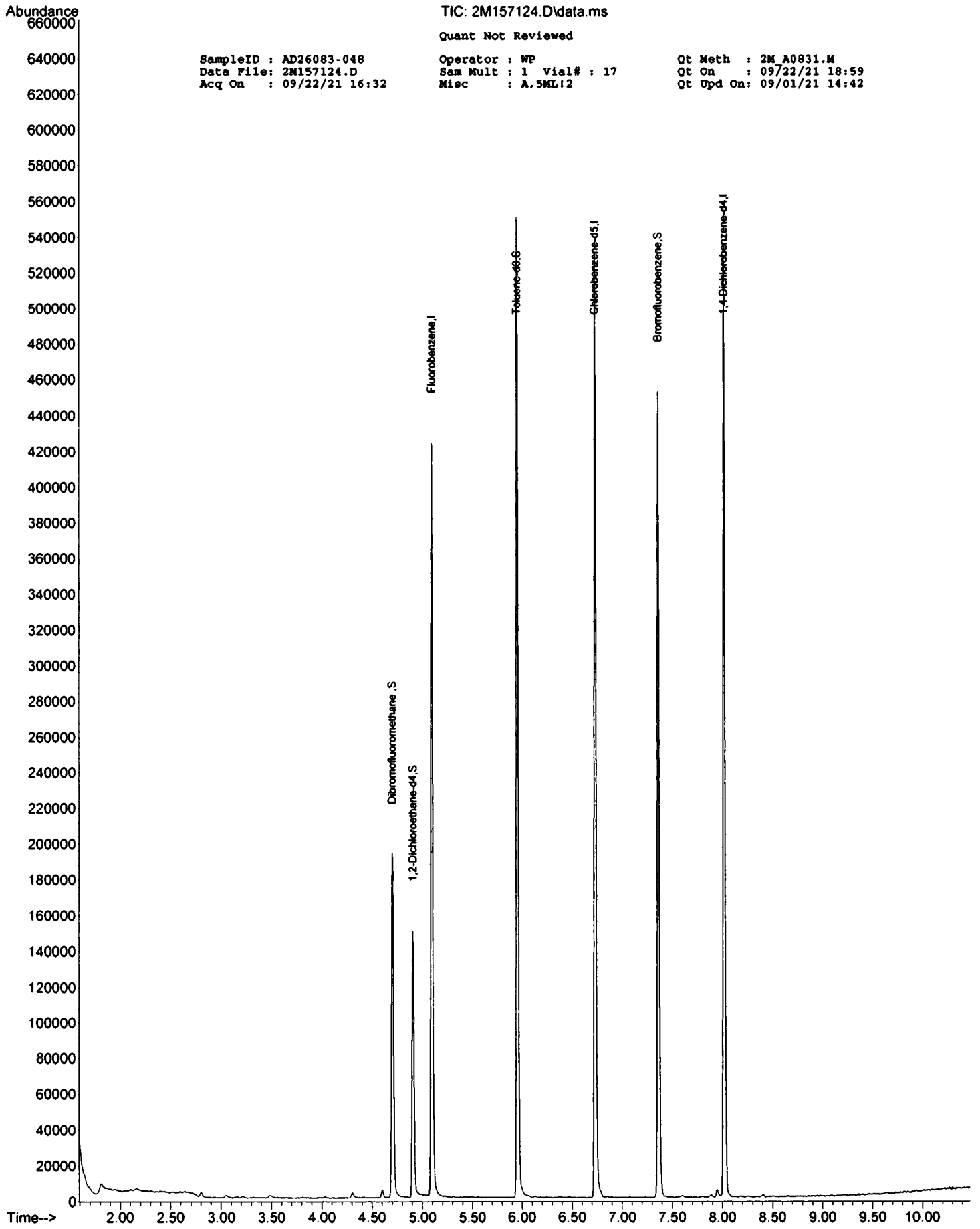
SampleID : AD26083-048 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157124.D Sam Mult : 1 Vial# : 17 Qt On : 09/22/21 18:59
Acq On : 09/22/21 16:32 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 254039 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.733 | 117 | 230045 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 124543 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 76687 | 33.13 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 110.43% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 34276 | 27.26 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 90.87% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 257548 | 25.78 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 85.93% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 122395 | 32.32 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 107.73% | | | |

Target Compounds Qvalue

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


Abundance
TIC: 2M157124.D\data.ms
Quant Not Reviewed
SampleID : AD26083-048
Data File: 2M157124.D
Acq On : 09/22/21 16:32
Operator : WP
Sam Mult : 1 Vial# : 17
Misc : A,5ML;2
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:59
Qt Upd On: 09/01/21 14:42
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD26083-049(MS:AD26 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157125.D Sam Mult : 1 Vial# : 18 Qt On : 09/22/21 18:59
Acq On : 09/22/21 16:51 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.099 | 96 | 210739 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.732 | 117 | 187116 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 110974 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 63316 | 32.97 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 109.90% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.910 | 67 | 27902 | 26.75 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 89.17% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 214243 | 26.37 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 87.90% | | | |
| 76) Bromofluorobenzene | 7.367 | 174 | 106908 | 31.68 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 105.60% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 33284 | 14.2058 | ug/l | 82 |
| 6) Dichlorodifluoromethane | 1.685 | 85 | 37930 | 37.8605 | ug/l | 100 |
| 7) Chloromethane | 1.861 | 50 | 24900 | 18.4756 | ug/l | 99 |
| 8) Bromomethane | 2.252 | 94 | 6526 | 5.3689 | ug/l | 96 |
| 9) Vinyl Chloride | 1.953 | 62 | 30325 | 19.9301 | ug/l | 99 |
| 10) Chloroethane | 2.343 | 64 | 19199 | 18.3664 | ug/l | 88 |
| 11) Trichlorofluoromethane | 2.563 | 101 | 52352 | 19.8891 | ug/l | 95 |
| 12) Ethyl ether | 2.800 | 59 | 17514 | 16.4224 | ug/l | 96 |
| 13) Furan | 2.843 | 39 | 31892 | 14.9563 | ug/l | 91 |
| 14) 1,1,2-Trichloro-1,2,2-... | 3.001 | 101 | 25287 | 19.4108 | ug/l | 88 |
| 15) Methylene Chloride | 3.416 | 84 | 26739 | 16.9212 | ug/l | 97 |
| 16) Acrolein | 2.916 | 56 | 18648 | 63.2807 | ug/l | 93 |
| 17) Acrylonitrile | 3.623 | 53 | 12491 | 15.2524 | ug/l | 95 |
| 18) Iodomethane | 3.148 | 142 | 20404 | 12.7076 | ug/l | 97 |
| 19) Acetone | 3.044 | 43 | 47165 | 74.5505 | ug/l | 94 |
| 20) Carbon Disulfide | 3.215 | 76 | 70426 | 16.9369 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.483 | 59 | 16598 | 71.4190 | ug/l | 92 |
| 22) n-Hexane | 3.873 | 57 | 20720 | 13.2533 | ug/l | 96 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 78577 | 15.3605 | ug/l | 98 |
| 24) 1,1-Dichloroethene | 3.008 | 61 | 33851 | 15.6608 | ug/l | 99 |
| 25) Methyl Acetate | 3.318 | 43 | 24030 | 12.6023 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.642 | 73 | 68521 | 15.2747 | ug/l | 93 |
| 27) 1,1-Dichloroethane | 4.001 | 63 | 42592 | 15.9727 | ug/l | 98 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 28708 | 18.3884 | ug/l | 93 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 64242 | 14.7770 | ug/l | 99 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 41582 | 15.0621 | ug/l | 94 |
| 31) Bromochloromethane | 4.568 | 49 | 22219 | 16.7927 | ug/l | 83 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 23032 | 10.2248 | ug/l | 96 |
| 33) Ethyl acetate | 4.440 | 43 | 27430m | 13.0789 | ug/l | |
| 34) 1,4-Dioxane | 5.495 | 88 | 25009 | 876.1692 | ug/l | 95 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 36363 | 17.3398 | ug/l | 95 |
| 36) Chloroform | 4.605 | 83 | 50254 | 18.2490 | ug/l | 96 |
| 38) Cyclohexane | 4.769 | 56 | 34667 | 16.1270 | ug/l | 93 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 36584 | 15.7958 | ug/l | 100 |
| 41) 2-Butanone | 4.410 | 43 | 15231m | 14.2469 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 48185 | 19.5699 | ug/l | 95 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 42165 | 19.2710 | ug/l | 96 |
| 44) Vinyl Acetate | 4.026 | 43 | 73541 | 13.1855 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 37194 | 17.2009 | ug/l | 99 |
| 46) Methylcyclohexane | 5.416 | 83 | 32219 | 17.0488 | ug/l | 97 |
| 47) Dibromomethane | 5.501 | 174 | 31815 | 24.7012 | ug/l | 96 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 26305 | 16.6015 | ug/l | 96 |
| 49) Trichloroethene | 5.300 | 130 | 38947 | 22.3470 | ug/l | 96 |
| 50) Benzene | 4.946 | 78 | 104321 | 16.9653 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 69195 | 15.5185 | ug/l | 94 |
| 53) Iso-propylacetate | 4.946 | 43 | 48737 | 10.6231 | ug/l | 94 |
| 54) Methyl methacrylate | 5.458 | 41 | 24643 | 12.4486 | ug/l | 95 |
| 55) Dibromochloromethane | 6.422 | 129 | 35270 | 16.8353 | ug/l | 97 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 34767 | 11.8305 | ug/l | 98 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 32301 | 11.8464 | ug/l | 99 |
| 59) Ethyl methacrylate | 6.111 | 41 | 25490 | 12.5931 | ug/l | 87 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 27382 | 15.2957 | ug/l | 98 |
| 61) 1,2-Dibromoethane | 6.495 | 107 | 31622 | 16.1677 | ug/l | 96 |
| 62) 1,3-Dichloropropane | 6.287 | 76 | 42863 | 14.3253 | ug/l | 99 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 32359 | 13.2420 | ug/l | 87 |
| 64) 2-Hexanone | 6.306 | 43 | 24097 | 13.1779 | ug/l | 90 |
| 65) Tetrachloroethene | 6.287 | 164 | 35595 | 21.3138 | ug/l | 97 |
| 67) Toluene | 5.995 | 92 | 72368 | 15.5519 | ug/l | 99 |
| 68) 1,1,1,2-Tetrachloroethane | 6.787 | 133 | 33488 | 18.0803 | ug/l | 92 |

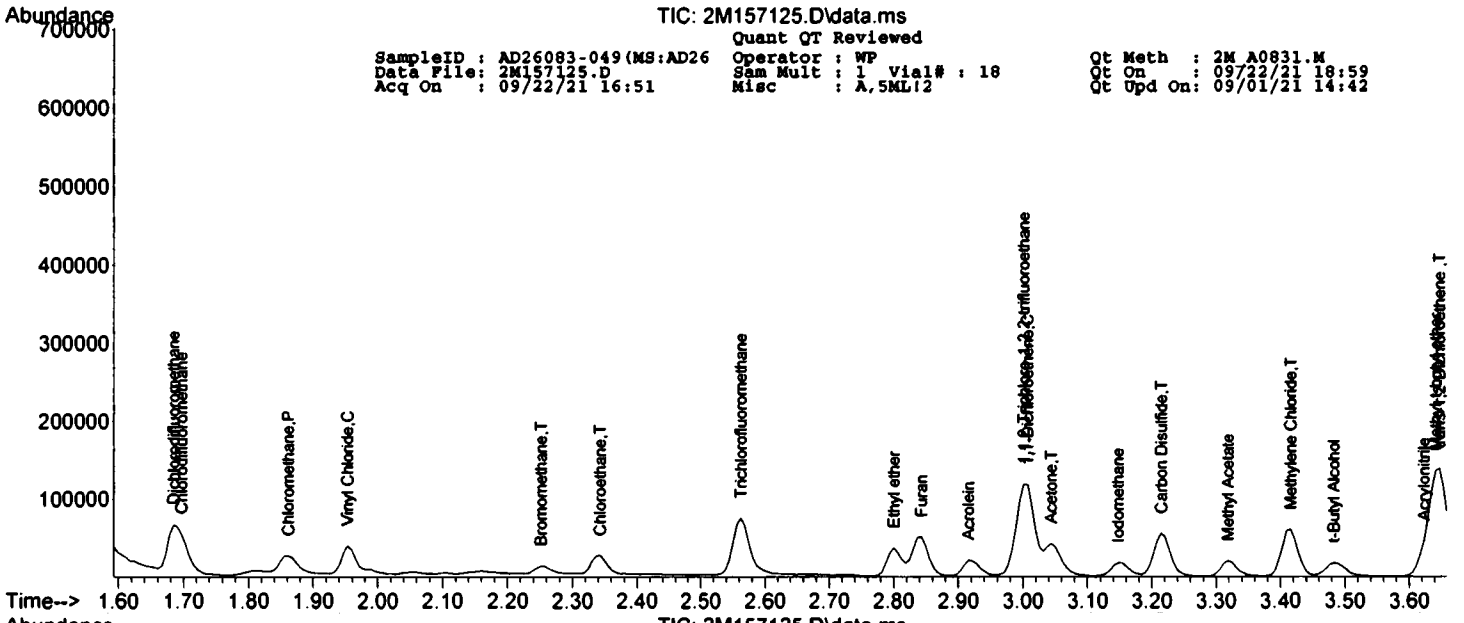
Quantitation Report (QT Reviewed)

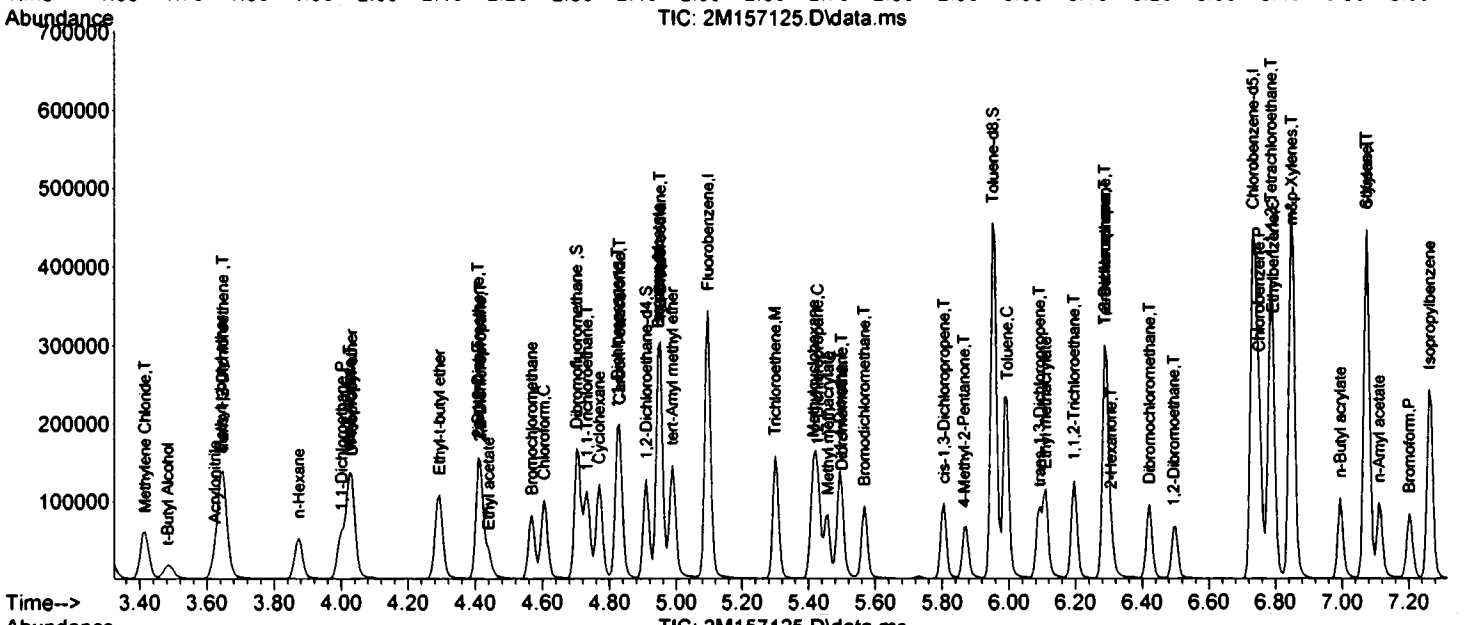
SampleID : AD26083-049(MS:AD26 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157125.D Sam Mult : 1 Vial# : 18 Qt On : 09/22/21 18:59
Acq On : 09/22/21 16:51 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

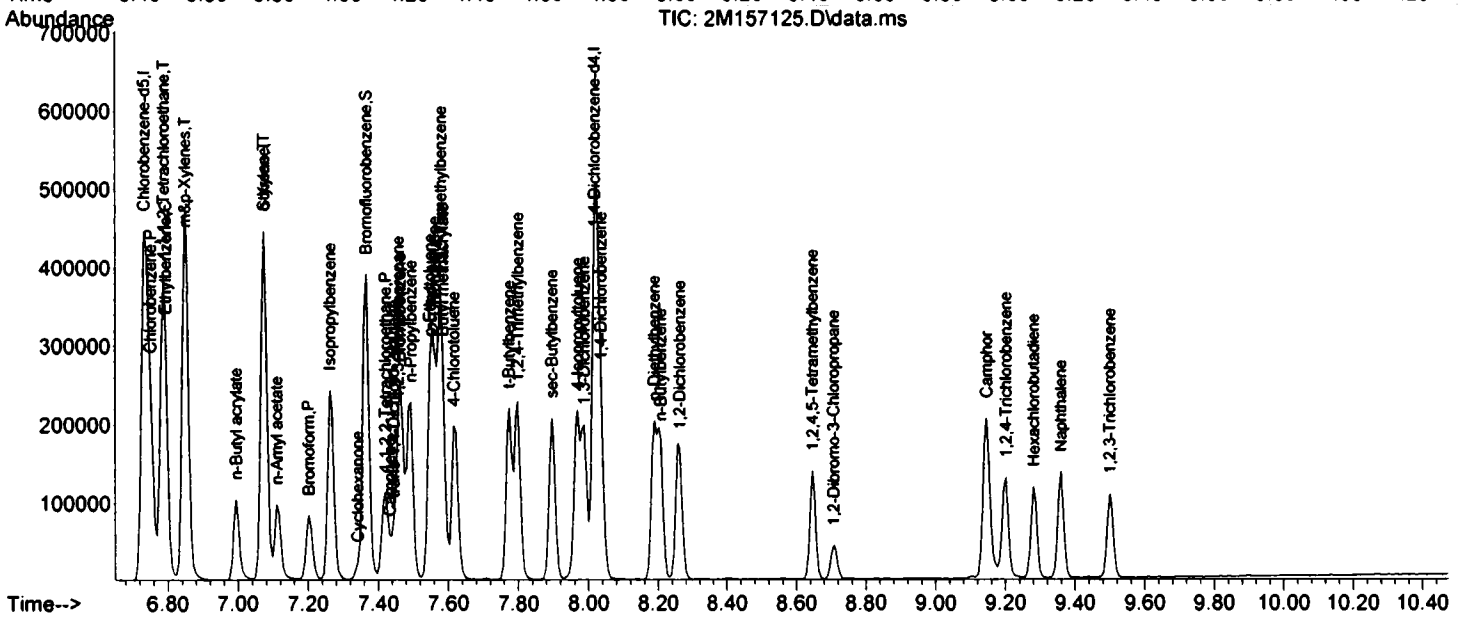
Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 69) | Chlorobenzene | 6.751 | 112 | 88640 | 17.1418 | ug/l | 98 |
| 71) | n-Butyl acrylate | 6.995 | 55 | 45772 | 9.7472 | ug/l | 98 |
| 72) | n-Amyl acetate | 7.110 | 43 | 39207 | 8.5093 | ug/l | 95 |
| 73) | Bromoform | 7.202 | 173 | 29415 | 14.1773 | ug/l | 100 |
| 74) | Ethylbenzene | 6.793 | 106 | 35215 | 12.8175 | ug/l | 91 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.421 | 83 | 39508 | 12.5888 | ug/l | 95 |
| 77) | Styrene | 7.074 | 104 | 85886 | 12.8877 | ug/l | 99 |
| 78) | m&p-Xylenes | 6.848 | 106 | 108829 | 26.6471 | ug/l | 98 |
| 79) | o-Xylene | 7.074 | 106 | 53090 | 13.5995 | ug/l | 86 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 6702 | 5.0436 | ug/l | 90 |
| 81) | 1,3-Dichlorobenzene | 7.988 | 146 | 68102 | 15.4797 | ug/l | 96 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 69155 | 15.3639 | ug/l | 97 |
| 83) | 1,2-Dichlorobenzene | 8.263 | 146 | 64071 | 15.1771 | ug/l | 95 |
| 84) | Isopropylbenzene | 7.263 | 105 | 125207 | 13.8024 | ug/l | 97 |
| 85) | Cyclohexanone | 7.342 | 55 | 6031 | 43.8259 | ug/l | 97 |
| 86) | Camphene | 7.434 | 93 | 4991 | 2.2611 | ug/l | 99 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 40622 | 10.1309 | ug/l | 86 |
| 88) | 2-Chlorotoluene | 7.562 | 91 | 69640 | 12.7164 | ug/l | 97 |
| 89) | p-Ethyltoluene | 7.549 | 105 | 126563 | 13.8390 | ug/l | 96 |
| 90) | 4-Chlorotoluene | 7.616 | 91 | 67236 | 12.2213 | ug/l | 97 |
| 91) | n-Propylbenzene | 7.495 | 91 | 132282 | 12.9445 | ug/l | 94 |
| 92) | Bromobenzene | 7.464 | 77 | 62330 | 10.5953 | ug/l | 74 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 84216 | 13.1451 | ug/l | 86 |
| 94) | Butyl methacrylate | 7.586 | 41 | 32898 | 10.2523 | ug/l | 87 |
| 95) | t-Butylbenzene | 7.775 | 119 | 95747 | 14.3766 | ug/l | 96 |
| 96) | 1,2,4-Trimethylbenzene | 7.799 | 105 | 93655 | 12.8313 | ug/l | 94 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 106640 | 13.6014 | ug/l | 93 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 93803 | 14.2660 | ug/l | 99 |
| 99) | n-Butylbenzene | 8.208 | 91 | 85652 | 12.3961 | ug/l | 95 |
| 100) | p-Diethylbenzene | 8.190 | 119 | 50471 | 13.3618 | ug/l | 95 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 55407 | 11.9591 | ug/l | 100 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 10903 | 13.8727 | ug/l | 86 |
| 103) | Camphor | 9.147 | 95 | 44582 | 126.7695 | ug/l | 96 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 19471 | 18.1118 | ug/l | 94 |
| 105) | 1,2,4-Trichlorobenzene | 9.202 | 180 | 34626 | 15.9090 | ug/l | 98 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 29018 | 14.8433 | ug/l | 95 |
| 107) | Naphthalene | 9.360 | 128 | 85416 | 12.5643 | ug/l | 100 |

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


TIC: 2M157125.D\data.ms
Quant QT Reviewed
SampleID : AD26083-049(MS:AD26
Data File: 2M157125.D
Acq On : 09/22/21 16:51
Operator : WP
Sam Mult : 1 Vial# : 18
Misc : A,5ML12
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:59
Qt Upd On: 09/01/21 14:42
Abundance
Time-->


TIC: 2M157125.D\data.ms
Abundance
Time-->


TIC: 2M157125.D\data.ms
Abundance
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD26083-050(MSD:AD2 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157126.D Sam Mult : 1 Vial# : 19 Qt On : 09/22/21 18:59
Acq On : 09/22/21 17:10 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.098 | 96 | 227933 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.732 | 117 | 205827 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.019 | 152 | 121368 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.702 | 111 | 70659 | 34.02 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 113.40% | | | |
| 39) 1,2-Dichloroethane-d4 | 4.909 | 67 | 31620 | 28.02 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 93.40% | | | |
| 66) Toluene-d8 | 5.952 | 98 | 233744 | 26.15 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 87.17% | | | |
| 76) Bromofluorobenzene | 7.366 | 174 | 117522 | 31.85 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 106.17% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 5) Chlorodifluoromethane | 1.697 | 51 | 35071 | 13.8388 | ug/l | 84 |
| 6) Dichlorodifluoromethane | 1.684 | 85 | 39159 | 36.1387 | ug/l | 100 |
| 7) Chloromethane | 1.855 | 50 | 26116 | 17.9161 | ug/l | 96 |
| 8) Bromomethane | 2.251 | 94 | 6992 | 5.3183 | ug/l | 91 |
| 9) Vinyl Chloride | 1.953 | 62 | 30660 | 18.6302 | ug/l | 99 |
| 10) Chloroethane | 2.337 | 64 | 20943 | 18.5234 | ug/l | 98 |
| 11) Trichlorofluoromethane | 2.562 | 101 | 55619 | 19.5363 | ug/l | 99 |
| 12) Ethyl ether | 2.800 | 59 | 18512 | 16.0488 | ug/l | 96 |
| 13) Furan | 2.837 | 39 | 33228 | 14.4074 | ug/l | 90 |
| 14) 1,1,2-Trichloro-1,2,2-... | 2.995 | 101 | 26129 | 18.5441 | ug/l | 89 |
| 15) Methylene Chloride | 3.416 | 84 | 26626 | 15.5787 | ug/l | 95 |
| 16) Acrolein | 2.916 | 56 | 20119 | 63.1224 | ug/l | 95 |
| 17) Acrylonitrile | 3.623 | 53 | 13336 | 15.0558 | ug/l | 96 |
| 18) Iodomethane | 3.148 | 142 | 24252 | 13.9498 | ug/l | 100 |
| 19) Acetone | 3.044 | 43 | 51277 | 74.9361 | ug/l | 98 |
| 20) Carbon Disulfide | 3.215 | 76 | 67117 | 14.9235 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.483 | 59 | 20481 | 81.4792 | ug/l | 92 |
| 22) n-Hexane | 3.873 | 57 | 22845 | 13.5103 | ug/l | 94 |
| 23) Di-isopropyl-ether | 4.032 | 45 | 81063 | 14.6511 | ug/l | 96 |
| 24) 1,1-Dichloroethene | 3.007 | 61 | 34148 | 14.6064 | ug/l | 98 |
| 25) Methyl Acetate | 3.318 | 43 | 25137 | 12.1884 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.641 | 73 | 72259 | 14.8929 | ug/l | 94 |
| 27) 1,1-Dichloroethane | 4.001 | 63 | 43880 | 15.2144 | ug/l | 97 |
| 28) trans-1,2-Dichloroethene | 3.648 | 96 | 28303 | 16.7615 | ug/l | 94 |
| 29) Ethyl-t-butyl ether | 4.294 | 59 | 66417 | 14.1248 | ug/l | 98 |
| 30) cis-1,2-Dichloroethene | 4.410 | 61 | 42420 | 14.2066 | ug/l | 88 |
| 31) Bromochloromethane | 4.568 | 49 | 22358 | 15.6231 | ug/l | 81 |
| 32) 2,2-Dichloropropane | 4.416 | 77 | 23736 | 9.7424 | ug/l | 95 |
| 33) Ethyl acetate | 4.440 | 43 | 29252m | 12.8955 | ug/l | |
| 34) 1,4-Dioxane | 5.489 | 88 | 29888 | 968.1134 | ug/l | 98 |
| 35) 1,1-Dichloropropene | 4.824 | 75 | 35963 | 15.8554 | ug/l | 92 |
| 36) Chloroform | 4.605 | 83 | 51983 | 17.4529 | ug/l | 99 |
| 38) Cyclohexane | 4.769 | 56 | 36639 | 15.7586 | ug/l | 96 |
| 40) 1,2-Dichloroethane | 4.952 | 62 | 38271 | 15.2777 | ug/l | 95 |
| 41) 2-Butanone | 4.410 | 43 | 16251m | 14.0543 | ug/l | |
| 42) 1,1,1-Trichloroethane | 4.733 | 97 | 48362 | 18.1601 | ug/l | 99 |
| 43) Carbon Tetrachloride | 4.830 | 117 | 43575 | 18.4131 | ug/l | 99 |
| 44) Vinyl Acetate | 4.026 | 43 | 76254 | 12.6406 | ug/l | 100 |
| 45) Bromodichloromethane | 5.568 | 83 | 38740 | 16.5643 | ug/l | 99 |
| 46) Methylcyclohexane | 5.415 | 83 | 35681 | 17.4564 | ug/l | 97 |
| 47) Dibromomethane | 5.495 | 174 | 33324 | 23.9211 | ug/l | 99 |
| 48) 1,2-Dichloropropane | 5.428 | 63 | 27340 | 15.9531 | ug/l | 92 |
| 49) Trichloroethene | 5.300 | 130 | 40456 | 21.4618 | ug/l | 95 |
| 50) Benzene | 4.946 | 78 | 107666 | 16.1884 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 4.989 | 73 | 71378 | 14.8005 | ug/l | 94 |
| 53) Iso-propylacetate | 4.946 | 43 | 52643 | 10.4314 | ug/l | 94 |
| 54) Methyl methacrylate | 5.458 | 41 | 27804 | 12.7686 | ug/l | 90 |
| 55) Dibromochloromethane | 6.421 | 129 | 37142 | 16.1172 | ug/l | 97 |
| 57) cis-1,3-Dichloropropene | 5.806 | 75 | 36577 | 11.3150 | ug/l | 99 |
| 58) trans-1,3-Dichloropropene | 6.092 | 75 | 34422 | 11.4766 | ug/l | 95 |
| 59) Ethyl methacrylate | 6.111 | 41 | 26538 | 11.9190 | ug/l | 88 |
| 60) 1,1,2-Trichloroethane | 6.196 | 97 | 29216 | 14.8366 | ug/l | 98 |
| 61) 1,2-Dibromoethane | 6.495 | 107 | 32781 | 15.2367 | ug/l | 100 |
| 62) 1,3-Dichloropropane | 6.287 | 76 | 44239 | 13.4411 | ug/l | 99 |
| 63) 4-Methyl-2-Pentanone | 5.867 | 43 | 34116 | 12.6919 | ug/l | 87 |
| 64) 2-Hexanone | 6.306 | 43 | 25322 | 12.5890 | ug/l | 94 |
| 65) Tetrachloroethene | 6.293 | 164 | 37171 | 20.2342 | ug/l | 100 |
| 67) Toluene | 5.989 | 92 | 76107 | 14.8686 | ug/l | 100 |
| 68) 1,1,1,2-Tetrachloroethane | 6.787 | 133 | 33870 | 16.6241 | ug/l | 93 |

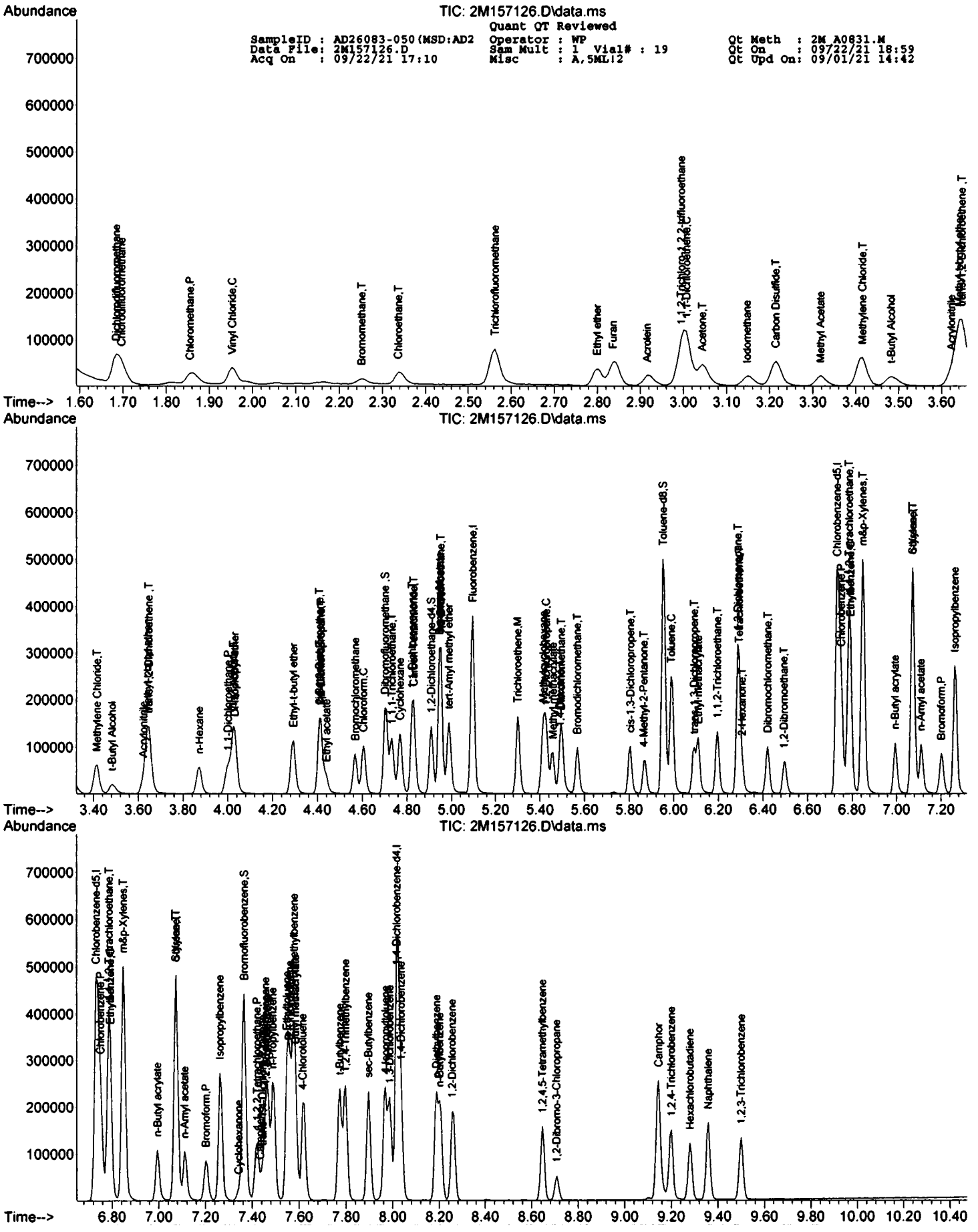
Quantitation Report (QT Reviewed)

SampleID : AD26083-050(MSD:AD2 Operator : WP Qt Meth : 2M_A0831.M
Data File: 2M157126.D Sam Mult : 1 Vial# : 19 Qt On : 09/22/21 18:59
Acq On : 09/22/21 17:10 Misc : A,5ML!2 Qt Upd On: 09/01/21 14:42

Data Path : G:\GcMsData\2021\GCMS_2\Data\0922-21\
Qt Path : G:\GcMsData\2021\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 69) | Chlorobenzene | 6.751 | 112 | 93332 | 16.4084 | ug/l | 98 |
| 71) | n-Butyl acrylate | 6.994 | 55 | 49891 | 9.7145 | ug/l | 95 |
| 72) | n-Amyl acetate | 7.110 | 43 | 40889 | 8.1144 | ug/l | 94 |
| 73) | Bromoform | 7.202 | 173 | 30175 | 13.2981 | ug/l | 97 |
| 74) | Ethylbenzene | 6.793 | 106 | 38933 | 12.9571 | ug/l | 92 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.421 | 83 | 39417 | 11.4841 | ug/l | 96 |
| 77) | Styrene | 7.074 | 104 | 90743 | 12.4504 | ug/l | 97 |
| 78) | m&p-Xylenes | 6.848 | 106 | 114213 | 25.5704 | ug/l | 96 |
| 79) | o-Xylene | 7.074 | 106 | 56212 | 13.1660 | ug/l | 90 |
| 80) | trans-1,4-Dichloro-2-b... | 7.446 | 53 | 7744 | 5.3287 | ug/l | 96 |
| 81) | 1,3-Dichlorobenzene | 7.988 | 146 | 74187 | 15.4186 | ug/l | 96 |
| 82) | 1,4-Dichlorobenzene | 8.037 | 146 | 74927 | 15.2207 | ug/l | 97 |
| 83) | 1,2-Dichlorobenzene | 8.256 | 146 | 69904 | 15.1407 | ug/l | 96 |
| 84) | Isopropylbenzene | 7.263 | 105 | 135300 | 13.6377 | ug/l | 97 |
| 85) | Cyclohexanone | 7.342 | 55 | 6708 | 44.5709 | ug/l | 93 |
| 86) | Camphene | 7.433 | 93 | 5594 | 2.3173 | ug/l | 96 |
| 87) | 1,2,3-Trichloropropane | 7.458 | 75 | 44014 | 10.0368 | ug/l | 86 |
| 88) | 2-Chlorotoluene | 7.561 | 91 | 74382 | 12.4191 | ug/l | 95 |
| 89) | p-Ethyltoluene | 7.549 | 105 | 140118 | 14.0091 | ug/l | 94 |
| 90) | 4-Chlorotoluene | 7.616 | 91 | 70245 | 11.6748 | ug/l | 93 |
| 91) | n-Propylbenzene | 7.488 | 91 | 144237 | 12.9056 | ug/l | 95 |
| 92) | Bromobenzene | 7.464 | 77 | 66085 | 10.2716 | ug/l | 75 |
| 93) | 1,3,5-Trimethylbenzene | 7.580 | 105 | 90129 | 12.8632 | ug/l | 84 |
| 94) | Butyl methacrylate | 7.586 | 41 | 35566 | 10.1345 | ug/l | 85 |
| 95) | t-Butylbenzene | 7.775 | 119 | 104845 | 14.3945 | ug/l | 95 |
| 96) | 1,2,4-Trimethylbenzene | 7.799 | 105 | 105574 | 13.2255 | ug/l | 95 |
| 97) | sec-Butylbenzene | 7.897 | 105 | 116825 | 13.6244 | ug/l | 93 |
| 98) | 4-Isopropyltoluene | 7.970 | 119 | 103720 | 14.4233 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.202 | 91 | 94935 | 12.5629 | ug/l | 94 |
| 100) | p-Diethylbenzene | 8.189 | 119 | 56627 | 13.7077 | ug/l | 94 |
| 101) | 1,2,4,5-Tetramethylben... | 8.647 | 119 | 61853 | 12.2071 | ug/l | 97 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.708 | 157 | 12528 | 14.5752 | ug/l | 83 |
| 103) | Camphor | 9.147 | 95 | 53847 | 140.0018 | ug/l | 97 |
| 104) | Hexachlorobutadiene | 9.281 | 225 | 19862 | 16.8933 | ug/l | 93 |
| 105) | 1,2,4-Trichlorobenzene | 9.201 | 180 | 40397 | 16.9710 | ug/l | 99 |
| 106) | 1,2,3-Trichlorobenzene | 9.500 | 180 | 36078 | 16.8742 | ug/l | 97 |
| 107) | Naphthalene | 9.360 | 128 | 104260 | 14.0228 | ug/l | 100 |

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


Abundance
TIC: 2M157126.D\data.ms
Quant QT Reviewed
SampleID : AD26083-050(MSD:AD2
Data File: 2M157126.D
Acq On : 09/22/21 17:10
Operator : WP
Sam Mult : 1 Vial# : 19
Misc : A,5ML12
Qt Meth : 2M_A0831.M
Qt On : 09/22/21 18:59
Qt Upd On: 09/01/21 14:42
Time-->

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96792

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152876.D | AD26083-008(MS) | 9/23/2021 2:26:00 AM |
| Non Spike(If applicable): | 1M152896.D | AD26083-008 | 9/23/2021 8:41:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8260D  Matrix: Aqueous  Units: ug/L  QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| Dichlorodifluoromethane | 1 | 55.6145 | 0 | 20 | 278* | 50 | 150 |
| Chloromethane | 1 | 35.0963 | 0 | 20 | 175* | 50 | 150 |
| Bromomethane | 1 | 8.0031 | 0 | 20 | 40* | 50 | 150 |
| Vinyl Chloride | 1 | 33.7838 | 0 | 20 | 169* | 50 | 150 |
| Chloroethane | 1 | 29.1206 | 0 | 20 | 146 | 50 | 150 |
| Trichlorofluoromethane | 1 | 28.6393 | 0 | 20 | 143 | 50 | 150 |
| Ethyl ether | 1 | 26.1221 | 0 | 20 | 131 | 50 | 150 |
| Furan | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| Methylene Chloride | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| Acrolein | 1 | 160.4081 | 0 | 100 | 160* | 50 | 150 |
| Acrylonitrile | 1 | 31.0007 | 0 | 20 | 155* | 50 | 150 |
| Iodomethane | 1 | 12.6804 | 0 | 20 | 63 | 50 | 150 |
| Acetone | 1 | 89.6703 | 0 | 100 | 90 | 50 | 150 |
| Carbon Disulfide | 1 | 33.8224 | 0 | 20 | 169* | 50 | 150 |
| t-Butyl Alcohol | 1 | 141.9782 | 0 | 100 | 142 | 50 | 150 |
| n-Hexane | 1 | 34.2904 | 0 | 20 | 171* | 70 | 130 |
| Di-isopropyl-ether | 1 | 31.1993 | 0 | 20 | 156* | 70 | 130 |
| 1,1-Dichloroethene | 1 | 24.5198 | 0 | 20 | 123 | 70 | 130 |
| Methyl Acetate | 1 | 30.9465 | 0 | 20 | 155* | 50 | 150 |
| Methyl-t-butyl ether | 1 | 24.1875 | 0 | 20 | 121 | 70 | 130 |
| 1,1-Dichloroethane | 1 | 25.5025 | 0 | 20 | 128 | 70 | 130 |
| trans-1,2-Dichloroethene | 1 | 21.5474 | 0 | 20 | 108 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 23.6822 | 0 | 20 | 118 | 70 | 130 |
| cis-1,2-Dichloroethene | 1 | 24.1266 | 0 | 20 | 121 | 70 | 130 |
| Bromochloromethane | 1 | 27.4238 | 0 | 20 | 137* | 70 | 130 |
| 2,2-Dichloropropane | 1 | 23.5207 | 0 | 20 | 118 | 70 | 130 |
| Ethyl acetate | 1 | 36.5629 | 0 | 20 | 183* | 50 | 150 |
| 1,4-Dioxane | 1 | 1211.787 | 0 | 1000 | 121 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 23.1584 | 0 | 20 | 116 | 70 | 130 |
| Chloroform | 1 | 23.4067 | 0 | 20 | 117 | 70 | 130 |
| Cyclohexane | 1 | 29.3096 | 0 | 20 | 147* | 70 | 130 |
| 1,2-Dichloroethane | 1 | 24.2183 | 0 | 20 | 121 | 70 | 130 |
| 2-Butanone | 1 | 65.2854 | 0 | 20 | 326* | 50 | 150 |
| 1,1,1-Trichloroethane | 1 | 23.8566 | 0 | 20 | 119 | 70 | 130 |
| Carbon Tetrachloride | 1 | 20.964 | 0 | 20 | 105 | 50 | 150 |
| Vinyl Acetate | 1 | 31.5018 | 0 | 20 | 158* | 50 | 150 |
| Bromodichloromethane | 1 | 22.6647 | 0 | 20 | 113 | 70 | 130 |
| Methylcyclohexane | 1 | 24.5778 | 0 | 20 | 123 | 70 | 130 |
| Dibromomethane | 1 | 21.0285 | 0 | 20 | 105 | 70 | 130 |
| 1,2-Dichloropropane | 1 | 24.0943 | 0 | 20 | 120 | 70 | 130 |
| Trichloroethene | 1 | 20.5423 | 0 | 20 | 103 | 70 | 130 |
| Benzene | 1 | 21.6593 | 0 | 20 | 108 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 22.1794 | 0 | 20 | 111 | 70 | 130 |
| Iso-propylacetate | 1 | 26.4516 | 0 | 20 | 132* | 70 | 130 |
| Methyl methacrylate | 1 | 25.7027 | 0 | 20 | 129 | 70 | 130 |
| Dibromochloromethane | 1 | 19.4112 | 0 | 20 | 97 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| cis-1,3-Dichloropropene | 1 | 19.714 | 0 | 20 | 99 | 70 | 130 |
| trans-1,3-Dichloropropene | 1 | 19.8566 | 0 | 20 | 99 | 70 | 130 |
| Ethyl methacrylate | 1 | 26.9952 | 0 | 20 | 135* | 70 | 130 |
| 1,1,2-Trichloroethane | 1 | 20.6515 | 0 | 20 | 103 | 70 | 130 |
| 1,2-Dibromoethane | 1 | 19.9719 | 0 | 20 | 100 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 20.6734 | 0 | 20 | 103 | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 25.4427 | 0 | 20 | 127 | 50 | 150 |
| 2-Hexanone | 1 | 26.0651 | 0 | 20 | 130 | 50 | 150 |
| Tetrachloroethene | 1 | 18.8447 | 0 | 20 | 94 | 50 | 150 |
| Toluene | 1 | 19.748 | 0 | 20 | 99 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 19.556 | 0 | 20 | 98 | 70 | 130 |
| Chlorobenzene | 1 | 19.6889 | 0 | 20 | 98 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96792

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 23.255 | 0 | 20 | 116 | 70 | 130 |
| n-Amyl acetate | 1 | 25.9326 | 0 | 20 | 130 | 70 | 130 |
| Bromoform | 1 | 17.2332 | 0 | 20 | 86 | 70 | 130 |
| Ethylbenzene | 1 | 20.6472 | 0 | 20 | 103 | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 1 | 21.1968 | 0 | 20 | 106 | 70 | 130 |
| Styrene | 1 | 19.1382 | 0 | 20 | 96 | 70 | 130 |
| m&p-Xylenes | 1 | 39.2874 | 0 | 40 | 98 | 70 | 130 |
| o-Xylene | 1 | 19.7507 | 0 | 20 | 99 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 16.4821 | 0 | 20 | 82 | 50 | 150 |
| 1,3-Dichlorobenzene | 1 | 18.9908 | 0 | 20 | 95 | 70 | 130 |
| 1,4-Dichlorobenzene | 1 | 19.3478 | 0 | 20 | 97 | 70 | 130 |
| 1,2-Dichlorobenzene | 1 | 18.8441 | 0 | 20 | 94 | 70 | 130 |
| Isopropylbenzene | 1 | 20.1156 | 0 | 20 | 101 | 70 | 130 |
| Cyclohexanone | 1 | 99.8646 | 0 | 100 | 100 | 50 | 150 |
| Camphene | 1 | 12.4486 | 0 | 20 | 62* | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 18.7065 | 0 | 20 | 94 | 70 | 130 |
| 2-Chlorotoluene | 1 | 20.3134 | 0 | 20 | 102 | 70 | 130 |
| p-Ethyltoluene | 1 | 19.7586 | 0 | 20 | 99 | 70 | 130 |
| 4-Chlorotoluene | 1 | 19.8353 | 0 | 20 | 99 | 70 | 130 |
| n-Propylbenzene | 1 | 20.2599 | 0 | 20 | 101 | 70 | 130 |
| Bromobenzene | 1 | 20.704 | 0 | 20 | 104 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 19.6991 | 0 | 20 | 98 | 70 | 130 |
| Butyl methacrylate | 1 | 26.5506 | 0 | 20 | 133* | 70 | 130 |
| t-Butylbenzene | 1 | 19.232 | 0 | 20 | 96 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 19.5023 | 0 | 20 | 98 | 70 | 130 |
| sec-Butylbenzene | 1 | 19.6958 | 0 | 20 | 98 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 19.3184 | 0 | 20 | 97 | 70 | 130 |
| n-Butylbenzene | 1 | 20.8205 | 0 | 20 | 104 | 70 | 130 |
| p-Diethylbenzene | 1 | 19.3859 | 0 | 20 | 97 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 16.4648 | 0 | 20 | 82 | 70 | 130 |
| 1,2-Dibromo-3-Chloropropane | 1 | 20.6668 | 0 | 20 | 103 | 50 | 150 |
| Camphor | 1 | 180.7884 | 0 | 200 | 90 | 20 | 150 |
| Hexachlorobutadiene | 1 | 20.4459 | 0 | 20 | 102 | 50 | 150 |
| 1,2,4-Trichlorobenzene | 1 | 18.2374 | 0 | 20 | 91 | 70 | 130 |
| 1,2,3-Trichlorobenzene | 1 | 20.4744 | 0 | 20 | 102 | 70 | 130 |
| Naphthalene | 1 | 19.5155 | 0 | 20 | 98 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96792

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152877.D | AD26083-008(MSD) | 9/23/2021 2:44:00 AM |
| Non Spike(If applicable): | 1M152896.D | AD26083-008 | 9/23/2021 8:41:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| Dichlorodifluoromethane | 1 | 51.9201 | 0 | 20 | 260* | 50 | 150 |
| Chloromethane | 1 | 31.8534 | 0 | 20 | 159* | 50 | 150 |
| Bromomethane | 1 | 14.92 | 0 | 20 | 75 | 50 | 150 |
| Vinyl Chloride | 1 | 30.9298 | 0 | 20 | 155* | 50 | 150 |
| Chloroethane | 1 | 27.8228 | 0 | 20 | 139 | 50 | 150 |
| Trichlorofluoromethane | 1 | 12.6738 | 0 | 20 | 63 | 50 | 150 |
| Ethyl ether | 1 | 24.308 | 0 | 20 | 122 | 50 | 150 |
| Furan | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 0 | 0 | 20 | 0* | 50 | 150 |
| Methylene Chloride | 1 | 20.7946 | 0 | 20 | 104 | 70 | 130 |
| Acrolein | 1 | 69.3736 | 0 | 100 | 69 | 50 | 150 |
| Acrylonitrile | 1 | 30.3395 | 0 | 20 | 152* | 50 | 150 |
| Iodomethane | 1 | 13.8284 | 0 | 20 | 69 | 50 | 150 |
| Acetone | 1 | 161.8939 | 0 | 100 | 162* | 50 | 150 |
| Carbon Disulfide | 1 | 30.1238 | 0 | 20 | 151* | 50 | 150 |
| t-Butyl Alcohol | 1 | 146.1395 | 0 | 100 | 146 | 50 | 150 |
| n-Hexane | 1 | 32.1831 | 0 | 20 | 161* | 70 | 130 |
| Di-isopropyl-ether | 1 | 29.4301 | 0 | 20 | 147* | 70 | 130 |
| 1,1-Dichloroethene | 1 | 22.5019 | 0 | 20 | 113 | 70 | 130 |
| Methyl Acetate | 1 | 29.2923 | 0 | 20 | 146 | 50 | 150 |
| Methyl-t-butyl ether | 1 | 22.9307 | 0 | 20 | 115 | 70 | 130 |
| 1,1-Dichloroethane | 1 | 23.3331 | 0 | 20 | 117 | 70 | 130 |
| trans-1,2-Dichloroethene | 1 | 19.5757 | 0 | 20 | 98 | 70 | 130 |
| Ethyl-t-butyl ether | 1 | 24.1984 | 0 | 20 | 121 | 70 | 130 |
| cis-1,2-Dichloroethene | 1 | 23.5664 | 0 | 20 | 118 | 70 | 130 |
| Bromochloromethane | 1 | 30.6168 | 0 | 20 | 153* | 70 | 130 |
| 2,2-Dichloropropane | 1 | 22.0727 | 0 | 20 | 110 | 70 | 130 |
| Ethyl acetate | 1 | 39.2016 | 0 | 20 | 196* | 50 | 150 |
| 1,4-Dioxane | 1 | 1153.395 | 0 | 1000 | 115 | 50 | 150 |
| 1,1-Dichloropropene | 1 | 21.4231 | 0 | 20 | 107 | 70 | 130 |
| Chloroform | 1 | 21.4643 | 0 | 20 | 107 | 70 | 130 |
| Cyclohexane | 1 | 27.7882 | 0 | 20 | 139* | 70 | 130 |
| 1,2-Dichloroethane | 1 | 22.985 | 0 | 20 | 115 | 70 | 130 |
| 2-Butanone | 1 | 70.0063 | 0 | 20 | 350* | 50 | 150 |
| 1,1,1-Trichloroethane | 1 | 21.637 | 0 | 20 | 108 | 70 | 130 |
| Carbon Tetrachloride | 1 | 20.6672 | 0 | 20 | 103 | 50 | 150 |
| Vinyl Acetate | 1 | 29.3366 | 0 | 20 | 147 | 50 | 150 |
| Bromodichloromethane | 1 | 21.4662 | 0 | 20 | 107 | 70 | 130 |
| Methylcyclohexane | 1 | 23.1238 | 0 | 20 | 116 | 70 | 130 |
| Dibromomethane | 1 | 19.841 | 0 | 20 | 99 | 70 | 130 |
| 1,2-Dichloropropane | 1 | 22.7555 | 0 | 20 | 114 | 70 | 130 |
| Trichloroethene | 1 | 19.3266 | 0 | 20 | 97 | 70 | 130 |
| Benzene | 1 | 19.888 | 0 | 20 | 99 | 70 | 130 |
| tert-Amyl methyl ether | 1 | 20.8362 | 0 | 20 | 104 | 70 | 130 |
| Iso-propylacetate | 1 | 27.2146 | 0 | 20 | 136* | 70 | 130 |
| Methyl methacrylate | 1 | 23.265 | 0 | 20 | 116 | 70 | 130 |
| Dibromochloromethane | 1 | 17.5908 | 0 | 20 | 88 | 70 | 130 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | 20 | 0* | 70 | 130 |
| cis-1,3-Dichloropropene | 1 | 18.8659 | 0 | 20 | 94 | 70 | 130 |
| trans-1,3-Dichloropropene | 1 | 18.4615 | 0 | 20 | 92 | 70 | 130 |
| Ethyl methacrylate | 1 | 26.9265 | 0 | 20 | 135* | 70 | 130 |
| 1,1,2-Trichloroethane | 1 | 19.1795 | 0 | 20 | 96 | 70 | 130 |
| 1,2-Dibromoethane | 1 | 19.2157 | 0 | 20 | 96 | 70 | 130 |
| 1,3-Dichloropropane | 1 | 20.3322 | 0 | 20 | 102 | 70 | 130 |
| 4-Methyl-2-Pentanone | 1 | 27.2767 | 0 | 20 | 136 | 50 | 150 |
| 2-Hexanone | 1 | 26.161 | 0 | 20 | 131 | 50 | 150 |
| Tetrachloroethene | 1 | 17.9674 | 0 | 20 | 90 | 50 | 150 |
| Toluene | 1 | 18.6307 | 0 | 20 | 93 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 1 | 17.5086 | 0 | 20 | 88 | 70 | 130 |
| Chlorobenzene | 1 | 18.916 | 0 | 20 | 95 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: MBS96792

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 22.3487 | 0 | 20 | 112 | 70 | 130 |
| n-Amyl acetate | 1 | 24.8623 | 0 | 20 | 124 | 70 | 130 |
| Bromoform | 1 | 17.3181 | 0 | 20 | 87 | 70 | 130 |
| Ethylbenzene | 1 | 18.6983 | 0 | 20 | 93 | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 1 | 20.2878 | 0 | 20 | 101 | 70 | 130 |
| Styrene | 1 | 18.6908 | 0 | 20 | 93 | 70 | 130 |
| m&p-Xylenes | 1 | 37.902 | 0 | 40 | 95 | 70 | 130 |
| o-Xylene | 1 | 18.7572 | 0 | 20 | 94 | 70 | 130 |
| trans-1,4-Dichloro-2-butene | 1 | 16.1593 | 0 | 20 | 81 | 50 | 150 |
| 1,3-Dichlorobenzene | 1 | 17.9981 | 0 | 20 | 90 | 70 | 130 |
| 1,4-Dichlorobenzene | 1 | 18.0203 | 0 | 20 | 90 | 70 | 130 |
| 1,2-Dichlorobenzene | 1 | 18.038 | 0 | 20 | 90 | 70 | 130 |
| Isopropylbenzene | 1 | 18.8753 | 0 | 20 | 94 | 70 | 130 |
| Cyclohexanone | 1 | 98.646 | 0 | 100 | 99 | 50 | 150 |
| Camphene | 1 | 10.2556 | 0 | 20 | 51* | 70 | 130 |
| 1,2,3-Trichloropropane | 1 | 18.1251 | 0 | 20 | 91 | 70 | 130 |
| 2-Chlorotoluene | 1 | 19.0907 | 0 | 20 | 95 | 70 | 130 |
| p-Ethyltoluene | 1 | 18.5686 | 0 | 20 | 93 | 70 | 130 |
| 4-Chlorotoluene | 1 | 18.8559 | 0 | 20 | 94 | 70 | 130 |
| n-Propylbenzene | 1 | 19.4498 | 0 | 20 | 97 | 70 | 130 |
| Bromobenzene | 1 | 18.4139 | 0 | 20 | 92 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 1 | 18.9715 | 0 | 20 | 95 | 70 | 130 |
| Butyl methacrylate | 1 | 25.3271 | 0 | 20 | 127 | 70 | 130 |
| t-Butylbenzene | 1 | 18.7223 | 0 | 20 | 94 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 1 | 18.3695 | 0 | 20 | 92 | 70 | 130 |
| sec-Butylbenzene | 1 | 19.2185 | 0 | 20 | 96 | 70 | 130 |
| 4-Isopropyltoluene | 1 | 18.5916 | 0 | 20 | 93 | 70 | 130 |
| n-Butylbenzene | 1 | 20.3115 | 0 | 20 | 102 | 70 | 130 |
| p-Diethylbenzene | 1 | 18.4186 | 0 | 20 | 92 | 70 | 130 |
| 1,2,4,5-Tetramethylbenzene | 1 | 15.7979 | 0 | 20 | 79 | 70 | 130 |
| 1,2-Dibromo-3-Chloropropane | 1 | 18.377 | 0 | 20 | 92 | 50 | 150 |
| Camphor | 1 | 182.6739 | 0 | 200 | 91 | 20 | 150 |
| Hexachlorobutadiene | 1 | 18.7756 | 0 | 20 | 94 | 50 | 150 |
| 1,2,4-Trichlorobenzene | 1 | 18.8208 | 0 | 20 | 94 | 70 | 130 |
| 1,2,3-Trichlorobenzene | 1 | 20.6585 | 0 | 20 | 103 | 70 | 130 |
| Naphthalene | 1 | 19.626 | 0 | 20 | 98 | 50 | 150 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: MBS96792

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 1M152877.D | AD26083-008(MSD) | 9/23/2021 2:44:00 AM |
| Duplicate(If applicable): | 1M152876.D | AD26083-008(MS) | 9/23/2021 2:26:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| Chlorodifluoromethane | 1 | 0 | 0 | NA | 30 |
| Dichlorodifluoromethane | 1 | 51.9201 | 55.6145 | 6.9 | 30 |
| Chloromethane | 1 | 31.8534 | 35.0963 | 9.7 | 30 |
| Bromomethane | 1 | 14.92 | 8.0031 | 60* | 30 |
| Vinyl Chloride | 1 | 30.9298 | 33.7838 | 8.8 | 40 |
| Chloroethane | 1 | 27.8228 | 29.1206 | 4.6 | 30 |
| Trichlorofluoromethane | 1 | 12.6738 | 28.6393 | 77* | 30 |
| Ethyl ether | 1 | 24.308 | 26.1221 | 7.2 | 30 |
| Furan | 1 | 0 | 0 | NA | 30 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1 | 0 | 0 | NA | 30 |
| Methylene Chloride | 1 | 20.7946 | 0 | 200* | 30 |
| Acrolein | 1 | 69.3736 | 160.4081 | 79* | 30 |
| Acrylonitrile | 1 | 30.3395 | 31.0007 | 2.2 | 30 |
| Iodomethane | 1 | 13.8284 | 12.6804 | 8.7 | 30 |
| Acetone | 1 | 161.8939 | 89.6703 | 57* | 30 |
| Carbon Disulfide | 1 | 30.1238 | 33.8224 | 12 | 30 |
| t-Butyl Alcohol | 1 | 146.1395 | 141.9782 | 2.9 | 30 |
| n-Hexane | 1 | 32.1831 | 34.2904 | 6.3 | 30 |
| Di-isopropyl-ether | 1 | 29.4301 | 31.1993 | 5.8 | 30 |
| 1,1-Dichloroethene | 1 | 22.5019 | 24.5198 | 8.6 | 40 |
| Methyl Acetate | 1 | 29.2923 | 30.9465 | 5.5 | 30 |
| Methyl-t-butyl ether | 1 | 22.9307 | 24.1875 | 5.3 | 30 |
| 1,1-Dichloroethane | 1 | 23.3331 | 25.5025 | 8.9 | 40 |
| trans-1,2-Dichloroethene | 1 | 19.5757 | 21.5474 | 9.6 | 30 |
| Ethyl-t-butyl ether | 1 | 24.1984 | 23.6822 | 2.2 | 30 |
| cis-1,2-Dichloroethene | 1 | 23.5664 | 24.1266 | 2.3 | 30 |
| Bromochloromethane | 1 | 30.6168 | 27.4238 | 11 | 30 |
| 2,2-Dichloropropane | 1 | 22.0727 | 23.5207 | 6.4 | 30 |
| Ethyl acetate | 1 | 39.2016 | 36.5629 | 7 | 30 |
| 1,4-Dioxane | 1 | 1153.395 | 1211.787 | 4.9 | 30 |
| 1,1-Dichloropropene | 1 | 21.4231 | 23.1584 | 7.8 | 30 |
| Chloroform | 1 | 21.4643 | 23.4067 | 8.7 | 40 |
| Cyclohexane | 1 | 27.7882 | 29.3096 | 5.3 | 30 |
| 1,2-Dichloroethane | 1 | 22.985 | 24.2183 | 5.2 | 40 |
| 2-Butanone | 1 | 70.0063 | 65.2854 | 7 | 40 |
| 1,1,1-Trichloroethane | 1 | 21.637 | 23.8566 | 9.8 | 30 |
| Carbon Tetrachloride | 1 | 20.6672 | 20.964 | 1.4 | 40 |
| Vinyl Acetate | 1 | 29.3366 | 31.5018 | 7.1 | 30 |
| Bromodichloromethane | 1 | 21.4662 | 22.6647 | 5.4 | 30 |
| Methylcyclohexane | 1 | 23.1238 | 24.5778 | 6.1 | 30 |
| Dibromomethane | 1 | 19.841 | 21.0285 | 5.8 | 30 |
| 1,2-Dichloropropane | 1 | 22.7555 | 24.0943 | 5.7 | 30 |
| Trichloroethene | 1 | 19.3266 | 20.5423 | 6.1 | 40 |
| Benzene | 1 | 19.888 | 21.6593 | 8.5 | 40 |
| tert-Amyl methyl ether | 1 | 20.8362 | 22.1794 | 6.2 | 30 |
| Iso-propylacetate | 1 | 27.2146 | 26.4516 | 2.8 | 30 |
| Methyl methacrylate | 1 | 23.265 | 25.7027 | 10 | 30 |
| Dibromochloromethane | 1 | 17.5908 | 19.4112 | 9.8 | 30 |
| 2-Chloroethylvinylether | 1 | 0 | 0 | NA | 30 |
| cis-1,3-Dichloropropene | 1 | 18.8659 | 19.714 | 4.4 | 30 |
| trans-1,3-Dichloropropene | 1 | 18.4615 | 19.8566 | 7.3 | 30 |
| Ethyl methacrylate | 1 | 26.9265 | 26.9952 | 0.25 | 30 |
| 1,1,2-Trichloroethane | 1 | 19.1795 | 20.6515 | 7.4 | 30 |
| 1,2-Dibromoethane | 1 | 19.2157 | 19.9719 | 3.9 | 30 |
| 1,3-Dichloropropane | 1 | 20.3322 | 20.6734 | 1.7 | 30 |
| 4-Methyl-2-Pentanone | 1 | 27.2767 | 25.4427 | 7 | 30 |
| 2-Hexanone | 1 | 26.161 | 26.0651 | 0.37 | 30 |
| Tetrachloroethene | 1 | 17.9674 | 18.8447 | 4.8 | 40 |
| Toluene | 1 | 18.6307 | 19.748 | 5.8 | 40 |
| 1,1,1,2-Tetrachloroethane | 1 | 17.5086 | 19.556 | 11 | 30 |
| Chlorobenzene | 1 | 18.916 | 19.6889 | 4 | 40 |

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: MBS96792

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| n-Butyl acrylate | 1 | 22.3487 | 23.255 | 4 | 30 |
| n-Amyl acetate | 1 | 24.8623 | 25.9326 | 4.2 | 30 |
| Bromoform | 1 | 17.3181 | 17.2332 | 0.49 | 30 |
| Ethylbenzene | 1 | 18.6983 | 20.6472 | 9.9 | 30 |
| 1,1,2,2-Tetrachloroethane | 1 | 20.2878 | 21.1968 | 4.4 | 30 |
| Styrene | 1 | 18.6908 | 19.1382 | 2.4 | 30 |
| m&p-Xylenes | 1 | 37.902 | 39.2874 | 3.6 | 30 |
| o-Xylene | 1 | 18.7572 | 19.7507 | 5.2 | 30 |
| trans-1,4-Dichloro-2-butene | 1 | 16.1593 | 16.4821 | 2 | 30 |
| 1,3-Dichlorobenzene | 1 | 17.9981 | 18.9908 | 5.4 | 30 |
| 1,4-Dichlorobenzene | 1 | 18.0203 | 19.3478 | 7.1 | 40 |
| 1,2-Dichlorobenzene | 1 | 18.038 | 18.8441 | 4.4 | 40 |
| Isopropylbenzene | 1 | 18.8753 | 20.1156 | 6.4 | 30 |
| Cyclohexanone | 1 | 98.646 | 99.8646 | 1.2 | 30 |
| Camphene | 1 | 10.2556 | 12.4486 | 19 | 30 |
| 1,2,3-Trichloropropane | 1 | 18.1251 | 18.7065 | 3.2 | 30 |
| 2-Chlorotoluene | 1 | 19.0907 | 20.3134 | 6.2 | 30 |
| p-Ethyltoluene | 1 | 18.5686 | 19.7586 | 6.2 | 30 |
| 4-Chlorotoluene | 1 | 18.8559 | 19.8353 | 5.1 | 30 |
| n-Propylbenzene | 1 | 19.4498 | 20.2599 | 4.1 | 40 |
| Bromobenzene | 1 | 18.4139 | 20.704 | 12 | 30 |
| 1,3,5-Trimethylbenzene | 1 | 18.9715 | 19.6991 | 3.8 | 30 |
| Butyl methacrylate | 1 | 25.3271 | 26.5506 | 4.7 | 30 |
| t-Butylbenzene | 1 | 18.7223 | 19.232 | 2.7 | 30 |
| 1,2,4-Trimethylbenzene | 1 | 18.3695 | 19.5023 | 6 | 30 |
| sec-Butylbenzene | 1 | 19.2185 | 19.6958 | 2.5 | 40 |
| 4-Isopropyltoluene | 1 | 18.5916 | 19.3184 | 3.8 | 30 |
| n-Butylbenzene | 1 | 20.3115 | 20.8205 | 2.5 | 30 |
| p-Diethylbenzene | 1 | 18.4186 | 19.3859 | 5.1 | 30 |
| 1,2,4,5-Tetramethylbenzene | 1 | 15.7979 | 16.4648 | 4.1 | 30 |
| 1,2-Dibromo-3-Chloropropane | 1 | 18.377 | 20.6668 | 12 | 30 |
| Camphor | 1 | 182.6739 | 180.7884 | 1 | 30 |
| Hexachlorobutadiene | 1 | 18.7756 | 20.4459 | 8.5 | 30 |
| 1,2,4-Trichlorobenzene | 1 | 18.8208 | 18.2374 | 3.1 | 30 |
| 1,2,3-Trichlorobenzene | 1 | 20.6585 | 20.4744 | 0.9 | 30 |
| Naphthalene | 1 | 19.626 | 19.5155 | 0.56 | 30 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Quantitation Report (Not Reviewed)

SampleID : AD26083-008(MS) Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152876.D Sam Mult : 1 Vial# : 19 Qt On : 09/23/21 12:04
Acq On : 09/23/21 02:26 Misc : A,5ML!1 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 82517 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 67977 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.255 | 152 | 37505 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.898 | 111 | 23290 | 32.29 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 107.63% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 13717 | 34.98 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 116.60% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 83603 | 28.90 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 96.33% | | | |
| 76) Bromofluorobenzene | 7.592 | 174 | 28462 | 29.27 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 97.57% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 6) Dichlorodifluoromethane | 2.081 | 85 | 24213 | 55.6145 | ug/l | 86 |
| 7) Chloromethane | 2.242 | 50 | 25926 | 35.0963 | ug/l | 96 |
| 8) Bromomethane | 2.609 | 94 | 3175 | 8.0031 | ug/l | 91 |
| 9) Vinyl Chloride | 2.332 | 62 | 24100 | 33.7838 | ug/l | 90 |
| 10) Chloroethane | 2.692 | 64 | 13739 | 29.1206 | ug/l | 88 |
| 11) Trichlorofluoromethane | 2.895 | 101 | 30039 | 28.6393 | ug/l | 95 |
| 12) Ethyl ether | 3.110 | 59 | 12384 | 26.1221 | ug/l | 69 |
| 16) Acrolein | 3.207 | 56 | 14367 | 160.4081 | ug/l | 81 |
| 17) Acrylonitrile | 3.853 | 53 | 7399 | 31.0007 | ug/l | 98 |
| 18) Iodomethane | 3.445 | 142 | 8887 | 12.6804 | ug/l | 93 |
| 19) Acetone | 3.329 | 43 | 14175 | 89.6703 | ug/l | 82 |
| 20) Carbon Disulfide | 3.509 | 76 | 48525 | 33.8224 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.731 | 59 | 9339 | 141.9782 | ug/l | 65 |
| 22) n-Hexane | 4.110 | 57 | 20355 | 34.2904 | ug/l | 97 |
| 23) Di-isopropyl-ether | 4.255 | 45 | 59622 | 31.1993 | ug/l | 77 |
| 24) 1,1-Dichloroethene | 3.309 | 61 | 27301 | 24.5198 | ug/l | 83 |
| 25) Methyl Acetate | 3.589 | 43 | 15768 | 30.9465 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.898 | 73 | 39488 | 24.1875 | ug/l | 78 |
| 27) 1,1-Dichloroethane | 4.226 | 63 | 32934 | 25.5025 | ug/l | 94 |
| 28) trans-1,2-Dichloroethene | 3.904 | 96 | 14746 | 21.5474 | ug/l | 76 |
| 29) Ethyl-t-butyl ether | 4.509 | 59 | 47504 | 23.6822 | ug/l | 87 |
| 30) cis-1,2-Dichloroethene | 4.621 | 61 | 32060 | 24.1266 | ug/l | 81 |
| 31) Bromochloromethane | 4.772 | 49 | 18255 | 27.4238 | ug/l | 66 |
| 32) 2,2-Dichloropropane | 4.628 | 77 | 25459 | 23.5207 | ug/l | 96 |
| 33) Ethyl acetate | 4.637 | 43 | 23888 | 36.5629 | ug/l | 93 |
| 34) 1,4-Dioxane | 5.695 | 88 | 8875 | 1211.7875 | ug/l | 72 |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 21223 | 23.1584 | ug/l | 96 |
| 36) Chloroform | 4.805 | 83 | 29457 | 23.4067 | ug/l | 95 |
| 38) Cyclohexane | 4.981 | 56 | 26045 | 29.3096 | ug/l | 73 |
| 40) 1,2-Dichloroethane | 5.149 | 62 | 27115 | 24.2183 | ug/l | 91 |
| 41) 2-Butanone | 4.637 | 43 | 23888 | 65.2854 | ug/l | 91 |
| 42) 1,1,1-Trichloroethane | 4.940 | 97 | 27728 | 23.8566 | ug/l | 97 |
| 43) Carbon Tetrachloride | 5.043 | 117 | 20282 | 20.9640 | ug/l | 93 |
| 44) Vinyl Acetate | 4.248 | 43 | 59581 | 31.5018 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 21568 | 22.6647 | ug/l | 99 |
| 46) Methylcyclohexane | 5.628 | 83 | 18016 | 24.5778 | ug/l | 78 |
| 47) Dibromomethane | 5.695 | 174 | 9880 | 21.0285 | ug/l | 88 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 17335 | 24.0943 | ug/l | 96 |
| 49) Trichloroethene | 5.506 | 130 | 15511 | 20.5423 | ug/l | 94 |
| 50) Benzene | 5.152 | 78 | 57590 | 21.6593 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 37923 | 22.1794 | ug/l | 88 |
| 53) Iso-propylacetate | 5.145 | 43 | 32230 | 26.4516 | ug/l | 91 |
| 54) Methyl methacrylate | 5.660 | 41 | 13245 | 25.7027 | ug/l | 66 |
| 55) Dibromochloromethane | 6.634 | 129 | 14812 | 19.4112 | ug/l | 85 |
| 57) cis-1,3-Dichloropropene | 6.007 | 75 | 20983 | 19.7140 | ug/l | 99 |
| 58) trans-1,3-Dichloropropene | 6.296 | 75 | 19878 | 19.8566 | ug/l | 96 |
| 59) Ethyl methacrylate | 6.322 | 41 | 15598 | 26.9952 | ug/l | 56 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 13307 | 20.6515 | ug/l | 86 |
| 61) 1,2-Dibromoethane | 6.714 | 107 | 13233 | 19.9719 | ug/l | 95 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 22580 | 20.6734 | ug/l | 95 |
| 63) 4-Methyl-2-Pentanone | 6.075 | 43 | 15168 | 25.4427 | ug/l | 89 |
| 64) 2-Hexanone | 6.518 | 43 | 10670 | 26.0651 | ug/l | 97 |
| 65) Tetrachloroethene | 6.509 | 164 | 11952 | 18.8447 | ug/l | 87 |
| 67) Toluene | 6.203 | 92 | 36247 | 19.7480 | ug/l | 87 |
| 68) 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 13786 | 19.5560 | ug/l | 98 |
| 69) Chlorobenzene | 6.975 | 112 | 39994 | 19.6889 | ug/l | 97 |
| 71) n-Butyl acrylate | 7.222 | 55 | 31865 | 23.2550 | ug/l | 84 |
| 72) n-Amyl acetate | 7.341 | 43 | 27914 | 25.9326 | ug/l | 82 |
| 73) Bromoform | 7.428 | 173 | 8915 | 17.2332 | ug/l | 85 |

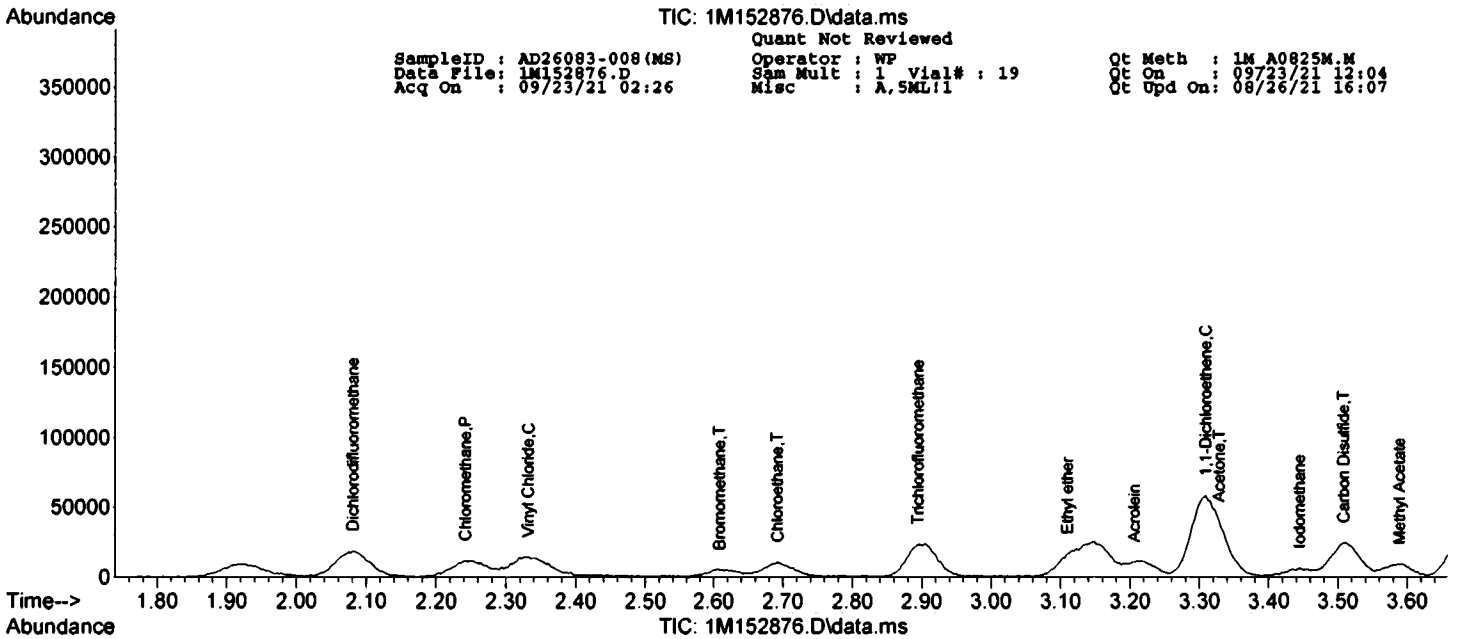
Quantitation Report (Not Reviewed)

SampleID : AD26083-008(MS) Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152876.D Sam Mult : 1 Vial# : 19 Qt On : 09/23/21 12:04
Acq On : 09/23/21 02:26 Misc : A,SML!1 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 74) | Ethylbenzene | 7.017 | 106 | 19120 | 20.6472 | ug/l | 96 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.644 | 83 | 17087 | 21.1968 | ug/l | 96 |
| 77) | Styrene | 7.303 | 104 | 42569 | 19.1382 | ug/l | 96 |
| 78) | m&p-Xylenes | 7.078 | 106 | 51918 | 39.2874 | ug/l | 97 |
| 79) | o-Xylene | 7.300 | 106 | 25292 | 19.7507 | ug/l | 92 |
| 80) | trans-1,4-Dichloro-2-b... | 7.673 | 53 | 5565 | 16.4821 | ug/l | 81 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 29660 | 18.9908 | ug/l | 96 |
| 82) | 1,4-Dichlorobenzene | 8.264 | 146 | 31218 | 19.3478 | ug/l | 96 |
| 83) | 1,2-Dichlorobenzene | 8.493 | 146 | 28121 | 18.8441 | ug/l | 97 |
| 84) | Isopropylbenzene | 7.496 | 105 | 62971 | 20.1156 | ug/l | 97 |
| 85) | Cyclohexanone | 7.570 | 55 | 3150 | 99.8646 | ug/l | 92 |
| 86) | Camphene | 7.669 | 93 | 8786 | 12.4486 | ug/l | 100 |
| 87) | 1,2,3-Trichloropropane | 7.686 | 75 | 19436 | 18.7065 | ug/l | 97 |
| 88) | 2-Chlorotoluene | 7.792 | 91 | 41736 | 20.3134 | ug/l | 91 |
| 89) | p-Ethyltoluene | 7.782 | 105 | 61324 | 19.7586 | ug/l | 92 |
| 90) | 4-Chlorotoluene | 7.849 | 91 | 40867 | 19.8353 | ug/l | 95 |
| 91) | n-Propylbenzene | 7.724 | 91 | 74291 | 20.2599 | ug/l | 96 |
| 92) | Bromobenzene | 7.695 | 77 | 37140 | 20.7040 | ug/l | 85 |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 50168 | 19.6991 | ug/l | 99 |
| 94) | Butyl methacrylate | 7.817 | 41 | 24687 | 26.5506 | ug/l | 54 |
| 95) | t-Butylbenzene | 8.007 | 119 | 45495 | 19.2320 | ug/l | 96 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 51639 | 19.5023 | ug/l | 95 |
| 97) | sec-Butylbenzene | 8.132 | 105 | 57142 | 19.6958 | ug/l | 98 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 46962 | 19.3184 | ug/l | 97 |
| 99) | n-Butylbenzene | 8.441 | 91 | 54578 | 20.8205 | ug/l | 93 |
| 100) | p-Diethylbenzene | 8.422 | 119 | 27071 | 19.3859 | ug/l | 94 |
| 101) | 1,2,4,5-Tetramethylben... | 8.885 | 119 | 31513 | 16.4648 | ug/l | 94 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.939 | 157 | 3460 | 20.6668 | ug/l | 94 |
| 103) | Camphor | 9.377 | 95 | 14288 | 180.7884 | ug/l | 98 |
| 104) | Hexachlorobutadiene | 9.521 | 225 | 7407 | 20.4459 | ug/l | 99 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 15023 | 18.2374 | ug/l | 93 |
| 106) | 1,2,3-Trichlorobenzene | 9.734 | 180 | 13467 | 20.4744 | ug/l | 98 |
| 107) | Naphthalene | 9.592 | 128 | 38582 | 19.5155 | ug/l | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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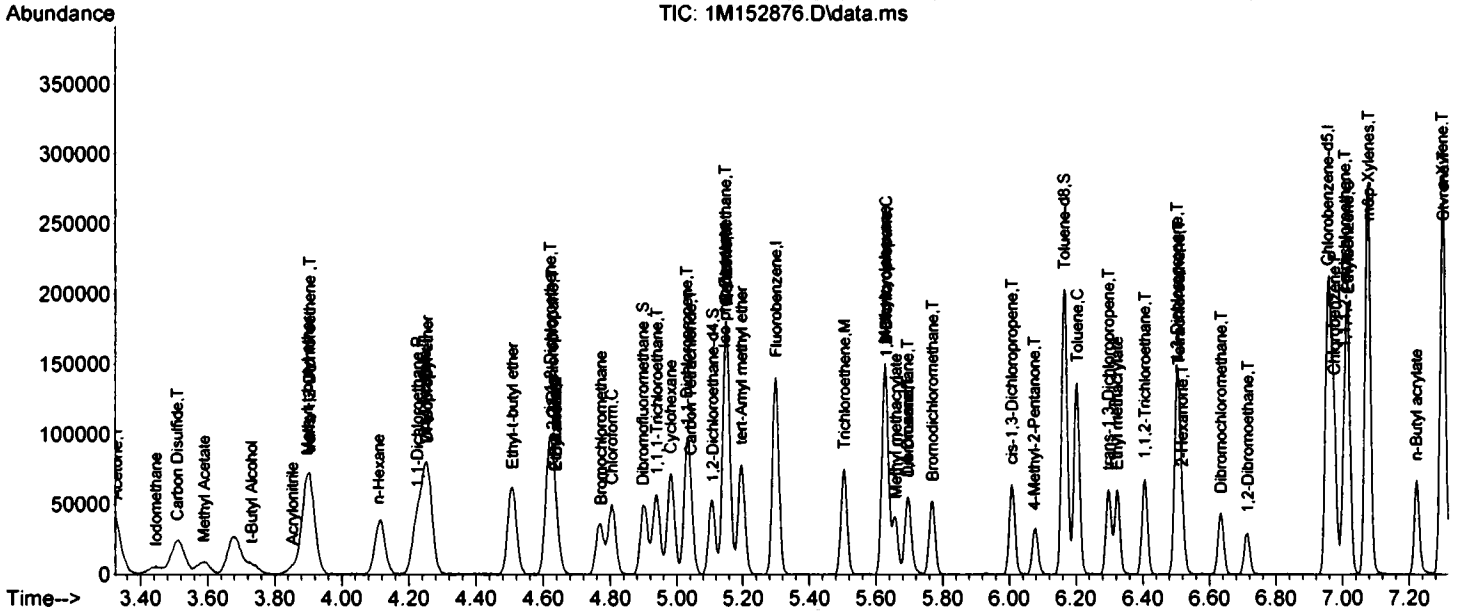
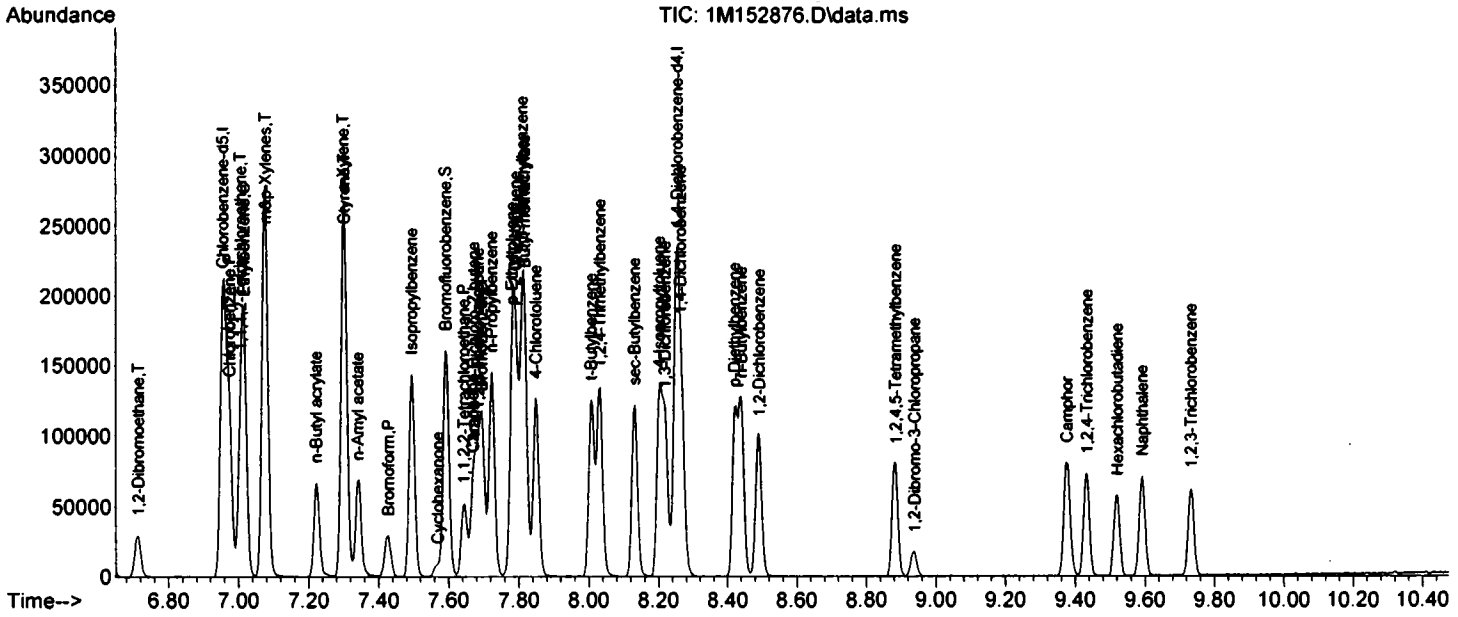
Quant Not Reviewed
SampleID : AD26083-008(MS)
Data File: 1M152876.D
Acq On : 09/23/21 02:26
Operator : WP
Sam Mult : 1 Vial# : 19
Misc : A,5ML!1
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:04
Qt Upd On: 08/26/21 16:07
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Acrolein
Acetone,T
1,1-Dichloroethene,C
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->


Abundance
TIC: 1M152876.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Chloroform,C
Cyclohexane
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
Time-->


Abundance
TIC: 1M152876.D\data.ms
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (Not Reviewed)

SampleID : AD26083-008(MSD) Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152877.D Sam Mult : 1 Vial# : 20 Qt On : 09/23/21 12:04
Acq On : 09/23/21 02:44 Misc : A,5ML!1 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 87730 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.956 | 117 | 72996 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.252 | 152 | 40825 | 30.00 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 37) Dibromofluoromethane | 4.901 | 111 | 25040 | 32.65 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 108.83% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.107 | 67 | 14704 | 35.27 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 117.57% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 88366 | 28.44 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 94.80% | | | |
| 76) Bromofluorobenzene | 7.596 | 174 | 31463 | 29.72 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 99.07% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 6) Dichlorodifluoromethane | 2.075 | 85 | 23903 | 51.9201 | ug/l | 89 |
| 7) Chloromethane | 2.249 | 50 | 25017 | 31.8534 | ug/l | 94 |
| 8) Bromomethane | 2.615 | 94 | 6293 | 14.9200 | ug/l | 88 |
| 9) Vinyl Chloride | 2.332 | 62 | 23458 | 30.9298 | ug/l | 93 |
| 10) Chloroethane | 2.689 | 64 | 13956 | 27.8228 | ug/l | 91 |
| 11) Trichlorofluoromethane | 2.895 | 101 | 14133 | 12.6738 | ug/l | 97 |
| 12) Ethyl ether | 3.113 | 59 | 12252 | 24.3080 | ug/l | 72 |
| 15) Methylene Chloride | 3.676 | 84 | 14889 | 20.7946 | ug/l | 67 |
| 16) Acrolein | 3.210 | 56 | 6606 | 69.3736 | ug/l | 92 |
| 17) Acrylonitrile | 3.856 | 53 | 7698 | 30.3395 | ug/l | 99 |
| 18) Iodomethane | 3.445 | 142 | 10305 | 13.8284 | ug/l | 85 |
| 19) Acetone | 3.329 | 43 | 27204 | 161.8939 | ug/l | 86 |
| 20) Carbon Disulfide | 3.506 | 76 | 45949 | 30.1238 | ug/l | 100 |
| 21) t-Butyl Alcohol | 3.728 | 59 | 10220 | 146.1395 | ug/l | 74 |
| 22) n-Hexane | 4.113 | 57 | 20311 | 32.1831 | ug/l | 96 |
| 23) Di-isopropyl-ether | 4.258 | 45 | 59794 | 29.4301 | ug/l | 74 |
| 24) 1,1-Dichloroethene | 3.306 | 61 | 26637 | 22.5019 | ug/l | 77 |
| 25) Methyl Acetate | 3.583 | 43 | 15868 | 29.2923 | ug/l | 100 |
| 26) Methyl-t-butyl ether | 3.904 | 73 | 39800 | 22.9307 | ug/l | 79 |
| 27) 1,1-Dichloroethane | 4.226 | 63 | 32036 | 23.3331 | ug/l | 90 |
| 28) trans-1,2-Dichloroethene | 3.914 | 96 | 14243 | 19.5757 | ug/l | 79 |
| 29) Ethyl-t-butyl ether | 4.506 | 59 | 51606 | 24.1984 | ug/l | 85 |
| 30) cis-1,2-Dichloroethene | 4.621 | 61 | 33294 | 23.5664 | ug/l | 72 |
| 31) Bromochloromethane | 4.766 | 49 | 21668 | 30.6168 | ug/l | 61 |
| 32) 2,2-Dichloropropane | 4.631 | 77 | 25401 | 22.0727 | ug/l | 97 |
| 33) Ethyl acetate | 4.637 | 43 | 27230 | 39.2016 | ug/l | 80 |
| 34) 1,4-Dioxane | 5.699 | 88 | 8981 | 1153.3951 | ug/l | 79 |
| 35) 1,1-Dichloropropene | 5.030 | 75 | 20873 | 21.4231 | ug/l | 94 |
| 36) Chloroform | 4.805 | 83 | 28719 | 21.4643 | ug/l | 97 |
| 38) Cyclohexane | 4.985 | 56 | 26253 | 27.7882 | ug/l | 71 |
| 40) 1,2-Dichloroethane | 5.152 | 62 | 27360 | 22.9850 | ug/l | 93 |
| 41) 2-Butanone | 4.637 | 43 | 27230 | 70.0063 | ug/l | 92 |
| 42) 1,1,1-Trichloroethane | 4.940 | 97 | 26737 | 21.6370 | ug/l | 94 |
| 43) Carbon Tetrachloride | 5.039 | 117 | 21258 | 20.6672 | ug/l | 98 |
| 44) Vinyl Acetate | 4.245 | 43 | 58991 | 29.3366 | ug/l | 100 |
| 45) Bromodichloromethane | 5.769 | 83 | 21718 | 21.4662 | ug/l | 92 |
| 46) Methylcyclohexane | 5.625 | 83 | 18021 | 23.1238 | ug/l | 76 |
| 47) Dibromomethane | 5.699 | 174 | 9911 | 19.8410 | ug/l | 86 |
| 48) 1,2-Dichloropropane | 5.631 | 63 | 17406 | 22.7555 | ug/l | 96 |
| 49) Trichloroethene | 5.506 | 130 | 15515 | 19.3266 | ug/l | 96 |
| 50) Benzene | 5.152 | 78 | 56221 | 19.8880 | ug/l | 100 |
| 51) tert-Amyl methyl ether | 5.197 | 73 | 37877 | 20.8362 | ug/l | 88 |
| 53) Iso-propylacetate | 5.149 | 43 | 35608 | 27.2146 | ug/l | 89 |
| 54) Methyl methacrylate | 5.657 | 41 | 12874 | 23.2650 | ug/l | 73 |
| 55) Dibromochloromethane | 6.637 | 129 | 14414 | 17.5908 | ug/l | 94 |
| 57) cis-1,3-Dichloropropene | 6.010 | 75 | 21563 | 18.8659 | ug/l | 94 |
| 58) trans-1,3-Dichloropropene | 6.300 | 75 | 19846 | 18.4615 | ug/l | 100 |
| 59) Ethyl methacrylate | 6.322 | 41 | 16707 | 26.9265 | ug/l | 58 |
| 60) 1,1,2-Trichloroethane | 6.406 | 97 | 13271 | 19.1795 | ug/l | 87 |
| 61) 1,2-Dibromoethane | 6.715 | 107 | 13672 | 19.2157 | ug/l | 97 |
| 62) 1,3-Dichloropropane | 6.502 | 76 | 23847 | 20.3322 | ug/l | 96 |
| 63) 4-Methyl-2-Pentanone | 6.078 | 43 | 17462 | 27.2767 | ug/l | 86 |
| 64) 2-Hexanone | 6.522 | 43 | 11500 | 26.1610 | ug/l | 90 |
| 65) Tetrachloroethene | 6.509 | 164 | 12237 | 17.9674 | ug/l | 95 |
| 67) Toluene | 6.203 | 92 | 36721 | 18.6307 | ug/l | 83 |
| 68) 1,1,1,2-Tetrachloroethane | 7.007 | 133 | 13254 | 17.5086 | ug/l | 97 |
| 69) Chlorobenzene | 6.972 | 112 | 41261 | 18.9160 | ug/l | 99 |
| 71) n-Butyl acrylate | 7.223 | 55 | 33334 | 22.3487 | ug/l | 86 |
| 72) n-Amyl acetate | 7.342 | 43 | 29131 | 24.8623 | ug/l | 82 |

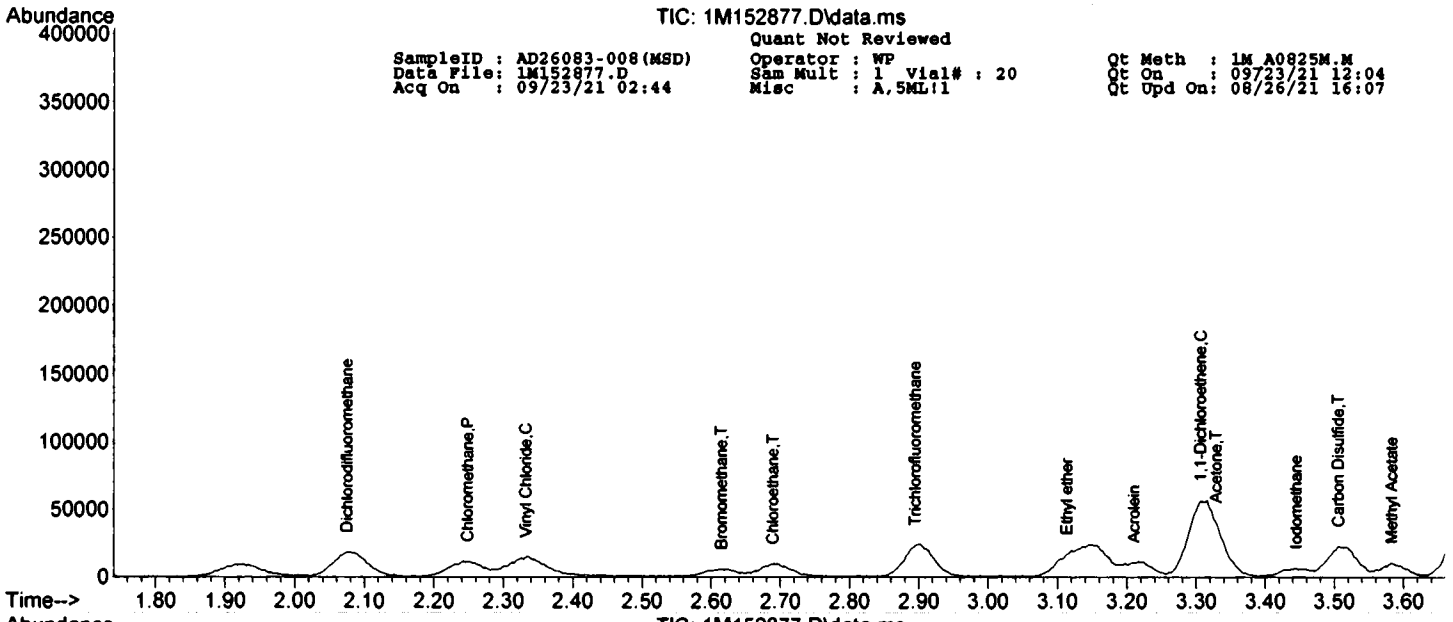
Quantitation Report (Not Reviewed)

SampleID : AD26083-008(MSD) Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152877.D Sam Mult : 1 Vial# : 20 Qt On : 09/23/21 12:04
Acq On : 09/23/21 02:44 Misc : A,5ML!1 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 73) | Bromoform | 7.425 | 173 | 9752 | 17.3181 | ug/l | 95 |
| 74) | Ethylbenzene | 7.017 | 106 | 18848 | 18.6983 | ug/l | 97 |
| 75) | 1,1,2,2-Tetrachloroethane | 7.647 | 83 | 17802 | 20.2878 | ug/l | 98 |
| 77) | Styrene | 7.303 | 104 | 45254 | 18.6908 | ug/l | 94 |
| 78) | m&p-Xylenes | 7.078 | 106 | 54521 | 37.9020 | ug/l | 96 |
| 79) | o-Xylene | 7.303 | 106 | 26146 | 18.7572 | ug/l | 99 |
| 80) | trans-1,4-Dichloro-2-b... | 7.673 | 53 | 5939 | 16.1593 | ug/l | 79 |
| 81) | 1,3-Dichlorobenzene | 8.219 | 146 | 30598 | 17.9981 | ug/l | 97 |
| 82) | 1,4-Dichlorobenzene | 8.268 | 146 | 31650 | 18.0203 | ug/l | 98 |
| 83) | 1,2-Dichlorobenzene | 8.493 | 146 | 29301 | 18.0380 | ug/l | 98 |
| 84) | Isopropylbenzene | 7.496 | 105 | 64319 | 18.8753 | ug/l | 98 |
| 85) | Cyclohexanone | 7.567 | 55 | 3387 | 98.6460 | ug/l | 90 |
| 86) | Camphene | 7.673 | 93 | 7879 | 10.2556 | ug/l | 96 |
| 87) | 1,2,3-Trichloropropane | 7.686 | 75 | 20499 | 18.1251 | ug/l | 97 |
| 88) | 2-Chlorotoluene | 7.795 | 91 | 42696 | 19.0907 | ug/l | 90 |
| 89) | p-Ethyltoluene | 7.782 | 105 | 62732 | 18.5686 | ug/l | 96 |
| 90) | 4-Chlorotoluene | 7.850 | 91 | 42288 | 18.8559 | ug/l | 96 |
| 91) | n-Propylbenzene | 7.724 | 91 | 77634 | 19.4498 | ug/l | 97 |
| 92) | Bromobenzene | 7.698 | 77 | 35956 | 18.4139 | ug/l | 77 |
| 93) | 1,3,5-Trimethylbenzene | 7.811 | 105 | 52592 | 18.9715 | ug/l | 98 |
| 94) | Butyl methacrylate | 7.817 | 41 | 25634 | 25.3271 | ug/l | 53 |
| 95) | t-Butylbenzene | 8.007 | 119 | 48210 | 18.7223 | ug/l | 98 |
| 96) | 1,2,4-Trimethylbenzene | 8.033 | 105 | 52945 | 18.3695 | ug/l | 97 |
| 97) | sec-Butylbenzene | 8.133 | 105 | 60693 | 19.2185 | ug/l | 96 |
| 98) | 4-Isopropyltoluene | 8.203 | 119 | 49196 | 18.5916 | ug/l | 98 |
| 99) | n-Butylbenzene | 8.441 | 91 | 57957 | 20.3115 | ug/l | 94 |
| 100) | p-Diethylbenzene | 8.425 | 119 | 27997 | 18.4186 | ug/l | 97 |
| 101) | 1,2,4,5-Tetramethylben... | 8.882 | 119 | 32913 | 15.7979 | ug/l | 96 |
| 102) | 1,2-Dibromo-3-Chloropr... | 8.940 | 157 | 3349 | 18.3770 | ug/l | 98 |
| 103) | Camphor | 9.377 | 95 | 15715 | 182.6739 | ug/l | 97 |
| 104) | Hexachlorobutadiene | 9.518 | 225 | 7404 | 18.7756 | ug/l | 99 |
| 105) | 1,2,4-Trichlorobenzene | 9.435 | 180 | 16876 | 18.8208 | ug/l | 97 |
| 106) | 1,2,3-Trichlorobenzene | 9.737 | 180 | 14791 | 20.6585 | ug/l | 98 |
| 107) | Naphthalene | 9.592 | 128 | 42235 | 19.6260 | ug/l | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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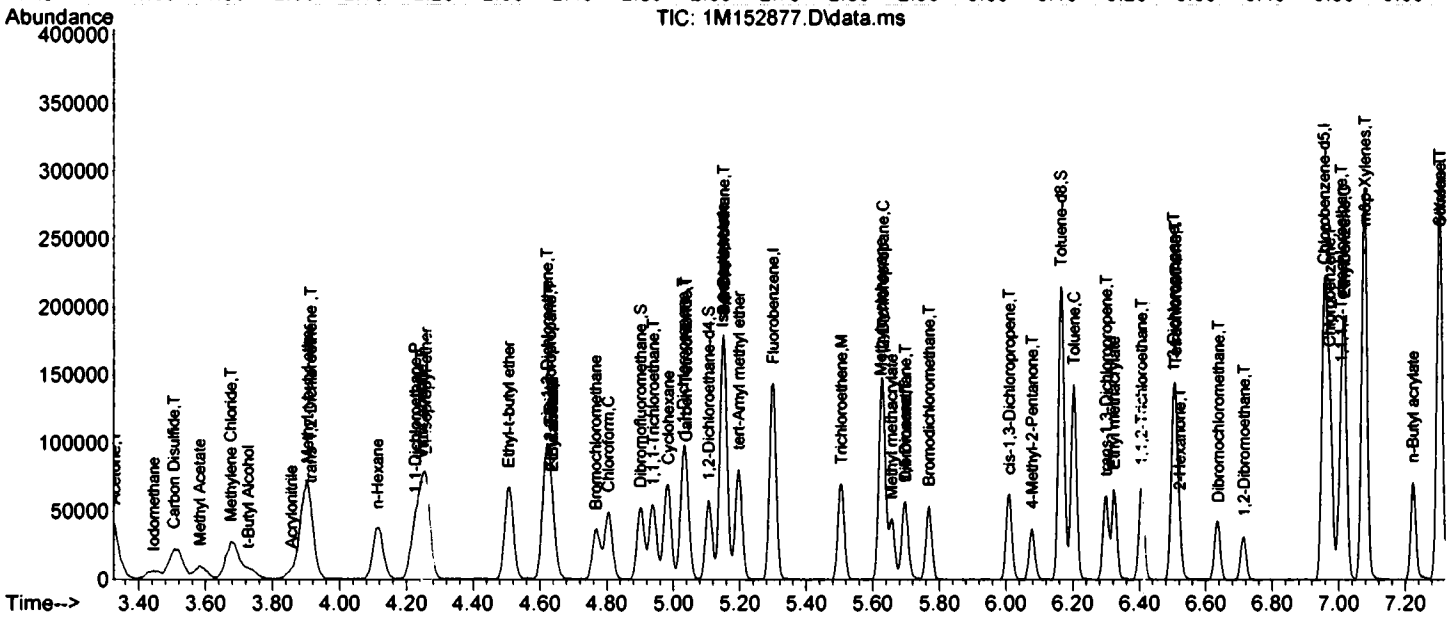
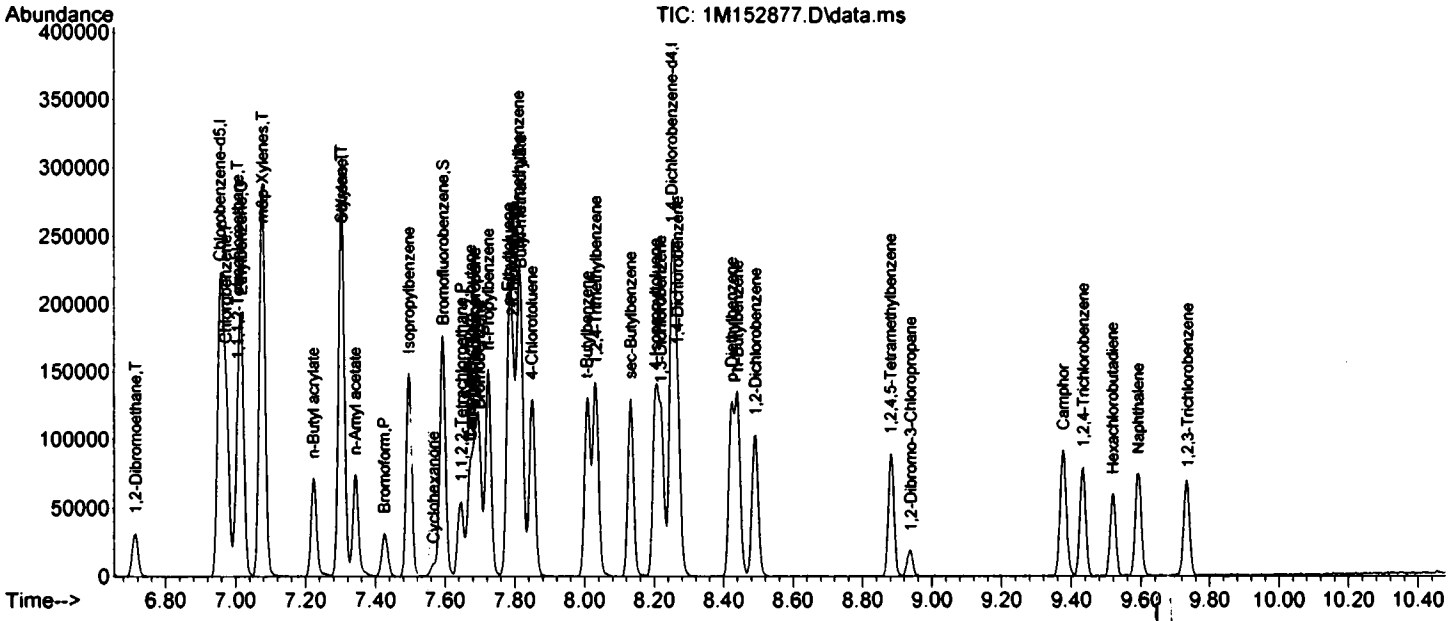
Quant Not Reviewed
SampleID : AD26083-008(MSD)
Data File: 1M152877.D
Acq On : 09/23/21 02:44
Operator : WP
Sam Mult : 1 Vial# : 20
Misc : A,5ML!1
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:04
Qt Upd On: 08/26/21 16:07
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Acrolein
1,1-Dichloroethene,C
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Time-->


Abundance
TIC: 1M152877.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
Time-->


Abundance
TIC: 1M152877.D\data.ms
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,P
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
p-Diethylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

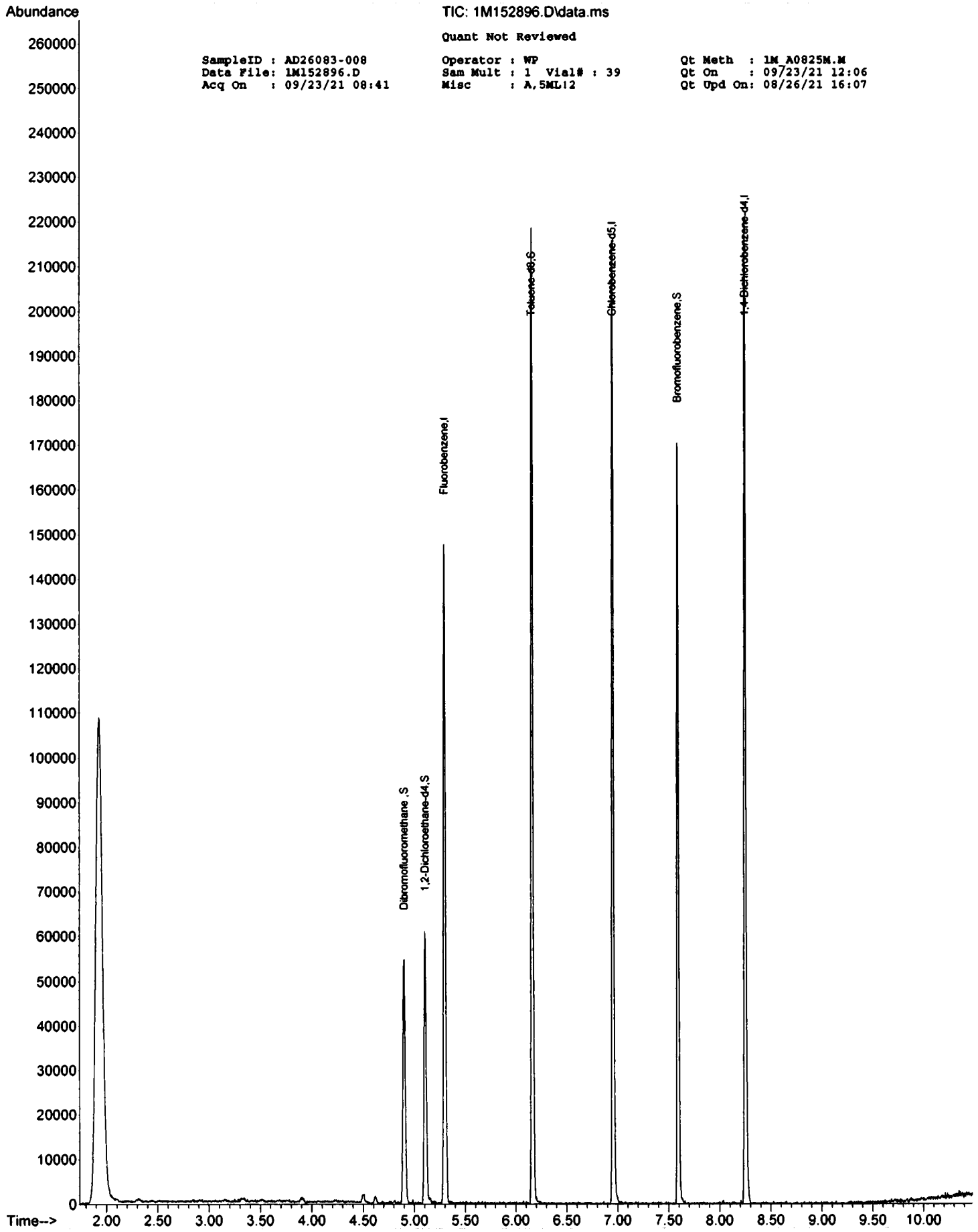
Quantitation Report (Not Reviewed)

SampleID : AD26083-008 Operator : WP Qt Meth : 1M_A0825M.M
Data File: 1M152896.D Sam Mult : 1 Vial# : 39 Qt On : 09/23/21 12:06
Acq On : 09/23/21 08:41 Misc : A,5ML!2 Qt Upd On: 08/26/21 16:07

Data Path : G:\GcMsData\2021\GCMS_1\Data\09-22-21\
Qt Path : G:\GcMsData\2021\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 4) Fluorobenzene | 5.300 | 96 | 87742 | 30.00 | ug/l | 0.00 |
| 52) Chlorobenzene-d5 | 6.955 | 117 | 76150 | 30.00 | ug/l | 0.00 |
| 70) 1,4-Dichlorobenzene-d4 | 8.254 | 152 | 39119 | 30.00 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 37) Dibromofluoromethane | 4.904 | 111 | 25555 | 33.32 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 111.07% | | | |
| 39) 1,2-Dichloroethane-d4 | 5.110 | 67 | 15265 | 36.61 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 122.03% | | | |
| 66) Toluene-d8 | 6.165 | 98 | 91574 | 28.25 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 94.17% | | | |
| 76) Bromofluorobenzene | 7.595 | 174 | 31456 | 31.01 | ug/l | 0.00 |
| Spiked Amount 30.000 | | | Recovery = 103.37% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 1M152896.D\data.ms
Quant Not Reviewed
SampleID : AD26083-008
Data File: 1M152896.D
Acq On : 09/23/21 08:41
Operator : WP
Sam Mult : 1 Vial# : 39
Misc : A,5ML!2
Qt Meth : 1M_A0825M.M
Qt On : 09/23/21 12:06
Qt Upd On: 08/26/21 16:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

# GC/MS Volatile Data
# Logbook Data

# RUN LOG

1-1-1M151942

Instrument: GCMS_1 Year: 2021
Analyst: WP

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 1M151942. | BFB TUNE | | V-347259,V-351304,V-355892 | WP 08/26/21 | | | | | | 08/25 18:09 |
| 1M151944. | CAL @ 0.5 PPB | | B-31485 | WP 08/26/21 | | Aqueous | 1 | 1 | 624\8260 | 08/25 18:42 |
| 1M151945. | CAL @ 1 PPB | | B-31485 | WP 08/26/21 | | Aqueous | 1 | 1 | 624\8260 | 08/25 19:01 |
| 1M151946. | CAL @ 5 PPB | | B-31485 | WP 08/26/21 | | Aqueous | 1 | 1 | 624\8260 | 08/25 19:20 |
| 1M151947. | CAL @ 10 PPB | | B-31485 | WP 08/26/21 | | Aqueous | 1 | 1 | 624\8260 | 08/25 19:38 |
| 1M151948. | CAL @ 20 PPB | | B-31485 | WP 08/26/21 | | Aqueous | 1 | 1 | 624\8260 | 08/25 19:57 |
| 1M151949. | CAL @ 50 PPB | | B-31485 | WP 08/26/21 | | Aqueous | 1 | 1 | 624\8260 | 08/25 20:16 |
| 1M151950. | CAL @500 PPB | | B-31485 | WP 08/26/21 | | Aqueous | 1 | 1 | 624\8260 | 08/25 20:35 |
| 1M151952. | CAL @ 250 PPB | | B-31485 | WP 08/26/21 | | Aqueous | 1 | 1 | 624\8260 | 08/25 21:12 |
| 1M151954. | CAL @ 100 PPB | | B-31485 | WP 08/26/21 | | Aqueous | 1 | 1 | 624\8260 | 08/25 21:50 |
| 1M151960. | STD | Bnf | | | | Aqueous | 1 | 1 | 624\8260 | 08/25 23:43 |
| 1M151961. | ICV | Bnf | V-356294 | WP 08/26/21 | | Aqueous | 1 | 1 | 624\8260 | 08/26 00:01 |
| 1M151964. | BLK | Bnf | | | | Aqueous | 1 | 1 | 624\8260 | 08/26 00:58 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fp | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| An | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| BBm | Blank 600 series missing | Ftn | Tckn/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for enh |
| BRm | Blank 8000 series missing | Fto | Tckn Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C1B | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvm | Eval Mix missing dtft or endrin |
| C1R | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R1B R2B | Rnd Out on MidMet (col1 and or col2) 600 series |
| C2B | Calibration Column 2 Out (600 Series) | I1B I2B | Initial cal 600 series failed Column 1 and or 2 | R1R R2R | Rnd Out on MidMet (col1 and or col2) 8000 series |
| C2R | Calibration Column 2 Out (8000 Series) | I1R I2R | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| CBf | 600 series sample/blank dtd not have passing cal | Is | Initial Cal Not Checked | Rto | Can't Calculate Drift |
| CRf | 8000 series sample/blank dtd not have passing cal | Iv | Prob with calmd csv for init calibration chek rls | SB | 600 series surrogate out |
| Cme | Ending Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | SR | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

1-1-2M156178

Instrument: GCMS_2 Year: 2021
Analyst: WP

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 2M156178. | BFB TUNE | | V-347259,V-351304,V-356581 | WP 09/01/21 | | | | | | 08/31 19:36 |
| 2M156181. | CAL @0.5 PPB | | B-31516 | WP 09/01/21 | | Aqueous | 1 | 1 | 624\8260 | 08/31 20:31 |
| 2M156182. | CAL @1 PPB | | B-31516 | WP 09/01/21 | | Aqueous | 1 | 1 | 624\8260 | 08/31 20:51 |
| 2M156183. | CAL @ 5 PPB | | B-31516 | WP 09/01/21 | | Aqueous | 1 | 1 | 624\8260 | 08/31 21:10 |
| 2M156184. | CAL @10 PPB | | B-31516 | WP 09/01/21 | | Aqueous | 1 | 1 | 624\8260 | 08/31 21:30 |
| 2M156185. | CAL @20 PPB | | B-31516 | WP 09/01/21 | | Aqueous | 1 | 1 | 624\8260 | 08/31 21:50 |
| 2M156186. | CAL @50 PPB | | B-31516 | WP 09/01/21 | | Aqueous | 1 | 1 | 624\8260 | 08/31 22:09 |
| 2M156187. | CAL @500 PPB | | B-31516 | WP 09/01/21 | | Aqueous | 1 | 1 | 624\8260 | 08/31 22:29 |
| 2M156189. | CAL @250 PPB | | B-31516 | WP 09/01/21 | | Aqueous | 1 | 1 | 624\8260 | 08/31 23:08 |
| 2M156191. | CAL @100 PPB | | B-31516 | WP 09/01/21 | | Aqueous | 1 | 1 | 624\8260 | 08/31 23:47 |
| 2M156192. | 250 PPB | IsBnf | | | | Aqueous | 1 | 1 | 624\8260 | 09/01 00:07 |
| 2M156196. | STD | IsBnf | | | | Aqueous | 1 | 1 | 624\8260 | 09/01 01:25 |
| 2M156197. | ICV | IsIvoBnf | | | | Aqueous | 1 | 1 | 624\8260 | 09/01 01:44 |
| 2M156198. | BLK | IsBnf | | | | Aqueous | 1 | 1 | 624\8260 | 09/01 02:04 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fp | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| An | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| BBm | Blank 600 series missing | Fin | Trap/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for anh |
| BBm | Blank 8000 series missing | Fin | Trap Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C1B | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvm | Eval Mix missing drift or endrin |
| C1B | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R1B R2B | Rnd Out on MsMet (col1 and or col2) 600 series |
| C2B | Calibration Column 2 Out (600 Series) | I1B I2B | Initial cal 600 series failed Column 1 and or 2 | R1B R2B | Rnd Out on MsMet (col1 and or col2) 8000 series |
| C2B | Calibration Column 2 Out (8000 Series) | I1B I2B | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| CAf | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rtn | Can't Calculate Drift |
| CAf | 8000 series sample/blank did not have passing cal | Iv | Pmth with calmd csv for ini calibration chek rfs | SA | 600 series surrogate out |
| Cme | Endrin Cal missing for sample (8000 series) | Iw | Initial cal warning. Ini cal file <> method | SA | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | SA5 SB5 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

1-1-1M152694

Instrument: GCMS_1 Year: 2021
Analyst: WP

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 1M152694. | BFB TUNE | | V-347259,V-351304,V-356581,V-357706 | WP 09/21/21 | | | | | | 09/20 17:59 |
| 1M152695. | BLK | CnS6S8B6mAnc | | | | Aqueous | 1 | 1 | 624\8260 | 09/20 18:14 |
| 1M152696. | CAL @ 20 PPB | C16 | OK,8260 ONLY | WP 09/21/21 | | Aqueous | 1 | 1 | 624\8260 | 09/20 18:32 |
| 1M152697. | BLK | C6fB6m | | | | Aqueous | 1 | 1 | 624\8260 | 09/20 18:51 |
| 1M152698. | BLK | C6fB6m | | | | Aqueous | 1 | 1 | 624\8260 | 09/20 19:10 |
| 1M152699. | BLK | C6fB6m | | | | Aqueous | 1 | 1 | 624\8260 | 09/20 19:29 |
| 1M152700. | DAILY BLANK | C6f | OK | WP 09/21/21 | | Aqueous | 1 | 1 | 624\8260 | 09/20 19:47 |
| 1M152701. | DAILY BLANK | | OK | WP 09/21/21 | | Methano | 1 | 1 | 8260D | 09/20 20:06 |
| 1M152702. | AD26083-003 | C6f | OK MBS96774 | WP 09/21/21 | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/20 20:25 |
| 1M152703. | AD25947-003(10X)( | S8Ocf | | | VOSPLP-826 | Aqueous | 1 | 10 | 8260D | 09/20 20:44 |
| 1M152704. | AD25947-002(10X)( | Ocf | | | VOSPLP-826 | Aqueous | 1 | 10 | 8260D | 09/20 21:03 |
| 1M152705. | 25889-018(T) | C6f | | | | Aqueous | 1 | 1 | 624\8260 | 09/20 21:21 |
| 1M152706. | AD25947-003(100X) | | | | VOSPLP-826 | Aqueous | 1 | 100 | 8260D | 09/20 21:40 |
| 1M152707. | AD25947-002(100X) | | | | VOSPLP-826 | Aqueous | 1 | 100 | 8260D | 09/20 21:59 |
| 1M152708. | AD25889-018(T) | C6f | QC ONLY MBS96770 | WP 09/21/21 | VO15-8260 | Aqueous | 1 | 1 | 624\8260 | 09/20 22:18 |
| 1M152709. | MBS96769 | | OK MBS96769 | WP 09/21/21 | | Methano | 1 | 1 | 8260D | 09/20 22:36 |
| 1M152710. | MBS96770 | C6f | OK MBS96770 | WP 09/21/21 | | Aqueous | 1 | 1 | 624\8260 | 09/20 22:55 |
| 1M152711. | AD26025-002 | | MBS96769 | | VO-8260 | Methano | 1 | 1 | 8260D | 09/20 23:14 |
| 1M152712. | AD25991-001(80uL) | | OK | WP 09/21/21 | VO-8260 | Methano | 1 | 10 | 8260D | 09/20 23:33 |
| 1M152713. | AD26025-002(MS) | | OK MBS96769 | WP 09/21/21 | VO-8260 | Methano | 1 | 1 | 8260D | 09/20 23:51 |
| 1M152714. | AD26025-002(MSD) | | OK MBS96769 | WP 09/21/21 | VO-8260 | Methano | 1 | 1 | 8260D | 09/21 00:10 |
| 1M152715. | BLK | C6f | | | | Aqueous | 1 | 1 | 624\8260 | 09/21 00:29 |
| 1M152716. | AD26002-001 | | OK | WP 09/21/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/21 00:47 |
| 1M152717. | AD26073-001 | | | | VO-8260 | Methano | 1 | 1 | 8260D | 09/21 01:06 |
| 1M152718. | AD26030-001 | | OK | WP 09/21/21 | VO-8260 | Methano | 1 | 1 | 8260D | 09/21 01:25 |
| 1M152719. | AD25889-018(T:MS | C6fM16M18 | OK MBS96770 | WP 09/21/21 | VO15-8260 | Aqueous | 1 | 1 | 624\8260 | 09/21 01:43 |
| 1M152720. | AD25889-018(T:MS | C6fR16R18M16M18 | OK MBS96770 | WP 09/21/21 | VO15-8260 | Aqueous | 1 | 1 | 624\8260 | 09/21 02:02 |
| 1M152721. | BLK | C6f | | | | Aqueous | 1 | 1 | 624\8260 | 09/21 02:21 |
| 1M152722. | BLK | C6f | | | | Aqueous | 1 | 1 | 624\8260 | 09/21 02:39 |
| 1M152723. | AD26024-002 | | OK | WP 09/21/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/21 02:58 |
| 1M152724. | AD26024-004(50X) | | OK | WP 09/21/21 | VO-8260 | Aqueous | 1 | 50 | 8260D | 09/21 03:17 |
| 1M152725. | AD26024-007(5X) | | OK | WP 09/21/21 | VO-8260 | Aqueous | 1 | 5 | 8260D | 09/21 03:36 |
| 1M152726. | BLK | C6f | | | | Aqueous | 1 | 1 | 624\8260 | 09/21 03:54 |
| 1M152727. | AD26048-002(5X) | | OK | WP 09/21/21 | VO-PAGAS82 | Aqueous | 1 | 5 | 8260D | 09/21 04:13 |
| 1M152728. | AD26048-001(20X) | | OK | WP 09/21/21 | VO-PAGAS82 | Aqueous | 1 | 20 | 8260D | 09/21 04:32 |
| 1M152729. | AD26048-007(20X) | | OK | WP 09/21/21 | VO-PAGAS82 | Aqueous | 1 | 20 | 8260D | 09/21 04:50 |
| 1M152730. | BLK | C6f | | | | Aqueous | 1 | 1 | 624\8260 | 09/21 05:09 |
| 1M152731. | AD26024-006 | | OK | WP 09/21/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/21 05:28 |
| 1M152732. | AD26024-005 | | OK | WP 09/21/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/21 05:47 |
| 1M152733. | BLK | C6fTi6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/21 06:05 |
| 1M152734. | BLK | C6fTi6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/21 06:24 |
| 1M152735. | BLK | C6fTi6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/21 06:43 |
| 1M152736. | BLK | C6fTi6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/21 07:02 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| Bm | Blank 600 series missing | Ftn | Tcln/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for enh |
| Bm | Blank 8000 series missing | Fto | Tcln Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C1 | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvm | Eval Mix mission drft or endrin |
| C1 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rnd Out on MsMed (col1 and or col2) 600 series |
| C2 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rnd Out on MsMed (col1 and or col2) 8000 series |
| C2 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| Cf | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rtn | Can't Calculate Drift |
| Cf | 8000 series sample/blank did not have passing cal | Iv | Rmb with calmd cav for init calibration chek rfs | SA | 600 series surrogate out |
| Cme | Ending Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | SA | 8000 series surrogate out |
| Co | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samp | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GCMS_1 Year: 2021
Analyst: WP

1-1-1M152821

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 1M152821. | BFB TUNE | | V-347259,V-351304,V-356581,V-357807 | WP 09/22/21 | | | | | | 09/22 09:33 |
| 1M152822. | 20 PPB | CnAnc | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 09:51 |
| 1M152823. | 20 PPB | CnAnc | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 10:10 |
| 1M152824. | CAL @ 20 PPB | | OK | WP 09/22/21 | | Aqueous | 1 | 1 | 624\8260 | 09/22 10:29 |
| 1M152825. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 10:48 |
| 1M152826. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 11:06 |
| 1M152827. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 11:25 |
| 1M152828. | DAILY BLANK | | OK | WP 09/22/21 | | Aqueous | 1 | 1 | 624\8260 | 09/22 11:44 |
| 1M152829. | AD26083-012 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 12:03 |
| 1M152830. | AD26083-014 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 12:22 |
| 1M152831. | AD26083-016 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 12:41 |
| 1M152832. | AD26083-018 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 13:00 |
| 1M152833. | AD26083-019 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 13:18 |
| 1M152834. | AD26083-021 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 13:37 |
| 1M152835. | AD26083-023 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 13:56 |
| 1M152836. | AD26083-026 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 14:15 |
| 1M152837. | AD26083-028 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 14:34 |
| 1M152838. | AD26083-030 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 14:53 |
| 1M152839. | STD | | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 15:11 |
| 1M152840. | STD | | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 15:30 |
| 1M152841. | MBS96783 | | OK MBS96783 | WP 09/22/21 | | Aqueous | 1 | 1 | 624\8260 | 09/22 15:49 |
| 1M152842. | MBS96784 | M18 | OK MBS96784 | WP 09/22/21 | | Aqueous | 1 | 1 | 624\8260 | 09/22 16:07 |
| 1M152843. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 16:26 |
| 1M152844. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 16:45 |
| 1M152845. | AD26046-001 | | OK | WP 09/22/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/22 17:04 |
| 1M152846. | AD26046-002 | | OK | WP 09/22/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/22 17:23 |
| 1M152847. | AD26162-002 | | RR-1X,possible co | WP 09/22/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/22 17:42 |
| 1M152848. | AD26162-003 | | RR-1X,possible co | WP 09/22/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/22 18:01 |
| 1M152849. | AD26162-002 | | | | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/22 18:19 |
| 1M152850. | AD26162-001 | | | | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/22 18:38 |
| 1M152851. | AD26046-006 | | OK | WP 09/22/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/22 18:57 |
| 1M152852. | AD26046-007 | | OK | WP 09/22/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/22 19:16 |
| 1M152853. | AD26083-027 | | RR-1X,possible co | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 19:35 |
| 1M152854. | AD26083-040 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/22 19:54 |
| 1M152855. | AD26083-042(MS:AM16M18 | | OK MBS96784 | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/22 20:12 |
| 1M152856. | AD26083-044(MSD:R16R18M16M18 | | OK MBS96784 | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/22 20:31 |
| 1M152857. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 20:50 |
| 1M152858. | AD26047-004 | | | | VO-PAGAS82 | Aqueous | 1 | 1 | 8260D | 09/22 21:09 |
| 1M152859. | AD25975-002 | | OK | WP 09/22/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/22 21:27 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 ... not checked |
| BBm | Blank 600 series missing | Fln | Tclp/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for snh |
| BBm | Blank 8000 series missing | Flo | Tclp Extraction Performed Outside of Hold | EvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Evnc | Eval Mix Not Checked |
| C1B | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Evm | Eval Mix missing drll or endrin |
| C1R | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R1B R2B | Rnd Out on MsMsd (col1 and or col2) 600 series |
| C2B | Calibration Column 2 Out (600 Series) | I1B I2B | Initial cal 600 series failed Column 1 and or 2 | R1R R2R | Rnd Out on MsMsd (col1 and or col2) 8000 series |
| C2R | Calibration Column 2 Out (8000 Series) | I1R I2R | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| CBf | 600 series sample/blank dirl not have passing cal | Is | Initial Cal Not Checked | Rto | Can't Calculate Drift |
| CRf | 8000 series sample/blank dirl not have passing cal | Iv | Pmb with calmd csv for ini calibration chek rls | S6 | 600 series surrogate out |
| Cme | Endrin Cal missing for sample (8000 series) | Iw | Initial cal warning. Ini cal file <> method | S8 | 8000 series surrogate out |
| Co | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samnl | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GCMS_2 Year: 2021
Analyst: WP

1-1-2M157113

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 2M157113. | BFB TUNE | | V-347259,V-351304,V-356581,V-357807 | WP 09/22/21 | | | | | | 09/22 12:56 |
| 2M157114. | CAL @ 20 PPB | C16 | OK,8260 ONLY | WP 09/22/21 | | Aqueous | 1 | 1 | 624\8260 | 09/22 13:16 |
| 2M157115. | 20 PPB | C6fB6m | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 13:35 |
| 2M157116. | BLK | C6fB6m | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 13:54 |
| 2M157117. | BLK | C6fB6m | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 14:14 |
| 2M157118. | DAILY BLANK | C6f | OK | WP 09/22/21 | | Aqueous | 1 | 1 | 624\8260 | 09/22 14:34 |
| 2M157119. | AD26083-032 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 14:53 |
| 2M157120. | AD26083-035 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 15:13 |
| 2M157121. | AD26083-036 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 15:33 |
| 2M157122. | AD26083-038 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 15:52 |
| 2M157123. | AD26083-046 | | OK | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/22 16:12 |
| 2M157124. | AD26083-048 | C6f | OK MBS96787 | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/22 16:32 |
| 2M157125. | AD26083-049(MS:A | C6fM16M18 | OK MBS96787 | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/22 16:51 |
| 2M157126. | AD26083-050(MSD: | C6fM16M18 | OK MBS96787 | WP 09/22/21 | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/22 17:10 |
| 2M157127. | MBS96787 | C6fM18 | OK MBS96787 | WP 09/22/21 | | Aqueous | 1 | 1 | 624\8260 | 09/22 17:30 |
| 2M157128. | MBS96788 | C6f | OK MBS96788 | WP 09/22/21 | | Aqueous | 1 | 1 | 624\8260 | 09/22 17:49 |
| 2M157129. | BLK | C6f | | | | Aqueous | 1 | 1 | 824\8260 | 09/22 18:09 |
| 2M157130. | BLK | C6f | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 18:28 |
| 2M157131. | AD25995-001(50X)( | C6f | OK MBS96788 | WP 09/22/21 | VOTCLP-826 | Aqueous | 1 | 50 | 624\8260 | 09/22 18:48 |
| 2M157132. | AD25995-003(50X)( | | OK | WP 09/22/21 | VOTCLP-826 | Aqueous | 1 | 50 | 8260D | 09/22 19:09 |
| 2M157133. | AD25995-005(50X)( | | OK | WP 09/22/21 | VOTCLP-826 | Aqueous | 1 | 50 | 8260D | 09/22 19:29 |
| 2M157134. | AD26030-001(50X)( | | OK | WP 09/22/21 | VOTCLP-826 | Aqueous | 1 | 50 | 8260D | 09/22 19:49 |
| 2M157135. | AD26063-001(T) | | OK | WP 09/22/21 | VOTCLP-826 | Aqueous | 1 | 1 | 8260D | 09/22 20:08 |
| 2M157136. | AD25995-001(50X)( | C6f | OK MBS96788 | WP 09/23/21 | VOTCLP-826 | Aqueous | 1 | 50 | 624\8260 | 09/22 20:28 |
| 2M157137. | AD25995-001(50X)( | C6f | OK MBS96788 | WP 09/23/21 | VOTCLP-826 | Aqueous | 1 | 50 | 624\8260 | 09/22 20:48 |
| 2M157138. | AD26009-002(50X)( | | OK | WP 09/23/21 | VOTCLP-826 | Aqueous | 1 | 50 | 8260D | 09/22 21:08 |
| 2M157139. | AD26010-002(50X)( | | OK | WP 09/23/21 | VOTCLP-826 | Aqueous | 1 | 50 | 8260D | 09/22 21:28 |
| 2M157140. | AD26052-001(50X)( | | OK | WP 09/23/21 | VOTCLP-826 | Aqueous | 1 | 50 | 8260D | 09/22 21:48 |
| 2M157141. | AD26073-001(50X)( | | OK | WP 09/23/21 | VOTCLP-826 | Aqueous | 1 | 50 | 8260D | 09/22 22:08 |
| 2M157142. | AD26088-001(50X)( | | OK | WP 09/23/21 | VOTCLP-826 | Aqueous | 1 | 50 | 8260D | 09/22 22:28 |
| 2M157143. | AD26088-003(50X)( | | OK | WP 09/23/21 | VOTCLP-826 | Aqueous | 1 | 50 | 8260D | 09/22 22:48 |
| 2M157144. | AD26089-001(50X)( | | OK | WP 09/23/21 | VOTCLP-826 | Aqueous | 1 | 50 | 8260D | 09/22 23:08 |
| 2M157145. | 26151-001 | C6f | | | | Aqueous | 1 | 1 | 624\8260 | 09/22 23:28 |
| 2M157146. | EF-1-V-357518(092 | | OK | WP 09/23/21 | | Aqueous | 1 | 92121 | 8260D | 09/22 23:48 |
| 2M157147. | AD26111-001(100X) | | RR-10X | WP 09/23/21 | VO15-8260 | Aqueous | 1 | 100 | 8260D | 09/23 00:08 |
| 2M157148. | AD26111-001(10X) | | OK | WP 09/23/21 | VO15-8260 | Aqueous | 1 | 10 | 8260D | 09/23 00:27 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| An | Area Out | Fsm | Solvent Extraction Data Missing/Not check'd | CRN | Warning cx0/c20 not checked |
| R4m | Rlank 600 series missing | Fln | Tclp/Solvent Extraction Data Missing/Not check'd | Cm | C30/C20 failed for enh |
| R8m | Rlank 8000 series missing | Flo | Tclp Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Rnf | Rlank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C1A | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvm | Eval Mix missing drll or endrin |
| C1R | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R1R R2R | Rnd Out on Mi&Rnd (col1 and or col2) 600 series |
| C2A | Calibration Column 2 Out (600 Series) | I1R I2R | Initial cal 600 series failed Column 1 and or 2 | R1R R2R | Rnd Out on Mi&Rnd (col1 and or col2) 8000 series |
| C2R | Calibration Column 2 Out (8000 Series) | I1R I2R | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C6f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rln | Can't Calculate Drift |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Prob with calmd csv for init calibration chek rfs | S6 | 600 series surrogate out |
| Cme | Endrin Cal missing for sample (8000 series) | Iw | Initial cal warning Init cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a sampl | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

1-1-1M152868

Instrument: GCMS_1 Year: 2021
Analyst: WP

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 1M152868. | BFB TUNE | | V-347259,V-351304,V-357724 | WP 09/23/21 | | | | | | 09/22 23:59 |
| 1M152870. | CAL @ 20 PPB | | OK | WP 09/23/21 | | Aqueous | 1 | 1 | 624\8260 | 09/23 00:33 |
| 1M152871. | 20 PPB | | | | | Aqueous | 1 | 1 | 624\8260 | 09/23 00:52 |
| 1M152872. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/23 01:11 |
| 1M152873. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/23 01:29 |
| 1M152874. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/23 01:48 |
| 1M152875. | DAILY BLANK | | OK | WP 09/23/21 | | Aqueous | 1 | 1 | 624\8260 | 09/23 02:07 |
| 1M152876. | AD26083-008(MS) | M16M18 | OK MBS96792 | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/23 02:26 |
| 1M152877. | AD26083-008(MSD) | R16R18M16M18 | OK MBS96792 | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/23 02:44 |
| 1M152878. | MBS96791 | | MBS96791 | | | Aqueous | 1 | 1 | 624\8260 | 09/23 03:03 |
| 1M152879. | MBS96792 | M16M18 | OK MBS96792 | WP 09/23/21 | | Aqueous | 1 | 1 | 624\8260 | 09/23 03:21 |
| 1M152880. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/23 03:40 |
| 1M152881. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/23 03:59 |
| 1M152882. | AD26083-033 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/23 04:18 |
| 1M152883. | AD26083-034 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/23 04:37 |
| 1M152884. | AD26083-051 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/23 04:56 |
| 1M152885. | AD26083-010 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/23 05:14 |
| 1M152886. | AD26083-005 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/23 05:33 |
| 1M152887. | AD26083-025 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/23 05:52 |
| 1M152888. | AD26051-012 | | OK | WP 09/23/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/23 06:11 |
| 1M152889. | AD26051-013 | | OK | WP 09/23/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/23 06:29 |
| 1M152890. | AD26051-014 | | OK | WP 09/23/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/23 06:48 |
| 1M152891. | AD26083-027 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/23 07:07 |
| 1M152892. | AD26083-040 | | OK MBS96784 | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/23 07:26 |
| 1M152893. | AD26083-001 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/23 07:45 |
| 1M152894. | AD26083-002 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/23 08:04 |
| 1M152895. | AD26083-006 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/23 08:23 |
| 1M152896. | AD26083-008 | | OK MBS96792 | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/23 08:41 |
| 1M152897. | AD26083-009 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 6260D | 09/23 09:00 |
| 1M152898. | AD26083-011 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/23 09:19 |
| 1M152899. | AD26046-003 | | OK | WP 09/23/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/23 09:38 |
| 1M152900. | AD26046-004 | | OK | WP 09/23/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/23 09:57 |
| 1M152901. | AD26046-005 | | OK | WP 09/23/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/23 10:15 |
| 1M152902. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/23 10:34 |
| 1M152903. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/23 10:53 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| BBm | Blank 600 series missing | Fto | Tclv/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for enh |
| BBm | Blank 8000 series missing | Fto | Tclv Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvrc | Eval Mix missing drlt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rpd Out on MsMsd (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rpd Out on MsMsd (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Drift Out |
| C6f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rtn | Can't Calculate Drift |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Pmb with calmd csv for init calibration chek rls | S6 | 600 series surrogate out |
| Cme | Endrin Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Iy | Initial Cal Files Not Updated Properly for a samp | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

1-1-2M157193

Instrument: GCMS_2 Year: 2021
Analyst: WP

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 2M157193. | BFB TUNE | | V-347259,V-351304,V-357724,V-358041 | WP 09/24/21 | | | | | | 09/23 14:51 |
| 2M157195. | CAL @ 20 PPB | | OK | WP 09/23/21 | | Aqueous | 1 | 1 | 624\8260 | 09/23 15:25 |
| 2M157196. | 20 PPB | | | | | Aqueous | 1 | 1 | 624\8260 | 09/23 15:45 |
| 2M157198. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/23 16:24 |
| 2M157199. | DAILY BLANK | | OK | WP 09/23/21 | | Aqueous | 1 | 1 | 624\8260 | 09/23 16:43 |
| 2M157200. | DAILY BLANK | | OK | WP 09/23/21 | | Methano | 1 | 1 | 8260D | 09/23 17:03 |
| 2M157202. | AD26047-005(5X) | | | | VO-PAGAS82 | Aqueous | 1 | 5 | 8260D | 09/23 17:42 |
| 2M157203. | MBS96794 | | OK MBS96794 | WP 09/23/21 | | Methano | 1 | 1 | 8260D | 09/23 18:02 |
| 2M157204. | MBS96795 | M18 | OK MBS96795 | WP 09/23/21 | | Aqueous | 1 | 1 | 624\8260 | 09/23 18:21 |
| 2M157205. | AD26002-005 | | | | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/23 18:41 |
| 2M157206. | AD26083-010 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/23 19:00 |
| 2M157207. | AD26151-001 | | OK | WP 09/23/21 | VO-624.1 | Aqueous | 1 | 1 | 624 | 09/23 19:20 |
| 2M157208. | AD26152-001 | | OK | WP 09/23/21 | VO-624.1 | Aqueous | 1 | 1 | 624 | 09/23 19:39 |
| 2M157209. | AD26170-001(5X) | | OK | WP 09/23/21 | VO15-624.1 | Aqueous | 1 | 5 | 624 | 09/23 19:59 |
| 2M157210. | AD26002-005(MS) | | OK MBS96795 | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/23 20:19 |
| 2M157211. | AD26120-001 | | OK | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 8260D | 09/23 20:38 |
| 2M157212. | AD26002-005(MSD) | | OK MBS96795 | WP 09/23/21 | VO-8260 | Aqueous | 1 | 1 | 624\8260 | 09/23 20:58 |
| 2M157213. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/23 21:18 |
| 2M157214. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/23 21:37 |
| 2M157215. | AD26005-005 | | OK | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/23 21:57 |
| 2M157216. | AD26078-001 | | OK | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/23 22:16 |
| 2M157217. | AD26051-005 | | OK | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/23 22:36 |
| 2M157218. | AD26100-007 | | OK | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/23 22:55 |
| 2M157219. | AD26051-010 | | OK | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/23 23:15 |
| 2M157220. | AD26100-006(10X) | | OK | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 10 | 8260D | 09/23 23:34 |
| 2M157221. | AD26051-011(5X) | | OK | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 5 | 8260D | 09/23 23:54 |
| 2M157222. | AD26051-009 | | OK | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/24 00:14 |
| 2M157223. | AD26051-006 | | OK | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/24 00:33 |
| 2M157224. | BLK | | | | | Aqueous | 1 | 1 | 624\8260 | 09/24 00:53 |
| 2M157225. | AD26121-001 | | RR-1X,possible co | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/24 01:12 |
| 2M157226. | AD26121-002 | | OK | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/24 01:32 |
| 2M157227. | AD26121-003 | | RR-1X,possible co | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/24 01:52 |
| 2M157228. | AD26121-004 | | OK | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/24 02:11 |
| 2M157229. | AD26121-005 | | OK | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/24 02:31 |
| 2M157230. | AD26121-006 | | OK | WP 09/24/21 | VO15-8260 | Aqueous | 1 | 1 | 8260D | 09/24 02:50 |
| 2M157231. | STD | Ti6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/24 03:10 |
| 2M157232. | BLK | Ti6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/24 03:29 |
| 2M157233. | BLK | Ti6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/24 03:49 |
| 2M157234. | BLK | Ti6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/24 04:09 |
| 2M157235. | BLK | Ti6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/24 04:28 |
| 2M157236. | BLK | Ti6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/24 04:48 |
| 2M157237. | BLK | Ti6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/24 05:07 |
| 2M157238. | BLK | Ti6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/24 05:27 |
| 2M157239. | STD | Ti6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/24 05:46 |
| 2M157240. | STD | Ti6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/24 06:05 |
| 2M157241. | BLK | Ti6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/24 06:25 |
| 2M157242. | BLK | Ti6Ti8 | | | | Aqueous | 1 | 1 | 624\8260 | 09/24 06:45 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Ec | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| An | Area Out | Esm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| BRm | Blank 600 series missing | Etn | Tetn/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for enh |
| BRm | Blank 8000 series missing | Eto | Tetn Extraction Performed Outside of Hold | EvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Ev | Eval Time Exceeded | Evnc | Eval Mix Not Checked |
| C1R | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Evrc | Eval Mix missing drlt or endrin |
| C1R | Calibration Column 1 Out (8000 Series) | Hn | Sample Analyzed outside of hold time | R1R R2R | Rnd Out on Molded (col1 and or col2) 600 series |
| C2R | Calibration Column 2 Out (600 Series) | I1R I2R | Initial cal 600 series failed Column 1 and or 2 | R1R R2R | Rnd Out on Molded (col1 and or col2) 8000 series |
| C2R | Calibration Column 2 Out (8000 Series) | I1R I2R | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| CRf | 600 series sample/blank did not have passing cal | Ic | Initial Cal Not Checked | Rtn | Can't Calculate Drift |
| CRf | 8000 series sample/blank did not have passing cal | Iv | Prob with calmd csv for init calibration chek rls | SR | 600 series surrogate out |
| Cme | Extrion Cal missing for sample (8000 series) | Iw | Initial cal warning (ini cal file <> method | SR | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-327582

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: akmal
Description: Ethyl ether/Furan Mix | BatchNumber: | ApproveDate: 05/18/20
Prep Date: 5/13/2020 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 5/13/2021 | Final Volume: 10 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13193 | Ethyl ether | 50 mg | Neat | 5000 ppm |
| 11587 | Furan | 50 mg | NEAT neat | 5000 ppm |
| 13224 | methyl alcohol | 10 ml | neat neat | |

## Veritech Lot Number: V-340303

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: jean
Description: VOA ADD MIX | BatchNumber: | ApproveDate: 12/20/20
Prep Date: 12/18/2020 | Concentration: 5000/25000 p | Checked: Yes
Expiration Date: 12/18/2021 | Final Volume: 10 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 2889 | 1,2,4,5-TETRAMETHYLBENZENE | 50 mg | NEAT | 5000 ppm |
| 12762 | p-Diethylbenzene | 50 mg | NEAT | 5000 ppm |
| 13605 | methyl alcohol | | neat neat | |
| 12764 | Cyclohexanone | 250 mg | NEAT | 25000 ppm |
| 12815 | p-Ethyltoluene | 50 mg | NEAT | 5000 ppm |

## Veritech Lot Number: V-340304

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: jean
Description: VOA ADD MIX(2nd Source) | BatchNumber: | ApproveDate: 12/20/20
Prep Date: 12/18/2020 | Concentration: 5000/25000 p | Checked: Yes
Expiration Date: 12/18/2021 | Final Volume: 10 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 2889 | 1,2,4,5-TETRAMETHYLBENZENE | 50 mg | NEAT | 5000 ppm |
| 13605 | methyl alcohol | | neat neat | |
| 12762 | p-Diethylbenzene | 50 mg | NEAT | 5000 ppm |
| 12764 | Cyclohexanone | 250 mg | NEAT | 25000 ppm |
| 12815 | p-Ethyltoluene | 50 mg | NEAT | 5000 ppm |

## Veritech Lot Number: V-340305

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: jean
Description: Voa Extra Add Mix | BatchNumber: | ApproveDate: 12/20/20
Prep Date: 12/18/2020 | Concentration: 2000-20000 p | Checked: Yes
Expiration Date: 12/18/2021 | Final Volume: 10 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 11935 | Ethyl acetate | 20 mg | Neat | 2000 ppm |
| 12763 | Isopropyl acetate | 20 mg | NEAT | 2000 ppm |
| 13605 | methyl alcohol | 10 ml | neat neat | |
| 13195 | Methyl methacrylate | 20 mg | Neat | 2000 ppm |
| 13194 | n-Butyl acrylate | 20 mg | Neat | 2000 ppm |
| 13192 | n-Amyl acetate | 20 mg | NEAT | 2000 ppm |
| 13191 | d-Camphor | 200 mg | Neat | 20000 ppm |
| 12766 | Ethyl methacrylate | 20 mg | NEAT | 2000 ppm |
| 12761 | Camphene | 20 mg | NEAT | 2000 ppm |
| 11932 | Butyl methacrylate | 20 mg | Neat | 2000 ppm |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-340306

Prepared By: Revolus, Jean
Description: Voa Extra Add Mix(2nd Source)
Prep Date: 12/18/2020
Expiration Date: 12/18/2021
Department: Organics
BatchNumber:
Concentration: 2000-20000 p
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 12/20/20
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 11935 | Ethyl acetate | 20 mg | Neat | 2000 ppm |
| 12763 | Isopropyl acetate | 20 mg | NEAT | 2000 ppm |
| 13194 | n-Butyl acrylate | 20 mg | Neat | 2000 ppm |
| 13605 | methyl alcohol | 10 ml | neat neat | |
| 13191 | d-Camphor | 200 mg | Neat | 20000 ppm |
| 13195 | Methyl methacrylate | 20 mg | Neat | 2000 ppm |
| 13192 | n-Amyl acetate | 20 mg | NEAT | 2000 ppm |
| 12766 | Ethyl methacrylate | 20 mg | NEAT | 2000 ppm |
| 12761 | Camphene | 20 mg | NEAT | 2000 ppm |
| 11932 | Butyl methacrylate | 20 mg | Neat | 2000 ppm |

## Veritech Lot Number: V-341141

Prepared By: Previlon, Wilner
Description: VOA WORKING INT/SURR MIX
Prep Date: 1/4/2021
Expiration Date: 1/4/2022
Department: Organics
BatchNumber:
Concentration: 150 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 01/07/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13605 | methyl alcohol | 88 ml | neat neat | |
| 12770 | 8260A Internal Standard Mix | 6 ml | 2500 ppm | 150 ppm |
| 12771 | 8260A Surrogate Mix | 6 ml | 2500 ppm | 150 ppm |

## Veritech Lot Number: V-347259

Prepared By: Longton, Rhys
Description: BFB Tune Mix
Prep Date: 4/5/2021
Expiration Date: 1/4/2022
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 04/09/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-341141 | VOA WORKING INT/SURR MIX | 500 ul | 150 ppm | 50 ppm |
| 13734 | methyl alcohol | 1000 ul | neat neat | |

## Veritech Lot Number: V-350185

Prepared By: Revolus, Jean
Description: 200ppm VOA Working Std
Prep Date: 5/19/2021
Expiration Date: 11/19/2021
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/21/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13905 | methyl alcohol | 220 ul | neat neat | neat |
| 13697 | 502.2 Calibration Mix #1(Gases) | 100 ul | 2000 ppm | 200 ppm |
| 13185 | 502.2 Cal2000 Mega Mix | 100 ul | 2000 ppm | 200 ppm |
| 12907 | EPA 8260 CAL. MIX 2 | 100 ul | 2000 ppm | 200 ppm |
| 13726 | Custom VOC Standard | 100 ul | VARIOUS | various ppm |
| 13468 | tert-Amyl Methyl Ether Standard | 100 ul | 2000 ppm | 200 ppm |
| V-340303 | VOA ADD MIX | 40 ul | 5000/25000 p | various ppm |
| V-340305 | Voa Extra Add Mix | 100 ul | 2000-20000 p | 200 ppm |
| V-327582 | Ethyl ether/Furan Mix | 40 ul | 5000 ppm | 200 ppm |
| 13696 | Ethyl-tert-Butyl Ether(ETBE) standard | 100 ul | 2000 ppm | 200 ppm |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-350187

Prepared By: Revolus, Jean
Description: 20ppm VOA Working Std
Prep Date: 5/19/2021
Expiration Date: 11/19/2021
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/21/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13905 | methyl alcohol | 900 ul | neat neat | neat |
| V-350185 | 200ppm VOA Working Std | 100 ul | VARIOUS pp | 200 ppm |

## Veritech Lot Number: V-350188

Prepared By: Revolus, Jean
Description: 20ppm Freon VOA Working Std
Prep Date: 5/19/2021
Expiration Date: 11/13/2021
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/21/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13905 | methyl alcohol | 900 ul | neat neat | neat |
| 13919 | Chlorodifluoromethane(Freon#22) | 100 ul | 200 ppm | 200 ppm |

## Veritech Lot Number: V-351304

Prepared By: Previlon, Wilner
Description: VOA WORKING INT/SURR MIX
Prep Date: 6/7/2021
Expiration Date: 6/7/2022
Department: Organics
BatchNumber:
Concentration: 150 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/08/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13605 | methyl alcohol | 88 ml | neat neat | |
| 13053 | 8260A Surrogate Mix | 6 ml | 2500 ppm | 150 ppm |
| 13052 | Internal Standard Mix | 6 ml | 2500 ppm | 150 ppm |

## Veritech Lot Number: V-351460

Prepared By: Revolus, Jean
Description: Ethyl ether/Furan Mix
Prep Date: 6/9/2021
Expiration Date: 6/9/2022
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 06/09/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13905 | methyl alcohol | 10 ml | neat neat | |
| 13987 | Ethyl Ether | 50 mg | NEAT | 5000 ppm |
| 11587 | Furan | 50 mg | NEAT neat | 5000 ppm |

## Veritech Lot Number: V-351461

Prepared By: Revolus, Jean
Description: Ethyl ether/Furan Mix(2nd Source)
Prep Date: 6/9/2021
Expiration Date: 6/9/2022
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 06/09/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13987 | Ethyl Ether | 50 mg | NEAT | 5000 ppm |
| 11587 | Furan | 50 mg | NEAT neat | 5000 ppm |
| 13905 | methyl alcohol | 10 ml | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-355891

Prepared By: Previlon, Wilner
Description: 200ppm VOA Working Std
Prep Date: 8/18/2021
Expiration Date: 12/2/2021
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 08/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13905 | methyl alcohol | 220 ul | neat neat | neat |
| 13697 | 502.2 Calibration Mix #1(Gases) | 100 ul | 2000 ppm | 200 ppm |
| 14001 | Epa 502/524 Volatile Organic Cal Mix | 100 ul | 2000 ppm | 200 ppm |
| 12907 | EPA 8260 CAL. MIX 2 | 100 ul | 2000 ppm | 200 ppm |
| 13990 | Custom VOC Standard | 100 ul | VARIOUS | various ppm |
| 13961 | tert-Amyl Methyl Ether Std.(TAME) | 100 ul | 2000 ppm | 200 ppm |
| V-340303 | VOA ADD MIX | 40 ul | 5000/25000 p | various ppm |
| V-340305 | Voa Extra Add Mix | 100 ul | 2000-20000 p | 200 ppm |
| V-351460 | Ethyl ether/Furan Mix | 40 ul | 5000 ppm | 200 ppm |
| 13696 | Ethyl-tert-Butyl Ether(ETBE) standard | 100 ul | 2000 ppm | 200 ppm |

## Veritech Lot Number: V-355892

Prepared By: Previlon, Wilner
Description: MBS
Prep Date: 8/18/2021
Expiration Date: 12/7/2021
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 08/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13905 | methyl alcohol | 610 ul | neat neat | neat neat |
| 13186 | 502.2 Cal Mix#1(Gases) | 50 ul | 2000 ppm | 100 ppm |
| 13707 | EPA502/524 Volatiles Organic | 50 ul | 2000 ppm | 100 ppm |
| 13717 | EPA 8260 CAL MIX #2(2nd Source) | 50 ul | 2000 ppm | 100 ppm |
| 13989 | Custom VOC Standard | 50 ul | VARIOUS | various ppm |
| 13469 | tert-Amyl Methyl Ether Standard(2nd Source) | 50 ul | 2000 ppm | 100 ppm |
| V-340304 | VOA ADD MIX(2nd Source) | 20 ul | 5000/25000 p | various ppm |
| V-340306 | Voa Extra Add Mix(2nd Source) | 50 ul | 2000-20000 p | 100-1000 pp |
| V-351461 | Ethyl ether/Furan Mix(2nd Source) | 20 ul | 5000 ppm | 100 ppm |
| 13470 | Ethyl-tert-Butyl Ether(ETBE) Standard | 50 ul | 2000 ppm | 100 ppm |

## Veritech Lot Number: V-356285

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 250 PPB
Prep Date: 8/25/2021
Expiration Date: 9/1/2021
Department: Organics
BatchNumber: B-31485
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-355891 | 200ppm VOA Working Std | 125 ul | VARIOUS pp | 250 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| 13919 | Chlorodifluoromethane(Freon#22) | 125 ul | 200 ppm | 250 ppb |

## Veritech Lot Number: V-356286

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 100 PPB
Prep Date: 8/25/2021
Expiration Date: 9/1/2021
Department: Organics
BatchNumber: B-31485
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-355891 | 200ppm VOA Working Std | 50 ul | VARIOUS pp | 100 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| 13919 | Chlorodifluoromethane(Freon#22) | 50 ul | 200 ppm | 100 ppb |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-356287

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 50 PPB
Prep Date: 8/25/2021
Expiration Date: 9/1/2021
Department: Organics
BatchNumber: B-31485
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-355891 | 200ppm VOA Working Std | 25 ul | VARIOUS pp | 50 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| 13919 | Chlorodifluoromethane(Freon#22) | 25 ul | 200 ppm | 50 ppb |

## Veritech Lot Number: V-356288

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 20 PPB
Prep Date: 8/25/2021
Expiration Date: 9/1/2021
Department: Organics
BatchNumber: B-31485
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-355891 | 200ppm VOA Working Std | 10 ul | VARIOUS pp | 20 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| 13919 | Chlorodifluoromethane(Freon#22) | 10 ul | 200 ppm | 20 ppb |

## Veritech Lot Number: V-356289

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 10 PPB
Prep Date: 8/25/2021
Expiration Date: 9/1/2021
Department: Organics
BatchNumber: B-31485
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-350187 | 20ppm VOA Working Std | 50 ul | VARIOUS pp | 10 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| V-350188 | 20ppm Freon VOA Working Std | 50 ul | VARIOUS pp | 10 ppb |

## Veritech Lot Number: V-356290

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 5 PPB
Prep Date: 8/25/2021
Expiration Date: 9/1/2021
Department: Organics
BatchNumber: B-31485
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-350187 | 20ppm VOA Working Std | 25 ul | VARIOUS pp | 5 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| V-350188 | 20ppm Freon VOA Working Std | 25 ul | VARIOUS pp | 5 ppb |

## Veritech Lot Number: V-356291

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 1 PPB
Prep Date: 8/25/2021
Expiration Date: 9/1/2021
Department: Organics
BatchNumber: B-31485
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-350187 | 20ppm VOA Working Std | 5 ul | VARIOUS pp | 1 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| V-350188 | 20ppm Freon VOA Working Std | 5 ul | VARIOUS pp | 1 ppb |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-356292

| | | | |
|---|---|---|---|
| Prepared By: | Previlon, Wilner | Department: Organics | ApprovedBy: akmal |
| Description: | 624/8260 CAL @ 0.5 PPB | BatchNumber: B-31485 | ApproveDate: 08/27/21 |
| Prep Date: | 8/25/2021 | Concentration: VARIOUS ppb | Checked: Yes |
| Expiration Date: | 9/1/2021 | Final Volume: 100 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-350187 | 20ppm VOA Working Std | 2.5 ul | VARIOUS pp | 0.5 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| V-350188 | 20ppm Freon VOA Working Std | 2.5 ul | VARIOUS pp | 0.5 ppb |

## Veritech Lot Number: V-356293

| | | | |
|---|---|---|---|
| Prepared By: | Previlon, Wilner | Department: Organics | ApprovedBy: akmal |
| Description: | 624/8260 CAL @ 500 PPB | BatchNumber: B-31485 | ApproveDate: 08/27/21 |
| Prep Date: | 8/25/2021 | Concentration: VARIOUS ppb | Checked: Yes |
| Expiration Date: | 9/1/2021 | Final Volume: 100 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-355891 | 200ppm VOA Working Std | 250 ul | VARIOUS pp | 500 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| 13919 | Chlorodifluoromethane(Freon#22) | 250 ul | 200 ppm | 500 ppb |

## Veritech Lot Number: V-356294

| | | | |
|---|---|---|---|
| Prepared By: | Previlon, Wilner | Department: Organics | ApprovedBy: akmal |
| Description: | ICV CAL @ 20 PPB | BatchNumber: | ApproveDate: 08/27/21 |
| Prep Date: | 8/25/2021 | Concentration: VARIOUS ppb | Checked: Yes |
| Expiration Date: | 9/1/2021 | Final Volume: 100 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-355892 | MBS | 20 ul | 100 ppm | 20 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | neat |
| 13593 | Chlorofluoromethane(Freon) | 10 ul | 200 ppm | 20 ppb |

## Veritech Lot Number: V-356580

| | | | |
|---|---|---|---|
| Prepared By: | Previlon, Wilner | Department: Organics | ApprovedBy: akmal |
| Description: | 200ppm VOA Working Std | BatchNumber: | ApproveDate: 09/02/21 |
| Prep Date: | 8/31/2021 | Concentration: VARIOUS pp | Checked: Yes |
| Expiration Date: | 12/2/2021 | Final Volume: 1 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13905 | methyl alcohol | 220 ul | neat neat | neat |
| 13697 | 502.2 Calibration Mix #1(Gases) | 100 ul | 2000 ppm | 200 ppm |
| 14001 | Epa 502/524 Volatile Organic Cal Mix | 100 ul | 2000 ppm | 200 ppm |
| 12907 | EPA 8260 CAL. MIX 2 | 100 ul | 2000 ppm | 200 ppm |
| 13990 | Custom VOC Standard | 100 ul | VARIOUS | various ppm |
| 13961 | tert-Amyl Methyl Ether Std.(TAME) | 100 ul | 2000 ppm | 200 ppm |
| V-340303 | VOA ADD MIX | 40 ul | 5000/25000 p | various ppm |
| V-351460 | Ethyl ether/Furan Mix | 40 ul | 5000 ppm | 200 ppm |
| V-340305 | Voa Extra Add Mix | 100 ul | 2000-20000 p | 200 ppm |
| 13696 | Ethyl-tert-Butyl Ether(ETBE) standard | 100 ul | 2000 ppm | 200 ppm |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-356581

Prepared By: Previlon, Wilner
Description: MBS
Prep Date: 8/31/2021
Expiration Date: 12/7/2021
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 09/02/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13905 | methyl alcohol | 610 ul | neat neat | neat neat |
| 13186 | 502.2 Cal Mix#1(Gases) | 50 ul | 2000 ppm | 100 ppm |
| 13707 | EPA502/524 Volatiles Organic | 50 ul | 2000 ppm | 100 ppm |
| 13717 | EPA 8260 CAL MIX #2(2nd Source) | 50 ul | 2000 ppm | 100 ppm |
| 13989 | Custom VOC Standard | 50 ul | VARIOUS | various ppm |
| 13469 | tert-Amyl Methyl Ether Standard(2nd Source) | 50 ul | 2000 ppm | 100 ppm |
| V-340304 | VOA ADD MIX(2nd Source) | 20 ul | 5000/25000 p | various ppm |
| V-340306 | Voa Extra Add Mix(2nd Source) | 50 ul | 2000-20000 p | 100-1000 pp |
| V-351461 | Ethyl ether/Furan Mix(2nd Source) | 20 ul | 5000 ppm | 100 ppm |
| 13470 | Ethyl-tert-Butyl Ether(ETBE) Standard | 50 ul | 2000 ppm | 100 ppm |

## Veritech Lot Number: V-356643

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 250 PPB
Prep Date: 8/31/2021
Expiration Date: 9/6/2021
Department: Organics
BatchNumber: B-31516
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 09/02/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356580 | 200ppm VOA Working Std | 125 ul | VARIOUS pp | 250 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| 13919 | Chlorodifluoromethane(Freon#22) | 125 ul | 200 ppm | 250 ppb |

## Veritech Lot Number: V-356644

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 100 PPB
Prep Date: 8/31/2021
Expiration Date: 9/6/2021
Department: Organics
BatchNumber: B-31516
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 09/02/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356580 | 200ppm VOA Working Std | 50 ul | VARIOUS pp | 100 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| 13919 | Chlorodifluoromethane(Freon#22) | 50 ul | 200 ppm | 100 ppb |

## Veritech Lot Number: V-356645

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 50 PPB
Prep Date: 8/31/2021
Expiration Date: 9/6/2021
Department: Organics
BatchNumber: B-31516
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 09/02/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356580 | 200ppm VOA Working Std | 25 ul | VARIOUS pp | 50 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| 13919 | Chlorodifluoromethane(Freon#22) | 25 ul | 200 ppm | 50 ppb |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-356646

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 20 PPB
Prep Date: 8/31/2021
Expiration Date: 9/6/2021
Department: Organics
BatchNumber: B-31516
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 09/02/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356580 | 200ppm VOA Working Std | 10 ul | VARIOUS pp | 20 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| 13919 | Chlorodifluoromethane(Freon#22) | 10 ul | 200 ppm | 20 ppb |

## Veritech Lot Number: V-356647

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 10 PPB
Prep Date: 8/31/2021
Expiration Date: 9/6/2021
Department: Organics
BatchNumber: B-31516
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 09/02/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-350187 | 20ppm VOA Working Std | 50 ul | VARIOUS pp | 10 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| V-350188 | 20ppm Freon VOA Working Std | 50 ul | VARIOUS pp | 10 ppb |

## Veritech Lot Number: V-356648

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 5 PPB
Prep Date: 8/31/2021
Expiration Date: 9/6/2021
Department: Organics
BatchNumber: B-31516
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 09/02/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-350187 | 20ppm VOA Working Std | 25 ul | VARIOUS pp | 5 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| V-350188 | 20ppm Freon VOA Working Std | 25 ul | VARIOUS pp | 5 ppb |

## Veritech Lot Number: V-356649

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 1 PPB
Prep Date: 8/31/2021
Expiration Date: 9/6/2021
Department: Organics
BatchNumber: B-31516
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 09/02/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-350187 | 20ppm VOA Working Std | 5 ul | VARIOUS pp | 1 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| V-350188 | 20ppm Freon VOA Working Std | 5 ul | VARIOUS pp | 1 ppb |

## Veritech Lot Number: V-356650

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 0.5 PPB
Prep Date: 8/31/2021
Expiration Date: 9/6/2021
Department: Organics
BatchNumber: B-31516
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 09/02/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-350187 | 20ppm VOA Working Std | 2.5 ul | VARIOUS pp | 0.5 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| V-350188 | 20ppm Freon VOA Working Std | 2.5 ul | VARIOUS pp | 0.5 ppb |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-356651

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 500 PPB
Prep Date: 8/31/2021
Expiration Date: 9/6/2021
Department: Organics
BatchNumber: B-31516
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 09/02/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356580 | 200ppm VOA Working Std | 250 ul | VARIOUS pp | 500 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| 13919 | Chlorodifluoromethane(Freon#22) | 250 ul | 200 ppm | 500 ppb |

## Veritech Lot Number: V-357706

Prepared By: Previlon, Wilner
Description: CAL @ 20 PPB
Prep Date: 9/20/2021
Expiration Date: 9/27/2021
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356580 | 200ppm VOA Working Std | 10 ul | VARIOUS pp | 20 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| 14151 | Chlorodifluoromethane | 10 ul | 200 ppm | 20 ppb |

## Veritech Lot Number: V-357724

Prepared By: Previlon, Wilner
Description: MBS
Prep Date: 9/21/2021
Expiration Date: 12/7/2021
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13905 | methyl alcohol | 610 ul | neat neat | neat neat |
| 13186 | 502.2 Cal Mix#1(Gases) | 50 ul | 2000 ppm | 100 ppm |
| 13707 | EPA502/524 Volatiles Organic | 50 ul | 2000 ppm | 100 ppm |
| 13717 | EPA 8260 CAL MIX #2(2nd Source) | 50 ul | 2000 ppm | 100 ppm |
| 13989 | Custom VOC Standard | 50 ul | VARIOUS | various ppm |
| 13469 | tert-Amyl Methyl Ether Standard(2nd Source) | 50 ul | 2000 ppm | 100 ppm |
| V-340304 | VOA ADD MIX(2nd Source) | 20 ul | 5000/25000 p | various ppm |
| V-340306 | Voa Extra Add Mix(2nd Source) | 50 ul | 2000-20000 p | 100-1000 pp |
| V-351461 | Ethyl ether/Furan Mix(2nd Source) | 20 ul | 5000 ppm | 100 ppm |
| 13470 | Ethyl-tert-Butyl Ether(ETBE) Standard | 50 ul | 2000 ppm | 100 ppm |

## Veritech Lot Number: V-357807

Prepared By: Previlon, Wilner
Description: CAL @ 20 PPB
Prep Date: 9/21/2021
Expiration Date: 9/28/2021
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356580 | 200ppm VOA Working Std | 10 ul | VARIOUS pp | 20 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| 14151 | Chlorodifluoromethane | 10 ul | 200 ppm | 20 ppb |

# Veritech Internally Prepared Standard Log

**Veritech Lot Number: V-358041**

| | | | | | |
|---|---|---|---|---|---|
| Prepared By: | Previlon, Wilner | Department: | Organics | ApprovedBy: | Akmal |
| Description: | CAL @ 20 PPB | BatchNumber: | | ApproveDate: | 09/28/21 |
| Prep Date: | 9/23/2021 | Concentration: | VARIOUS ppb | Checked: | Yes |
| Expiration Date: | 9/30/2021 | Final Volume: | 100 ml | | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356580 | 200ppm VOA Working Std | 10 ul | VARIOUS pp | 20 ppb |
| 12833 | P&T Water | 100 ml | NEAT neat | |
| 14151 | Chlorodifluoromethane | 10 ul | 200 ppm | 20 ppb |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 2889

| Description |
|---|
| 1,2,4,5-TETRAMETHYLBENZENE |

ApprovedBy: jean
ApproveDate: 12/18/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ACROS ORGANI | 409390050 | A0214190 | 11/20/07 | 11/30/27 | Revolus, Jean | 1 | 1ML | NEAT | |

## Veritech Control/Receipt Number: 11587

| Description |
|---|
| Furan |

ApprovedBy: akmal
ApproveDate: 04/05/18
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Aldrich | 185922 | SHBG4510V | 04/05/18 | 08/31/25 | Hamid, Akmal | 1 | 5ML | NEAT | NEAT |

## Veritech Control/Receipt Number: 11932

| Description |
|---|
| Butyl methacrylate |

ApprovedBy: jean
ApproveDate: 08/27/18
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CHEM SERVICE | N-11371-1G | 4695500 | 08/22/18 | 01/31/23 | Revolus, Jean | 1 | 1g | Neat | |

## Veritech Control/Receipt Number: 11935

| Description |
|---|
| Ethyl acetate |

ApprovedBy: jean
ApproveDate: 08/27/18
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CHEM SERVICE | N-11881-1G | 7518400 | 08/22/18 | 05/31/22 | Revolus, Jean | 1 | 1g | Neat | |

## Veritech Control/Receipt Number: 12761

| Description |
|---|
| Camphene |

ApprovedBy: akmal
ApproveDate: 09/19/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ChemService | N-11395-250G | 8199400 | 09/19/19 | 01/31/22 | Revolus, Jean | 2 | 250m | NEAT | |

## Veritech Control/Receipt Number: 12762

| Description |
|---|
| p-Diethylbenzene |

ApprovedBy: akmal
ApproveDate: 09/19/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ChemService | N-12771-100MG | 8949700 | 09/19/19 | 08/31/23 | Revolus, Jean | 4 | 100m | NEAT | |

## Veritech Control/Receipt Number: 12763

| Description |
|---|
| Isopropyl acetate |

ApprovedBy: akmal
ApproveDate: 10/07/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ChemService | N-12223-1G | 8816500 | 09/19/19 | 04/30/24 | Revolus, Jean | 1 | 1g | NEAT | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 12764

Description: Cyclohexanone

ApprovedBy: akmal
ApproveDate: 09/19/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ChemService | N-11531-1G | 8743900 | 09/19/19 | 05/31/23 | Revolus, Jean | 1 | 1g | NEAT | |

## Veritech Control/Receipt Number: 12766

Description: Ethyl methacrylate

ApprovedBy: jean
ApproveDate: 09/25/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ChemService | N-11903-1G | 8239900 | 09/19/19 | 01/31/23 | Revolus, Jean | 1 | 1g | NEAT | |

## Veritech Control/Receipt Number: 12770

Description: 8260A Internal Standard Mix

ApprovedBy: akmal
ApproveDate: 09/23/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| RESTEK | 30241 | A0151798 | 09/20/19 | 08/31/24 | Revolus, Jean | 6 | 1ml | 2500 | PPM |

## Veritech Control/Receipt Number: 12771

Description: 8260A Surrogate Mix

ApprovedBy: akmal
ApproveDate: 09/23/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| RESTEK | 30240 | A0149574 | 09/20/19 | 05/31/24 | Revolus, Jean | 6 | 1ml | 2500 | PPM |

## Veritech Control/Receipt Number: 12815

Description: p-Ethyltoluene

ApprovedBy: akmal
ApproveDate: 10/07/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CHEMSERVICE | N-12776-1G | 7926200 | 10/03/19 | 12/31/21 | Revolus, Jean | 4 | 250 m | NEAT | |

## Veritech Control/Receipt Number: 12833

Description: P&T Water

ApprovedBy: akmal
ApproveDate: 10/16/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Veritech | N/A | N/A | 10/14/19 | 10/14/25 | Goring, Shawn | 1 | N/A | NEAT | NEAT |

## Veritech Control/Receipt Number: 12907

Description: EPA 8260 CAL. MIX 2

ApprovedBy: akmal
ApproveDate: 12/03/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SIGMA-ALDRICH | 46831-U | LRAC3827 | 12/02/19 | 10/31/22 | Hamid, Akmal | 18 | 1.5ML | 2000 | PPM |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13052

Description: Internal Standard Mix

ApprovedBy: jean
ApproveDate: 02/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| RESTEK | 30241 | A0156714 | 02/11/20 | 01/31/25 | Revolus, Jean | 12 | 1ml | 2500 | PPM |

## Veritech Control/Receipt Number: 13053

Description: 8260A Surrogate Mix

ApprovedBy: jean
ApproveDate: 02/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| RESTEK | 30240 | A0156492 | 02/11/20 | 01/31/25 | Revolus, Jean | 12 | 1ml | 2500 | PPM |

## Veritech Control/Receipt Number: 13185

Description: 502.2 Cal2000 Mega Mix

ApprovedBy: jean
ApproveDate: 04/15/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| RESTEK | 30431 | A0150913 | 04/15/20 | 07/31/21 | Revolus, Jean | 10 | 1ml | 2000 | PPM |

## Veritech Control/Receipt Number: 13186

Description: 502.2 Cal Mix#1(Gases)

ApprovedBy: jean
ApproveDate: 04/15/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| RESTEK | 30042 | A0156895 | 04/15/20 | 09/30/26 | Revolus, Jean | 10 | 1ml | 2000 | PPM |

## Veritech Control/Receipt Number: 13191

Description: d-Camphor

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CHEM SERVICE | N-11556-100MG | 9259300 | 04/17/20 | 12/31/25 | Revolus, Jean | 5 | 100m | Neat | |

## Veritech Control/Receipt Number: 13192

Description: n-Amyl acetate

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CHEM SERVICE | N-12508-1G | 9676300 | 04/17/20 | 03/31/26 | Revolus, Jean | 1 | 1g | NEAT | |

## Veritech Control/Receipt Number: 13193

Description: Ethyl ether

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CHEM SERVICE | N-11897-1G | 9150400 | 04/17/20 | 11/30/21 | Revolus, Jean | 1 | 1g | Neat | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13194

| Description |
|---|
| n-Butyl acrylate |

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CHEM SERVICE | N-12513-1G | 9919500 | 04/17/20 | 01/31/26 | Revolus, Jean | 1 | 1g | Neat | |

## Veritech Control/Receipt Number: 13195

| Description |
|---|
| Methyl methacrylate |

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CHEM SERVICE | N-12443-1G | 9827400 | 04/17/20 | 03/30/26 | Revolus, Jean | 1 | 1g | Neat | |

## Veritech Control/Receipt Number: 13224

| Description |
|---|
| methyl alcohol |

ApprovedBy: akmal
ApproveDate: 05/05/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | MP1924 | 20030219 | 05/04/20 | 03/13/22 | Lopez, Jose | 6 | 1L | neat | neat |

## Veritech Control/Receipt Number: 13468

| Description |
|---|
| tert-Amyl Methyl Ether Standard |

ApprovedBy: jean
ApproveDate: 09/02/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| RESTEK | 30629 | A0143927 | 09/02/20 | 12/31/23 | Revolus, Jean | 5 | 1ml | 2000 | PPM |

## Veritech Control/Receipt Number: 13469

| Description |
|---|
| tert-Amyl Methyl Ether Standard(2nd Source) |

ApprovedBy: jean
ApproveDate: 09/02/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| RESTEK | 30629 | A0156516 | 09/02/20 | 01/31/25 | Revolus, Jean | 5 | 1ml | 2000 | PPM |

## Veritech Control/Receipt Number: 13470

| Description |
|---|
| Ethyl-tert-Butyl Ether(ETBE) Standard |

ApprovedBy: jean
ApproveDate: 09/02/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| RESTEK | 30628 | A0163755 | 09/02/20 | 08/31/25 | Revolus, Jean | 6 | 1ml | 2000 | PPM |

## Veritech Control/Receipt Number: 13593

| Description |
|---|
| Chlorofluoromethane(Freon) |

ApprovedBy: akmal
ApproveDate: 11/04/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ACCUSTANDAR | M-REF-03 | 219081587 | 11/03/20 | 09/11/29 | Revolus, Jean | 10 | 1ml | 200 | PPM |

# Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 13605**

Description: methyl alcohol

ApprovedBy: akmal
ApproveDate: 11/17/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | MP1924-002 | 20060571 | 11/16/20 | 06/25/22 | Lopez, Jose | 36 | 1L | neat | neat |

**Veritech Control/Receipt Number: 13696**

Description: Ethyl-tert-Butyl Ether(ETBE) standard

ApprovedBy: jean
ApproveDate: 01/07/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| RESTEK | 30628 | A0165977 | 01/06/21 | 11/30/25 | Revolus, Jean | 8 | 1ml | 2000 | PPM |

**Veritech Control/Receipt Number: 13697**

Description: 502.2 Calibration Mix #1(Gases)

ApprovedBy: jean
ApproveDate: 01/07/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| RESTEK | 30042 | A0163907 | 01/06/21 | 04/30/27 | Revolus, Jean | 10 | 1ml | 2000 | PPM |

**Veritech Control/Receipt Number: 13707**

Description: EPA502/524 Volatiles Organic

ApprovedBy: akmal
ApproveDate: 01/12/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SIGMA-ALDRICH | 502111 | LRAC7008 | 01/11/21 | 09/30/22 | Revolus, Jean | 6 | 1ml | 2000 | PPM |

**Veritech Control/Receipt Number: 13717**

Description: EPA 8260 CAL MIX #2(2nd Source)

ApprovedBy: jean
ApproveDate: 01/14/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SIGMA-ALDRICH | 4S6831-U | LRAC6659 | 01/13/21 | 11/30/22 | Revolus, Jean | 6 | 1ml | 2000 | PPM |

**Veritech Control/Receipt Number: 13726**

Description: Custom VOC Standard

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ACCUSTANDAR | S-16418 | 221011121 | 01/15/21 | 07/13/21 | Hamid, Akmal | 5 | 1ml | VARIOU | |

**Veritech Control/Receipt Number: 13734**

Description: methyl alcohol

ApprovedBy: akmal
ApproveDate: 01/28/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | MP1924 | 20100613 | 01/26/21 | 10/30/22 | Lopez, Jose | 48 | 1L | neat | neat |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13905

Description: methyl alcohol

ApprovedBy: akmal
ApproveDate: 05/06/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | MP1924-002 | 20100613 | 05/04/21 | 10/30/22 | Lopez, Jose | 30 | 1L | neat | neat |

## Veritech Control/Receipt Number: 13919

Description: Chlorodifluoromethane(Freon#22)

ApprovedBy: jean
ApproveDate: 05/11/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ACCUSTANDAR | M-REF-03 | 219081587 | 05/11/21 | 09/11/29 | Revolus, Jean | 10 | 1ml | 200 | PPM |

## Veritech Control/Receipt Number: 13961

Description: tert-Amyl Methyl Ether Std.(TAME)

ApprovedBy: akmal
ApproveDate: 05/28/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Restek | 30629 | A0156516 | 05/28/21 | 01/31/25 | Hamid, Akmal | 6 | 1ml | 2000 | ppm |

## Veritech Control/Receipt Number: 13987

Description: Ethyl Ether

ApprovedBy: akmal
ApproveDate: 06/09/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CHEM SERVICE | N-11897-1G | 11096100 | 05/25/21 | 12/31/25 | Revolus, Jean | 1 | 1g | NEAT | |

## Veritech Control/Receipt Number: 13989

Description: Custom VOC Standard

ApprovedBy: akmal
ApproveDate: 06/09/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ACCUSTANDAR | S-16418 | 221051642 | 06/09/21 | 12/07/21 | Revolus, Jean | 5 | 1ml | VARIOU | |

## Veritech Control/Receipt Number: 13990

Description: Custom VOC Standard

ApprovedBy: akmal
ApproveDate: 06/09/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ACCUSTANDAR | S-16418 | 221061003 | 06/09/21 | 12/02/21 | Revolus, Jean | 5 | 1ml | VARIOU | |

## Veritech Control/Receipt Number: 14001

Description: Epa 502/524 Volatile Organic Cal Mix

ApprovedBy: akmal
ApproveDate: 06/17/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SIGMA-ALRICH | 502111 | LRAC7008 | 06/17/21 | 09/30/22 | Revolus, Jean | 10 | 1ml | 2000 | PPM |

Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 14151**

| Description |
| --- |
| Chlorodifluoromethane |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ACCUSTANDAR | M-REF-03 | 221081279 | 08/25/21 | 08/19/31 | Revolus, Jean | 10 | 1ml | 200 | PPM |

# GC/MS Base Neutral/Acid Extractable Data

# GC/MS Base Neutral/Acid Extractable Data
# QC Summary

# FORM2

## Surrogate Recovery

Method: EPA 8270E

| Dfile | Sample# | Matrix | Date/Time | Surr Dil | Dilute Out Flag | Column1 S1 Recov | Column1 S2 Recov | Column1 S3 Recov | Column1 S4 Recov | Column1 S5 Recov | Column1 S6 Recov |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5M117936.D | WMB94984 | A | 09/21/21 14:27 | 1 | | 82 | 57 | 129 | 135* | 143 | 145 |
| 7M116568.D | WMB94959 | A | 09/19/21 15:50 | 1 | | 90 | 73 | 118 | 113 | 114 | 122 |
| 7M116569.D | WMB94960 | A | 09/19/21 16:13 | 1 | | 95 | 73 | 134 | 133* | 138 | 143 |
| 10M87377.D | AD26083-001 | A | 09/20/21 14:38 | 1 | | 61 | 41 | 104 | 105 | 107 | 119 |
| 10M87378.D | AD26083-002 | A | 09/20/21 15:00 | 1 | | 59 | 41 | 104 | 106 | 115 | 126 |
| 10M87379.D | AD26083-003 | A | 09/20/21 15:23 | 1 | | 64 | 45 | 108 | 107 | 110 | 122 |
| 10M87380.D | AD26083-005 | A | 09/20/21 15:45 | 1 | | 49 | 35 | 92 | 92 | 101 | 124 |
| 10M87381.D | AD26083-006 | A | 09/20/21 16:07 | 1 | | 65 | 43 | 106 | 108 | 104 | 120 |
| 10M87382.D | AD26083-008 | A | 09/20/21 16:29 | 1 | | 63 | 41 | 103 | 105 | 106 | 120 |
| 10M87383.D | AD26083-009 | A | 09/20/21 16:51 | 1 | | 66 | 46 | 107 | 109 | 111 | 128 |
| 10M87384.D | AD26083-011 | A | 09/20/21 17:14 | 1 | | 60 | 40 | 105 | 108 | 106 | 126 |
| 10M87385.D | AD26083-012 | A | 09/20/21 17:36 | 1 | | 55 | 40 | 97 | 100 | 109 | 126 |
| 10M87386.D | AD26083-014 | A | 09/20/21 17:58 | 1 | | 54 | 37 | 87 | 94 | 94 | 114 |
| 10M87387.D | AD26083-016 | A | 09/20/21 18:20 | 1 | | 47 | 35 | 96 | 102 | 97 | 126 |
| 10M87388.D | AD26083-018 | A | 09/20/21 18:43 | 1 | | 53 | 39 | 90 | 97 | 104 | 125 |
| 5M117948.D | AD26083-019 | A | 09/21/21 20:18 | 1 | | 9.4* | 2.8* | 103 | 103 | 67 | 127 |
| 7M116649.D | AD26083-019(R) | A | 09/23/21 09:58 | 1 | | 0* | 0* | 91 | 91 | 0* | 91 |
| 10M87389.D | AD26083-021 | A | 09/20/21 19:05 | 1 | | 53 | 38 | 85 | 91 | 95 | 111 |
| 10M87390.D | AD26083-023 | A | 09/20/21 19:27 | 1 | | 61 | 42 | 96 | 98 | 96 | 111 |
| 10M87391.D | AD26083-026 | A | 09/20/21 19:49 | 1 | | 58 | 40 | 101 | 101 | 100 | 120 |
| 10M87392.D | AD26083-027 | A | 09/20/21 20:11 | 1 | | 90 | 66 | 102 | 103 | 100 | 110 |
| 10M87393.D | AD26083-028 | A | 09/20/21 20:33 | 1 | | 29 | 18* | 80 | 84 | 76 | 100 |
| 10M87394.D | AD26083-030 | A | 09/20/21 20:55 | 1 | | 68 | 48 | 108 | 114 | 104 | 127 |
| 7M116584.D | AD26083-032 | A | 09/19/21 22:08 | 1 | | 49 | 39 | 67 | 68 | 67 | 74 |
| 7M116585.D | AD26083-033 | A | 09/19/21 22:32 | 1 | | 63 | 46 | 111 | 112 | 115 | 132 |
| 7M116586.D | AD26083-035 | A | 09/19/21 22:56 | 1 | | 76 | 58 | 113 | 114 | 118 | 124 |
| 7M116587.D | AD26083-036 | A | 09/19/21 23:19 | 1 | | 63 | 51 | 94 | 94 | 99 | 109 |
| 10M87395.D | AD26083-038 | A | 09/20/21 21:17 | 1 | | 75 | 59 | 111 | 112 | 110 | 131 |
| 10M87396.D | AD26083-040 | A | 09/20/21 21:39 | 1 | | 43 | 34 | 81 | 90 | 85 | 104 |
| 10M87401.D | AD26083-042(MS:AD26 | A | 09/20/21 23:29 | 1 | | 71 | 50 | 116 | 91 | 126 | 136 |
| 10M87402.D | AD26083-044(MSD:AD2 | A | 09/20/21 23:51 | 1 | | 66 | 47 | 108 | 86 | 120 | 130 |
| 10M87397.D | AD26083-046 | A | 09/20/21 22:01 | 1 | | 64 | 50 | 103 | 108 | 110 | 129 |
| 10M87398.D | AD26083-048 | A | 09/20/21 22:23 | 1 | | 82 | 65 | 113 | 119 | 116 | 138 |
| 10M87399.D | AD26083-049(MS:AD26 | A | 09/20/21 22:45 | 1 | | 33 | 27 | 62 | 60 | 63 | 68 |
| 10M87400.D | AD26083-050(MSD:AD2 | A | 09/20/21 23:07 | 1 | | 53 | 41 | 103 | 103 | 101 | 112 |
| 10M87409.D | WMB94959(MS) | A | 09/21/21 12:23 | 1 | | 41 | 34 | 60 | 51* | 64 | 68 |
| 10M87410.D | WMB94960(MS) | A | 09/21/21 12:45 | 1 | | 88 | 81 | 115 | 118 | 125 | 134 |
| 5M117938.D | WMB94984(MS) | A | 09/21/21 15:14 | 1 | | 78 | 54 | 121 | 113 | 142 | 136 |
| 5M117939.D | AD25969-001(MS) | A | 09/21/21 16:45 | 1 | | 79 | 73 | 121 | 132* | 152* | 153* |
| 5M117940.D | AD25969-001(MSD) | A | 09/21/21 17:09 | 1 | | 118* | 101 | 138 | 144* | 156* | 154* |
| 5M117941.D | AD25969-001 | A | 09/21/21 17:32 | 1 | | 95 | 86 | 121 | 124 | 143 | 140 |

**Flags:** SD=Surrogate diluted out

*=Surrogate out

**Method:** EPA 8270E

### Aqueous Laboratory Limits

| Compound | Spike Amt | Limits |
|---|---|---|
| S1=2-Fluorophenol | 100 | 29-113 |
| S2=Phenol-d5 | 100 | 27-115 |
| S3=Nitrobenzene-d5 | 50 | 51-139 |
| S4=2-Fluorobiphenyl | 50 | 53-129 |
| S5=2,4,6-Tribromophenol | 100 | 54-149 |
| S6=Terphenyl-d14 | 50 | 55-146 |

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94959

| Data File | Sample ID: | Analysis Date |
|---|---|---|
| Spike or Dup: 10M87409.D | WMB94959(MS) | 9/21/2021 12:23:00 PM |
| Non Spike(If applicable): | | |
| Inst Blank(If applicable): | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 73.0599 | 0 | 100 | 73 | 20 | 160 |
| Pyridine | 1 | 64.143 | 0 | 100 | 64 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 82.4376 | 0 | 100 | 82 | 50 | 150 |
| Benzaldehyde | 1 | 55.21 | 0 | 100 | 55 | 20 | 220 |
| Aniline | 1 | 92.3158 | 0 | 100 | 92 | 20 | 150 |
| Pentachloroethane | 1 | 99.3599 | 0 | 100 | 99 | 50 | 130 |
| bis(2-Chloroethyl)ether | 1 | 93.3799 | 0 | 100 | 93 | 50 | 130 |
| Phenol | 1 | 68.5023 | 0 | 100 | 69 | 20 | 150 |
| 2-Chlorophenol | 1 | 103.1899 | 0 | 100 | 103 | 70 | 130 |
| N-Decane | 1 | 95.6803 | 0 | 100 | 96 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 59.1093 | 0 | 100 | 59 | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 64.4333 | 0 | 100 | 64 | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 65.1899 | 0 | 100 | 65 | 50 | 130 |
| Benzyl alcohol | 1 | 109.1171 | 0 | 100 | 109 | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 79.3182 | 0 | 100 | 79 | 40 | 130 |
| 2-Methylphenol | 1 | 100.0359 | 0 | 100 | 100 | 60 | 130 |
| Acetophenone | 1 | 107.2266 | 0 | 100 | 107 | 50 | 130 |
| Hexachloroethane | 1 | 64.973 | 0 | 100 | 65 | 50 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 100.8807 | 0 | 100 | 101 | 50 | 130 |
| 3&4-Methylphenol | 1 | 103.0956 | 0 | 100 | 103 | 50 | 130 |
| Nitrobenzene | 1 | 102.0765 | 0 | 100 | 102 | 70 | 130 |
| Isophorone | 1 | 102.7655 | 0 | 100 | 103 | 70 | 130 |
| 2-Nitrophenol | 1 | 120.3992 | 0 | 100 | 120 | 70 | 130 |
| 2,4-Dimethylphenol | 1 | 85.4742 | 0 | 100 | 85 | 40 | 130 |
| Benzoic Acid | 1 | 106.9281 | 0 | 100 | 107 | 20 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 107.3422 | 0 | 100 | 107 | 70 | 130 |
| 2,4-Dichlorophenol | 1 | 113.3521 | 0 | 100 | 113 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 94.4399 | 0 | 100 | 94 | 50 | 130 |
| Naphthalene | 1 | 94.6766 | 0 | 100 | 95 | 70 | 130 |
| 4-Chloroaniline | 1 | 119.9974 | 0 | 100 | 120 | 50 | 150 |
| Hexachlorobutadiene | 1 | 87.1986 | 0 | 100 | 87 | 70 | 130 |
| Caprolactam | 1 | 80.4439 | 0 | 100 | 80 | 20 | 130 |
| 4-Chloro-3-methylphenol | 1 | 124.4372 | 0 | 100 | 124 | 70 | 130 |
| 2-Methylnaphthalene | 1 | 111.4019 | 0 | 100 | 111 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 124.3948 | 0 | 100 | 124 | 70 | 130 |
| 1,1'-Biphenyl | 1 | 118.4125 | 0 | 100 | 118 | 70 | 130 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 114.9277 | 0 | 100 | 115 | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 107.7909 | 0 | 100 | 108 | 20 | 130 |
| 2,4,6-Trichlorophenol | 1 | 128.6713 | 0 | 100 | 129 | 70 | 130 |
| 2,4,5-Trichlorophenol | 1 | 130.3701 | 0 | 100 | 130 | 70 | 130 |
| 2-Chloronaphthalene | 1 | 108.1158 | 0 | 100 | 108 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 115.5714 | 0 | 100 | 116 | 70 | 130 |
| Diphenyl Ether | 1 | 118.5146 | 0 | 100 | 119 | 70 | 130 |
| 2-Nitroaniline | 1 | 126.7995 | 0 | 100 | 127 | 50 | 150 |
| Coumarin | 1 | 129.3577 | 0 | 100 | 129 | 70 | 130 |
| Acenaphthylene | 1 | 111.254 | 0 | 100 | 111 | 70 | 130 |
| Dimethylphthalate | 1 | 114.3701 | 0 | 100 | 114 | 70 | 130 |
| 2,6-Dinitrotoluene | 1 | 114.4395 | 0 | 100 | 114 | 70 | 130 |
| Acenaphthene | 1 | 109.4196 | 0 | 100 | 109 | 70 | 130 |
| 3-Nitroaniline | 1 | 127.1788 | 0 | 100 | 127 | 50 | 150 |
| 2,4-Dinitrophenol | 1 | 126.8682 | 0 | 100 | 127 | 20 | 150 |
| Dibenzofuran | 1 | 118.4158 | 0 | 100 | 118 | 70 | 130 |
| 2,4-Dinitrotoluene | 1 | 112.0536 | 0 | 100 | 112 | 40 | 130 |
| 4-Nitrophenol | 1 | 84.6028 | 0 | 100 | 85 | 20 | 150 |
| 2,3,4,6-Tetrachlorophenol | 1 | 119.968 | 0 | 100 | 120 | 70 | 130 |
| Fluorene | 1 | 111.8445 | 0 | 100 | 112 | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 114.095 | 0 | 100 | 114 | 70 | 130 |
| Diethylphthalate | 1 | 115.0129 | 0 | 100 | 115 | 50 | 130 |
| 4-Nitroaniline | 1 | 122.8849 | 0 | 100 | 123 | 50 | 150 |
| Atrazine | 1 | 93.2692 | 0 | 100 | 93 | 50 | 130 |
| 4,6-Dinitro-2-methylphenol | 1 | 127.9306 | 0 | 100 | 128 | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **n-Nitrosodiphenylamine** | 1 | 94.4676 | 0 | 100 | 94 | 50 | 130 |
| 1,2-Diphenylhydrazine | 1 | 110.315 | 0 | 100 | 110 | 70 | 130 |
| **4-Bromophenyl-phenylether** | 1 | 116.1164 | 0 | 100 | 116 | 70 | 130 |
| **Hexachlorobenzene** | 1 | 109.9293 | 0 | 100 | 110 | 70 | 130 |
| N-Octadecane | 1 | 127.3217 | 0 | 100 | 127 | 70 | 130 |
| **Pentachlorophenol** | 1 | 136.3506 | 0 | 100 | 136* | 40 | 130 |
| **Phenanthrene** | 1 | 113.7044 | 0 | 100 | 114 | 70 | 130 |
| **Anthracene** | 1 | 113.9685 | 0 | 100 | 114 | 70 | 130 |
| **Carbazole** | 1 | 124.759 | 0 | 100 | 125 | 70 | 130 |
| **Di-n-butylphthalate** | 1 | 117.1419 | 0 | 100 | 117 | 70 | 130 |
| **Fluoranthene** | 1 | 118.3916 | 0 | 100 | 118 | 70 | 130 |
| **Pyrene** | 1 | 114.1592 | 0 | 100 | 114 | 70 | 130 |
| Benzidine | 1 | 5.988 | 0 | 100 | 6 | 0 | 134 |
| **Butylbenzylphthalate** | 1 | 118.7404 | 0 | 100 | 119 | 50 | 130 |
| **3,3'-Dichlorobenzidine** | 1 | 105.5017 | 0 | 100 | 106 | 1 | 150 |
| **Benzo[a]anthracene** | 1 | 107.5222 | 0 | 100 | 108 | 70 | 130 |
| **Chrysene** | 1 | 119.9162 | 0 | 100 | 120 | 50 | 130 |
| **bis(2-Ethylhexyl)phthalate** | 1 | 127.9746 | 0 | 100 | 128 | 70 | 130 |
| **Di-n-octylphthalate** | 1 | 123.4907 | 0 | 100 | 123 | 70 | 130 |
| **Benzo[b]fluoranthene** | 1 | 121.0319 | 0 | 100 | 121 | 70 | 130 |
| **Benzo[k]fluoranthene** | 1 | 123.2451 | 0 | 100 | 123 | 70 | 130 |
| **Benzo[a]pyrene** | 1 | 119.0351 | 0 | 100 | 119 | 70 | 130 |
| **Indeno[1,2,3-cd]pyrene** | 1 | 124.6205 | 0 | 100 | 125 | 70 | 130 |
| **Dibenzo[a,h]anthracene** | 1 | 125.3902 | 0 | 100 | 125 | 70 | 130 |
| **Benzo[g,h,i]perylene** | 1 | 122.8366 | 0 | 100 | 123 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94960

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87410.D | WMB94960(MS) | 9/21/2021 12:45:00 PM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 68.8249 | 0 | 100 | 69 | 20 | 160 |
| Pyridine | 1 | 4.0309 | 0 | 100 | 4* | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 80.3477 | 0 | 100 | 80 | 50 | 150 |
| Benzaldehyde | 1 | 57.2379 | 0 | 100 | 57 | 20 | 220 |
| Aniline | 1 | 5.5196 | 0 | 100 | 5.5* | 20 | 150 |
| Pentachloroethane | 1 | 93.4671 | 0 | 100 | 93 | 50 | 130 |
| bis(2-Chloroethyl)ether | 1 | 93.9702 | 0 | 100 | 94 | 50 | 130 |
| Phenol | 1 | 74.6416 | 0 | 100 | 75 | 20 | 150 |
| 2-Chlorophenol | 1 | 103.3518 | 0 | 100 | 103 | 70 | 130 |
| N-Decane | 1 | 89.6028 | 0 | 100 | 90 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 88.6743 | 0 | 100 | 89 | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 90.1773 | 0 | 100 | 90 | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 87.6116 | 0 | 100 | 88 | 50 | 130 |
| Benzyl alcohol | 1 | 87.7778 | 0 | 100 | 88 | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 82.0628 | 0 | 100 | 82 | 40 | 130 |
| 2-Methylphenol | 1 | 104.1581 | 0 | 100 | 104 | 60 | 130 |
| Acetophenone | 1 | 104.4009 | 0 | 100 | 104 | 50 | 130 |
| Hexachloroethane | 1 | 91.6216 | 0 | 100 | 92 | 50 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 98.5965 | 0 | 100 | 99 | 50 | 130 |
| 3&4-Methylphenol | 1 | 109.5896 | 0 | 100 | 110 | 50 | 130 |
| Nitrobenzene | 1 | 100.0809 | 0 | 100 | 100 | 70 | 130 |
| Isophorone | 1 | 98.0541 | 0 | 100 | 98 | 70 | 130 |
| 2-Nitrophenol | 1 | 116.821 | 0 | 100 | 117 | 70 | 130 |
| 2,4-Dimethylphenol | 1 | 119.3364 | 0 | 100 | 119 | 40 | 130 |
| Benzoic Acid | 1 | 133.351 | 0 | 100 | 133* | 20 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 100.6173 | 0 | 100 | 101 | 70 | 130 |
| 2,4-Dichlorophenol | 1 | 109.6273 | 0 | 100 | 110 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 98.5096 | 0 | 100 | 99 | 50 | 130 |
| Naphthalene | 1 | 92.5097 | 0 | 100 | 93 | 70 | 130 |
| 4-Chloroaniline | 1 | 13.9796 | 0 | 100 | 14* | 50 | 150 |
| Hexachlorobutadiene | 1 | 96.1965 | 0 | 100 | 96 | 70 | 130 |
| Caprolactam | 1 | 79.1343 | 0 | 100 | 79 | 20 | 130 |
| 4-Chloro-3-methylphenol | 1 | 123.9146 | 0 | 100 | 124 | 70 | 130 |
| 2-Methylnaphthalene | 1 | 105.4529 | 0 | 100 | 105 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 118.372 | 0 | 100 | 118 | 70 | 130 |
| 1,1'-Biphenyl | 1 | 115.1679 | 0 | 100 | 115 | 70 | 130 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 110.1135 | 0 | 100 | 110 | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 110.8273 | 0 | 100 | 111 | 20 | 130 |
| 2,4,6-Trichlorophenol | 1 | 128.7848 | 0 | 100 | 129 | 70 | 130 |
| 2,4,5-Trichlorophenol | 1 | 131.4864 | 0 | 100 | 131* | 70 | 130 |
| 2-Chloronaphthalene | 1 | 106.9247 | 0 | 100 | 107 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 112.4075 | 0 | 100 | 112 | 70 | 130 |
| Diphenyl Ether | 1 | 116.2099 | 0 | 100 | 116 | 70 | 130 |
| 2-Nitroaniline | 1 | 126.3831 | 0 | 100 | 126 | 50 | 150 |
| Coumarin | 1 | 129.2697 | 0 | 100 | 129 | 70 | 130 |
| Acenaphthylene | 1 | 110.4032 | 0 | 100 | 110 | 70 | 130 |
| Dimethylphthalate | 1 | 112.6986 | 0 | 100 | 113 | 70 | 130 |
| 2,6-Dinitrotoluene | 1 | 114.8357 | 0 | 100 | 115 | 70 | 130 |
| Acenaphthene | 1 | 106.8314 | 0 | 100 | 107 | 70 | 130 |
| 3-Nitroaniline | 1 | 39.8556 | 0 | 100 | 40* | 50 | 150 |
| 2,4-Dinitrophenol | 1 | 127.5204 | 0 | 100 | 128 | 20 | 150 |
| Dibenzofuran | 1 | 114.2566 | 0 | 100 | 114 | 70 | 130 |
| 2,4-Dinitrotoluene | 1 | 110.9184 | 0 | 100 | 111 | 40 | 130 |
| 4-Nitrophenol | 1 | 108.5289 | 0 | 100 | 109 | 20 | 150 |
| 2,3,4,6-Tetrachlorophenol | 1 | 122.1073 | 0 | 100 | 122 | 70 | 130 |
| Fluorene | 1 | 110.0602 | 0 | 100 | 110 | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 113.4439 | 0 | 100 | 113 | 70 | 130 |
| Diethylphthalate | 1 | 114.5717 | 0 | 100 | 115 | 50 | 130 |
| 4-Nitroaniline | 1 | 79.0737 | 0 | 100 | 79 | 50 | 150 |
| Atrazine | 1 | 49.4505 | 0 | 100 | 49* | 50 | 130 |
| 4,6-Dinitro-2-methylphenol | 1 | 128.0932 | 0 | 100 | 128 | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94960

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | 1 | 79.3564 | 0 | 100 | 79 | 50 | 130 |
| 1,2-Diphenylhydrazine | 1 | 114.7015 | 0 | 100 | 115 | 70 | 130 |
| 4-Bromophenyl-phenylether | 1 | 113.3772 | 0 | 100 | 113 | 70 | 130 |
| Hexachlorobenzene | 1 | 108.8561 | 0 | 100 | 109 | 70 | 130 |
| N-Octadecane | 1 | 125.0568 | 0 | 100 | 125 | 70 | 130 |
| Pentachlorophenol | 1 | 143.4011 | 0 | 100 | 143* | 40 | 130 |
| Phenanthrene | 1 | 110.5698 | 0 | 100 | 111 | 70 | 130 |
| Anthracene | 1 | 111.0462 | 0 | 100 | 111 | 70 | 130 |
| Carbazole | 1 | 117.0286 | 0 | 100 | 117 | 70 | 130 |
| Di-n-butylphthalate | 1 | 115.1646 | 0 | 100 | 115 | 70 | 130 |
| Fluoranthene | 1 | 116.822 | 0 | 100 | 117 | 70 | 130 |
| Pyrene | 1 | 112.7365 | 0 | 100 | 113 | 70 | 130 |
| Benzidine | 1 | 0 | 0 | 100 | 0 | 0 | 134 |
| Butylbenzylphthalate | 1 | 118.9394 | 0 | 100 | 119 | 50 | 130 |
| 3,3'-Dichlorobenzidine | 1 | 4.9235 | 0 | 100 | 4.9 | 1 | 150 |
| Benzo[a]anthracene | 1 | 104.508 | 0 | 100 | 105 | 70 | 130 |
| Chrysene | 1 | 117.5881 | 0 | 100 | 118 | 50 | 130 |
| bis(2-Ethylhexyl)phthalate | 1 | 126.4747 | 0 | 100 | 126 | 70 | 130 |
| Di-n-octylphthalate | 1 | 124.662 | 0 | 100 | 125 | 70 | 130 |
| Benzo[b]fluoranthene | 1 | 122.9832 | 0 | 100 | 123 | 70 | 130 |
| Benzo[k]fluoranthene | 1 | 123.9504 | 0 | 100 | 124 | 70 | 130 |
| Benzo[a]pyrene | 1 | 117.6606 | 0 | 100 | 118 | 70 | 130 |
| Indeno[1,2,3-cd]pyrene | 1 | 123.6588 | 0 | 100 | 124 | 70 | 130 |
| Dibenzo[a,h]anthracene | 1 | 123.6339 | 0 | 100 | 124 | 70 | 130 |
| Benzo[g,h,i]perylene | 1 | 120.3146 | 0 | 100 | 120 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94984

| Data File | Sample ID: | Analysis Date |
|---|---|---|
| Spike or Dup: 5M117938.D | WMB94984(MS) | 9/21/2021 3:14:00 PM |
| Non Spike(If applicable): | | |
| Inst Blank(If applicable): | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 69.8706 | 0 | 100 | 70 | 20 | 160 |
| Pyridine | 1 | 27.1862 | 0 | 100 | 27 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 64.0277 | 0 | 100 | 64 | 50 | 150 |
| Benzaldehyde | 1 | 58.4368 | 0 | 100 | 58 | 20 | 220 |
| Aniline | 1 | 59.935 | 0 | 100 | 60 | 20 | 150 |
| Pentachloroethane | 1 | 91.3893 | 0 | 100 | 91 | 50 | 130 |
| bis(2-Chloroethyl)ether | 1 | 87.3277 | 0 | 100 | 87 | 50 | 130 |
| Phenol | 1 | 46.17 | 0 | 100 | 46 | 20 | 150 |
| 2-Chlorophenol | 1 | 95.6433 | 0 | 100 | 96 | 70 | 130 |
| N-Decane | 1 | 88.2289 | 0 | 100 | 88 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 82.8003 | 0 | 100 | 83 | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 81.42 | 0 | 100 | 81 | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 79.8838 | 0 | 100 | 80 | 50 | 130 |
| Benzyl alcohol | 1 | 91.3254 | 0 | 100 | 91 | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 73.8357 | 0 | 100 | 74 | 40 | 130 |
| 2-Methylphenol | 1 | 85.4563 | 0 | 100 | 85 | 60 | 130 |
| Acetophenone | 1 | 93.3169 | 0 | 100 | 93 | 50 | 130 |
| Hexachloroethane | 1 | 81.2428 | 0 | 100 | 81 | 50 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 86.0622 | 0 | 100 | 86 | 50 | 130 |
| 3&4-Methylphenol | 1 | 82.5937 | 0 | 100 | 83 | 50 | 130 |
| Nitrobenzene | 1 | 88.9564 | 0 | 100 | 89 | 70 | 130 |
| Isophorone | 1 | 86.3814 | 0 | 100 | 86 | 70 | 130 |
| 2-Nitrophenol | 1 | 100.7704 | 0 | 100 | 101 | 70 | 130 |
| 2,4-Dimethylphenol | 1 | 99.9393 | 0 | 100 | 100 | 40 | 130 |
| Benzoic Acid | 1 | 66.5825 | 0 | 100 | 67 | 20 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 88.711 | 0 | 100 | 89 | 70 | 130 |
| 2,4-Dichlorophenol | 1 | 100.4481 | 0 | 100 | 100 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 87.3876 | 0 | 100 | 87 | 50 | 130 |
| Naphthalene | 1 | 81.9094 | 0 | 100 | 82 | 70 | 130 |
| 4-Chloroaniline | 1 | 102.1463 | 0 | 100 | 102 | 50 | 150 |
| Hexachlorobutadiene | 1 | 85.7505 | 0 | 100 | 86 | 70 | 130 |
| Caprolactam | 1 | 46.316 | 0 | 100 | 46 | 20 | 130 |
| 4-Chloro-3-methylphenol | 1 | 105.4844 | 0 | 100 | 105 | 70 | 130 |
| 2-Methylnaphthalene | 1 | 91.3856 | 0 | 100 | 91 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 102.2785 | 0 | 100 | 102 | 70 | 130 |
| 1,1'-Biphenyl | 1 | 99.7028 | 0 | 100 | 100 | 70 | 130 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 98.6651 | 0 | 100 | 99 | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 99.473 | 0 | 100 | 99 | 20 | 130 |
| 2,4,6-Trichlorophenol | 1 | 108.7166 | 0 | 100 | 109 | 70 | 130 |
| 2,4,5-Trichlorophenol | 1 | 110.9652 | 0 | 100 | 111 | 70 | 130 |
| 2-Chloronaphthalene | 1 | 91.2617 | 0 | 100 | 91 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 97.3464 | 0 | 100 | 97 | 70 | 130 |
| Diphenyl Ether | 1 | 99.3904 | 0 | 100 | 99 | 70 | 130 |
| 2-Nitroaniline | 1 | 108.383 | 0 | 100 | 108 | 50 | 150 |
| Coumarin | 1 | 108.2652 | 0 | 100 | 108 | 70 | 130 |
| Acenaphthylene | 1 | 93.985 | 0 | 100 | 94 | 70 | 130 |
| Dimethylphthalate | 1 | 94.5362 | 0 | 100 | 95 | 70 | 130 |
| 2,6-Dinitrotoluene | 1 | 95.7777 | 0 | 100 | 96 | 70 | 130 |
| Acenaphthene | 1 | 92.4988 | 0 | 100 | 92 | 70 | 130 |
| 3-Nitroaniline | 1 | 113.7721 | 0 | 100 | 114 | 50 | 150 |
| 2,4-Dinitrophenol | 1 | 107.5823 | 0 | 100 | 108 | 20 | 150 |
| Dibenzofuran | 1 | 98.9736 | 0 | 100 | 99 | 70 | 130 |
| 2,4-Dinitrotoluene | 1 | 91.2631 | 0 | 100 | 91 | 40 | 130 |
| 4-Nitrophenol | 1 | 55.1357 | 0 | 100 | 55 | 20 | 150 |
| 2,3,4,6-Tetrachlorophenol | 1 | 104.4725 | 0 | 100 | 104 | 70 | 130 |
| Fluorene | 1 | 92.7173 | 0 | 100 | 93 | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 95.1718 | 0 | 100 | 95 | 70 | 130 |
| Diethylphthalate | 1 | 97.6789 | 0 | 100 | 98 | 50 | 130 |
| 4-Nitroaniline | 1 | 114.5823 | 0 | 100 | 115 | 50 | 150 |
| Atrazine | 1 | 80.29 | 0 | 100 | 80 | 50 | 130 |
| 4,6-Dinitro-2-methylphenol | 1 | 111.8624 | 0 | 100 | 112 | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94984

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **n-Nitrosodiphenylamine** | **1** | **79.8539** | **0** | **100** | **80** | **50** | **130** |
| 1,2-Diphenylhydrazine | 1 | 91.4427 | 0 | 100 | 91 | 70 | 130 |
| **4-Bromophenyl-phenylether** | **1** | **99.3235** | **0** | **100** | **99** | **70** | **130** |
| **Hexachlorobenzene** | **1** | **92.0703** | **0** | **100** | **92** | **70** | **130** |
| N-Octadecane | 1 | 109.7069 | 0 | 100 | 110 | 70 | 130 |
| **Pentachlorophenol** | **1** | **120.3175** | **0** | **100** | **120** | **40** | **130** |
| **Phenanthrene** | **1** | **95.4797** | **0** | **100** | **95** | **70** | **130** |
| **Anthracene** | **1** | **93.1724** | **0** | **100** | **93** | **70** | **130** |
| **Carbazole** | **1** | **108.1004** | **0** | **100** | **108** | **70** | **130** |
| **Di-n-butylphthalate** | **1** | **98.0593** | **0** | **100** | **98** | **70** | **130** |
| **Fluoranthene** | **1** | **99.3564** | **0** | **100** | **99** | **70** | **130** |
| **Pyrene** | **1** | **92.6039** | **0** | **100** | **93** | **70** | **130** |
| Benzidine | 1 | 6.8353 | 0 | 100 | 6.8 | 0 | 134 |
| **Butylbenzylphthalate** | **1** | **97.2484** | **0** | **100** | **97** | **50** | **130** |
| **3,3'-Dichlorobenzidine** | **1** | **94.8071** | **0** | **100** | **95** | **1** | **150** |
| **Benzo[a]anthracene** | **1** | **91.2925** | **0** | **100** | **91** | **70** | **130** |
| **Chrysene** | **1** | **95.7967** | **0** | **100** | **96** | **50** | **130** |
| **bis(2-Ethylhexyl)phthalate** | **1** | **99.2998** | **0** | **100** | **99** | **70** | **130** |
| **Di-n-octylphthalate** | **1** | **103.2518** | **0** | **100** | **103** | **70** | **130** |
| **Benzo[b]fluoranthene** | **1** | **102.4002** | **0** | **100** | **102** | **70** | **130** |
| **Benzo[k]fluoranthene** | **1** | **99.4923** | **0** | **100** | **99** | **70** | **130** |
| **Benzo[a]pyrene** | **1** | **99.5191** | **0** | **100** | **100** | **70** | **130** |
| **Indeno[1,2,3-cd]pyrene** | **1** | **99.7275** | **0** | **100** | **100** | **70** | **130** |
| **Dibenzo[a,h]anthracene** | **1** | **99.9662** | **0** | **100** | **100** | **70** | **130** |
| **Benzo[g,h,i]perylene** | **1** | **97.7774** | **0** | **100** | **98** | **70** | **130** |

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Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
QC Batch: WMB94959

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87401.D | AD26083-042(MS:AD26083-040 | 9/20/2021 11:29:00 PM |
| Non Spike(If applicable): | 10M87396.D | AD26083-040 | 9/20/2021 9:39:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 122.1371 | 31.3481 | 100 | 91 | 20 | 160 |
| Pyridine | 1 | 68.2759 | 0 | 100 | 68 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 70.8688 | 0 | 100 | 71 | 50 | 150 |
| Benzaldehyde | 1 | 43.6297 | 0 | 100 | 44 | 20 | 220 |
| Aniline | 1 | 55.497 | 0 | 100 | 55 | 20 | 150 |
| Pentachloroethane | 1 | 96.8949 | 0 | 100 | 97 | 50 | 130 |
| bis(2-Chloroethyl)ether | 1 | 89.0652 | 0 | 100 | 89 | 50 | 130 |
| Phenol | 1 | 50.7525 | 0 | 100 | 51 | 20 | 150 |
| 2-Chlorophenol | 1 | 102.8968 | 0 | 100 | 103 | 70 | 130 |
| N-Decane | 1 | 93.7741 | 0 | 100 | 94 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 16.1865 | 0 | 100 | 16* | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 18.9158 | 0 | 100 | 19* | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 22.7166 | 0 | 100 | 23* | 50 | 130 |
| Benzyl alcohol | 1 | 101.914 | 0 | 100 | 102 | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 63.256 | 0 | 100 | 63 | 40 | 130 |
| 2-Methylphenol | 1 | 99.462 | 0 | 100 | 99 | 60 | 130 |
| Acetophenone | 1 | 109.31 | 0 | 100 | 109 | 50 | 130 |
| Hexachloroethane | 1 | 17.5613 | 0 | 100 | 18* | 50 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 101.6043 | 0 | 100 | 102 | 50 | 130 |
| 3&4-Methylphenol | 1 | 98.5993 | 0 | 100 | 99 | 50 | 130 |
| Nitrobenzene | 1 | 94.9255 | 0 | 100 | 95 | 70 | 130 |
| Isophorone | 1 | 102.5118 | 0 | 100 | 103 | 70 | 130 |
| 2-Nitrophenol | 1 | 119.5034 | 0 | 100 | 120 | 70 | 130 |
| 2,4-Dimethylphenol | 1 | 125.4376 | 0 | 100 | 125 | 40 | 130 |
| Benzoic Acid | 1 | 105.2644 | 0 | 100 | 105 | 20 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 108.8701 | 0 | 100 | 109 | 70 | 130 |
| 2,4-Dichlorophenol | 1 | 114.347 | 0 | 100 | 114 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 69.6812 | 0 | 100 | 70 | 50 | 130 |
| Naphthalene | 1 | 72.5472 | 0 | 100 | 73 | 70 | 130 |
| 4-Chloroaniline | 1 | 77.9894 | 0 | 100 | 78 | 50 | 150 |
| Hexachlorobutadiene | 1 | 50.4146 | 0 | 100 | 50* | 70 | 130 |
| Caprolactam | 1 | 53.4322 | 0 | 100 | 53 | 20 | 130 |
| 4-Chloro-3-methylphenol | 1 | 127.3 | 0 | 100 | 127 | 70 | 130 |
| 2-Methylnaphthalene | 1 | 108.3978 | 0 | 100 | 108 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 122.0339 | 0 | 100 | 122 | 70 | 130 |
| 1,1'-Biphenyl | 1 | 117.2819 | 0 | 100 | 117 | 70 | 130 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 113.6919 | 0 | 100 | 114 | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 84.3011 | 0 | 100 | 84 | 20 | 130 |
| 2,4,6-Trichlorophenol | 1 | 128.131 | 0 | 100 | 128 | 70 | 130 |
| 2,4,5-Trichlorophenol | 1 | 129.0656 | 0 | 100 | 129 | 70 | 130 |
| 2-Chloronaphthalene | 1 | 103.5735 | 0 | 100 | 104 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 111.9776 | 0 | 100 | 112 | 70 | 130 |
| Diphenyl Ether | 1 | 116.3025 | 0 | 100 | 116 | 70 | 130 |
| 2-Nitroaniline | 1 | 123.2156 | 0 | 100 | 123 | 50 | 150 |
| Coumarin | 1 | 126.7898 | 0 | 100 | 127 | 70 | 130 |
| Acenaphthylene | 1 | 108.8358 | 0 | 100 | 109 | 70 | 130 |
| Dimethylphthalate | 1 | 112.8253 | 0 | 100 | 113 | 70 | 130 |
| 2,6-Dinitrotoluene | 1 | 112.6341 | 0 | 100 | 113 | 70 | 130 |
| Acenaphthene | 1 | 106.4357 | 0 | 100 | 106 | 70 | 130 |
| 3-Nitroaniline | 1 | 85.6423 | 0 | 100 | 86 | 50 | 150 |
| 2,4-Dinitrophenol | 1 | 98.2502 | 0 | 100 | 98 | 20 | 150 |
| Dibenzofuran | 1 | 113.6644 | 0 | 100 | 114 | 70 | 130 |
| 2,4-Dinitrotoluene | 1 | 108.7178 | 0 | 100 | 109 | 40 | 130 |
| 4-Nitrophenol | 1 | 59.564 | 0 | 100 | 60 | 20 | 150 |
| 2,3,4,6-Tetrachlorophenol | 1 | 121.7759 | 0 | 100 | 122 | 70 | 130 |
| Fluorene | 1 | 108.4533 | 0 | 100 | 108 | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 111.2589 | 0 | 100 | 111 | 70 | 130 |
| Diethylphthalate | 1 | 112.2284 | 0 | 100 | 112 | 50 | 130 |
| 4-Nitroaniline | 1 | 92.1752 | 0 | 100 | 92 | 50 | 150 |
| Atrazine | 1 | 72.0013 | 0 | 100 | 72 | 50 | 130 |
| 4,6-Dinitro-2-methylphenol | 1 | 104.7671 | 0 | 100 | 105 | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94959

| Method: 8270E | Matrix: Aqueous | | Units: ug/L | QC Type: MS | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| **n-Nitrosodiphenylamine** | 1 | 95.026 | 0 | 100 | 95 | 50 | 130 |
| 1,2-Diphenylhydrazine | 1 | 117.844 | 0 | 100 | 118 | 70 | 130 |
| **4-Bromophenyl-phenylether** | 1 | 115.6384 | 0 | 100 | 116 | 70 | 130 |
| **Hexachlorobenzene** | 1 | 109.4281 | 0 | 100 | 109 | 70 | 130 |
| N-Octadecane | 1 | 125.6133 | 0 | 100 | 126 | 70 | 130 |
| **Pentachlorophenol** | 1 | 154.4478 | 0 | 100 | 154* | 40 | 130 |
| **Phenanthrene** | 1 | 113.3525 | 0 | 100 | 113 | 70 | 130 |
| **Anthracene** | 1 | 112.3591 | 0 | 100 | 112 | 70 | 130 |
| **Carbazole** | 1 | 121.5498 | 0 | 100 | 122 | 70 | 130 |
| **Di-n-butylphthalate** | 1 | 115.4422 | 0 | 100 | 115 | 70 | 130 |
| **Fluoranthene** | 1 | 114.3512 | 0 | 100 | 114 | 70 | 130 |
| **Pyrene** | 1 | 114.3604 | 0 | 100 | 114 | 70 | 130 |
| Benzidine | 1 | 0 | 0 | 100 | 0 | 0 | 134 |
| **Butylbenzylphthalate** | 1 | 119.3268 | 0 | 100 | 119 | 50 | 130 |
| **3,3'-Dichlorobenzidine** | 1 | 0 | 0 | 100 | 0* | 1 | 150 |
| **Benzo[a]anthracene** | 1 | 107.8353 | 0 | 100 | 108 | 70 | 130 |
| **Chrysene** | 1 | 115.9138 | 0 | 100 | 116 | 50 | 130 |
| **bis(2-Ethylhexyl)phthalate** | 1 | 128.0431 | 0 | 100 | 128 | 70 | 130 |
| **Di-n-octylphthalate** | 1 | 126.6224 | 0 | 100 | 127 | 70 | 130 |
| **Benzo[b]fluoranthene** | 1 | 124.9713 | 0 | 100 | 125 | 70 | 130 |
| **Benzo[k]fluoranthene** | 1 | 117.8013 | 0 | 100 | 118 | 70 | 130 |
| **Benzo[a]pyrene** | 1 | 116.6767 | 0 | 100 | 117 | 70 | 130 |
| **Indeno[1,2,3-cd]pyrene** | 1 | 119.0256 | 0 | 100 | 119 | 70 | 130 |
| **Dibenzo[a,h]anthracene** | 1 | 118.3377 | 0 | 100 | 118 | 70 | 130 |
| **Benzo[g,h,i]perylene** | 1 | 115.8156 | 0 | 100 | 116 | 70 | 130 |

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Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94959

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87402.D | AD26083-044(MSD:AD26083-0 | 9/20/2021 11:51:00 PM |
| Non Spike(If applicable): | 10M87396.D | AD26083-040 | 9/20/2021 9:39:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E  Matrix: Aqueous  Units: ug/L  QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 115.729 | 31.3481 | 100 | 84 | 20 | 160 |
| Pyridine | 1 | 73.9737 | 0 | 100 | 74 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 63.407 | 0 | 100 | 63 | 50 | 150 |
| Benzaldehyde | 1 | 51.8081 | 0 | 100 | 52 | 20 | 220 |
| Aniline | 1 | 74.369 | 0 | 100 | 74 | 20 | 150 |
| Pentachloroethane | 1 | 93.4788 | 0 | 100 | 93 | 50 | 130 |
| bis(2-Chloroethyl)ether | 1 | 82.223 | 0 | 100 | 82 | 50 | 130 |
| Phenol | 1 | 50.6473 | 0 | 100 | 51 | 20 | 150 |
| 2-Chlorophenol | 1 | 100.1794 | 0 | 100 | 100 | 70 | 130 |
| N-Decane | 1 | 87.3146 | 0 | 100 | 87 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 17.2929 | 0 | 100 | 17* | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 20.0394 | 0 | 100 | 20* | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 22.846 | 0 | 100 | 23* | 50 | 130 |
| Benzyl alcohol | 1 | 97.9924 | 0 | 100 | 98 | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 59.4119 | 0 | 100 | 59 | 40 | 130 |
| 2-Methylphenol | 1 | 96.6824 | 0 | 100 | 97 | 60 | 130 |
| Acetophenone | 1 | 107.8972 | 0 | 100 | 108 | 50 | 130 |
| Hexachloroethane | 1 | 18.7192 | 0 | 100 | 19* | 50 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 99.5022 | 0 | 100 | 100 | 50 | 130 |
| 3&4-Methylphenol | 1 | 96.7308 | 0 | 100 | 97 | 50 | 130 |
| Nitrobenzene | 1 | 90.6854 | 0 | 100 | 91 | 70 | 130 |
| Isophorone | 1 | 100.1836 | 0 | 100 | 100 | 70 | 130 |
| 2-Nitrophenol | 1 | 118.5647 | 0 | 100 | 119 | 70 | 130 |
| 2,4-Dimethylphenol | 1 | 126.0558 | 0 | 100 | 126 | 40 | 130 |
| Benzoic Acid | 1 | 41.3583 | 0 | 100 | 41 | 20 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 104.9599 | 0 | 100 | 105 | 70 | 130 |
| 2,4-Dichlorophenol | 1 | 113.3154 | 0 | 100 | 113 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 67.8408 | 0 | 100 | 68 | 50 | 130 |
| Naphthalene | 1 | 71.9426 | 0 | 100 | 72 | 70 | 130 |
| 4-Chloroaniline | 1 | 92.4182 | 0 | 100 | 92 | 50 | 150 |
| Hexachlorobutadiene | 1 | 49.9824 | 0 | 100 | 50* | 70 | 130 |
| Caprolactam | 1 | 53.3813 | 0 | 100 | 53 | 20 | 130 |
| 4-Chloro-3-methylphenol | 1 | 125.5062 | 0 | 100 | 126 | 70 | 130 |
| 2-Methylnaphthalene | 1 | 107.0869 | 0 | 100 | 107 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 123.0337 | 0 | 100 | 123 | 70 | 130 |
| 1,1'-Biphenyl | 1 | 116.9076 | 0 | 100 | 117 | 70 | 130 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 115.2837 | 0 | 100 | 115 | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 80.4319 | 0 | 100 | 80 | 20 | 130 |
| 2,4,6-Trichlorophenol | 1 | 129.5356 | 0 | 100 | 130 | 70 | 130 |
| 2,4,5-Trichlorophenol | 1 | 124.6454 | 0 | 100 | 125 | 70 | 130 |
| 2-Chloronaphthalene | 1 | 104.4805 | 0 | 100 | 104 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 116.9314 | 0 | 100 | 117 | 70 | 130 |
| Diphenyl Ether | 1 | 118.8679 | 0 | 100 | 119 | 70 | 130 |
| 2-Nitroaniline | 1 | 124.1388 | 0 | 100 | 124 | 50 | 150 |
| Coumarin | 1 | 128.6166 | 0 | 100 | 129 | 70 | 130 |
| Acenaphthylene | 1 | 109.3323 | 0 | 100 | 109 | 70 | 130 |
| Dimethylphthalate | 1 | 112.7048 | 0 | 100 | 113 | 70 | 130 |
| 2,6-Dinitrotoluene | 1 | 116.9826 | 0 | 100 | 117 | 70 | 130 |
| Acenaphthene | 1 | 107.7684 | 0 | 100 | 108 | 70 | 130 |
| 3-Nitroaniline | 1 | 98.1659 | 0 | 100 | 98 | 50 | 150 |
| 2,4-Dinitrophenol | 1 | 41.0857 | 0 | 100 | 41 | 20 | 150 |
| Dibenzofuran | 1 | 114.512 | 0 | 100 | 115 | 70 | 130 |
| 2,4-Dinitrotoluene | 1 | 108.0516 | 0 | 100 | 108 | 40 | 130 |
| 4-Nitrophenol | 1 | 55.8687 | 0 | 100 | 56 | 20 | 150 |
| 2,3,4,6-Tetrachlorophenol | 1 | 108.3421 | 0 | 100 | 108 | 70 | 130 |
| Fluorene | 1 | 108.6492 | 0 | 100 | 109 | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 112.1692 | 0 | 100 | 112 | 70 | 130 |
| Diethylphthalate | 1 | 113.0668 | 0 | 100 | 113 | 50 | 130 |
| 4-Nitroaniline | 1 | 103.7332 | 0 | 100 | 104 | 50 | 150 |
| Atrazine | 1 | 88.3462 | 0 | 100 | 88 | 50 | 130 |
| 4,6-Dinitro-2-methylphenol | 1 | 72.1954 | 0 | 100 | 72 | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **n-Nitrosodiphenylamine** | **1** | **93.9788** | **0** | **100** | **94** | **50** | **130** |
| 1,2-Diphenylhydrazine | 1 | 117.0329 | 0 | 100 | 117 | 70 | 130 |
| **4-Bromophenyl-phenylether** | **1** | **115.1649** | **0** | **100** | **115** | **70** | **130** |
| **Hexachlorobenzene** | **1** | **108.2061** | **0** | **100** | **108** | **70** | **130** |
| N-Octadecane | 1 | 126.5053 | 0 | 100 | 127 | 70 | 130 |
| **Pentachlorophenol** | **1** | **119.5243** | **0** | **100** | **120** | **40** | **130** |
| **Phenanthrene** | **1** | **111.6203** | **0** | **100** | **112** | **70** | **130** |
| **Anthracene** | **1** | **111.7785** | **0** | **100** | **112** | **70** | **130** |
| **Carbazole** | **1** | **121.5774** | **0** | **100** | **122** | **70** | **130** |
| **Di-n-butylphthalate** | **1** | **114.932** | **0** | **100** | **115** | **70** | **130** |
| **Fluoranthene** | **1** | **114.8603** | **0** | **100** | **115** | **70** | **130** |
| **Pyrene** | **1** | **110.8625** | **0** | **100** | **111** | **70** | **130** |
| Benzidine | 1 | 0 | 0 | 100 | 0 | 0 | 134 |
| **Butylbenzylphthalate** | **1** | **117.8818** | **0** | **100** | **118** | **50** | **130** |
| **3,3'-Dichlorobenzidine** | **1** | **2.9362** | **0** | **100** | **2.9** | **1** | **150** |
| **Benzo[a]anthracene** | **1** | **102.6532** | **0** | **100** | **103** | **70** | **130** |
| **Chrysene** | **1** | **112.942** | **0** | **100** | **113** | **50** | **130** |
| **bis(2-Ethylhexyl)phthalate** | **1** | **124.151** | **0** | **100** | **124** | **70** | **130** |
| **Di-n-octylphthalate** | **1** | **123.5363** | **0** | **100** | **124** | **70** | **130** |
| **Benzo[b]fluoranthene** | **1** | **123.2372** | **0** | **100** | **123** | **70** | **130** |
| **Benzo[k]fluoranthene** | **1** | **112.1671** | **0** | **100** | **112** | **70** | **130** |
| **Benzo[a]pyrene** | **1** | **114.8853** | **0** | **100** | **115** | **70** | **130** |
| **Indeno[1,2,3-cd]pyrene** | **1** | **117.7173** | **0** | **100** | **118** | **70** | **130** |
| **Dibenzo[a,h]anthracene** | **1** | **115.4169** | **0** | **100** | **115** | **70** | **130** |
| **Benzo[g,h,i]perylene** | **1** | **114.3478** | **0** | **100** | **114** | **70** | **130** |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: WMB94959

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87402.D | AD26083-044(MSD:AD26083-0 | 9/20/2021 11:51:00 PM |
| Duplicate(If applicable): | 10M87401.D | AD26083-042(MS:AD26083-040 | 9/20/2021 11:29:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| **1,4-Dioxane** | 1 | 115.729 | 122.1371 | 5.4 | 20 |
| Pyridine | 1 | 73.9737 | 68.2759 | 8 | 40 |
| N-Nitrosodimethylamine | 1 | 63.407 | 70.8688 | 11 | 20 |
| **Benzaldehyde** | 1 | 51.8081 | 43.6297 | 17 | 20 |
| Aniline | 1 | 74.369 | 55.497 | 29* | 20 |
| Pentachloroethane | 1 | 93.4788 | 96.8949 | 3.6 | 20 |
| **bis(2-Chloroethyl)ether** | 1 | 82.223 | 89.0652 | 8 | 20 |
| **Phenol** | 1 | 50.6473 | 50.7525 | 0.21 | 40 |
| **2-Chlorophenol** | 1 | 100.1794 | 102.8968 | 2.7 | 40 |
| N-Decane | 1 | 87.3146 | 93.7741 | 7.1 | 20 |
| 1,3-Dichlorobenzene | 1 | 17.2929 | 16.1865 | 6.6 | 20 |
| 1,4-Dichlorobenzene | 1 | 20.0394 | 18.9158 | 5.8 | 40 |
| 1,2-Dichlorobenzene | 1 | 22.846 | 22.7166 | 0.57 | 20 |
| Benzyl alcohol | 1 | 97.9924 | 101.914 | 3.9 | 20 |
| **bis(2-chloroisopropyl)ether** | 1 | 59.4119 | 63.256 | 6.3 | 20 |
| **2-Methylphenol** | 1 | 96.6824 | 99.462 | 2.8 | 40 |
| **Acetophenone** | 1 | 107.8972 | 109.31 | 1.3 | 20 |
| **Hexachloroethane** | 1 | 18.7192 | 17.5613 | 6.4 | 40 |
| **N-Nitroso-di-n-propylamine** | 1 | 99.5022 | 101.6043 | 2.1 | 40 |
| **3&4-Methylphenol** | 1 | 96.7308 | 98.5993 | 1.9 | 40 |
| **Nitrobenzene** | 1 | 90.6854 | 94.9255 | 4.6 | 40 |
| **Isophorone** | 1 | 100.1836 | 102.5118 | 2.3 | 20 |
| **2-Nitrophenol** | 1 | 118.5647 | 119.5034 | 0.79 | 20 |
| **2,4-Dimethylphenol** | 1 | 126.0558 | 125.4376 | 0.49 | 40 |
| Benzoic Acid | 1 | 41.3583 | 105.2644 | 87* | 20 |
| **bis(2-Chloroethoxy)methane** | 1 | 104.9599 | 108.8701 | 3.7 | 20 |
| **2,4-Dichlorophenol** | 1 | 113.3154 | 114.347 | 0.91 | 20 |
| 1,2,4-Trichlorobenzene | 1 | 67.8408 | 69.6812 | 2.7 | 40 |
| **Naphthalene** | 1 | 71.9426 | 72.5472 | 0.84 | 40 |
| **4-Chloroaniline** | 1 | 92.4182 | 77.9894 | 17 | 20 |
| **Hexachlorobutadiene** | 1 | 49.9824 | 50.4146 | 0.86 | 40 |
| **Caprolactam** | 1 | 53.3813 | 53.4322 | 0.1 | 20 |
| **4-Chloro-3-methylphenol** | 1 | 125.5062 | 127.3 | 1.4 | 40 |
| **2-Methylnaphthalene** | 1 | 107.0869 | 108.3978 | 1.2 | 20 |
| 1-Methylnaphthalene | 1 | 123.0337 | 122.0339 | 0.82 | 20 |
| **1,1'-Biphenyl** | 1 | 116.9076 | 117.2819 | 0.32 | 20 |
| **1,2,4,5-Tetrachlorobenzene** | 1 | 115.2837 | 113.6919 | 1.4 | 20 |
| **Hexachlorocyclopentadiene** | 1 | 80.4319 | 84.3011 | 4.7 | 20 |
| **2,4,6-Trichlorophenol** | 1 | 129.5356 | 128.131 | 1.1 | 40 |
| **2,4,5-Trichlorophenol** | 1 | 124.6454 | 129.0656 | 3.5 | 40 |
| **2-Chloronaphthalene** | 1 | 104.4805 | 103.5735 | 0.87 | 20 |
| 1,4-Dimethylnaphthalene | 1 | 116.9314 | 111.9776 | 4.3 | 20 |
| Diphenyl Ether | 1 | 118.8679 | 116.3025 | 2.2 | 20 |
| **2-Nitroaniline** | 1 | 124.1388 | 123.2156 | 0.75 | 20 |
| Coumarin | 1 | 128.6166 | 126.7898 | 1.4 | 20 |
| **Acenaphthylene** | 1 | 109.3323 | 108.8358 | 0.46 | 20 |
| **Dimethylphthalate** | 1 | 112.7048 | 112.8253 | 0.11 | 20 |
| **2,6-Dinitrotoluene** | 1 | 116.9826 | 112.6341 | 3.8 | 20 |
| **Acenaphthene** | 1 | 107.7684 | 106.4357 | 1.2 | 40 |
| **3-Nitroaniline** | 1 | 98.1659 | 85.6423 | 14 | 20 |
| **2,4-Dinitrophenol** | 1 | 41.0857 | 98.2502 | 82* | 20 |
| **Dibenzofuran** | 1 | 114.512 | 113.6644 | 0.74 | 20 |
| **2,4-Dinitrotoluene** | 1 | 108.0516 | 108.7178 | 0.61 | 40 |
| **4-Nitrophenol** | 1 | 55.8687 | 59.564 | 6.4 | 40 |
| **2,3,4,6-Tetrachlorophenol** | 1 | 108.3421 | 121.7759 | 12 | 20 |
| **Fluorene** | 1 | 108.6492 | 108.4533 | 0.18 | 40 |
| **4-Chlorophenyl-phenylether** | 1 | 112.1692 | 111.2589 | 0.81 | 20 |
| **Diethylphthalate** | 1 | 113.0668 | 112.2284 | 0.74 | 20 |
| **4-Nitroaniline** | 1 | 103.7332 | 92.1752 | 12 | 20 |
| **Atrazine** | 1 | 88.3462 | 72.0013 | 20 | 20 |
| **4,6-Dinitro-2-methylphenol** | 1 | 72.1954 | 104.7671 | 37* | 20 |

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: WMB94959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| **n-Nitrosodiphenylamine** | **1** | **93.9788** | **95.026** | **1.1** | **20** |
| 1,2-Diphenylhydrazine | 1 | 117.0329 | 117.844 | 0.69 | 20 |
| **4-Bromophenyl-phenylether** | **1** | **115.1649** | **115.6384** | **0.41** | **20** |
| **Hexachlorobenzene** | **1** | **108.2061** | **109.4281** | **1.1** | **40** |
| N-Octadecane | 1 | 126.5053 | 125.6133 | 0.71 | 20 |
| **Pentachlorophenol** | **1** | **119.5243** | **154.4478** | **25** | **40** |
| **Phenanthrene** | **1** | **111.6203** | **113.3525** | **1.5** | **20** |
| **Anthracene** | **1** | **111.7785** | **112.3591** | **0.52** | **20** |
| **Carbazole** | **1** | **121.5774** | **121.5498** | **0.02** | **20** |
| **Di-n-butylphthalate** | **1** | **114.932** | **115.4422** | **0.44** | **20** |
| **Fluoranthene** | **1** | **114.8603** | **114.3512** | **0.44** | **20** |
| **Pyrene** | **1** | **110.8625** | **114.3604** | **3.1** | **40** |
| Benzidine | 1 | 0 | 0 | NA | 20 |
| **Butylbenzylphthalate** | **1** | **117.8818** | **119.3268** | **1.2** | **40** |
| **3,3'-Dichlorobenzidine** | **1** | **2.9362** | **0** | **200*** | **20** |
| **Benzo[a]anthracene** | **1** | **102.6532** | **107.8353** | **4.9** | **20** |
| **Chrysene** | **1** | **112.942** | **115.9138** | **2.6** | **20** |
| **bis(2-Ethylhexyl)phthalate** | **1** | **124.151** | **128.0431** | **3.1** | **20** |
| **Di-n-octylphthalate** | **1** | **123.5363** | **126.6224** | **2.5** | **20** |
| **Benzo[b]fluoranthene** | **1** | **123.2372** | **124.9713** | **1.4** | **20** |
| **Benzo[k]fluoranthene** | **1** | **112.1671** | **117.8013** | **4.9** | **20** |
| **Benzo[a]pyrene** | **1** | **114.8853** | **116.6767** | **1.5** | **20** |
| **Indeno[1,2,3-cd]pyrene** | **1** | **117.7173** | **119.0256** | **1.1** | **20** |
| **Dibenzo[a,h]anthracene** | **1** | **115.4169** | **118.3377** | **2.5** | **20** |
| **Benzo[g,h,i]perylene** | **1** | **114.3478** | **115.8156** | **1.3** | **20** |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94960

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87399.D | AD26083-049(MS:AD26083-048 | 9/20/2021 10:45:00 PM |
| Non Spike(If applicable): | 10M87398.D | AD26083-048 | 9/20/2021 10:23:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 39.3052 | 0 | 100 | 39 | 20 | 160 |
| Pyridine | 1 | 48.1104 | 0 | 100 | 48 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 42.5517 | 0 | 100 | 43* | 50 | 150 |
| Benzaldehyde | 1 | 32.0944 | 0 | 100 | 32 | 20 | 220 |
| Aniline | 1 | 67.481 | 0 | 100 | 67 | 20 | 150 |
| Pentachloroethane | 1 | 45.3628 | 0 | 100 | 45* | 50 | 130 |
| bis(2-Chloroethyl)ether | 1 | 51.1899 | 0 | 100 | 51 | 50 | 130 |
| Phenol | 1 | 30.3475 | 0 | 100 | 30 | 20 | 150 |
| 2-Chlorophenol | 1 | 50.427 | 0 | 100 | 50* | 70 | 130 |
| N-Decane | 1 | 44.8895 | 0 | 100 | 45 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 45.1801 | 0 | 100 | 45* | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 48.3422 | 0 | 100 | 48* | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 47.3923 | 0 | 100 | 47* | 50 | 130 |
| Benzyl alcohol | 1 | 60.4569 | 0 | 100 | 60* | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 45.2242 | 0 | 100 | 45 | 40 | 130 |
| 2-Methylphenol | 1 | 48.1925 | 0 | 100 | 48* | 60 | 130 |
| Acetophenone | 1 | 58.9389 | 0 | 100 | 59 | 50 | 130 |
| Hexachloroethane | 1 | 47.2661 | 0 | 100 | 47* | 50 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 55.015 | 0 | 100 | 55 | 50 | 130 |
| 3&4-Methylphenol | 1 | 49.3217 | 0 | 100 | 49* | 50 | 130 |
| Nitrobenzene | 1 | 55.4605 | 0 | 100 | 55* | 70 | 130 |
| Isophorone | 1 | 52.8885 | 0 | 100 | 53* | 70 | 130 |
| 2-Nitrophenol | 1 | 55.9432 | 0 | 100 | 56* | 70 | 130 |
| 2,4-Dimethylphenol | 1 | 58.8255 | 0 | 100 | 59 | 40 | 130 |
| Benzoic Acid | 1 | 0 | 0 | 100 | 0* | 20 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 55.7085 | 0 | 100 | 56* | 70 | 130 |
| 2,4-Dichlorophenol | 1 | 57.5514 | 0 | 100 | 58* | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 51.325 | 0 | 100 | 51 | 50 | 130 |
| Naphthalene | 1 | 48.7658 | 0 | 100 | 49* | 70 | 130 |
| 4-Chloroaniline | 1 | 80.8056 | 0 | 100 | 81 | 50 | 150 |
| Hexachlorobutadiene | 1 | 49.2396 | 0 | 100 | 49* | 70 | 130 |
| Caprolactam | 1 | 33.4894 | 0 | 100 | 33 | 20 | 130 |
| 4-Chloro-3-methylphenol | 1 | 60.8616 | 0 | 100 | 61* | 70 | 130 |
| 2-Methylnaphthalene | 1 | 54.9868 | 0 | 100 | 55* | 70 | 130 |
| 1-Methylnaphthalene | 1 | 61.7733 | 0 | 100 | 62* | 70 | 130 |
| 1,1'-Biphenyl | 1 | 59.1621 | 0 | 100 | 59* | 70 | 130 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 56.875 | 0 | 100 | 57* | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 47.3779 | 0 | 100 | 47 | 20 | 130 |
| 2,4,6-Trichlorophenol | 1 | 64.2983 | 0 | 100 | 64* | 70 | 130 |
| 2,4,5-Trichlorophenol | 1 | 64.6421 | 0 | 100 | 65* | 70 | 130 |
| 2-Chloronaphthalene | 1 | 55.4463 | 0 | 100 | 55* | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 59.3297 | 0 | 100 | 59* | 70 | 130 |
| Diphenyl Ether | 1 | 58.4491 | 0 | 100 | 58* | 70 | 130 |
| 2-Nitroaniline | 1 | 68.0774 | 0 | 100 | 68 | 50 | 150 |
| Coumarin | 1 | 67.4617 | 0 | 100 | 67* | 70 | 130 |
| Acenaphthylene | 1 | 57.6108 | 0 | 100 | 58* | 70 | 130 |
| Dimethylphthalate | 1 | 58.7189 | 0 | 100 | 59* | 70 | 130 |
| 2,6-Dinitrotoluene | 1 | 59.9903 | 0 | 100 | 60* | 70 | 130 |
| Acenaphthene | 1 | 55.7222 | 0 | 100 | 56* | 70 | 130 |
| 3-Nitroaniline | 1 | 82.3084 | 0 | 100 | 82 | 50 | 150 |
| 2,4-Dinitrophenol | 1 | 10.825 | 0 | 100 | 11* | 20 | 150 |
| Dibenzofuran | 1 | 59.4109 | 0 | 100 | 59* | 70 | 130 |
| 2,4-Dinitrotoluene | 1 | 56.258 | 0 | 100 | 56 | 40 | 130 |
| 4-Nitrophenol | 1 | 29.1554 | 0 | 100 | 29 | 20 | 150 |
| 2,3,4,6-Tetrachlorophenol | 1 | 57.5579 | 0 | 100 | 58* | 70 | 130 |
| Fluorene | 1 | 56.5904 | 0 | 100 | 57* | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 57.3141 | 0 | 100 | 57* | 70 | 130 |
| Diethylphthalate | 1 | 58.3407 | 0 | 100 | 58 | 50 | 130 |
| 4-Nitroaniline | 1 | 74.2976 | 0 | 100 | 74 | 50 | 150 |
| Atrazine | 1 | 35.1254 | 0 | 100 | 35* | 50 | 130 |
| 4,6-Dinitro-2-methylphenol | 1 | 26.161 | 0 | 100 | 26* | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94960

| Method: 8270E | Matrix: Aqueous | | Units: ug/L | QC Type: MS | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| **n-Nitrosodiphenylamine** | **1** | **49.7037** | **0** | **100** | **50** | **50** | **130** |
| 1,2-Diphenylhydrazine | 1 | 58.177 | 0 | 100 | 58* | 70 | 130 |
| **4-Bromophenyl-phenylether** | **1** | **59.0652** | **0** | **100** | **59*** | **70** | **130** |
| **Hexachlorobenzene** | **1** | **57.1898** | **0** | **100** | **57*** | **70** | **130** |
| N-Octadecane | 1 | 67.9052 | 0 | 100 | 68* | 70 | 130 |
| **Pentachlorophenol** | **1** | **62.9987** | **0** | **100** | **63** | **40** | **130** |
| **Phenanthrene** | **1** | **59.9697** | **0** | **100** | **60*** | **70** | **130** |
| **Anthracene** | **1** | **59.2901** | **0** | **100** | **59*** | **70** | **130** |
| **Carbazole** | **1** | **65.5338** | **0** | **100** | **66*** | **70** | **130** |
| **Di-n-butylphthalate** | **1** | **61.115** | **0** | **100** | **61*** | **70** | **130** |
| **Fluoranthene** | **1** | **61.0326** | **0** | **100** | **61*** | **70** | **130** |
| **Pyrene** | **1** | **58.8218** | **0** | **100** | **59*** | **70** | **130** |
| Benzidine | 1 | 11.8178 | 0 | 100 | 12 | 0 | 134 |
| **Butylbenzylphthalate** | **1** | **63.4194** | **0** | **100** | **63** | **50** | **130** |
| **3,3'-Dichlorobenzidine** | **1** | **50.9457** | **0** | **100** | **51** | **1** | **150** |
| **Benzo[a]anthracene** | **1** | **56.378** | **0** | **100** | **56*** | **70** | **130** |
| **Chrysene** | **1** | **61.1515** | **0** | **100** | **61** | **50** | **130** |
| **bis(2-Ethylhexyl)phthalate** | **1** | **65.7826** | **0** | **100** | **66*** | **70** | **130** |
| **Di-n-octylphthalate** | **1** | **64.9254** | **0** | **100** | **65*** | **70** | **130** |
| **Benzo[b]fluoranthene** | **1** | **66.0933** | **0** | **100** | **66*** | **70** | **130** |
| **Benzo[k]fluoranthene** | **1** | **64.6948** | **0** | **100** | **65*** | **70** | **130** |
| **Benzo[a]pyrene** | **1** | **61.7478** | **0** | **100** | **62*** | **70** | **130** |
| **Indeno[1,2,3-cd]pyrene** | **1** | **62.2055** | **0** | **100** | **62*** | **70** | **130** |
| **Dibenzo[a,h]anthracene** | **1** | **61.3203** | **0** | **100** | **61*** | **70** | **130** |
| **Benzo[g,h,i]perylene** | **1** | **60.3871** | **0** | **100** | **60*** | **70** | **130** |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94960

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87400.D | AD26083-050(MSD:AD26083-0 | 9/20/2021 11:07:00 PM |
| Non Spike(If applicable): | 10M87398.D | AD26083-048 | 9/20/2021 10:23:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **1,4-Dioxane** | 1 | 58.6097 | 0 | 100 | 59 | 20 | 160 |
| Pyridine | 1 | 66.8678 | 0 | 100 | 67 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 57.6528 | 0 | 100 | 58 | 50 | 150 |
| **Benzaldehyde** | 1 | 50.5797 | 0 | 100 | 51 | 20 | 220 |
| Aniline | 1 | 86.7053 | 0 | 100 | 87 | 20 | 150 |
| Pentachloroethane | 1 | 80.5717 | 0 | 100 | 81 | 50 | 130 |
| **bis(2-Chloroethyl)ether** | 1 | 80.2026 | 0 | 100 | 80 | 50 | 130 |
| **Phenol** | 1 | 43.6009 | 0 | 100 | 44 | 20 | 150 |
| **2-Chlorophenol** | 1 | 77.6034 | 0 | 100 | 78 | 70 | 130 |
| N-Decane | 1 | 80.8447 | 0 | 100 | 81 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 75.612 | 0 | 100 | 76 | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 81.1136 | 0 | 100 | 81 | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 78.997 | 0 | 100 | 79 | 50 | 130 |
| Benzyl alcohol | 1 | 87.0271 | 0 | 100 | 87 | 70 | 130 |
| **bis(2-chloroisopropyl)ether** | 1 | 73.4639 | 0 | 100 | 73 | 40 | 130 |
| **2-Methylphenol** | 1 | 72.2694 | 0 | 100 | 72 | 60 | 130 |
| **Acetophenone** | 1 | 92.9103 | 0 | 100 | 93 | 50 | 130 |
| **Hexachloroethane** | 1 | 79.184 | 0 | 100 | 79 | 50 | 130 |
| **N-Nitroso-di-n-propylamine** | 1 | 85.7693 | 0 | 100 | 86 | 50 | 130 |
| **3&4-Methylphenol** | 1 | 70.748 | 0 | 100 | 71 | 50 | 130 |
| **Nitrobenzene** | 1 | 86.6091 | 0 | 100 | 87 | 70 | 130 |
| **Isophorone** | 1 | 83.6333 | 0 | 100 | 84 | 70 | 130 |
| **2-Nitrophenol** | 1 | 90.351 | 0 | 100 | 90 | 70 | 130 |
| **2,4-Dimethylphenol** | 1 | 89.5837 | 0 | 100 | 90 | 40 | 130 |
| Benzoic Acid | 1 | 49.5742 | 0 | 100 | 50 | 20 | 130 |
| **bis(2-Chloroethoxy)methane** | 1 | 87.9898 | 0 | 100 | 88 | 70 | 130 |
| **2,4-Dichlorophenol** | 1 | 86.7391 | 0 | 100 | 87 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 84.2899 | 0 | 100 | 84 | 50 | 130 |
| **Naphthalene** | 1 | 83.9696 | 0 | 100 | 84 | 70 | 130 |
| **4-Chloroaniline** | 1 | 101.5341 | 0 | 100 | 102 | 50 | 150 |
| **Hexachlorobutadiene** | 1 | 82.5706 | 0 | 100 | 83 | 70 | 130 |
| **Caprolactam** | 1 | 43.1791 | 0 | 100 | 43 | 20 | 130 |
| **4-Chloro-3-methylphenol** | 1 | 90.8752 | 0 | 100 | 91 | 70 | 130 |
| **2-Methylnaphthalene** | 1 | 91.8959 | 0 | 100 | 92 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 102.9591 | 0 | 100 | 103 | 70 | 130 |
| **1,1'-Biphenyl** | 1 | 96.4092 | 0 | 100 | 96 | 70 | 130 |
| **1,2,4,5-Tetrachlorobenzene** | 1 | 94.6103 | 0 | 100 | 95 | 70 | 130 |
| **Hexachlorocyclopentadiene** | 1 | 84.0021 | 0 | 100 | 84 | 20 | 130 |
| **2,4,6-Trichlorophenol** | 1 | 100.3236 | 0 | 100 | 100 | 70 | 130 |
| **2,4,5-Trichlorophenol** | 1 | 100.4897 | 0 | 100 | 100 | 70 | 130 |
| **2-Chloronaphthalene** | 1 | 89.1793 | 0 | 100 | 89 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 95.8132 | 0 | 100 | 96 | 70 | 130 |
| Diphenyl Ether | 1 | 97.838 | 0 | 100 | 98 | 70 | 130 |
| **2-Nitroaniline** | 1 | 107.4304 | 0 | 100 | 107 | 50 | 150 |
| Coumarin | 1 | 104.566 | 0 | 100 | 105 | 70 | 130 |
| **Acenaphthylene** | 1 | 91.5266 | 0 | 100 | 92 | 70 | 130 |
| **Dimethylphthalate** | 1 | 92.4242 | 0 | 100 | 92 | 70 | 130 |
| **2,6-Dinitrotoluene** | 1 | 92.6636 | 0 | 100 | 93 | 70 | 130 |
| **Acenaphthene** | 1 | 89.771 | 0 | 100 | 90 | 70 | 130 |
| **3-Nitroaniline** | 1 | 105.7451 | 0 | 100 | 106 | 50 | 150 |
| **2,4-Dinitrophenol** | 1 | 50.8869 | 0 | 100 | 51 | 20 | 150 |
| **Dibenzofuran** | 1 | 96.9594 | 0 | 100 | 97 | 70 | 130 |
| **2,4-Dinitrotoluene** | 1 | 89.3293 | 0 | 100 | 89 | 40 | 130 |
| **4-Nitrophenol** | 1 | 44.8987 | 0 | 100 | 45 | 20 | 150 |
| **2,3,4,6-Tetrachlorophenol** | 1 | 90.9011 | 0 | 100 | 91 | 70 | 130 |
| **Fluorene** | 1 | 90.1351 | 0 | 100 | 90 | 70 | 130 |
| **4-Chlorophenyl-phenylether** | 1 | 94.4966 | 0 | 100 | 94 | 70 | 130 |
| **Diethylphthalate** | 1 | 91.8045 | 0 | 100 | 92 | 50 | 130 |
| **4-Nitroaniline** | 1 | 100.4627 | 0 | 100 | 100 | 50 | 150 |
| **Atrazine** | 1 | 75.7897 | 0 | 100 | 76 | 50 | 130 |
| **4,6-Dinitro-2-methylphenol** | 1 | 67.71 | 0 | 100 | 68 | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94960

| Method: 8270E | Matrix: Aqueous | | Units: ug/L | QC Type: MSD | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| n-Nitrosodiphenylamine | 1 | 78.5731 | 0 | 100 | 79 | 50 | 130 |
| 1,2-Diphenylhydrazine | 1 | 98.5227 | 0 | 100 | 99 | 70 | 130 |
| 4-Bromophenyl-phenylether | 1 | 94.764 | 0 | 100 | 95 | 70 | 130 |
| Hexachlorobenzene | 1 | 90.9991 | 0 | 100 | 91 | 70 | 130 |
| N-Octadecane | 1 | 107.3653 | 0 | 100 | 107 | 70 | 130 |
| Pentachlorophenol | 1 | 107.3475 | 0 | 100 | 107 | 40 | 130 |
| Phenanthrene | 1 | 93.6706 | 0 | 100 | 94 | 70 | 130 |
| Anthracene | 1 | 94.0542 | 0 | 100 | 94 | 70 | 130 |
| Carbazole | 1 | 104.8309 | 0 | 100 | 105 | 70 | 130 |
| Di-n-butylphthalate | 1 | 95.0596 | 0 | 100 | 95 | 70 | 130 |
| Fluoranthene | 1 | 95.9378 | 0 | 100 | 96 | 70 | 130 |
| Pyrene | 1 | 94.1011 | 0 | 100 | 94 | 70 | 130 |
| Benzidine | 1 | 8.6682 | 0 | 100 | 8.7 | 0 | 134 |
| Butylbenzylphthalate | 1 | 98.6574 | 0 | 100 | 99 | 50 | 130 |
| 3,3'-Dichlorobenzidine | 1 | 71.9908 | 0 | 100 | 72 | 1 | 150 |
| Benzo[a]anthracene | 1 | 87.0438 | 0 | 100 | 87 | 70 | 130 |
| Chrysene | 1 | 94.8746 | 0 | 100 | 95 | 50 | 130 |
| bis(2-Ethylhexyl)phthalate | 1 | 104.5188 | 0 | 100 | 105 | 70 | 130 |
| Di-n-octylphthalate | 1 | 101.0265 | 0 | 100 | 101 | 70 | 130 |
| Benzo[b]fluoranthene | 1 | 100.7009 | 0 | 100 | 101 | 70 | 130 |
| Benzo[k]fluoranthene | 1 | 96.9528 | 0 | 100 | 97 | 70 | 130 |
| Benzo[a]pyrene | 1 | 96.9516 | 0 | 100 | 97 | 70 | 130 |
| Indeno[1,2,3-cd]pyrene | 1 | 96.8587 | 0 | 100 | 97 | 70 | 130 |
| Dibenzo[a,h]anthracene | 1 | 97.397 | 0 | 100 | 97 | 70 | 130 |
| Benzo[g,h,i]perylene | 1 | 94.3631 | 0 | 100 | 94 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: WMB94960

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87400.D | AD26083-050(MSD:AD26083-0 | 9/20/2021 11:07:00 PM |
| Duplicate(If applicable): | 10M87399.D | AD26083-049(MS:AD26083-048 | 9/20/2021 10:45:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| **1,4-Dioxane** | 1 | **58.6097** | **39.3052** | **39*** | **20** |
| Pyridine | 1 | 66.8678 | 48.1104 | 33 | 40 |
| N-Nitrosodimethylamine | 1 | 57.6528 | 42.5517 | 30* | 20 |
| **Benzaldehyde** | 1 | **50.5797** | **32.0944** | **45*** | **20** |
| Aniline | 1 | 86.7053 | 67.481 | 25* | 20 |
| Pentachloroethane | 1 | 80.5717 | 45.3628 | 56* | 20 |
| **bis(2-Chloroethyl)ether** | 1 | **80.2026** | **51.1899** | **44*** | **20** |
| **Phenol** | 1 | **43.6009** | **30.3475** | **36** | **40** |
| **2-Chlorophenol** | 1 | **77.6034** | **50.427** | **42*** | **40** |
| N-Decane | 1 | 80.8447 | 44.8895 | 57* | 20 |
| 1,3-Dichlorobenzene | 1 | 75.612 | 45.1801 | 50* | 20 |
| 1,4-Dichlorobenzene | 1 | 81.1136 | 48.3422 | 51* | 40 |
| 1,2-Dichlorobenzene | 1 | 78.997 | 47.3923 | 50* | 20 |
| Benzyl alcohol | 1 | 87.0271 | 60.4569 | 36* | 20 |
| **bis(2-chloroisopropyl)ether** | 1 | **73.4639** | **45.2242** | **48*** | **20** |
| **2-Methylphenol** | 1 | **72.2694** | **48.1925** | **40** | **40** |
| **Acetophenone** | 1 | **92.9103** | **58.9389** | **45*** | **20** |
| **Hexachloroethane** | 1 | **79.184** | **47.2661** | **50*** | **40** |
| **N-Nitroso-di-n-propylamine** | 1 | **85.7693** | **55.015** | **44*** | **40** |
| **3&4-Methylphenol** | 1 | **70.748** | **49.3217** | **36** | **40** |
| **Nitrobenzene** | 1 | **86.6091** | **55.4605** | **44*** | **40** |
| **Isophorone** | 1 | **83.6333** | **52.8885** | **45*** | **20** |
| **2-Nitrophenol** | 1 | **90.351** | **55.9432** | **47*** | **20** |
| **2,4-Dimethylphenol** | 1 | **89.5837** | **58.8255** | **41*** | **40** |
| Benzoic Acid | 1 | 49.5742 | 0 | 200* | 20 |
| **bis(2-Chloroethoxy)methane** | 1 | **87.9898** | **55.7085** | **45*** | **20** |
| **2,4-Dichlorophenol** | 1 | **86.7391** | **57.5514** | **40*** | **20** |
| 1,2,4-Trichlorobenzene | 1 | 84.2899 | 51.325 | 49* | 40 |
| **Naphthalene** | 1 | **83.9696** | **48.7658** | **53*** | **40** |
| **4-Chloroaniline** | 1 | **101.5341** | **80.8056** | **23*** | **20** |
| **Hexachlorobutadiene** | 1 | **82.5706** | **49.2396** | **51*** | **40** |
| **Caprolactam** | 1 | **43.1791** | **33.4894** | **25*** | **20** |
| **4-Chloro-3-methylphenol** | 1 | **90.8752** | **60.8616** | **40** | **40** |
| **2-Methylnaphthalene** | 1 | **91.8959** | **54.9868** | **50*** | **20** |
| 1-Methylnaphthalene | 1 | 102.9591 | 61.7733 | 50* | 20 |
| **1,1'-Biphenyl** | 1 | **96.4092** | **59.1621** | **48*** | **20** |
| **1,2,4,5-Tetrachlorobenzene** | 1 | **94.6103** | **56.875** | **50*** | **20** |
| **Hexachlorocyclopentadiene** | 1 | **84.0021** | **47.3779** | **56*** | **20** |
| **2,4,6-Trichlorophenol** | 1 | **100.3236** | **64.2983** | **44*** | **40** |
| **2,4,5-Trichlorophenol** | 1 | **100.4897** | **64.6421** | **43*** | **40** |
| **2-Chloronaphthalene** | 1 | **89.1793** | **55.4463** | **47*** | **20** |
| 1,4-Dimethylnaphthalene | 1 | 95.8132 | 59.3297 | 47* | 20 |
| Diphenyl Ether | 1 | 97.838 | 58.4491 | 50* | 20 |
| **2-Nitroaniline** | 1 | **107.4304** | **68.0774** | **45*** | **20** |
| Coumarin | 1 | 104.566 | 67.4617 | 43* | 20 |
| **Acenaphthylene** | 1 | **91.5266** | **57.6108** | **45*** | **20** |
| **Dimethylphthalate** | 1 | **92.4242** | **58.7189** | **45*** | **20** |
| **2,6-Dinitrotoluene** | 1 | **92.6636** | **59.9903** | **43*** | **20** |
| **Acenaphthene** | 1 | **89.771** | **55.7222** | **47*** | **40** |
| **3-Nitroaniline** | 1 | **105.7451** | **82.3084** | **25*** | **20** |
| **2,4-Dinitrophenol** | 1 | **50.8869** | **10.825** | **130*** | **20** |
| **Dibenzofuran** | 1 | **96.9594** | **59.4109** | **48*** | **20** |
| **2,4-Dinitrotoluene** | 1 | **89.3293** | **56.258** | **45*** | **40** |
| **4-Nitrophenol** | 1 | **44.8987** | **29.1554** | **43*** | **40** |
| **2,3,4,6-Tetrachlorophenol** | 1 | **90.9011** | **57.5579** | **45*** | **20** |
| **Fluorene** | 1 | **90.1351** | **56.5904** | **46*** | **40** |
| **4-Chlorophenyl-phenylether** | 1 | **94.4966** | **57.3141** | **49*** | **20** |
| **Diethylphthalate** | 1 | **91.8045** | **58.3407** | **45*** | **20** |
| **4-Nitroaniline** | 1 | **100.4627** | **74.2976** | **30*** | **20** |
| **Atrazine** | 1 | **75.7897** | **35.1254** | **73*** | **20** |
| **4,6-Dinitro-2-methylphenol** | 1 | **67.71** | **26.161** | **89*** | **20** |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits

## QC Batch: WMB94960

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | 1 | 78.5731 | 49.7037 | 45* | 20 |
| 1,2-Diphenylhydrazine | 1 | 98.5227 | 58.177 | 51* | 20 |
| 4-Bromophenyl-phenylether | 1 | 94.764 | 59.0652 | 46* | 20 |
| Hexachlorobenzene | 1 | 90.9991 | 57.1898 | 46* | 40 |
| N-Octadecane | 1 | 107.3653 | 67.9052 | 45* | 20 |
| Pentachlorophenol | 1 | 107.3475 | 62.9987 | 52* | 40 |
| Phenanthrene | 1 | 93.6706 | 59.9697 | 44* | 20 |
| Anthracene | 1 | 94.0542 | 59.2901 | 45* | 20 |
| Carbazole | 1 | 104.8309 | 65.5338 | 46* | 20 |
| Di-n-butylphthalate | 1 | 95.0596 | 61.115 | 43* | 20 |
| Fluoranthene | 1 | 95.9378 | 61.0326 | 44* | 20 |
| Pyrene | 1 | 94.1011 | 58.8218 | 46* | 40 |
| Benzidine | 1 | 8.6682 | 11.8178 | 31* | 20 |
| Butylbenzylphthalate | 1 | 98.6574 | 63.4194 | 43* | 40 |
| 3,3'-Dichlorobenzidine | 1 | 71.9908 | 50.9457 | 34* | 20 |
| Benzo[a]anthracene | 1 | 87.0438 | 56.378 | 43* | 20 |
| Chrysene | 1 | 94.8746 | 61.1515 | 43* | 20 |
| bis(2-Ethylhexyl)phthalate | 1 | 104.5188 | 65.7826 | 45* | 20 |
| Di-n-octylphthalate | 1 | 101.0265 | 64.9254 | 44* | 20 |
| Benzo[b]fluoranthene | 1 | 100.7009 | 66.0933 | 41* | 20 |
| Benzo[k]fluoranthene | 1 | 96.9528 | 64.6948 | 40* | 20 |
| Benzo[a]pyrene | 1 | 96.9516 | 61.7478 | 44* | 20 |
| Indeno[1,2,3-cd]pyrene | 1 | 96.8587 | 62.2055 | 44* | 20 |
| Dibenzo[a,h]anthracene | 1 | 97.397 | 61.3203 | 45* | 20 |
| Benzo[g,h,i]perylene | 1 | 94.3631 | 60.3871 | 44* | 20 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94984

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5M117939.D | AD25969-001(MS) | 9/21/2021 4:45:00 PM |
| Non Spike(If applicable): | 5M117941.D | AD25969-001 | 9/21/2021 5:32:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **1,4-Dioxane** | 1 | 0 | 0 | 100 | 0* | 20 | 160 |
| Pyridine | 1 | 37.5128 | 0 | 100 | 38 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 68.7036 | 0 | 100 | 69 | 50 | 150 |
| **Benzaldehyde** | 1 | 48.6533 | 0 | 100 | 49 | 20 | 220 |
| Aniline | 1 | 49.0381 | 0 | 100 | 49 | 20 | 150 |
| Pentachloroethane | 1 | 76.41 | 0 | 100 | 76 | 50 | 130 |
| **bis(2-Chloroethyl)ether** | 1 | 75.6248 | 0 | 100 | 76 | 50 | 130 |
| **Phenol** | 1 | 63.3605 | 0 | 100 | 63 | 20 | 150 |
| **2-Chlorophenol** | 1 | 87.8093 | 0 | 100 | 88 | 70 | 130 |
| N-Decane | 1 | 74.8127 | 0 | 100 | 75 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 69.2662 | 0 | 100 | 69 | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 72.368 | 0 | 100 | 72 | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 73.3948 | 0 | 100 | 73 | 50 | 130 |
| Benzyl alcohol | 1 | 96.8666 | 0 | 100 | 97 | 70 | 130 |
| **bis(2-chloroisopropyl)ether** | 1 | 71.6848 | 0 | 100 | 72 | 40 | 130 |
| **2-Methylphenol** | 1 | 91.9277 | 0 | 100 | 92 | 60 | 130 |
| **Acetophenone** | 1 | 93.0495 | 0 | 100 | 93 | 50 | 130 |
| **Hexachloroethane** | 1 | 70.5022 | 0 | 100 | 71 | 50 | 130 |
| **N-Nitroso-di-n-propylamine** | 1 | 89.4885 | 0 | 100 | 89 | 50 | 130 |
| **3&4-Methylphenol** | 1 | 99.4726 | 0 | 100 | 99 | 50 | 130 |
| **Nitrobenzene** | 1 | 90.8282 | 0 | 100 | 91 | 70 | 130 |
| **Isophorone** | 1 | 91.2017 | 0 | 100 | 91 | 70 | 130 |
| **2-Nitrophenol** | 1 | 108.6746 | 0 | 100 | 109 | 70 | 130 |
| **2,4-Dimethylphenol** | 1 | 111.3915 | 0 | 100 | 111 | 40 | 130 |
| Benzoic Acid | 1 | 115.8347 | 0 | 100 | 116 | 20 | 130 |
| **bis(2-Chloroethoxy)methane** | 1 | 88.9208 | 0 | 100 | 89 | 70 | 130 |
| **2,4-Dichlorophenol** | 1 | 109.0871 | 0 | 100 | 109 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 87.1596 | 0 | 100 | 87 | 50 | 130 |
| **Naphthalene** | 1 | 82.4096 | 0 | 100 | 82 | 70 | 130 |
| **4-Chloroaniline** | 1 | 95.3961 | 0 | 100 | 95 | 50 | 150 |
| **Hexachlorobutadiene** | 1 | 87.1351 | 0 | 100 | 87 | 70 | 130 |
| **Caprolactam** | 1 | 89.5682 | 0 | 100 | 90 | 20 | 130 |
| **4-Chloro-3-methylphenol** | 1 | 113.9833 | 0 | 100 | 114 | 70 | 130 |
| **2-Methylnaphthalene** | 1 | 98.0069 | 0 | 100 | 98 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 107.3439 | 0 | 100 | 107 | 70 | 130 |
| **1,1'-Biphenyl** | 1 | 103.1883 | 0 | 100 | 103 | 70 | 130 |
| **1,2,4,5-Tetrachlorobenzene** | 1 | 107.2643 | 0 | 100 | 107 | 70 | 130 |
| **Hexachlorocyclopentadiene** | 1 | 105.343 | 0 | 100 | 105 | 20 | 130 |
| **2,4,6-Trichlorophenol** | 1 | 121.4276 | 0 | 100 | 121 | 70 | 130 |
| **2,4,5-Trichlorophenol** | 1 | 124.2342 | 0 | 100 | 124 | 70 | 130 |
| **2-Chloronaphthalene** | 1 | 97.8077 | 0 | 100 | 98 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 109.0389 | 0 | 100 | 109 | 70 | 130 |
| Diphenyl Ether | 1 | 109.7186 | 0 | 100 | 110 | 70 | 130 |
| **2-Nitroaniline** | 1 | 121.2507 | 0 | 100 | 121 | 50 | 150 |
| Coumarin | 1 | 115.33 | 0 | 100 | 115 | 70 | 130 |
| **Acenaphthylene** | 1 | 100.9601 | 0 | 100 | 101 | 70 | 130 |
| **Dimethylphthalate** | 1 | 103.21 | 0 | 100 | 103 | 70 | 130 |
| **2,6-Dinitrotoluene** | 1 | 107.1806 | 0 | 100 | 107 | 70 | 130 |
| **Acenaphthene** | 1 | 99.1225 | 0 | 100 | 99 | 70 | 130 |
| **3-Nitroaniline** | 1 | 123.8946 | 0 | 100 | 124 | 50 | 150 |
| **2,4-Dinitrophenol** | 1 | 128.7109 | 0 | 100 | 129 | 20 | 150 |
| **Dibenzofuran** | 1 | 109.3277 | 0 | 100 | 109 | 70 | 130 |
| **2,4-Dinitrotoluene** | 1 | 102.9937 | 0 | 100 | 103 | 40 | 130 |
| **4-Nitrophenol** | 1 | 93.5822 | 0 | 100 | 94 | 20 | 150 |
| **2,3,4,6-Tetrachlorophenol** | 1 | 121.7276 | 0 | 100 | 122 | 70 | 130 |
| **Fluorene** | 1 | 101.4492 | 0 | 100 | 101 | 70 | 130 |
| **4-Chlorophenyl-phenylether** | 1 | 105.0144 | 0 | 100 | 105 | 70 | 130 |
| **Diethylphthalate** | 1 | 104.9811 | 0 | 100 | 105 | 50 | 130 |
| **4-Nitroaniline** | 1 | 118.7688 | 0 | 100 | 119 | 50 | 150 |
| **Atrazine** | 1 | 83.2568 | 0 | 100 | 83 | 50 | 130 |
| **4,6-Dinitro-2-methylphenol** | 1 | 132.9559 | 0 | 100 | 133* | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94984

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | 1 | 97.6581 | 0 | 100 | 98 | 50 | 130 |
| 1,2-Diphenylhydrazine | 1 | 102.2298 | 0 | 100 | 102 | 70 | 130 |
| 4-Bromophenyl-phenylether | 1 | 107.8839 | 0 | 100 | 108 | 70 | 130 |
| Hexachlorobenzene | 1 | 101.5696 | 0 | 100 | 102 | 70 | 130 |
| N-Octadecane | 1 | 134.2602 | 0 | 100 | 134* | 70 | 130 |
| Pentachlorophenol | 1 | 142.2536 | 0 | 100 | 142* | 40 | 130 |
| Phenanthrene | 1 | 107.6099 | 0 | 100 | 108 | 70 | 130 |
| Anthracene | 1 | 109.1642 | 0 | 100 | 109 | 70 | 130 |
| Carbazole | 1 | 120.0698 | 0 | 100 | 120 | 70 | 130 |
| Di-n-butylphthalate | 1 | 105.8711 | 0 | 100 | 106 | 70 | 130 |
| Fluoranthene | 1 | 109.3785 | 0 | 100 | 109 | 70 | 130 |
| Pyrene | 1 | 107.3274 | 0 | 100 | 107 | 70 | 130 |
| Benzidine | 1 | 2.1256 | 0 | 100 | 2.1 | 0 | 134 |
| Butylbenzylphthalate | 1 | 108.7789 | 0 | 100 | 109 | 50 | 130 |
| 3,3'-Dichlorobenzidine | 1 | 79.1449 | 0 | 100 | 79 | 1 | 150 |
| Benzo[a]anthracene | 1 | 100.7263 | 0 | 100 | 101 | 70 | 130 |
| Chrysene | 1 | 108.4521 | 0 | 100 | 108 | 50 | 130 |
| bis(2-Ethylhexyl)phthalate | 1 | 110.8835 | 0 | 100 | 111 | 70 | 130 |
| Di-n-octylphthalate | 1 | 112.4675 | 0 | 100 | 112 | 70 | 130 |
| Benzo[b]fluoranthene | 1 | 116.8739 | 0 | 100 | 117 | 70 | 130 |
| Benzo[k]fluoranthene | 1 | 107.8396 | 0 | 100 | 108 | 70 | 130 |
| Benzo[a]pyrene | 1 | 107.4991 | 0 | 100 | 107 | 70 | 130 |
| Indeno[1,2,3-cd]pyrene | 1 | 112.4923 | 0 | 100 | 112 | 70 | 130 |
| Dibenzo[a,h]anthracene | 1 | 111.3439 | 0 | 100 | 111 | 70 | 130 |
| Benzo[g,h,i]perylene | 1 | 108.26 | 0 | 100 | 108 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94984

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5M117940.D | AD25969-001(MSD) | 9/21/2021 5:09:00 PM |
| Non Spike(If applicable): | 5M117941.D | AD25969-001 | 9/21/2021 5:32:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 83.8216 | 0 | 100 | 84 | 20 | 160 |
| Pyridine | 1 | 40.3328 | 0 | 100 | 40 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 91.7429 | 0 | 100 | 92 | 50 | 150 |
| Benzaldehyde | 1 | 67.0187 | 0 | 100 | 67 | 20 | 220 |
| Aniline | 1 | 61.2688 | 0 | 100 | 61 | 20 | 150 |
| Pentachloroethane | 1 | 111.8835 | 0 | 100 | 112 | 50 | 130 |
| bis(2-Chloroethyl)ether | 1 | 103.1313 | 0 | 100 | 103 | 50 | 130 |
| Phenol | 1 | 85.6972 | 0 | 100 | 86 | 20 | 150 |
| 2-Chlorophenol | 1 | 120.1822 | 0 | 100 | 120 | 70 | 130 |
| N-Decane | 1 | 107.2141 | 0 | 100 | 107 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 95.08 | 0 | 100 | 95 | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 89.0509 | 0 | 100 | 89 | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 89.5587 | 0 | 100 | 90 | 50 | 130 |
| Benzyl alcohol | 1 | 115.7103 | 0 | 100 | 116 | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 84.9156 | 0 | 100 | 85 | 40 | 130 |
| 2-Methylphenol | 1 | 113.2961 | 0 | 100 | 113 | 60 | 130 |
| Acetophenone | 1 | 107.6943 | 0 | 100 | 108 | 50 | 130 |
| Hexachloroethane | 1 | 90.4558 | 0 | 100 | 90 | 50 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 101.4047 | 0 | 100 | 101 | 50 | 130 |
| 3&4-Methylphenol | 1 | 115.1282 | 0 | 100 | 115 | 50 | 130 |
| Nitrobenzene | 1 | 106.4941 | 0 | 100 | 106 | 70 | 130 |
| Isophorone | 1 | 102.0159 | 0 | 100 | 102 | 70 | 130 |
| 2-Nitrophenol | 1 | 127.8504 | 0 | 100 | 128 | 70 | 130 |
| 2,4-Dimethylphenol | 1 | 125.8599 | 0 | 100 | 126 | 40 | 130 |
| Benzoic Acid | 1 | 134.5212 | 0 | 100 | 135* | 20 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 104.2495 | 0 | 100 | 104 | 70 | 130 |
| 2,4-Dichlorophenol | 1 | 124.5232 | 0 | 100 | 125 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 103.913 | 0 | 100 | 104 | 50 | 130 |
| Naphthalene | 1 | 94.843 | 0 | 100 | 95 | 70 | 130 |
| 4-Chloroaniline | 1 | 106.1494 | 0 | 100 | 106 | 50 | 150 |
| Hexachlorobutadiene | 1 | 103.4899 | 0 | 100 | 103 | 70 | 130 |
| Caprolactam | 1 | 85.9431 | 0 | 100 | 86 | 20 | 130 |
| 4-Chloro-3-methylphenol | 1 | 127.8831 | 0 | 100 | 128 | 70 | 130 |
| 2-Methylnaphthalene | 1 | 110.037 | 0 | 100 | 110 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 115.3706 | 0 | 100 | 115 | 70 | 130 |
| 1,1'-Biphenyl | 1 | 109.3301 | 0 | 100 | 109 | 70 | 130 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 119.5899 | 0 | 100 | 120 | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 121.9527 | 0 | 100 | 122 | 20 | 130 |
| 2,4,6-Trichlorophenol | 1 | 133.0907 | 0 | 100 | 133* | 70 | 130 |
| 2,4,5-Trichlorophenol | 1 | 134.2861 | 0 | 100 | 134* | 70 | 130 |
| 2-Chloronaphthalene | 1 | 109.5652 | 0 | 100 | 110 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 116.62 | 0 | 100 | 117 | 70 | 130 |
| Diphenyl Ether | 1 | 118.093 | 0 | 100 | 118 | 70 | 130 |
| 2-Nitroaniline | 1 | 129.1795 | 0 | 100 | 129 | 50 | 150 |
| Coumarin | 1 | 121.4113 | 0 | 100 | 121 | 70 | 130 |
| Acenaphthylene | 1 | 108.1147 | 0 | 100 | 108 | 70 | 130 |
| Dimethylphthalate | 1 | 110.0919 | 0 | 100 | 110 | 70 | 130 |
| 2,6-Dinitrotoluene | 1 | 113.5394 | 0 | 100 | 114 | 70 | 130 |
| Acenaphthene | 1 | 107.9638 | 0 | 100 | 108 | 70 | 130 |
| 3-Nitroaniline | 1 | 128.2273 | 0 | 100 | 128 | 50 | 150 |
| 2,4-Dinitrophenol | 1 | 139.212 | 0 | 100 | 139 | 20 | 150 |
| Dibenzofuran | 1 | 120.1672 | 0 | 100 | 120 | 70 | 130 |
| 2,4-Dinitrotoluene | 1 | 111.3644 | 0 | 100 | 111 | 40 | 130 |
| 4-Nitrophenol | 1 | 100.5712 | 0 | 100 | 101 | 20 | 150 |
| 2,3,4,6-Tetrachlorophenol | 1 | 128.6048 | 0 | 100 | 129 | 70 | 130 |
| Fluorene | 1 | 106.5384 | 0 | 100 | 107 | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 113.687 | 0 | 100 | 114 | 70 | 130 |
| Diethylphthalate | 1 | 113.1258 | 0 | 100 | 113 | 50 | 130 |
| 4-Nitroaniline | 1 | 122.7454 | 0 | 100 | 123 | 50 | 150 |
| Atrazine | 1 | 86.0531 | 0 | 100 | 86 | 50 | 130 |
| 4,6-Dinitro-2-methylphenol | 1 | 138.6931 | 0 | 100 | 139* | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94984

| Method: 8270E | Matrix: Aqueous | | Units: ug/L | QC Type: MSD | | |
|---|---|---|---|---|---|---|
| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
| **n-Nitrosodiphenylamine** | 1 | 98.3917 | 0 | 100 | 98 | 50 | 130 |
| 1,2-Diphenylhydrazine | 1 | 105.4036 | 0 | 100 | 105 | 70 | 130 |
| **4-Bromophenyl-phenylether** | 1 | 116.0285 | 0 | 100 | 116 | 70 | 130 |
| **Hexachlorobenzene** | 1 | 105.695 | 0 | 100 | 106 | 70 | 130 |
| N-Octadecane | 1 | 128.6556 | 0 | 100 | 129 | 70 | 130 |
| **Pentachlorophenol** | 1 | 149.5389 | 0 | 100 | 150* | 40 | 130 |
| **Phenanthrene** | 1 | 110.0574 | 0 | 100 | 110 | 70 | 130 |
| **Anthracene** | 1 | 112.1081 | 0 | 100 | 112 | 70 | 130 |
| **Carbazole** | 1 | 122.4254 | 0 | 100 | 122 | 70 | 130 |
| **Di-n-butylphthalate** | 1 | 112.8013 | 0 | 100 | 113 | 70 | 130 |
| **Fluoranthene** | 1 | 113.0484 | 0 | 100 | 113 | 70 | 130 |
| **Pyrene** | 1 | 108.9571 | 0 | 100 | 109 | 70 | 130 |
| Benzidine | 1 | 0 | 0 | 100 | 0 | 0 | 134 |
| **Butylbenzylphthalate** | 1 | 112.1066 | 0 | 100 | 112 | 50 | 130 |
| **3,3'-Dichlorobenzidine** | 1 | 73.4097 | 0 | 100 | 73 | 1 | 150 |
| **Benzo[a]anthracene** | 1 | 102.0772 | 0 | 100 | 102 | 70 | 130 |
| **Chrysene** | 1 | 111.6145 | 0 | 100 | 112 | 50 | 130 |
| **bis(2-Ethylhexyl)phthalate** | 1 | 115.3772 | 0 | 100 | 115 | 70 | 130 |
| **Di-n-octylphthalate** | 1 | 116.2082 | 0 | 100 | 116 | 70 | 130 |
| **Benzo[b]fluoranthene** | 1 | 120.1705 | 0 | 100 | 120 | 70 | 130 |
| **Benzo[k]fluoranthene** | 1 | 118.4774 | 0 | 100 | 118 | 70 | 130 |
| **Benzo[a]pyrene** | 1 | 112.3185 | 0 | 100 | 112 | 70 | 130 |
| **Indeno[1,2,3-cd]pyrene** | 1 | 117.5378 | 0 | 100 | 118 | 70 | 130 |
| **Dibenzo[a,h]anthracene** | 1 | 116.56 | 0 | 100 | 117 | 70 | 130 |
| **Benzo[g,h,i]perylene** | 1 | 113.849 | 0 | 100 | 114 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: WMB94984

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5M117940.D | AD25969-001(MSD) | 9/21/2021 5:09:00 PM |
| Duplicate(If applicable): | 5M117939.D | AD25969-001(MS) | 9/21/2021 4:45:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E  Matrix: Aqueous  Units: ug/L  QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| **1,4-Dioxane** | 1 | 83.8216 | 0 | 200* | 20 |
| Pyridine | 1 | 40.3328 | 37.5128 | 7.2 | 40 |
| N-Nitrosodimethylamine | 1 | 91.7429 | 68.7036 | 29* | 20 |
| **Benzaldehyde** | 1 | 67.0187 | 48.6533 | 32* | 20 |
| Aniline | 1 | 61.2688 | 49.0381 | 22* | 20 |
| Pentachloroethane | 1 | 111.8835 | 76.41 | 38* | 20 |
| **bis(2-Chloroethyl)ether** | 1 | 103.1313 | 75.6248 | 31* | 20 |
| **Phenol** | 1 | 85.6972 | 63.3605 | 30 | 40 |
| **2-Chlorophenol** | 1 | 120.1822 | 87.8093 | 31 | 40 |
| N-Decane | 1 | 107.2141 | 74.8127 | 36* | 20 |
| 1,3-Dichlorobenzene | 1 | 95.08 | 69.2662 | 31* | 20 |
| 1,4-Dichlorobenzene | 1 | 89.0509 | 72.368 | 21 | 40 |
| 1,2-Dichlorobenzene | 1 | 89.5587 | 73.3948 | 20 | 20 |
| Benzyl alcohol | 1 | 115.7103 | 96.8666 | 18 | 20 |
| **bis(2-chloroisopropyl)ether** | 1 | 84.9156 | 71.6848 | 17 | 20 |
| **2-Methylphenol** | 1 | 113.2961 | 91.9277 | 21 | 40 |
| **Acetophenone** | 1 | 107.6943 | 93.0495 | 15 | 20 |
| **Hexachloroethane** | 1 | 90.4558 | 70.5022 | 25 | 40 |
| **N-Nitroso-di-n-propylamine** | 1 | 101.4047 | 89.4885 | 12 | 40 |
| **3&4-Methylphenol** | 1 | 115.1282 | 99.4726 | 15 | 40 |
| **Nitrobenzene** | 1 | 106.4941 | 90.8282 | 16 | 40 |
| **Isophorone** | 1 | 102.0159 | 91.2017 | 11 | 20 |
| **2-Nitrophenol** | 1 | 127.8504 | 108.6746 | 16 | 20 |
| **2,4-Dimethylphenol** | 1 | 125.8599 | 111.3915 | 12 | 40 |
| Benzoic Acid | 1 | 134.5212 | 115.8347 | 15 | 20 |
| **bis(2-Chloroethoxy)methane** | 1 | 104.2495 | 88.9208 | 16 | 20 |
| **2,4-Dichlorophenol** | 1 | 124.5232 | 109.0871 | 13 | 20 |
| 1,2,4-Trichlorobenzene | 1 | 103.913 | 87.1596 | 18 | 40 |
| **Naphthalene** | 1 | 94.843 | 82.4096 | 14 | 40 |
| **4-Chloroaniline** | 1 | 106.1494 | 95.3961 | 11 | 20 |
| **Hexachlorobutadiene** | 1 | 103.4899 | 87.1351 | 17 | 40 |
| **Caprolactam** | 1 | 85.9431 | 89.5682 | 4.1 | 20 |
| **4-Chloro-3-methylphenol** | 1 | 127.8831 | 113.9833 | 11 | 40 |
| **2-Methylnaphthalene** | 1 | 110.037 | 98.0069 | 12 | 20 |
| 1-Methylnaphthalene | 1 | 115.3706 | 107.3439 | 7.2 | 20 |
| **1,1'-Biphenyl** | 1 | 109.3301 | 103.1883 | 5.8 | 20 |
| **1,2,4,5-Tetrachlorobenzene** | 1 | 119.5899 | 107.2643 | 11 | 20 |
| **Hexachlorocyclopentadiene** | 1 | 121.9527 | 105.343 | 15 | 20 |
| **2,4,6-Trichlorophenol** | 1 | 133.0907 | 121.4276 | 9.2 | 40 |
| **2,4,5-Trichlorophenol** | 1 | 134.2861 | 124.2342 | 7.8 | 40 |
| **2-Chloronaphthalene** | 1 | 109.5652 | 97.8077 | 11 | 20 |
| 1,4-Dimethylnaphthalene | 1 | 116.62 | 109.0389 | 6.7 | 20 |
| Diphenyl Ether | 1 | 118.093 | 109.7186 | 7.4 | 20 |
| **2-Nitroaniline** | 1 | 129.1795 | 121.2507 | 6.3 | 20 |
| Coumarin | 1 | 121.4113 | 115.33 | 5.1 | 20 |
| **Acenaphthylene** | 1 | 108.1147 | 100.9601 | 6.8 | 20 |
| **Dimethylphthalate** | 1 | 110.0919 | 103.21 | 6.5 | 20 |
| **2,6-Dinitrotoluene** | 1 | 113.5394 | 107.1806 | 5.8 | 20 |
| **Acenaphthene** | 1 | 107.9638 | 99.1225 | 8.5 | 40 |
| **3-Nitroaniline** | 1 | 128.2273 | 123.8946 | 3.4 | 20 |
| **2,4-Dinitrophenol** | 1 | 139.212 | 128.7109 | 7.8 | 20 |
| **Dibenzofuran** | 1 | 120.1672 | 109.3277 | 9.4 | 20 |
| **2,4-Dinitrotoluene** | 1 | 111.3644 | 102.9937 | 7.8 | 40 |
| **4-Nitrophenol** | 1 | 100.5712 | 93.5822 | 7.2 | 40 |
| **2,3,4,6-Tetrachlorophenol** | 1 | 128.6048 | 121.7276 | 5.5 | 20 |
| **Fluorene** | 1 | 106.5384 | 101.4492 | 4.9 | 40 |
| **4-Chlorophenyl-phenylether** | 1 | 113.687 | 105.0144 | 7.9 | 20 |
| **Diethylphthalate** | 1 | 113.1258 | 104.9811 | 7.5 | 20 |
| **4-Nitroaniline** | 1 | 122.7454 | 118.7688 | 3.3 | 20 |
| **Atrazine** | 1 | 86.0531 | 83.2568 | 3.3 | 20 |
| **4,6-Dinitro-2-methylphenol** | 1 | 138.6931 | 132.9559 | 4.2 | 20 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: WMB94984

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| **n-Nitrosodiphenylamine** | **1** | **98.3917** | **97.6581** | **0.75** | **20** |
| 1,2-Diphenylhydrazine | 1 | 105.4036 | 102.2298 | 3.1 | 20 |
| **4-Bromophenyl-phenylether** | **1** | **116.0285** | **107.8839** | **7.3** | **20** |
| **Hexachlorobenzene** | **1** | **105.695** | **101.5696** | **4** | **40** |
| N-Octadecane | 1 | 128.6556 | 134.2602 | 4.3 | 20 |
| **Pentachlorophenol** | **1** | **149.5389** | **142.2536** | **5** | **40** |
| **Phenanthrene** | **1** | **110.0574** | **107.6099** | **2.2** | **20** |
| **Anthracene** | **1** | **112.1081** | **109.1642** | **2.7** | **20** |
| **Carbazole** | **1** | **122.4254** | **120.0698** | **1.9** | **20** |
| **Di-n-butylphthalate** | **1** | **112.8013** | **105.8711** | **6.3** | **20** |
| **Fluoranthene** | **1** | **113.0484** | **109.3785** | **3.3** | **20** |
| **Pyrene** | **1** | **108.9571** | **107.3274** | **1.5** | **40** |
| Benzidine | 1 | 0 | 2.1256 | 200* | 20 |
| **Butylbenzylphthalate** | **1** | **112.1066** | **108.7789** | **3** | **40** |
| **3,3'-Dichlorobenzidine** | **1** | **73.4097** | **79.1449** | **7.5** | **20** |
| **Benzo[a]anthracene** | **1** | **102.0772** | **100.7263** | **1.3** | **20** |
| **Chrysene** | **1** | **111.6145** | **108.4521** | **2.9** | **20** |
| **bis(2-Ethylhexyl)phthalate** | **1** | **115.3772** | **110.8835** | **4** | **20** |
| **Di-n-octylphthalate** | **1** | **116.2082** | **112.4675** | **3.3** | **20** |
| **Benzo[b]fluoranthene** | **1** | **120.1705** | **116.8739** | **2.8** | **20** |
| **Benzo[k]fluoranthene** | **1** | **118.4774** | **107.8396** | **9.4** | **20** |
| **Benzo[a]pyrene** | **1** | **112.3185** | **107.4991** | **4.4** | **20** |
| **Indeno[1,2,3-cd]pyrene** | **1** | **117.5378** | **112.4923** | **4.4** | **20** |
| **Dibenzo[a,h]anthracene** | **1** | **116.56** | **111.3439** | **4.6** | **20** |
| **Benzo[g,h,i]perylene** | **1** | **113.849** | **108.26** | **5** | **20** |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# FORM 4
Blank Summary

Blank Number: WMB94959
Blank Data File: 7M116568.D
Matrix: Aqueous

Blank Analysis Date: 09/19/21 15:50
Blank Extraction Date: 09/18/21
(If Applicable)
Method: EPA 8270E

| Sample Number | Data File | Analysis Date |
|---|---|---|
| AD26083-001 | 10M87377.D | 09/20/21 14:38 |
| AD26083-002 | 10M87378.D | 09/20/21 15:00 |
| AD26083-003 | 10M87379.D | 09/20/21 15:23 |
| AD26083-005 | 10M87380.D | 09/20/21 15:45 |
| AD26083-006 | 10M87381.D | 09/20/21 16:07 |
| AD26083-008 | 10M87382.D | 09/20/21 16:29 |
| AD26083-009 | 10M87383.D | 09/20/21 16:51 |
| AD26083-011 | 10M87384.D | 09/20/21 17:14 |
| AD26083-012 | 10M87385.D | 09/20/21 17:36 |
| AD26083-014 | 10M87386.D | 09/20/21 17:58 |
| AD26083-016 | 10M87387.D | 09/20/21 18:20 |
| AD26083-018 | 10M87388.D | 09/20/21 18:43 |
| AD26083-021 | 10M87389.D | 09/20/21 19:05 |
| AD26083-023 | 10M87390.D | 09/20/21 19:27 |
| AD26083-026 | 10M87391.D | 09/20/21 19:49 |
| AD26083-027 | 10M87392.D | 09/20/21 20:11 |
| AD26083-028 | 10M87393.D | 09/20/21 20:33 |
| AD26083-030 | 10M87394.D | 09/20/21 20:55 |
| AD26083-040 | 10M87396.D | 09/20/21 21:39 |
| AD26083-042(MS: | 10M87401.D | 09/20/21 23:29 |
| AD26083-044(MSD | 10M87402.D | 09/20/21 23:51 |
| WMB94959(MS) | 10M87409.D | 09/21/21 12:23 |

# FORM 4
Blank Summary

Blank Number: WMB94960
Blank Data File: 7M116569.D
Matrix: Aqueous

Blank Analysis Date: 09/19/21 16:13
Blank Extraction Date: 09/18/21
(If Applicable)
Method: EPA 8270E

| Sample Number | Data File | Analysis Date |
|---|---|---|
| AD26083-032 | 7M116584.D | 09/19/21 22:08 |
| AD26083-033 | 7M116585.D | 09/19/21 22:32 |
| AD26083-035 | 7M116586.D | 09/19/21 22:56 |
| AD26083-036 | 7M116587.D | 09/19/21 23:19 |
| AD26083-038 | 10M87395.D | 09/20/21 21:17 |
| AD26083-046 | 10M87397.D | 09/20/21 22:01 |
| AD26083-048 | 10M87398.D | 09/20/21 22:23 |
| AD26083-049(MS: | 10M87399.D | 09/20/21 22:45 |
| AD26083-050(MSD | 10M87400.D | 09/20/21 23:07 |
| WMB94960(MS) | 10M87410.D | 09/21/21 12:45 |

# FORM 4
Blank Summary

Blank Number: WMB94984
Blank Data File: 5M117936.D
Matrix: Aqueous

Blank Analysis Date: 09/21/21 14:27
Blank Extraction Date: 09/21/21
(If Applicable)
Method: EPA 8270E

| Sample Number | Data File | Analysis Date |
|---|---|---|
| AD26083-019 | 5M117948.D | 09/21/21 20:18 |
| WMB94984(MS) | 5M117938.D | 09/21/21 15:14 |
| AD25969-001(MS) | 5M117939.D | 09/21/21 16:45 |
| AD25969-001(MSD | 5M117940.D | 09/21/21 17:09 |
| AD25969-001 | 5M117941.D | 09/21/21 17:32 |

# Form 5

**Tune Name:** CAL DFTPP
**Instrument:** GCMS 7
**Data File:** 7M116106.D
**Analysis Date:** 08/23/21 08:59
**Method:** EPA 8270E

**Tune Scan/Time Range:** Average of 10.208 to 10.214 min

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 36.2 | 60180 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 42.6 | 70856 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 405 | PASS |
| 127 | 198 | 40 | 60 | 53.2 | 88420 | PASS |
| 197 | 198 | 0.00 | 1 | 0.4 | 641 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 166304 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 11345 | PASS |
| 275 | 198 | 10 | 30 | 26.5 | 44008 | PASS |
| 365 | 198 | 1 | 100 | 3.1 | 5109 | PASS |
| 441 | 443 | 0.01 | 100 | 77.1 | 18511 | PASS |
| 442 | 198 | 40 | 100 | 75.3 | 125288 | PASS |
| 443 | 442 | 17 | 23 | 19.2 | 24004 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 7M116107.D | CAL BNA@196PP | 08/23/21 09:26 |
| 7M116108.D | CAL BNA@160PP | 08/23/21 09:50 |
| 7M116109.D | CAL BNA@120PP | 08/23/21 10:14 |
| 7M116110.D | CAL BNA@80PPM | 08/23/21 10:38 |
| 7M116111.D | CAL BNA@20PPM | 08/23/21 11:02 |
| 7M116112.D | CAL BNA@10PPM | 08/23/21 11:26 |
| 7M116113.D | CAL BNA@2PPM | 08/23/21 11:50 |
| 7M116114.D | CAL BNA@0.5PP | 08/23/21 12:13 |
| 7M116115.D | CAL BNA@50PPM | 08/23/21 12:37 |
| 7M116116.D | ICV BNA@50PPM | 08/23/21 13:04 |
| 7M116117.D | WMB94706 | 08/23/21 13:29 |
| 7M116118.D | AD25492-007 | 08/23/21 13:53 |
| 7M116119.D | AD25478-001 | 08/23/21 14:17 |
| 7M116120.D | AD25478-002 | 08/23/21 14:41 |
| 7M116121.D | AD25478-003 | 08/23/21 15:05 |
| 7M116122.D | AD25478-004 | 08/23/21 15:29 |
| 7M116123.D | AD25513-001 | 08/23/21 15:53 |
| 7M116124.D | AD25513-002 | 08/23/21 16:17 |
| 7M116125.D | AD25513-003 | 08/23/21 16:41 |
| 7M116126.D | AD25513-004 | 08/23/21 17:04 |
| 7M116127.D | AD25513-005 | 08/23/21 17:28 |
| 7M116128.D | AD25513-006 | 08/23/21 17:51 |
| 7M116129.D | SMB94710(MS) | 08/23/21 18:15 |
| 7M116130.D | SMB94710 | 08/23/21 18:38 |
| 7M116131.D | AD24958-004 | 08/23/21 19:01 |
| 7M116132.D | AD25541-004 | 08/23/21 19:25 |

# Form 5

**Tune Name:** CAL DFTPP
**Instrument:** GCMS 7
**Data File:** 7M116559.D
**Analysis Date:** 09/19/21 11:21
**Method:** EPA 8270E

**Tune Scan/Time Range:** Scan 1310

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 35.0 | 70864 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 39.6 | 80336 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 489 | PASS |
| 127 | 198 | 40 | 60 | 51.8 | 104992 | PASS |
| 197 | 198 | 0.00 | 1 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 202752 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 13578 | PASS |
| 275 | 198 | 10 | 30 | 26.3 | 53400 | PASS |
| 365 | 198 | 1 | 100 | 3.0 | 6054 | PASS |
| 441 | 443 | 0.01 | 100 | 80.0 | 22384 | PASS |
| 442 | 198 | 40 | 100 | 71.3 | 144640 | PASS |
| 443 | 442 | 17 | 23 | 19.3 | 27968 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 7M116560.D | CAL BNA@50PPM | 09/19/21 12:05 |
| 7M116561.D | SMB94948(MS) | 09/19/21 13:05 |
| 7M116562.D | SMB94958(MS) | 09/19/21 13:28 |
| 7M116563.D | SMB94948 | 09/19/21 13:52 |
| 7M116564.D | SMB94958 | 09/19/21 14:15 |
| 7M116565.D | AD25972-001 | 09/19/21 14:39 |
| 7M116566.D | AD25972-003(MS) | 09/19/21 15:02 |
| 7M116567.D | AD25972-003(MSD | 09/19/21 15:26 |
| 7M116568.D | WMB94959 | 09/19/21 15:50 |
| 7M116569.D | WMB94960 | 09/19/21 16:13 |
| 7M116570.D | AD25972-002 | 09/19/21 16:37 |
| 7M116571.D | AD25972-003 | 09/19/21 17:01 |
| 7M116572.D | AD25972-004 | 09/19/21 17:25 |
| 7M116573.D | AD25972-005 | 09/19/21 17:48 |
| 7M116574.D | AD25862-006 | 09/19/21 18:12 |
| 7M116575.D | AD26041-002 | 09/19/21 18:36 |
| 7M116576.D | AD26041-003 | 09/19/21 18:59 |
| 7M116577.D | AD26041-004 | 09/19/21 19:23 |
| 7M116578.D | AD26041-005 | 09/19/21 19:47 |
| 7M116579.D | AD26041-006 | 09/19/21 20:10 |
| 7M116580.D | AD26041-007 | 09/19/21 20:34 |
| 7M116581.D | AD26041-008 | 09/19/21 20:58 |
| 7M116582.D | AD26041-009 | 09/19/21 21:21 |
| 7M116583.D | AD26041-010 | 09/19/21 21:45 |
| 7M116584.D | AD26083-032 | 09/19/21 22:08 |
| 7M116585.D | AD26083-033 | 09/19/21 22:32 |
| 7M116586.D | AD26083-035 | 09/19/21 22:56 |
| 7M116587.D | AD26083-036 | 09/19/21 23:19 |
| 7M116588.D | AD26083-038 | 09/19/21 23:43 |
| 7M116589.D | AD26083-046 | 09/20/21 00:06 |

# Form 5

**Tune Name:** CAL DFTPP
**Instrument:** GCMS 5
**Data File:** 5M117919.D
**Analysis Date:** 09/20/21 08:21
**Method:** EPA 8270E

Tune Scan/Time Range: Average of 9.984 to 9.989 min

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 41.7 | 18920 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 47.5 | 21543 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 40 | 60 | 54.5 | 24738 | PASS |
| 197 | 198 | 0.00 | 1 | 0.3 | 157 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 45352 | PASS |
| 199 | 198 | 5 | 9 | 6.5 | 2931 | PASS |
| 275 | 198 | 10 | 30 | 21.9 | 9952 | PASS |
| 365 | 198 | 1 | 100 | 2.1 | 945 | PASS |
| 441 | 443 | 0.01 | 100 | 77.0 | 3180 | PASS |
| 442 | 198 | 40 | 100 | 44.5 | 20164 | PASS |
| 443 | 442 | 17 | 23 | 20.5 | 4132 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 5M117920.D | CAL BNA@10PPM | 09/20/21 08:44 |
| 5M117921.D | CAL BNA@2PPM | 09/20/21 09:08 |
| 5M117922.D | CAL BNA@196PP | 09/20/21 09:31 |
| 5M117923.D | CAL BNA@160PP | 09/20/21 09:54 |
| 5M117924.D | CAL BNA@120PP | 09/20/21 10:17 |
| 5M117925.D | CAL BNA@80PPM | 09/20/21 10:41 |
| 5M117926.D | CAL BNA@20PPM | 09/20/21 11:05 |
| 5M117927.D | CAL BNA@0.5PP | 09/20/21 11:28 |
| 5M117928.D | CAL BNA@50PPM | 09/20/21 11:52 |
| 5M117929.D | CAL BNA@20PPM | 09/20/21 12:46 |
| 5M117930.D | ICV BNA@50PPM | 09/20/21 13:37 |
| 5M117931.D | WMB94967 | 09/20/21 14:32 |
| 5M117932.D | WMB94967(MS) | 09/20/21 14:55 |
| 5M117933.D | AD26041-001 | 09/20/21 15:19 |

# Form 5

**Tune Name:** CAL DFTPP **Data File:** 10M87364.D
**Instrument:** GCMS 10 **Analysis Date:** 09/20/21 09:05
**Method:** EPA 8270E

**Tune Scan/Time Range:** Average of 10.067 to 10.078 min

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 42.8 | 13738 | PASS |
| 68 | 69 | 0.00 | 2 | 2.0 | 257 | PASS |
| 69 | 198 | 0.00 | 100 | 40.0 | 12846 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 40 | 60 | 52.1 | 16750 | PASS |
| 197 | 198 | 0.00 | 1 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 32120 | PASS |
| 199 | 198 | 5 | 9 | 6.6 | 2128 | PASS |
| 275 | 198 | 10 | 30 | 20.8 | 6688 | PASS |
| 365 | 198 | 1 | 100 | 2.2 | 716 | PASS |
| 441 | 443 | 0.01 | 100 | 78.2 | 3305 | PASS |
| 442 | 198 | 40 | 100 | 72.3 | 23209 | PASS |
| 443 | 442 | 17 | 23 | 18.2 | 4227 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 10M87365.D | CAL BNA@10PPM | 09/20/21 09:29 |
| 10M87366.D | CAL BNA@2PPM | 09/20/21 09:51 |
| 10M87367.D | CAL BNA@196PP | 09/20/21 10:13 |
| 10M87368.D | CAL BNA@160PP | 09/20/21 10:35 |
| 10M87369.D | CAL BNA@120PP | 09/20/21 10:57 |
| 10M87370.D | CAL BNA@80PPM | 09/20/21 11:19 |
| 10M87371.D | CAL BNA@20PPM | 09/20/21 11:42 |
| 10M87372.D | CAL BNA@0.5PP | 09/20/21 12:04 |
| 10M87373.D | CAL BNA@50PPM | 09/20/21 12:26 |
| 10M87374.D | ICV BNA@50PPM | 09/20/21 13:25 |

# Form 5

**Tune Name:** CAL DFTPP
**Instrument:** GCMS 10
**Data File:** 10M87375.D
**Analysis Date:** 09/20/21 13:47
**Method:** EPA 8270E

**Tune Scan/Time Range:** Scan 1465

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 44.8 | 26720 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 383 | PASS |
| 69 | 198 | 0.00 | 100 | 42.8 | 25496 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 40 | 60 | 54.2 | 32312 | PASS |
| 197 | 198 | 0.00 | 1 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 59616 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 3997 | PASS |
| 275 | 198 | 10 | 30 | 20.0 | 11901 | PASS |
| 365 | 198 | 1 | 100 | 2.3 | 1345 | PASS |
| 441 | 443 | 0.01 | 100 | 67.0 | 5278 | PASS |
| 442 | 198 | 40 | 100 | 62.9 | 37520 | PASS |
| 443 | 442 | 17 | 23 | 21.0 | 7872 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 10M87376.D | CAL BNA@50PPM | 09/20/21 14:13 |
| 10M87377.D | AD26083-001 | 09/20/21 14:38 |
| 10M87378.D | AD26083-002 | 09/20/21 15:00 |
| 10M87379.D | AD26083-003 | 09/20/21 15:23 |
| 10M87380.D | AD26083-005 | 09/20/21 15:45 |
| 10M87381.D | AD26083-006 | 09/20/21 16:07 |
| 10M87382.D | AD26083-008 | 09/20/21 16:29 |
| 10M87383.D | AD26083-009 | 09/20/21 16:51 |
| 10M87384.D | AD26083-011 | 09/20/21 17:14 |
| 10M87385.D | AD26083-012 | 09/20/21 17:36 |
| 10M87386.D | AD26083-014 | 09/20/21 17:58 |
| 10M87387.D | AD26083-016 | 09/20/21 18:20 |
| 10M87388.D | AD26083-018 | 09/20/21 18:43 |
| 10M87389.D | AD26083-021 | 09/20/21 19:05 |
| 10M87390.D | AD26083-023 | 09/20/21 19:27 |
| 10M87391.D | AD26083-026 | 09/20/21 19:49 |
| 10M87392.D | AD26083-027 | 09/20/21 20:11 |
| 10M87393.D | AD26083-028 | 09/20/21 20:33 |
| 10M87394.D | AD26083-030 | 09/20/21 20:55 |
| 10M87395.D | AD26083-038 | 09/20/21 21:17 |
| 10M87396.D | AD26083-040 | 09/20/21 21:39 |
| 10M87397.D | AD26083-046 | 09/20/21 22:01 |
| 10M87398.D | AD26083-048 | 09/20/21 22:23 |
| 10M87399.D | AD26083-049(MS: | 09/20/21 22:45 |
| 10M87400.D | AD26083-050(MSD | 09/20/21 23:07 |
| 10M87401.D | AD26083-042(MS: | 09/20/21 23:29 |
| 10M87402.D | AD26083-044(MSD | 09/20/21 23:51 |

# Form 5

**Tune Name:** CAL DFTPP
**Instrument:** GCMS 5
**Data File:** 5M117934.D
**Analysis Date:** 09/21/21 09:37
**Method:** EPA 8270E

**Tune Scan/Time Range:** Scan 1452

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 37.0 | 23016 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 43.1 | 26872 | PASS |
| 70 | 69 | 0.00 | 2 | 0.7 | 191 | PASS |
| 127 | 198 | 40 | 60 | 48.8 | 30400 | PASS |
| 197 | 198 | 0.00 | 1 | 0.6 | 356 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 62280 | PASS |
| 199 | 198 | 5 | 9 | 7.1 | 4448 | PASS |
| 275 | 198 | 10 | 30 | 23.9 | 14908 | PASS |
| 365 | 198 | 1 | 100 | 2.6 | 1623 | PASS |
| 441 | 443 | 0.01 | 100 | 88.6 | 5478 | PASS |
| 442 | 198 | 40 | 100 | 49.8 | 31024 | PASS |
| 443 | 442 | 17 | 23 | 19.9 | 6186 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 5M117935.D | CAL BNA@50PPM | 09/21/21 10:26 |
| 5M117936.D | WMB94984 | 09/21/21 14:27 |
| 5M117937.D | AD25976-011 | 09/21/21 14:50 |
| 5M117938.D | WMB94984(MS) | 09/21/21 15:14 |
| 5M117939.D | AD25969-001(MS) | 09/21/21 16:45 |
| 5M117940.D | AD25969-001(MSD | 09/21/21 17:09 |
| 5M117941.D | AD25969-001 | 09/21/21 17:32 |
| 5M117942.D | AD25969-002 | 09/21/21 17:56 |
| 5M117943.D | AD25969-003 | 09/21/21 18:20 |
| 5M117944.D | AD25969-004 | 09/21/21 18:44 |
| 5M117945.D | AD25969-005 | 09/21/21 19:08 |
| 5M117946.D | AD25969-006 | 09/21/21 19:31 |
| 5M117947.D | AD25969-007 | 09/21/21 19:55 |
| 5M117948.D | AD26083-019 | 09/21/21 20:18 |
| 5M117949.D | AD25961-001 | 09/21/21 20:42 |
| 5M117950.D | AD25961-002 | 09/21/21 21:05 |
| 5M117951.D | AD25961-003 | 09/21/21 21:29 |

# Form 5

**Tune Name:** CAL DFTPP
**Instrument:** GCMS 10
**Data File:** 10M87403.D
**Analysis Date:** 09/21/21 09:42
**Method:** EPA 8270E

**Tune Scan/Time Range:** Average of 10.067 to 10.078 min

| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 42.5 | 23899 | PASS |
| 68 | 69 | 0.00 | 2 | 1.8 | 398 | PASS |
| 69 | 198 | 0.00 | 100 | 40.2 | 22628 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 40 | 60 | 51.0 | 28723 | PASS |
| 197 | 198 | 0.00 | 1 | 0.4 | 203 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 56293 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 3811 | PASS |
| 275 | 198 | 10 | 30 | 20.2 | 11359 | PASS |
| 365 | 198 | 1 | 100 | 2.3 | 1279 | PASS |
| 441 | 443 | 0.01 | 100 | 73.9 | 5783 | PASS |
| 442 | 198 | 40 | 100 | 73.3 | 41280 | PASS |
| 443 | 442 | 17 | 23 | 19.0 | 7828 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 10M87404.D | CAL BNA@50PPM | 09/21/21 10:04 |
| 10M87405.D | 972 | 09/21/21 10:42 |
| 10M87406.D | 72(TEST) | 09/21/21 11:04 |
| 10M87407.D | OMB94977 | 09/21/21 11:39 |
| 10M87408.D | OMB94977(MS) | 09/21/21 12:01 |
| 10M87409.D | WMB94959(MS) | 09/21/21 12:23 |
| 10M87410.D | WMB94960(MS) | 09/21/21 12:45 |
| 10M87411.D | WMB94960 | 09/21/21 13:39 |
| 10M87412.D | WMB94959 | 09/21/21 14:01 |
| 10M87413.D | OMB94972 | 09/21/21 14:46 |
| 10M87414.D | OMB94972(MS) | 09/21/21 15:19 |
| 10M87415.D | WMB94984 | 09/21/21 16:09 |
| 10M87416.D | AD25961-004 | 09/21/21 16:48 |
| 10M87417.D | AD25961-005 | 09/21/21 17:11 |
| 10M87418.D | AD25961-006 | 09/21/21 17:33 |
| 10M87419.D | AD25961-007 | 09/21/21 17:55 |
| 10M87420.D | AD25973-001 | 09/21/21 18:17 |
| 10M87421.D | AD25973-002 | 09/21/21 18:40 |
| 10M87422.D | AD25973-003 | 09/21/21 19:02 |
| 10M87423.D | AD25973-004 | 09/21/21 19:24 |

1091738 0906

# FORM8

Internal Standard Areas

Evaluation Std Data File: 7M116115.D  Method: EPA 8270E

Analysis Date/Time: 08/23/21 12:37

Lab File ID: CAL BNA@50PPM

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 149599 | 2.72 | 237642 | 5.92 | 955829 | 6.94 | 485853 | 8.40 | 929383 | 9.90 | 804665 | 12.99 | 928871 | 14.66 |
| Eval File Area Limit: | 74800-299198 | | 118821-475284 | | 477914-1911658 | | 242926-971706 | | 464692-1858766 | | 402332-1609330 | | 464436-1857742 | |
| Eval File Rt Limit: | 2.22-3.22 | | 5.42-6.42 | | 6.44-7.44 | | 7.9-8.9 | | 9.4-10.4 | | 12.49-13.49 | | 14.16-15.16 | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7M116107.D | CAL BNA@196PPM | 163716 | 2.73 | 230907 | 5.94 | 934700 | 6.96 | 479734 | 8.42 | 912513 | 9.91 | 742545 | 13.01 | 894704 | 14.72 |
| 7M116108.D | CAL BNA@160PPM | 148832 | 2.73 | 243422 | 5.93 | 992783 | 6.95 | 501010 | 8.42 | 964007 | 9.91 | 795954 | 13.00 | 959732 | 14.70 |
| 7M116109.D | CAL BNA@120PPM | 137798 | 2.72 | 229740 | 5.93 | 943314 | 6.95 | 483662 | 8.41 | 922079 | 9.90 | 792371 | 12.99 | 935861 | 14.67 |
| 7M116110.D | CAL BNA@80PPM | 139070 | 2.72 | 234788 | 5.93 | 955604 | 6.94 | 488950 | 8.40 | 932303 | 9.90 | 801142 | 12.99 | 945636 | 14.68 |
| 7M116111.D | CAL BNA@20PPM | 144844 | 2.72 | 246828 | 5.92 | 989452 | 6.94 | 496842 | 8.40 | 932186 | 9.90 | 824171 | 12.99 | 943285 | 14.70 |
| 7M116112.D | CAL BNA@10PPM | 148511 | 2.73 | 244746 | 5.92 | 954612 | 6.94 | 467483 | 8.40 | 867395 | 9.89 | 766987 | 12.98 | 884775 | 14.66 |
| 7M116113.D | CAL BNA@2PPM | 167699 | 2.73 | 268872 | 5.92 | 1054416 | 6.93 | 517946 | 8.40 | 949839 | 9.89 | 828490 | 12.98 | 939504 | 14.66 |
| 7M116114.D | CAL BNA@0.5PPM | 142872 | 2.72 | 241589 | 5.92 | 969691 | 6.94 | 486230 | 8.40 | 900285 | 9.89 | 775443 | 12.98 | 882518 | 14.66 |
| 7M116115.D | CAL BNA@50PPM | 149599 | 2.72 | 237642 | 5.92 | 955829 | 6.94 | 485853 | 8.40 | 929383 | 9.90 | 804665 | 12.99 | 928871 | 14.66 |
| 7M116116.D | ICV BNA@50PPM | 170319 | 2.73 | 266919 | 5.93 | 1088061 | 6.95 | 551455 | 8.41 | 1049843 | 9.90 | 926710 | 12.99 | 1038864 | 14.67 |
| 7M116117.D | WMB94706 | 147252 | 2.73 | 246050 | 5.92 | 985816 | 6.94 | 486392 | 8.40 | 890541 | 9.90 | 769917 | 12.99 | 855512 | 14.66 |
| 7M116118.D | AD25492-007 | 146662 | 2.73 | 241205 | 5.92 | 935371 | 6.94 | 447133 | 8.40 | 830615 | 9.90 | 725157 | 12.98 | 798962 | 14.66 |
| 7M116119.D | AD25478-001 | 147927 | 2.73 | 247238 | 5.92 | 984393 | 6.94 | 476673 | 8.40 | 870010 | 9.90 | 723655 | 12.98 | 786877 | 14.66 |
| 7M116120.D | AD25478-002 | 130271 | 2.73 | 224878 | 5.92 | 909495 | 6.94 | 439461 | 8.40 | 795707 | 9.89 | 662885 | 12.98 | 736397 | 14.66 |
| 7M116121.D | AD25478-003 | 126217 | 2.73 | 219516 | 5.92 | 884352 | 6.94 | 425968 | 8.40 | 771480 | 9.89 | 646906 | 12.98 | 700559 | 14.66 |
| 7M116122.D | AD25478-004 | 154976 | 2.73 | 257438 | 5.92 | 1036713 | 6.94 | 497049 | 8.40 | 910352 | 9.89 | 766269 | 12.98 | 838804 | 14.66 |
| 7M116123.D | AD25513-001 | 115068 | 2.73 | 178933 | 5.92 | 714448 | 6.94 | 350313 | 8.40 | 646977 | 9.89 | 536537 | 12.98 | 587056 | 14.66 |
| 7M116124.D | AD25513-002 | 125404 | 2.73 | 195143 | 5.92 | 770996 | 6.93 | 378774 | 8.39 | 692947 | 9.89 | 576208 | 12.98 | 622260 | 14.66 |
| 7M116125.D | AD25513-003 | 125755 | 2.73 | 208147 | 5.92 | 817487 | 6.94 | 380273 | 8.40 | 698554 | 9.89 | 579032 | 12.98 | 661555 | 14.66 |
| 7M116126.D | AD25513-004 | 127610 | 2.73 | 225324 | 5.92 | 894809 | 6.94 | 436928 | 8.40 | 795033 | 9.89 | 644899 | 12.98 | 723670 | 14.66 |
| 7M116127.D | AD25513-005 | 130249 | 2.73 | 197424 | 5.92 | 767861 | 6.93 | 372849 | 8.40 | 684249 | 9.89 | 565038 | 12.98 | 623652 | 14.65 |
| 7M116128.D | AD25513-006 | 134644 | 2.73 | 231883 | 5.92 | 923149 | 6.93 | 442585 | 8.39 | 811902 | 9.89 | 674017 | 12.98 | 730584 | 14.65 |
| 7M116129.D | SMB94710(MS) | 156945 | 2.72 | 234895 | 5.92 | 942139 | 6.94 | 475810 | 8.39 | 876463 | 9.89 | 741942 | 12.98 | 824752 | 14.65 |
| 7M116130.D | SMB94710 | 164575 | 2.72 | 267978 | 5.92 | 1034836 | 6.94 | 491301 | 8.39 | 889430 | 9.89 | 730694 | 12.98 | 797189 | 14.65 |
| 7M116131.D | AD24958-004 | 150520 | 2.72 | 230535 | 5.92 | 754017 | 6.94 | 271744 | 8.42 | 549848 | 9.92 | 777378 | 12.99 | 924756 | 14.66 |
| 7M116132.D | AD25541-004 | 138117 | 2.72 | 243970 | 5.92 | 978657 | 6.93 | 476406 | 8.39 | 875283 | 9.89 | 756032 | 12.98 | 839305 | 14.65 |

| | | | | | |
|---|---|---|---|---|---|
| I1 = | 1,4-Dioxane-d8(INT) | I4 = | Acenaphthene-d10 | I7 = | Perylene-d12 |
| I2 = | 1,4-Dichlorobenzene-d4 | I5 = | Phenanthrene-d10 | | |
| I3 = | Naphthalene-d8 | I6 = | Chrysene-d12 | | |

**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
**624/8260 Internal Standard concentration = 30ug/L**
**524 Internal Standard concentration =5ug/L**

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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# FORM8

Internal Standard Areas

Evaluation Std Data File: 7M116560.D  Method: EPA 8270E

Analysis Date/Time: 09/19/21 12:05

Lab File ID: CAL BNA@50PPM

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 149744 | 2.74 | 251040 | 5.93 | 1005411 | 6.94 | 519868 | 8.41 | 1015288 | 9.91 | 861100 | 13.00 | 1015700 | 14.68 |
| Eval File Area Limit: | 74872-299488 | | 125520-502080 | | 502706-2010822 | | 259934-1039736 | | 507644-2030576 | | 430550-1722200 | | 507850-2031400 | |
| Eval File Rt Limit: | 2.24-3.24 | | 5.43-6.43 | | 6.44-7.44 | | 7.91-8.91 | | 9.41-10.41 | | 12.5-13.5 | | 14.18-15.18 | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7M116561.D | SMB94948(MS) | 130080 | 2.72 | 219316 | 5.93 | 870079 | 6.95 | 447462 | 8.41 | 843971 | 9.91 | 717992 | 13.00 | 812048 | 14.68 |
| 7M116562.D | SMB94958(MS) | 126028 | 2.72 | 220782 | 5.92 | 873222 | 6.94 | 449601 | 8.40 | 850747 | 9.90 | 720616 | 12.99 | 813119 | 14.67 |
| 7M116563.D | SMB94948 | 132487 | 2.72 | 259053 | 5.92 | 1040870 | 6.94 | 513743 | 8.40 | 965668 | 9.90 | 827093 | 12.99 | 883541 | 14.67 |
| 7M116564.D | SMB94958 | 100957 | 2.72 | 207625 | 5.92 | 827941 | 6.94 | 405829 | 8.39 | 753823 | 9.89 | 651732 | 12.99 | 684436 | 14.66 |
| 7M116565.D | AD25972-001 | 117214 | 2.72 | 215499 | 5.92 | 862338 | 6.94 | 435458 | 8.39 | 810761 | 9.89 | 696844 | 12.99 | 733692 | 14.67 |
| 7M116566.D | AD25972-003(MS) | 111529 | 2.72 | 196917 | 5.92 | 786790 | 6.94 | 403739 | 8.39 | 766462 | 9.90 | 658807 | 12.99 | 736483 | 14.67 |
| 7M116567.D | AD25972-003(MSD) | 117602 | 2.72 | 209711 | 5.92 | 821682 | 6.94 | 420838 | 8.40 | 799795 | 9.90 | 688053 | 12.99 | 767956 | 14.67 |
| 7M116568.D | WMB94959 | 137170 | 2.73 | 240891 | 5.92 | 939213 | 6.94 | 474177 | 8.39 | 903515 | 9.89 | 796599 | 12.99 | 867743 | 14.67 |
| 7M116569.D | WMB94960 | 161720 | 2.73 | 287681 | 5.92 | 1109556 | 6.94 | 547002 | 8.39 | 1030843 | 9.89 | 908307 | 12.99 | 997815 | 14.66 |
| 7M116570.D | AD25972-002 | 112135 | 2.72 | 202753 | 5.92 | 807961 | 6.94 | 393419 | 8.39 | 722204 | 9.89 | 648862 | 12.99 | 701207 | 14.66 |
| 7M116571.D | AD25972-003 | 116299 | 2.72 | 211842 | 5.92 | 838693 | 6.94 | 418530 | 8.39 | 782012 | 9.89 | 680549 | 12.99 | 726654 | 14.66 |
| 7M116572.D | AD25972-004 | 123410 | 2.72 | 224363 | 5.92 | 892866 | 6.94 | 442447 | 8.39 | 835772 | 9.89 | 730563 | 12.99 | 773669 | 14.66 |
| 7M116573.D | AD25972-005 | 124620 | 2.72 | 222401 | 5.92 | 888930 | 6.94 | 440665 | 8.39 | 821960 | 9.89 | 704337 | 12.99 | 757902 | 14.66 |
| 7M116574.D | AD25862-006 | 122182 | 2.72 | 219760 | 5.92 | 875747 | 6.93 | 430199 | 8.39 | 802089 | 9.89 | 694847 | 12.99 | 748708 | 14.66 |
| 7M116575.D | AD26041-002 | 121576 | 2.72 | 221533 | 5.92 | 876171 | 6.94 | 427950 | 8.39 | 787826 | 9.89 | 696213 | 12.99 | 757072 | 14.66 |
| 7M116576.D | AD26041-003 | 115306 | 2.72 | 235871 | 5.92 | 932031 | 6.94 | 453984 | 8.39 | 851702 | 9.89 | 734272 | 12.99 | 799674 | 14.66 |
| 7M116577.D | AD26041-004 | 121990 | 2.72 | 243800 | 5.92 | 968403 | 6.94 | 479255 | 8.39 | 875662 | 9.89 | 772635 | 12.99 | 833706 | 14.66 |
| 7M116578.D | AD26041-005 | 120193 | 2.72 | 219750 | 5.92 | 878482 | 6.94 | 434552 | 8.39 | 818877 | 9.89 | 682998 | 12.99 | 741767 | 14.66 |
| 7M116579.D | AD26041-006 | 120769 | 2.72 | 219260 | 5.92 | 869694 | 6.94 | 428025 | 8.39 | 806086 | 9.89 | 687820 | 12.99 | 743633 | 14.66 |
| 7M116580.D | AD26041-007 | 125867 | 2.72 | 223390 | 5.92 | 886218 | 6.93 | 426814 | 8.39 | 790398 | 9.89 | 692706 | 12.99 | 752542 | 14.66 |
| 7M116581.D | AD26041-008 | 133133 | 2.72 | 241729 | 5.92 | 955258 | 6.93 | 472388 | 8.39 | 865282 | 9.89 | 749611 | 12.99 | 825582 | 14.66 |
| 7M116582.D | AD26041-009 | 137069 | 2.72 | 258193 | 5.92 | 1019993 | 6.94 | 493718 | 8.39 | 920155 | 9.89 | 823738 | 12.99 | 935177 | 14.66 |
| 7M116583.D | AD26041-010 | 123633 | 2.72 | 223860 | 5.92 | 893244 | 6.93 | 438345 | 8.39 | 813605 | 9.89 | 703416 | 12.99 | 771358 | 14.66 |
| 7M116584.D | AD26083-032 | 146898 | 2.73 | 254961 | 5.92 | 984494 | 6.94 | 483914 | 8.39 | 904939 | 9.89 | 796275 | 12.99 | 884409 | 14.66 |
| 7M116585.D | AD26083-033 | 149073 | 2.73 | 250371 | 5.92 | 966154 | 6.93 | 471174 | 8.39 | 896248 | 9.89 | 775656 | 12.98 | 865034 | 14.66 |
| 7M116586.D | AD26083-035 | 164303 | 2.73 | 278807 | 5.92 | 1074971 | 6.94 | 516477 | 8.39 | 976282 | 9.89 | 847145 | 12.98 | 941414 | 14.66 |
| 7M116587.D | AD26083-036 | 159128 | 2.73 | 270953 | 5.92 | 1050273 | 6.94 | 519252 | 8.39 | 961311 | 9.89 | 848931 | 12.99 | 945600 | 14.66 |
| 7M116588.D | AD26083-038 | 155855 | 2.73 | 269370 | 5.92 | 1054774 | 6.93 | 514744 | 8.39 | 969886 | 9.89 | 854383 | 12.99 | 948758 | 14.66 |
| 7M116589.D | AD26083-046 | 132314 | 2.72 | 236152 | 5.92 | 926591 | 6.93 | 455416 | 8.39 | 855766 | 9.89 | 750644 | 12.98 | 828674 | 14.66 |

| | | | | | |
|---|---|---|---|---|---|
| I1 = | 1,4-Dioxane-d8(INT) | I4 = | Acenaphthene-d10 | I7 = | Perylene-d12 |
| I2 = | 1,4-Dichlorobenzene-d4 | I5 = | Phenanthrene-d10 | | |
| I3 = | Naphthalene-d8 | I6 = | Chrysene-d12 | | |

**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
**624/8260 Internal Standard concentration = 30ug/L**
**524 Internal Standard concentration =5ug/L**

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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# FORM8

Internal Standard Areas

Evaluation Std Data File: 5M117928.D  Method: EPA 8270E

Analysis Date/Time: 09/20/21 11:52

Lab File ID: CAL BNA@50PPM

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 93206 | 2.60 | 115525 | 5.82 | 444850 | 6.82 | 235369 | 8.25 | 459673 | 9.71 | 461393 | 12.77 | 502985 | 14.39 |
| Eval File Area Limit: | 46603-186412 | | 57762-231050 | | 222425-889700 | | 117684-470738 | | 229836-919346 | | 230696-922786 | | 251492-1005970 | |
| Eval File Rt Limit: | 2.1-3.1 | | 5.32-6.32 | | 6.32-7.32 | | 7.75-8.75 | | 9.21-10.21 | | 12.27-13.27 | | 13.89-14.89 | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5M117920.D | CAL BNA@10PPM | 84617 | 2.59 | 106177 | 5.82 | 403646 | 6.82 | 213499 | 8.25 | 416904 | 9.71 | 400257 | 12.77 | 439744 | 14.39 |
| 5M117921.D | CAL BNA@2PPM | 103990 | 2.60 | 135074 | 5.82 | 531816 | 6.82 | 277631 | 8.25 | 544388 | 9.71 | 542888 | 12.77 | 597404 | 14.39 |
| 5M117922.D | CAL BNA@196PPM | 87802 | 2.60 | 103083 | 5.82 | 408405 | 6.83 | 218491 | 8.26 | 427616 | 9.72 | 396971 | 12.78 | 446038 | 14.40 |
| 5M117923.D | CAL BNA@160PPM | 87463 | 2.59 | 112004 | 5.82 | 433954 | 6.83 | 225273 | 8.26 | 443392 | 9.72 | 426074 | 12.78 | 483205 | 14.39 |
| 5M117924.D | CAL BNA@120PPM | 65672 | 2.58 | 85746 | 5.82 | 337247 | 6.83 | 176687 | 8.25 | 333907 | 9.72 | 327550 | 12.77 | 372469 | 14.39 |
| 5M117925.D | CAL BNA@80PPM | 89227 | 2.59 | 114156 | 5.82 | 429312 | 6.83 | 225918 | 8.25 | 445979 | 9.72 | 424859 | 12.77 | 467974 | 14.39 |
| 5M117927.D | CAL BNA@0.5PPM | 70621 | 2.60 | 94622 | 5.82 | 367122 | 6.82 | 194700 | 8.25 | 371753 | 9.71 | 369264 | 12.77 | 402152 | 14.39 |
| 5M117928.D | CAL BNA@50PPM | 93206 | 2.60 | 115525 | 5.82 | 444850 | 6.82 | 235369 | 8.25 | 459673 | 9.71 | 461393 | 12.77 | 502985 | 14.39 |
| 5M117929.D | CAL BNA@20PPM | 87051 | 2.59 | 116400 | 5.82 | 453165 | 6.82 | 232668 | 8.25 | 448988 | 9.71 | 452399 | 12.77 | 485726 | 14.39 |
| 5M117930.D | ICV BNA@50PPM | 60034 | 2.59 | 82840 | 5.82 | 324799 | 6.82 | 168321 | 8.25 | 331734 | 9.72 | 332793 | 12.77 | 358307 | 14.39 |
| 5M117931.D | WMB94967 | 92808 | 2.59 | 121927 | 5.81 | 462764 | 6.82 | 237868 | 8.25 | 463783 | 9.71 | 437492 | 12.77 | 477514 | 14.39 |
| 5M117932.D | WMB94967(MS) | 77636 | 2.60 | 99153 | 5.82 | 381943 | 6.83 | 193227 | 8.25 | 378686 | 9.72 | 365032 | 12.77 | 397964 | 14.39 |
| 5M117933.D | AD26041-001 | 59300 | 2.59 | 81900 | 5.82 | 321803 | 6.82 | 160747 | 8.25 | 320100 | 9.71 | 303025 | 12.76 | 333691 | 14.38 |

| | | | | | | |
|---|---|---|---|---|---|---|
| I1 = | 1,4-Dioxane-d8(INT) | I4 = | Acenaphthene-d10 | I7 = | Perylene-d12 | 625/8270 Internal Standard concentration = 40 mg/L (in final extract) |
| I2 = | 1,4-Dichlorobenzene-d4 | I5 = | Phenanthrene-d10 | | | 624/8260 Internal Standard concentration = 30ug/L |
| I3 = | Naphthalene-d8 | I6 = | Chrysene-d12 | | | 524 Internal Standard concentration =5ug/L |

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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# FORM8

Internal Standard Areas

Evaluation Std Data File: 10M87373.D  Method: EPA 8270E

Analysis Date/Time: 09/20/21 12:26

Lab File ID: CAL BNA@50PPM

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 30033 | 2.74 | 59625 | 5.90 | 240432 | 6.91 | 117797 | 8.34 | 206573 | 9.80 | 157056 | 12.85 | 166354 | 14.47 |
| Eval File Area Limit: | 15016-60066 | | 29812-119250 | | 120216-480864 | | 58898-235594 | | 103286-413146 | | 78528-314112 | | 83177-332708 | |
| Eval File Rt Limit: | 2.24-3.24 | | 5.4-6.4 | | 6.41-7.41 | | 7.84-8.84 | | 9.3-10.3 | | 12.35-13.35 | | 13.97-14.97 | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10M87365.D | CAL BNA@10PPM | 25850 | 2.74 | 51290 | 5.90 | 207693 | 6.90 | 101517 | 8.33 | 181565 | 9.79 | 137268 | 12.84 | 144481 | 14.47 |
| 10M87366.D | CAL BNA@2PPM | 30503 | 2.74 | 60688 | 5.90 | 251923 | 6.90 | 125158 | 8.33 | 222724 | 9.79 | 168784 | 12.84 | 179111 | 14.47 |
| 10M87367.D | CAL BNA@196PPM | 26976 | 2.74 | 53985 | 5.90 | 221465 | 6.91 | 110731 | 8.34 | 194880 | 9.80 | 143694 | 12.85 | 156246 | 14.47 |
| 10M87368.D | CAL BNA@160PPM | 29565 | 2.74 | 58009 | 5.90 | 237413 | 6.91 | 117125 | 8.34 | 207055 | 9.80 | 154432 | 12.85 | 169218 | 14.47 |
| 10M87369.D | CAL BNA@120PPM | 29811 | 2.74 | 58442 | 5.90 | 237090 | 6.91 | 116313 | 8.34 | 205309 | 9.80 | 157085 | 12.85 | 165294 | 14.47 |
| 10M87370.D | CAL BNA@80PPM | 30250 | 2.74 | 59217 | 5.90 | 240858 | 6.91 | 117382 | 8.34 | 208685 | 9.80 | 156978 | 12.85 | 165609 | 14.47 |
| 10M87371.D | CAL BNA@20PPM | 28268 | 2.75 | 56475 | 5.90 | 232209 | 6.91 | 112392 | 8.33 | 198015 | 9.80 | 152298 | 12.84 | 158615 | 14.47 |
| 10M87372.D | CAL BNA@0.5PPM | 30055 | 2.74 | 60258 | 5.90 | 248930 | 6.91 | 121026 | 8.33 | 214671 | 9.79 | 164640 | 12.84 | 171953 | 14.47 |
| 10M87373.D | CAL BNA@50PPM | 30033 | 2.74 | 59625 | 5.90 | 240432 | 6.91 | 117797 | 8.34 | 206573 | 9.80 | 157056 | 12.85 | 166354 | 14.47 |
| 10M87374.D | ICV BNA@50PPM | 30034 | 2.75 | 59310 | 5.90 | 240935 | 6.91 | 116829 | 8.34 | 207249 | 9.80 | 157200 | 12.85 | 162649 | 14.47 |

| | | | | | |
|---|---|---|---|---|---|
| I1 = | 1,4-Dioxane-d8(INT) | I4 = | Acenaphthene-d10 | I7 = | Perylene-d12 |
| I2 = | 1,4-Dichlorobenzene-d4 | I5 = | Phenanthrene-d10 | | |
| I3 = | Naphthalene-d8 | I6 = | Chrysene-d12 | | |

**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
**624/8260 Internal Standard concentration = 30ug/L**
**524 Internal Standard concentration =5ug/L**

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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# FORM8

Internal Standard Areas

Evaluation Std Data File: 10M87376.D  Method: EPA 8270E

Analysis Date/Time: 09/20/21 14:13

Lab File ID: CAL BNA@50PPM

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 30563 | 2.74 | 59816 | 5.90 | 242316 | 6.91 | 119462 | 8.34 | 212561 | 9.80 | 160131 | 12.85 | 168483 | 14.47 |
| Eval File Area Limit: | 15282-61126 | | 29908-119632 | | 121158-484632 | | 59731-238924 | | 106280-425122 | | 80066-320262 | | 84242-336966 | |
| Eval File Rt Limit: | 2.24-3.24 | | 5.4-6.4 | | 6.41-7.41 | | 7.84-8.84 | | 9.3-10.3 | | 12.35-13.35 | | 13.97-14.97 | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10M87377.D | AD26083-001 | 25222 | 2.74 | 49168 | 5.90 | 195396 | 6.91 | 95566 | 8.33 | 166307 | 9.80 | 124551 | 12.84 | 128322 | 14.47 |
| 10M87378.D | AD26083-002 | 25379 | 2.75 | 49945 | 5.90 | 201924 | 6.91 | 96602 | 8.33 | 163896 | 9.80 | 120147 | 12.84 | 123426 | 14.47 |
| 10M87379.D | AD26083-003 | 24933 | 2.75 | 48461 | 5.90 | 195607 | 6.91 | 94499 | 8.33 | 166316 | 9.80 | 123004 | 12.84 | 126921 | 14.47 |
| 10M87380.D | AD26083-005 | 26288 | 2.75 | 51005 | 5.90 | 208103 | 6.90 | 100773 | 8.33 | 176460 | 9.79 | 132509 | 12.84 | 134571 | 14.47 |
| 10M87381.D | AD26083-006 | 23185 | 2.74 | 45973 | 5.90 | 187272 | 6.90 | 90170 | 8.33 | 159162 | 9.79 | 117231 | 12.84 | 120968 | 14.47 |
| 10M87382.D | AD26083-008 | 25255 | 2.75 | 49311 | 5.90 | 199418 | 6.91 | 95604 | 8.33 | 169229 | 9.79 | 125828 | 12.84 | 127153 | 14.47 |
| 10M87383.D | AD26083-009 | 25786 | 2.75 | 49142 | 5.90 | 197717 | 6.91 | 94399 | 8.33 | 168104 | 9.80 | 124340 | 12.84 | 127289 | 14.47 |
| 10M87384.D | AD26083-011 | 24663 | 2.74 | 47154 | 5.90 | 188916 | 6.91 | 90460 | 8.33 | 161977 | 9.79 | 117955 | 12.84 | 122798 | 14.47 |
| 10M87385.D | AD26083-012 | 26836 | 2.75 | 51076 | 5.90 | 205031 | 6.91 | 98322 | 8.33 | 174720 | 9.79 | 127296 | 12.84 | 133094 | 14.47 |
| 10M87386.D | AD26083-014 | 25502 | 2.74 | 49431 | 5.90 | 202351 | 6.91 | 96011 | 8.33 | 171105 | 9.80 | 124867 | 12.84 | 129314 | 14.47 |
| 10M87387.D | AD26083-016 | 25237 | 2.75 | 49335 | 5.90 | 199775 | 6.91 | 96709 | 8.33 | 170062 | 9.79 | 124296 | 12.84 | 126313 | 14.47 |
| 10M87388.D | AD26083-018 | 25424 | 2.74 | 48560 | 5.90 | 196576 | 6.90 | 93478 | 8.33 | 165596 | 9.79 | 122968 | 12.84 | 124553 | 14.47 |
| 10M87389.D | AD26083-021 | 25284 | 2.74 | 49972 | 5.90 | 201798 | 6.90 | 96420 | 8.33 | 167643 | 9.79 | 124162 | 12.84 | 129615 | 14.47 |
| 10M87390.D | AD26083-023 | 26565 | 2.74 | 51309 | 5.90 | 208809 | 6.90 | 101210 | 8.33 | 174179 | 9.79 | 127401 | 12.84 | 132621 | 14.47 |
| 10M87391.D | AD26083-026 | 24121 | 2.74 | 47290 | 5.90 | 191288 | 6.90 | 92498 | 8.33 | 161843 | 9.79 | 117928 | 12.84 | 120725 | 14.47 |
| 10M87392.D | AD26083-027 | 27687 | 2.75 | 53605 | 5.90 | 216665 | 6.90 | 103721 | 8.33 | 182631 | 9.79 | 133906 | 12.84 | 137875 | 14.47 |
| 10M87393.D | AD26083-028 | 24813 | 2.75 | 49861 | 5.90 | 199287 | 6.91 | 95265 | 8.33 | 168300 | 9.79 | 122965 | 12.84 | 127546 | 14.47 |
| 10M87394.D | AD26083-030 | 25565 | 2.75 | 49174 | 5.90 | 199677 | 6.90 | 94609 | 8.33 | 168537 | 9.79 | 122776 | 12.84 | 124427 | 14.47 |
| 10M87395.D | AD26083-038 | 33607 | 2.74 | 64396 | 5.90 | 258180 | 6.90 | 124345 | 8.33 | 218868 | 9.79 | 158561 | 12.84 | 161198 | 14.47 |
| 10M87396.D | AD26083-040 | 25927 | 2.75 | 51323 | 5.90 | 201541 | 6.91 | 94493 | 8.33 | 164648 | 9.79 | 120996 | 12.84 | 125624 | 14.47 |
| 10M87397.D | AD26083-046 | 30077 | 2.75 | 58907 | 5.90 | 239873 | 6.90 | 114912 | 8.33 | 200869 | 9.79 | 147231 | 12.84 | 151314 | 14.47 |
| 10M87398.D | AD26083-048 | 26297 | 2.75 | 50912 | 5.90 | 204089 | 6.90 | 97295 | 8.33 | 172940 | 9.79 | 127101 | 12.84 | 129936 | 14.47 |
| 10M87399.D | AD26083-049(MS:AD | 27441 | 2.75 | 52864 | 5.90 | 213674 | 6.91 | 101920 | 8.33 | 177516 | 9.79 | 131917 | 12.85 | 136453 | 14.47 |
| 10M87400.D | AD26083-050(MSD:A | 26692 | 2.74 | 51388 | 5.90 | 209385 | 6.91 | 99786 | 8.33 | 173540 | 9.80 | 128095 | 12.85 | 132998 | 14.47 |
| 10M87401.D | AD26083-042(MS:AD | 25297 | 2.76 | 48775 | 5.90 | 193140 | 6.91 | 93711 | 8.33 | 163151 | 9.80 | 117532 | 12.85 | 120240 | 14.47 |
| 10M87402.D | AD26083-044(MSD:A | 22736 | 2.76 | 44396 | 5.90 | 174413 | 6.91 | 83096 | 8.33 | 145979 | 9.80 | 108035 | 12.85 | 111088 | 14.47 |

| | | | | | | |
|---|---|---|---|---|---|---|
| I1 = | 1,4-Dioxane-d8(INT) | I4 = | Acenaphthene-d10 | I7 = | Perylene-d12 | 625/8270 Internal Standard concentration = 40 mg/L (in final extract) |
| I2 = | 1,4-Dichlorobenzene-d4 | I5 = | Phenanthrene-d10 | | | 624/8260 Internal Standard concentration = 30ug/L |
| I3 = | Naphthalene-d8 | I6 = | Chrysene-d12 | | | 524 Internal Standard concentration =5ug/L |

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

1091738 0911

# FORM8

Internal Standard Areas

Evaluation Std Data File: 10M87404.D  Method: EPA 8270E

Analysis Date/Time: 09/21/21 10:04

Lab File ID: CAL BNA@50PPM

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 29178 | 2.75 | 56745 | 5.90 | 230351 | 6.91 | 114462 | 8.33 | 204411 | 9.80 | 156731 | 12.85 | 163078 | 14.47 |
| Eval File Area Limit: | 14589-58356 | | 28372-113490 | | 115176-460702 | | 57231-228924 | | 102206-408822 | | 78366-313462 | | 81539-326156 | |
| Eval File Rt Limit: | 2.25-3.25 | | 5.4-6.4 | | 6.41-7.41 | | 7.83-8.83 | | 9.3-10.3 | | 12.35-13.35 | | 13.97-14.97 | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10M87405.D | 972 | 25684 | 2.74 | 48934 | 5.90 | 195224 | 6.90 | 94603 | 8.33 | 170021 | 9.79 | 126838 | 12.84 | 131524 | 14.47 |
| 10M87406.D | 72(TEST) | 25082 | 2.74 | 48947 | 5.90 | 196497 | 6.91 | 95280 | 8.33 | 168679 | 9.80 | 128557 | 12.84 | 134157 | 14.47 |
| 10M87407.D | OMB94977 | 17555 | 2.75 | 34049 | 5.90 | 137940 | 6.90 | 66243 | 8.33 | 119135 | 9.79 | 88301 | 12.84 | 89159 | 14.47 |
| 10M87408.D | OMB94977(MS) | 20634 | 2.75 | 40658 | 5.90 | 163226 | 6.91 | 79377 | 8.33 | 137891 | 9.79 | 105238 | 12.84 | 107777 | 14.47 |
| 10M87409.D | WMB94959(MS) | 23979 | 2.76 | 47160 | 5.90 | 185924 | 6.91 | 89982 | 8.33 | 159962 | 9.80 | 119541 | 12.85 | 123776 | 14.47 |
| 10M87410.D | WMB94960(MS) | 24574 | 2.75 | 48931 | 5.90 | 196187 | 6.91 | 93920 | 8.33 | 168153 | 9.80 | 125070 | 12.85 | 126454 | 14.47 |
| 10M87411.D | WMB94960 | 30476 | 2.74 | 56972 | 5.90 | 229916 | 6.90 | 110031 | 8.33 | 197454 | 9.80 | 147686 | 12.84 | 150801 | 14.47 |
| 10M87412.D | WMB94959 | 24653 | 2.74 | 46932 | 5.90 | 196569 | 6.90 | 91530 | 8.33 | 164293 | 9.79 | 119634 | 12.84 | 122566 | 14.47 |
| 10M87413.D | OMB94972 | 30295 | 2.74 | 56799 | 5.90 | 230043 | 6.90 | 111036 | 8.33 | 200174 | 9.80 | 145620 | 12.84 | 152244 | 14.47 |
| 10M87414.D | OMB94972(MS) | 28255 | 2.74 | 55634 | 5.90 | 220512 | 6.91 | 106254 | 8.33 | 190180 | 9.80 | 142062 | 12.85 | 148037 | 14.47 |
| 10M87415.D | WMB94984 | 26225 | 2.74 | 49451 | 5.90 | 203982 | 6.90 | 96583 | 8.33 | 173818 | 9.80 | 127944 | 12.84 | 132073 | 14.47 |
| 10M87416.D | AD25961-004 | 23635 | 2.74 | 44343 | 5.90 | 182451 | 6.90 | 87238 | 8.33 | 153884 | 9.80 | 114445 | 12.84 | 118041 | 14.47 |
| 10M87417.D | AD25961-005 | 23268 | 2.75 | 45395 | 5.90 | 183565 | 6.90 | 87011 | 8.33 | 154237 | 9.79 | 114495 | 12.84 | 118890 | 14.47 |
| 10M87418.D | AD25961-006 | 23896 | 2.74 | 46771 | 5.90 | 190741 | 6.90 | 92416 | 8.33 | 162608 | 9.79 | 119752 | 12.84 | 123694 | 14.47 |
| 10M87419.D | AD25961-007 | 24918 | 2.75 | 49414 | 5.90 | 197891 | 6.91 | 95517 | 8.33 | 167830 | 9.79 | 125135 | 12.84 | 127492 | 14.47 |
| 10M87420.D | AD25973-001 | 26737 | 2.75 | 52325 | 5.90 | 210057 | 6.91 | 101253 | 8.33 | 179232 | 9.79 | 131377 | 12.84 | 136421 | 14.47 |
| 10M87421.D | AD25973-002 | 26627 | 2.75 | 51617 | 5.90 | 204686 | 6.91 | 98553 | 8.33 | 169275 | 9.79 | 127628 | 12.84 | 132032 | 14.47 |
| 10M87422.D | AD25973-003 | 26618 | 2.76 | 51345 | 5.90 | 208771 | 6.91 | 99546 | 8.33 | 175655 | 9.80 | 130369 | 12.84 | 134924 | 14.47 |
| 10M87423.D | AD25973-004 | 27133 | 2.74 | 52891 | 5.90 | 214128 | 6.91 | 103346 | 8.33 | 182470 | 9.79 | 132686 | 12.84 | 137103 | 14.47 |

| | | | | | |
|---|---|---|---|---|---|
| I1 = | 1,4-Dioxane-d8(INT) | I4 = | Acenaphthene-d10 | I7 = | Perylene-d12 |
| I2 = | 1,4-Dichlorobenzene-d4 | I5 = | Phenanthrene-d10 | | |
| I3 = | Naphthalene-d8 | I6 = | Chrysene-d12 | | |

**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
**624/8260 Internal Standard concentration = 30ug/L**
**524 Internal Standard concentration =5ug/L**

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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# FORM8

Internal Standard Areas

Evaluation Std Data File: 5M117935.D  Method: EPA 8270E

Analysis Date/Time: 09/21/21 10:26

Lab File ID: CAL BNA@50PPM

| | I1 | | I2 | | I3 | | I4 | | I5 | | I6 | | I7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT | Area | RT |
| Eval File Area/RT: | 75639 | 2.59 | 92564 | 5.82 | 348451 | 6.82 | 183984 | 8.25 | 360738 | 9.72 | 353050 | 12.77 | 390971 | 14.39 |
| Eval File Area Limit: | 37820-151278 | | 46282-185128 | | 174226-696902 | | 91992-367968 | | 180369-721476 | | 176525-706100 | | 195486-781942 | |
| Eval File Rt Limit: | 2.09-3.09 | | 5.32-6.32 | | 6.32-7.32 | | 7.75-8.75 | | 9.22-10.22 | | 12.27-13.27 | | 13.89-14.89 | |

| Data File | Sample# | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5M117936.D | WMB94984 | 63822 | 2.58 | 81854 | 5.81 | 313750 | 6.82 | 157682 | 8.25 | 304910 | 9.71 | 298082 | 12.77 | 319370 | 14.39 |
| 5M117937.D | AD25976-011 | 47324 | 2.59 | 62698 | 5.82 | 242703 | 6.82 | 124511 | 8.25 | 244710 | 9.71 | 237987 | 12.76 | 248859 | 14.38 |
| 5M117938.D | WMB94984(MS) | 65658 | 2.60 | 89161 | 5.82 | 340379 | 6.83 | 172556 | 8.25 | 334300 | 9.72 | 330224 | 12.77 | 354510 | 14.39 |
| 5M117939.D | AD25969-001(MS) | 59177 | 2.60 | 74392 | 5.82 | 275913 | 6.83 | 135542 | 8.25 | 258769 | 9.72 | 250459 | 12.77 | 277364 | 14.39 |
| 5M117940.D | AD25969-001(MSD) | 63123 | 2.60 | 89138 | 5.82 | 333384 | 6.83 | 161409 | 8.25 | 312676 | 9.72 | 304645 | 12.77 | 330783 | 14.39 |
| 5M117941.D | AD25969-001 | 44306 | 2.60 | 61798 | 5.82 | 231744 | 6.82 | 115934 | 8.25 | 217902 | 9.72 | 210467 | 12.77 | 225039 | 14.39 |
| 5M117942.D | AD25969-002 | 42767 | 2.60 | 62875 | 5.82 | 245299 | 6.82 | 125870 | 8.25 | 240488 | 9.71 | 228026 | 12.77 | 240912 | 14.38 |
| 5M117943.D | AD25969-003 | 63969 | 2.60 | 84186 | 5.82 | 332331 | 6.82 | 168650 | 8.25 | 314755 | 9.71 | 299446 | 12.77 | 316569 | 14.39 |
| 5M117944.D | AD25969-004 | 69552 | 2.60 | 98898 | 5.82 | 371822 | 6.82 | 189864 | 8.25 | 346200 | 9.71 | 327886 | 12.77 | 353840 | 14.39 |
| 5M117945.D | AD25969-005 | 45048 | 2.60 | 64239 | 5.82 | 250240 | 6.82 | 131066 | 8.25 | 256344 | 9.71 | 243412 | 12.76 | 257072 | 14.38 |
| 5M117946.D | AD25969-006 | 44772 | 2.59 | 63080 | 5.82 | 244077 | 6.82 | 123727 | 8.25 | 236538 | 9.71 | 240878 | 12.76 | 260148 | 14.38 |
| 5M117947.D | AD25969-007 | 43772 | 2.59 | 61694 | 5.82 | 235884 | 6.82 | 119200 | 8.25 | 232413 | 9.71 | 226755 | 12.77 | 245300 | 14.38 |
| 5M117948.D | AD26083-019 | 45930 | 2.60 | 63271 | 5.82 | 246638 | 6.82 | 129479 | 8.25 | 246031 | 9.71 | 237277 | 12.76 | 257117 | 14.38 |
| 5M117949.D | AD25961-001 | 66675 | 2.59 | 93325 | 5.82 | 365538 | 6.82 | 183924 | 8.25 | 369947 | 9.71 | 353349 | 12.77 | 371977 | 14.39 |
| 5M117950.D | AD25961-002 | 44654 | 2.60 | 61887 | 5.82 | 235728 | 6.82 | 120161 | 8.25 | 231565 | 9.71 | 235950 | 12.76 | 252157 | 14.38 |
| 5M117951.D | AD25961-003 | 48148 | 2.59 | 67048 | 5.82 | 252549 | 6.82 | 130042 | 8.25 | 260174 | 9.71 | 251097 | 12.76 | 268857 | 14.38 |

| | | | | | | |
|---|---|---|---|---|---|---|
| I1 = | 1,4-Dioxane-d8(INT) | I4 = | Acenaphthene-d10 | I7 = | Perylene-d12 | 625/8270 Internal Standard concentration = 40 mg/L (in final extract) |
| I2 = | 1,4-Dichlorobenzene-d4 | I5 = | Phenanthrene-d10 | | | 624/8260 Internal Standard concentration = 30ug/L |
| I3 = | Naphthalene-d8 | I6 = | Chrysene-d12 | | | 524 Internal Standard concentration =5ug/L |

**Internal Standard Areas**

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

**Flags:**

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

**Retention Times:** Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

# GC/MS Base Neutral/Acid Extractable Data
# Sample Data

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-001
Client Id: LTMW-22-20210913
Data File: 10M87377.D
Analysis Date: 09/20/21 14:38
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

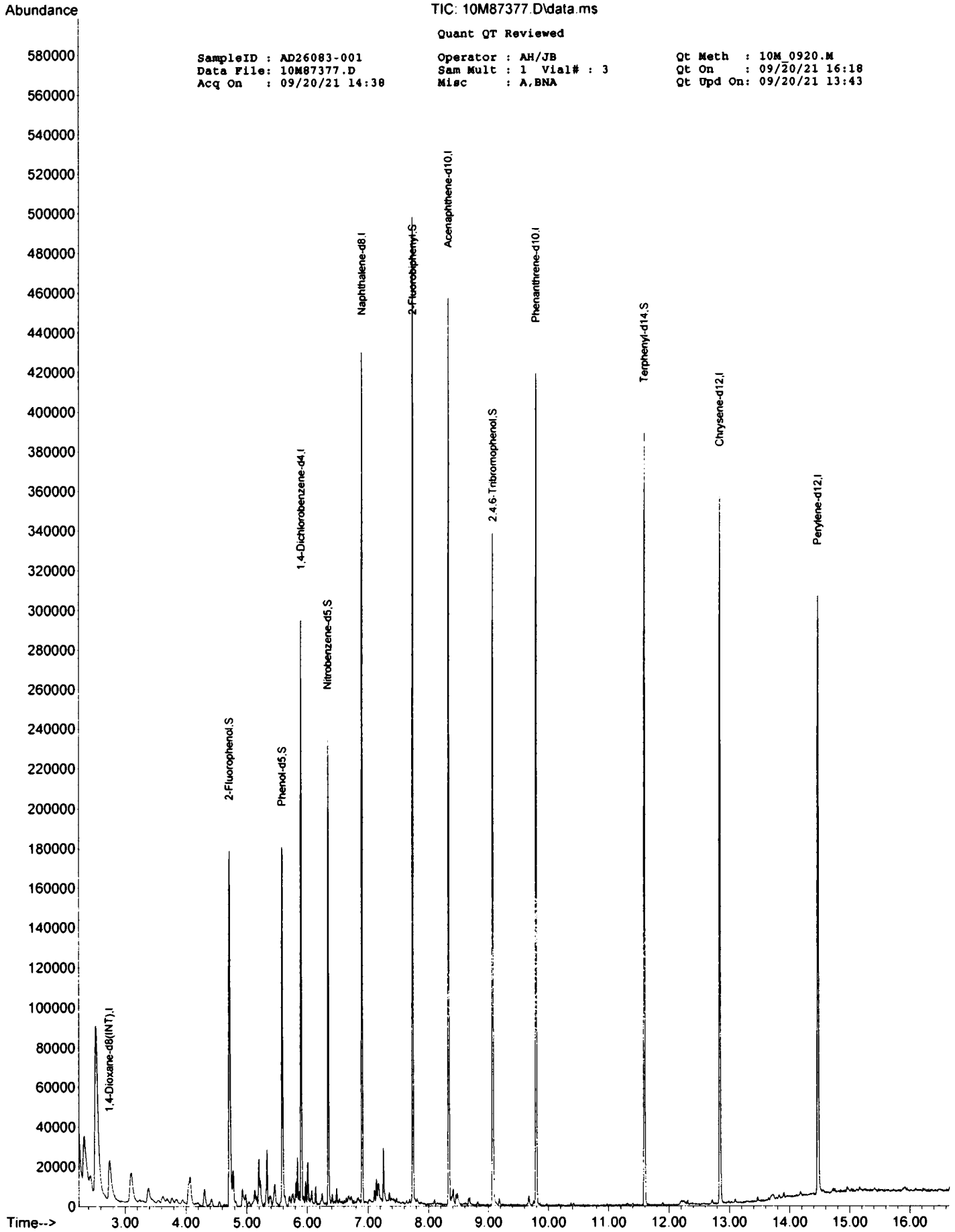
*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-001 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87377.D Sam Mult : 1 Vial# : 3 Qt On : 09/20/21 16:18
Acq On : 09/20/21 14:38 Misc : A,BNA Qt Upd On: 09/20/21 13:43

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.740 | 96 | 25222 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 49168 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 195396 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 95566 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 166307 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 124551 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 128322 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 83407 | 60.59 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 60.59% | | | |
| 16) Phenol-d5 | 5.591 | 99 | 68356 | 40.83 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 40.83% | | | |
| 32) Nitrobenzene-d5 | 6.345 | 128 | 34870 | 51.86 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 103.72% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 159576 | 52.71 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 105.42% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 35018 | 106.80 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 106.80% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 115369 | 59.46 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 118.92% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87377.D\data.ms
Quant QT Reviewed
SampleID : AD26083-001
Data File: 10M87377.D
Acq On : 09/20/21 14:38
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 16:18
Qt Upd On: 09/20/21 13:43
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-002
Client Id: LTMW-8-20210913
Data File: 10M87378.D
Analysis Date: 09/20/21 15:00
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| **123-91-1** | **1,4-Dioxane** | **0.00050** | **0.054** | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0.054

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

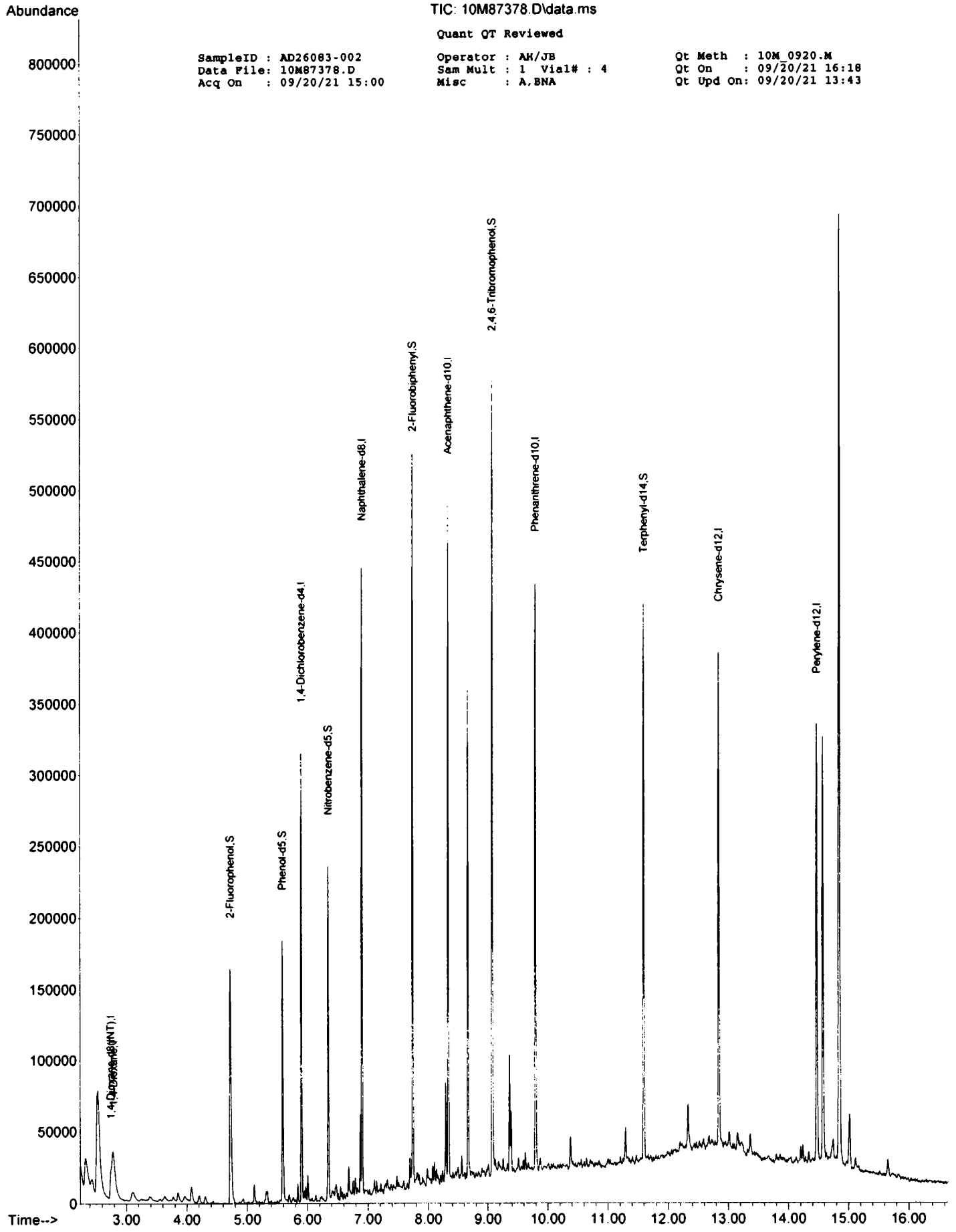
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

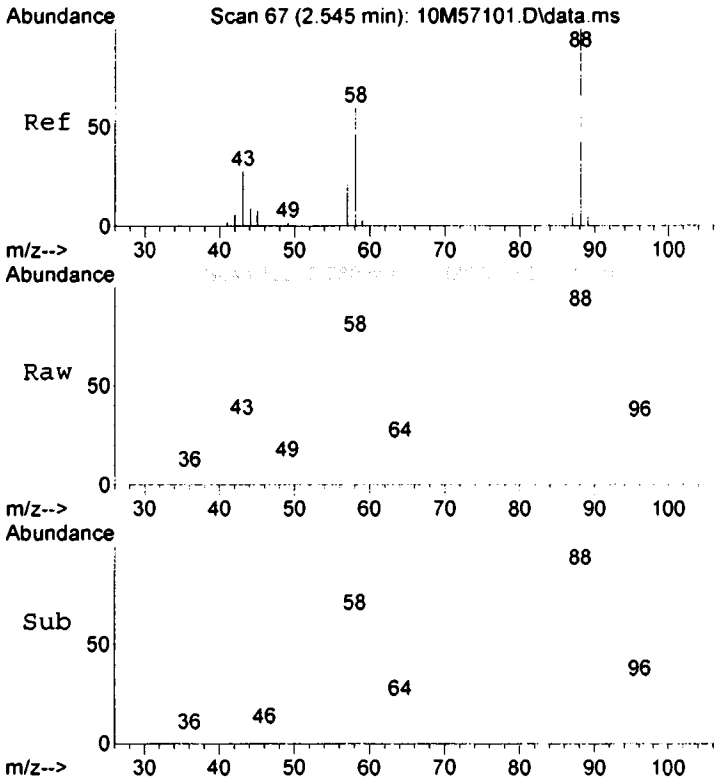
SampleID : AD26083-002 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87378.D Sam Mult : 1 Vial# : 4 Qt On : 09/20/21 16:18
Acq On : 09/20/21 15:00 Misc : A,BNA Qt Upd On: 09/20/21 13:43

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 25379 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 49945 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 201924 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 96602 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 163896 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 120147 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.475 | 264 | 123426 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.724 | 112 | 81319 | 58.71 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 58.71% | | | |
| 16) Phenol-d5 | 5.591 | 99 | 69681 | 41.37 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 41.37% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 36166 | 52.05 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 104.10% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 161500 | 52.77 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 105.54% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 37596 | 115.26 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 115.26% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 117653 | 62.86 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 125.72% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.788 | 88 | 32006 | 53.9725 | ng | 68 |

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

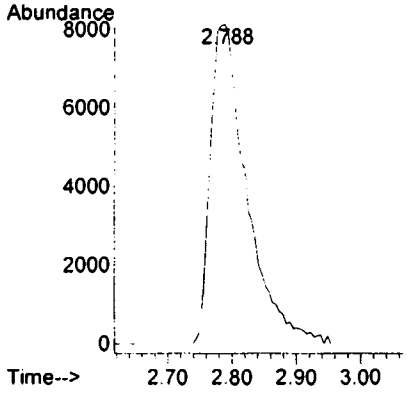

Abundance
TIC: 10M87378.D\data.ms
Quant QT Reviewed
SampleID : AD26083-002
Data File: 10M87378.D
Acq On : 09/20/21 15:00
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 16:18
Qt Upd On: 09/20/21 13:43
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I




#8
1,4-Dioxane
Concen: 53.97 ng
RT: 2.788 min Scan# 103
Delta R.T. 0.005 min
Lab File: 10M87378.D
Acq: 20 Sep 2021 15:00

Tgt Ion: 88 Resp: 32006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 72.1 | 0.0 | 100.0 |



# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-003
Client Id: LTMW-10-20210913 U
Data File: 10M87379.D
Analysis Date: 09/20/21 15:23
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

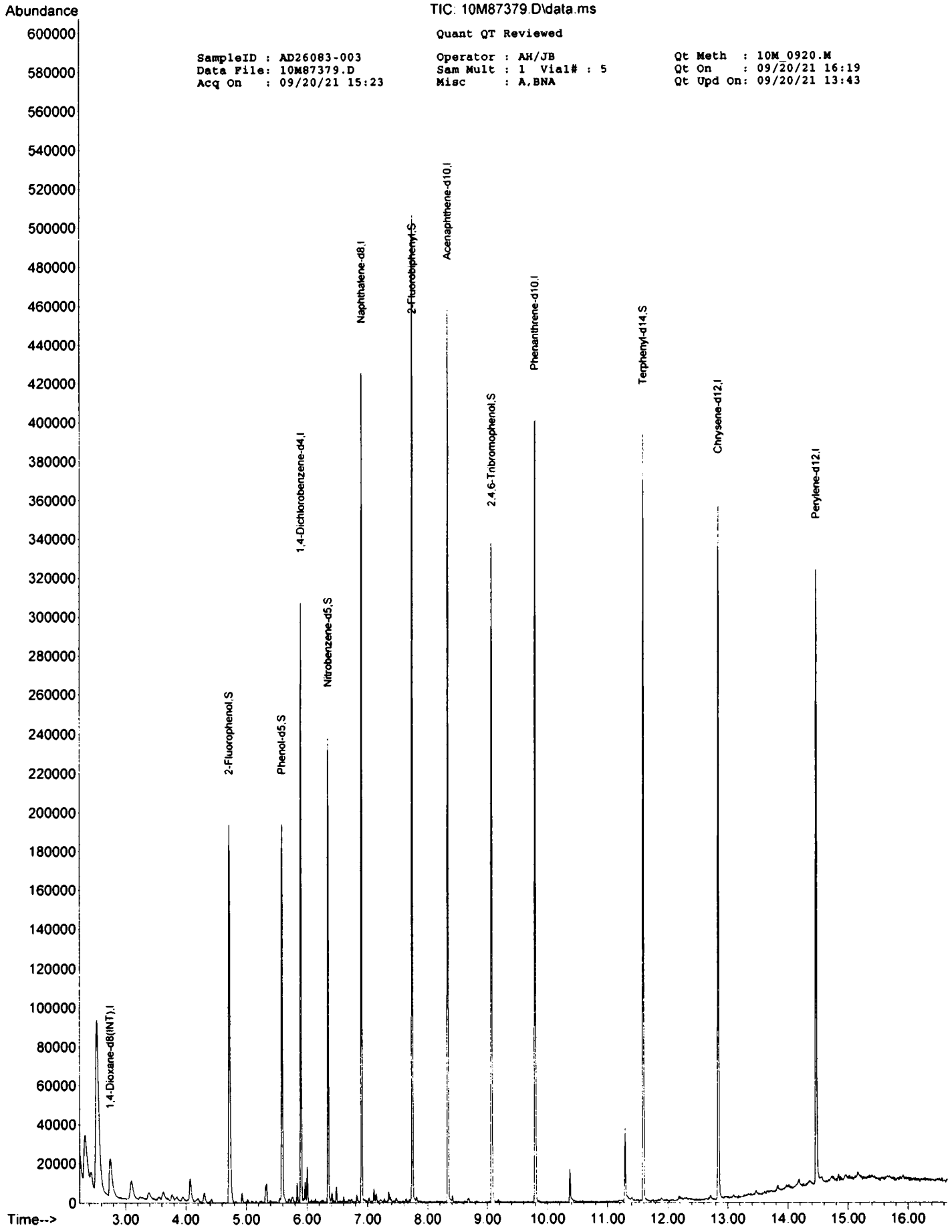
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-003 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87379.D Sam Mult : 1 Vial# : 5 Qt On : 09/20/21 16:19
Acq On : 09/20/21 15:23 Misc : A,BNA Qt Upd On: 09/20/21 13:43

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 24933 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 48461 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 195607 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 94499 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 166316 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 123004 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 126921 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 87707 | 64.46 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 64.46% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 73811 | 44.60 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 44.60% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 36234 | 53.83 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 107.66% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 160674 | 53.67 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 107.34% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 36031 | 109.55 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 109.55% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 116508 | 60.80 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 121.60% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87379.D\data.ms
Quant QT Reviewed
SampleID : AD26083-003
Data File: 10M87379.D
Acq On : 09/20/21 15:23
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 16:19
Qt Upd On: 09/20/21 13:43
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-005
Client Id: FB-20210913
Data File: 10M87380.D
Analysis Date: 09/20/21 15:45
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

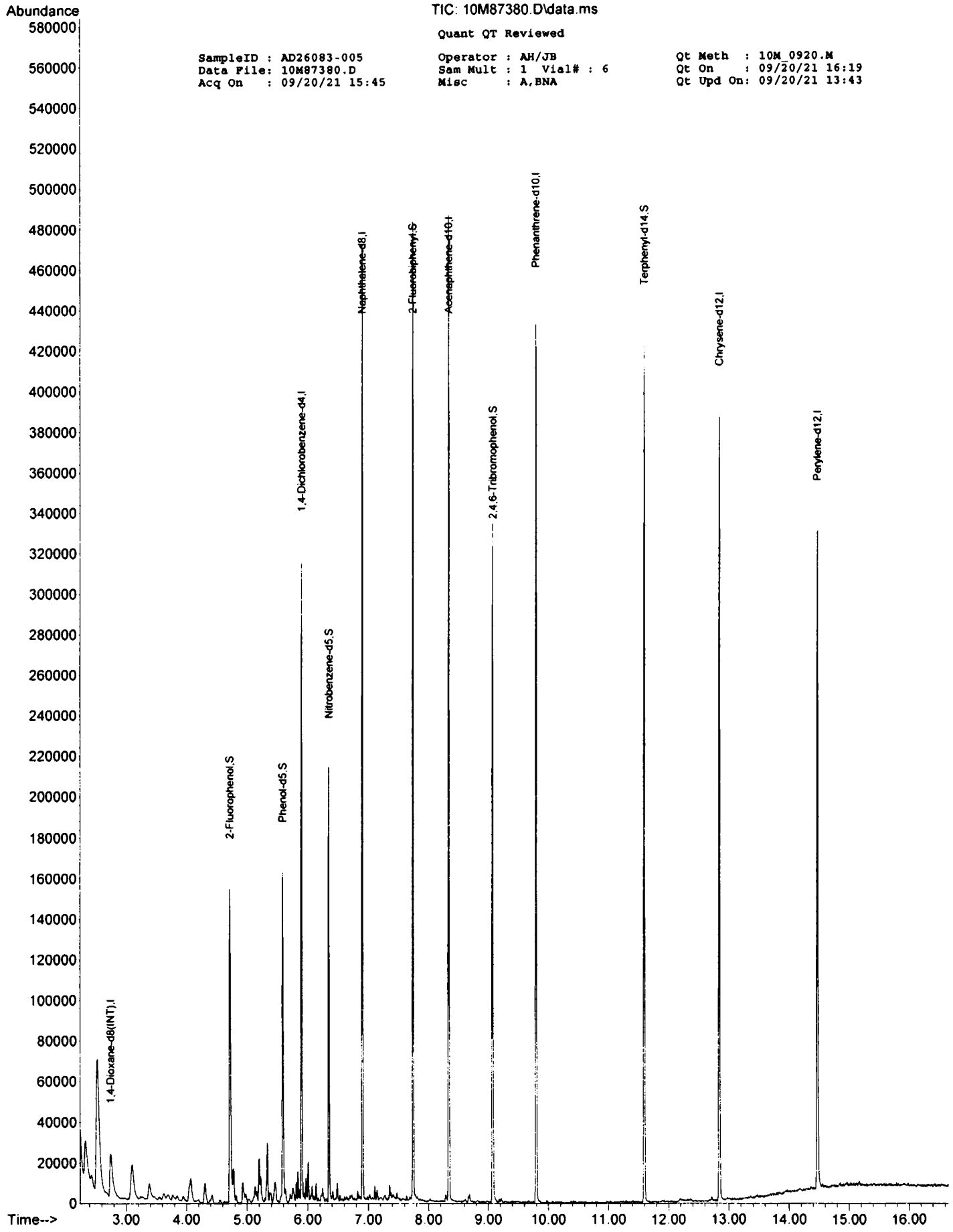
Quantitation Report (QT Reviewed)

SampleID : AD26083-005 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87380.D Sam Mult : 1 Vial# : 6 Qt On : 09/20/21 16:19
Acq On : 09/20/21 15:45 Misc : A,BNA Qt Upd On: 09/20/21 13:43

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 26288 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 51005 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.901 | 136 | 208103 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 100773 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.795 | 188 | 176460 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 132509 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 134571 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 70177 | 48.92 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 48.92% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 60486 | 34.67 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 34.67% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 32992 | 46.07 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 92.14% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 147299 | 46.14 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 92.28% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 34926 | 101.04 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 101.04% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 128061 | 62.04 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 124.08% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87380.D\data.ms
Quant QT Reviewed
SampleID : AD26083-005
Data File: 10M87380.D
Acq On : 09/20/21 15:45
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 16:19
Qt Upd On: 09/20/21 13:43
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-006
Client Id: LTMW-9-20210913 U
Data File: 10M87381.D
Analysis Date: 09/20/21 16:07
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

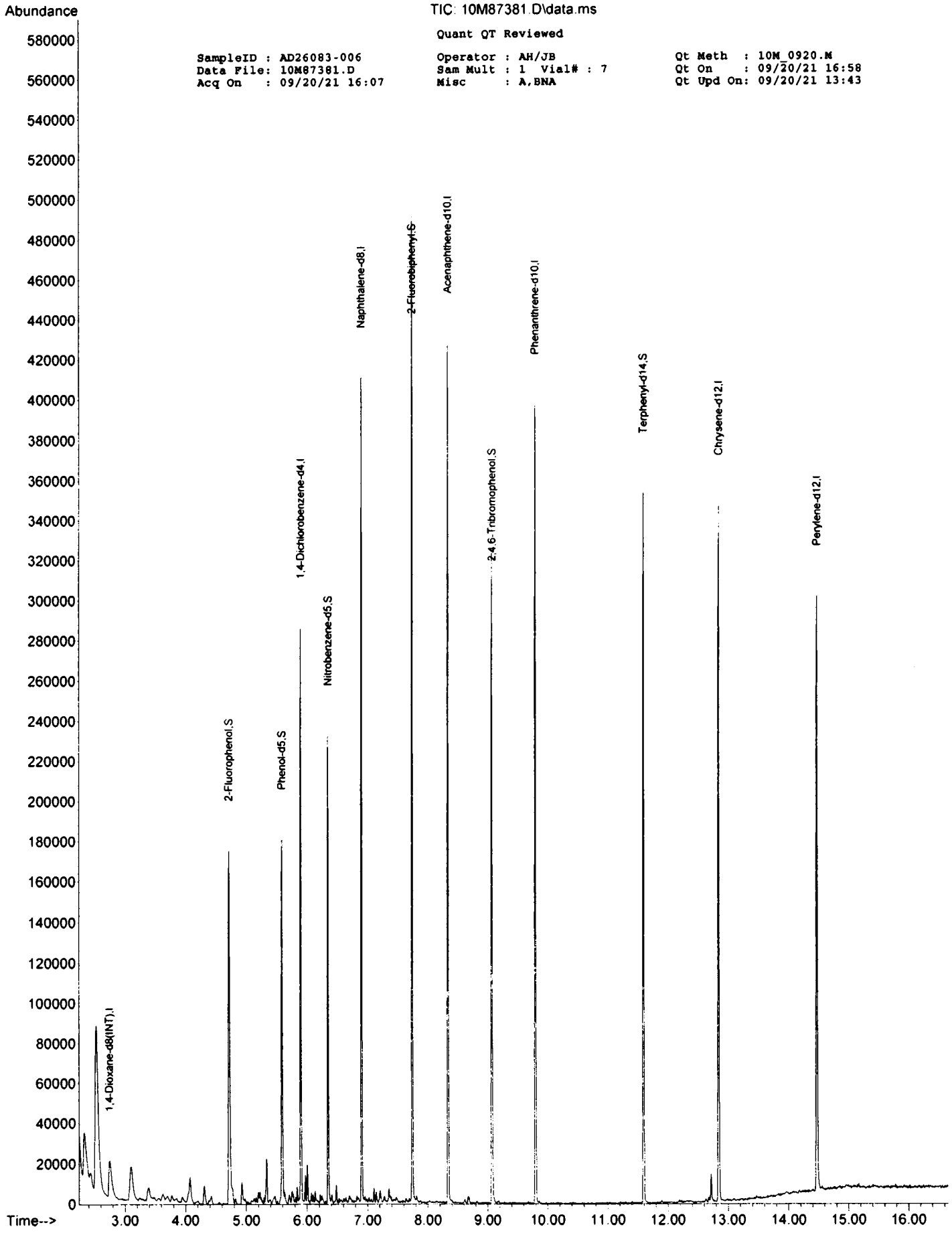
Quantitation Report (QT Reviewed)

SampleID : AD26083-006 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87381.D Sam Mult : 1 Vial# : 7 Qt On : 09/20/21 16:58
Acq On : 09/20/21 16:07 Misc : A,BNA Qt Upd On: 09/20/21 13:43

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.740 | 96 | 23185 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 45973 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.901 | 136 | 187272 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 90170 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.795 | 188 | 159162 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 117231 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 120968 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 82206 | 64.97 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 64.97% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 66860 | 43.45 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 43.45% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 34302 | 53.23 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 106.46% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 153616 | 53.78 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 107.56% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 32608 | 104.21 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 104.21% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 109467 | 59.94 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 119.88% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87381.D\data.ms
Quant QT Reviewed
SampleID : AD26083-006
Data File: 10M87381.D
Acq On : 09/20/21 16:07
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 16:58
Qt Upd On: 09/20/21 13:43
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-008
Client Id: LTMW-11-20210913
Data File: 10M87382.D
Analysis Date: 09/20/21 16:29
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

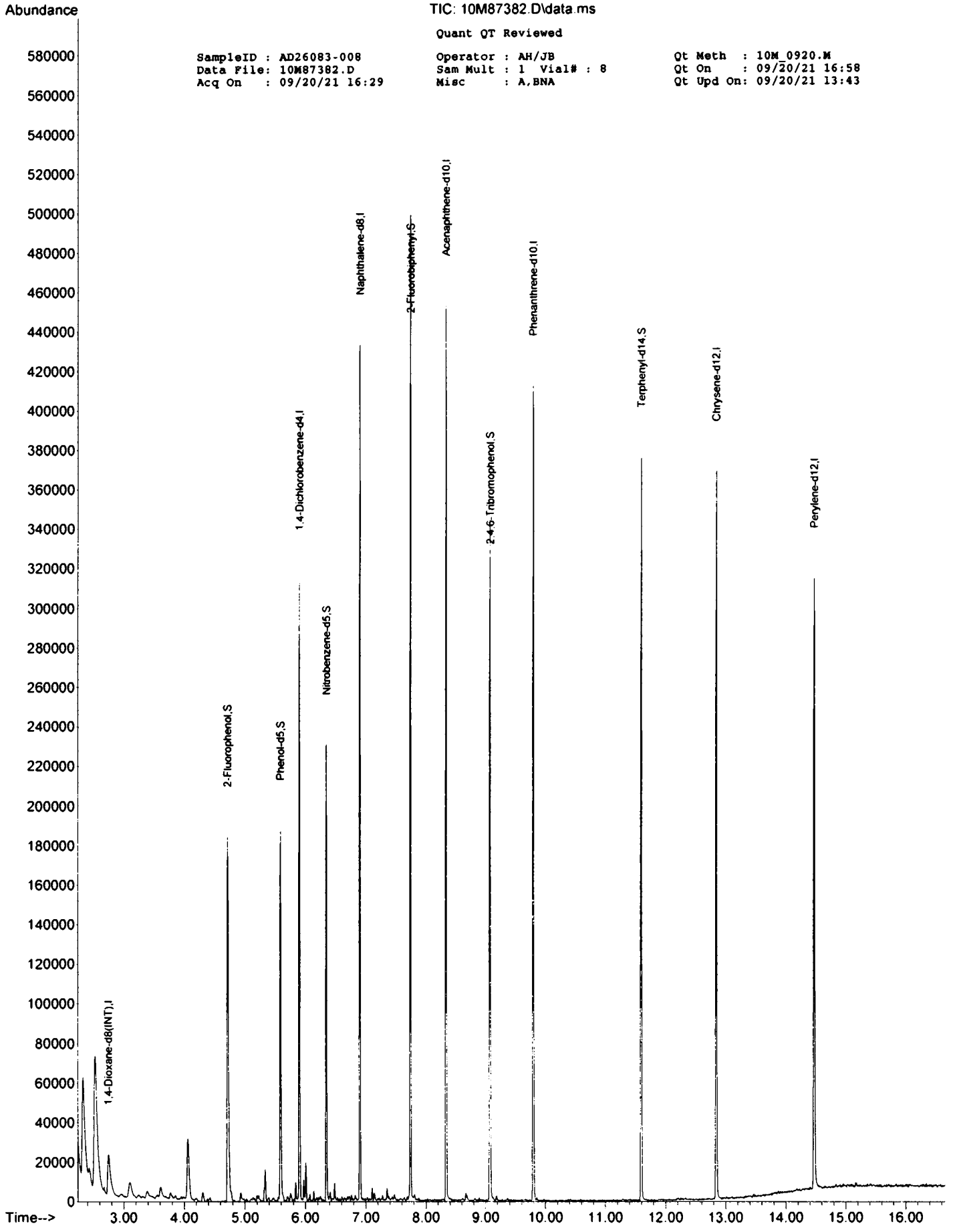
Quantitation Report (QT Reviewed)

SampleID : AD26083-008 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87382.D Sam Mult : 1 Vial# : 8 Qt On : 09/20/21 16:58
Acq On : 09/20/21 16:29 Misc : A,BNA Qt Upd On: 09/20/21 13:43

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 25255 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 49311 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 199418 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 95604 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.795 | 188 | 169229 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 125828 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 127153 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 86644 | 62.86 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 62.86% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 68653 | 40.96 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 40.96% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 35372 | 51.55 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 103.10% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 158631 | 52.37 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 104.74% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 35490 | 106.42 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 106.42% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 117380 | 59.88 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 119.76% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87382.D\data.ms
Quant QT Reviewed
SampleID : AD26083-008
Data File: 10M87382.D
Acq On : 09/20/21 16:29
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 16:58
Qt Upd On: 09/20/21 13:43
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-009
Client Id: DUP-01-20210913
Data File: 10M87383.D
Analysis Date: 09/20/21 16:51
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Quantitation Report (QT Reviewed)

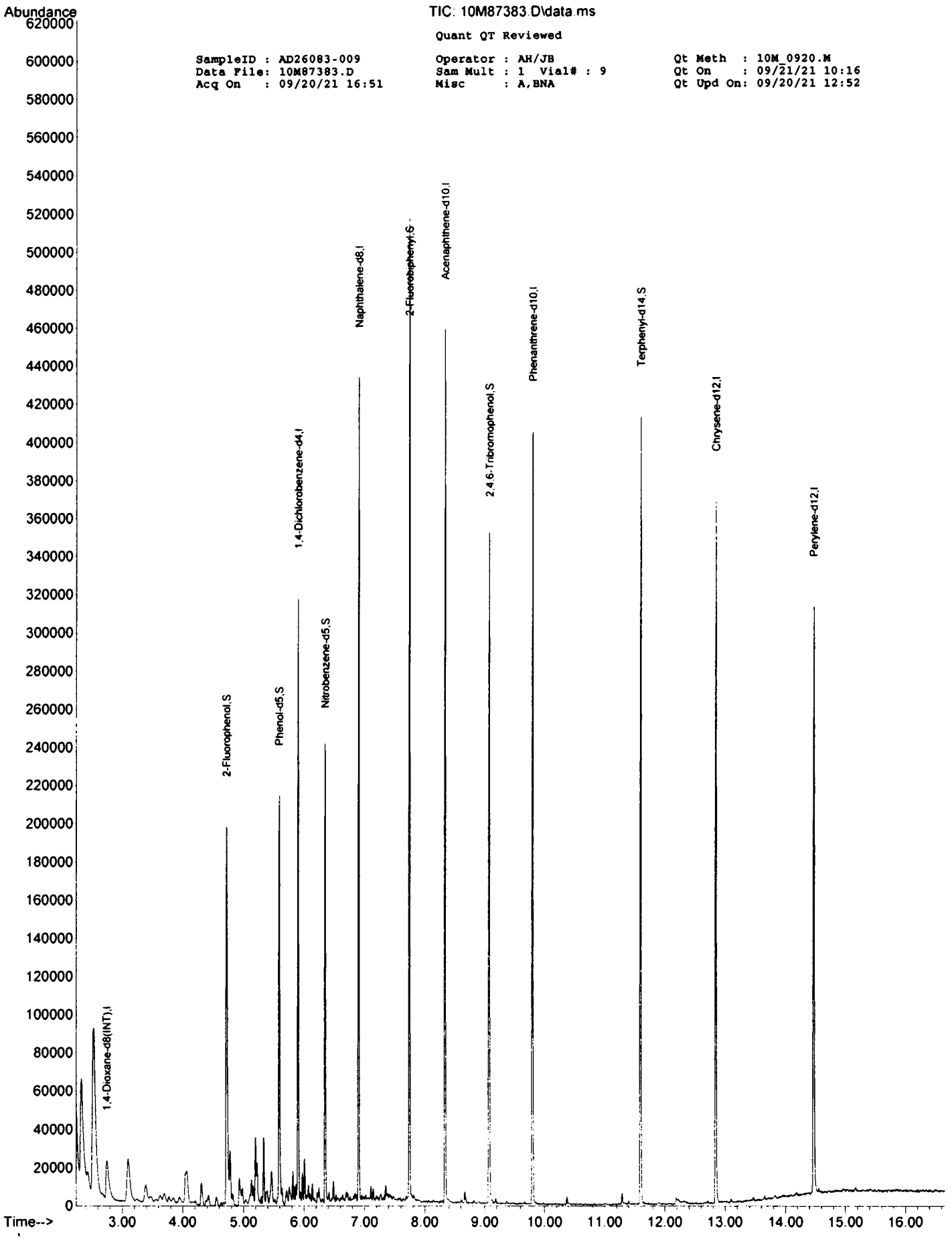
SampleID : AD26083-009 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87383.D Sam Mult : 1 Vial# : 9 Qt On : 09/21/21 10:16
Acq On : 09/20/21 16:51 Misc : A,BNA Qt Upd On: 09/20/21 12:52

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 25786 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 49142 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 197717 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 94399 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 168104 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 124340 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 127289 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 92424 | 65.68 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 65.68% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 78025 | 45.59 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 45.59% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 36264 | 53.30 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 106.60% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 162517 | 54.34 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 108.68% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 36784 | 110.53 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 110.53% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 123848 | 63.94 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 127.88% | | | |

Target Compounds Qvalue

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


Abundance
TIC: 10M87383.D\data.ms
Quant QT Reviewed
SampleID : AD26083-009
Data File: 10M87383.D
Acq On : 09/20/21 16:51
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:52
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-011
Client Id: LTMW-7-20210913
Data File: 10M87384.D
Analysis Date: 09/20/21 17:14
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

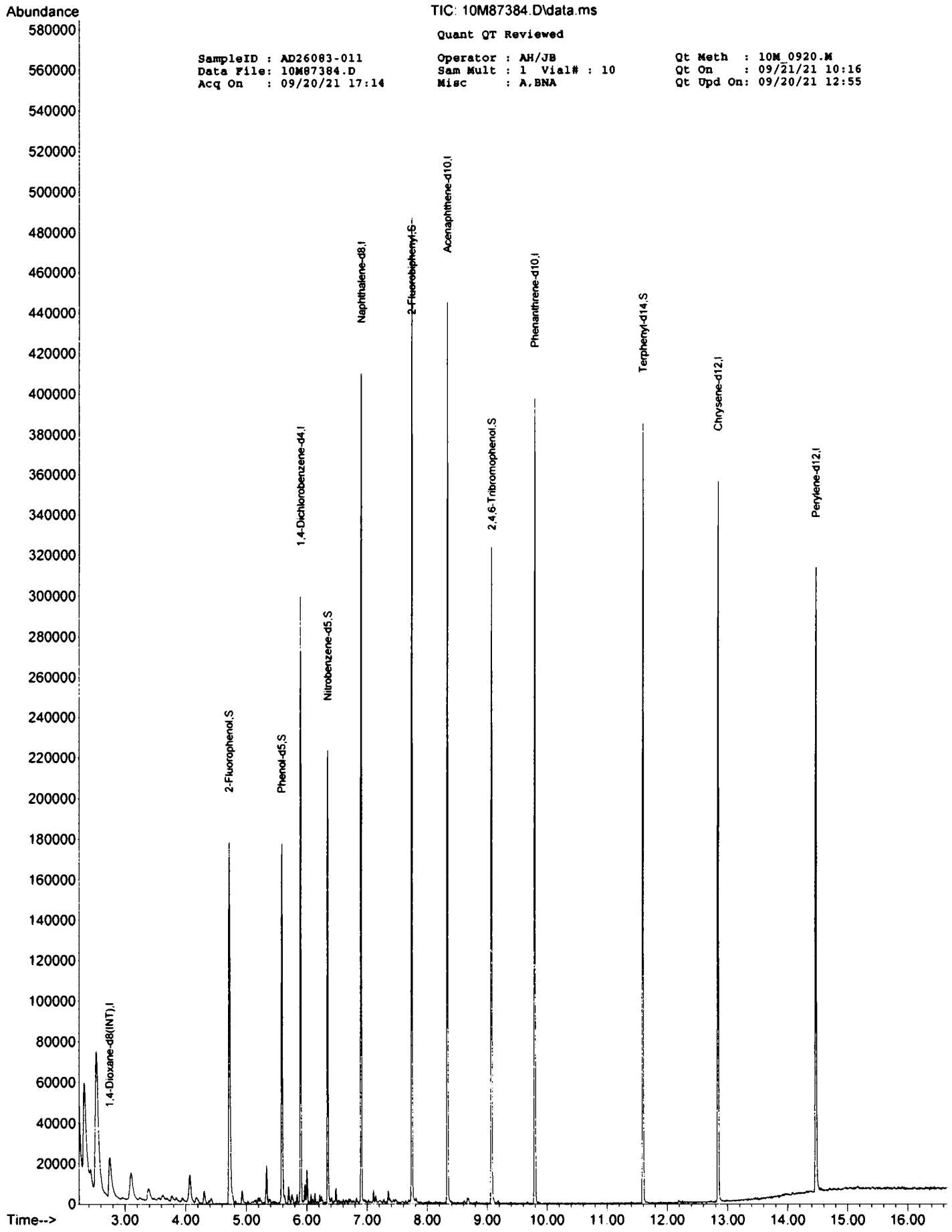
Quantitation Report (QT Reviewed)

SampleID : AD26083-011 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87384.D Sam Mult : 1 Vial# : 10 Qt On : 09/21/21 10:16
Acq On : 09/20/21 17:14 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 24663 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 47154 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 188916 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 90460 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.794 | 188 | 161977 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 117955 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 122798 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.718 | 112 | 81059 | 60.22 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 60.22% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 65925 | 40.27 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 40.27% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 33978 | 52.27 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 104.54% | | | |
| 55) 2-Fluorobiphenyl | 7.740 | 172 | 155150 | 54.14 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 108.28% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 33934 | 106.32 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 106.32% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 115561 | 62.89 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 125.78% | | | |
| **Target Compounds** | | | | | | Qvalue |

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


Abundance
TIC: 10M87384.D\data.ms
Quant QT Reviewed
SampleID : AD26083-011
Data File: 10M87384.D
Acq On : 09/20/21 17:14
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-012
Client Id: LTMW-21-20210914 U
Data File: 10M87385.D
Analysis Date: 09/20/21 17:36
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | **105-60-2** | **Caprolactam** | **0.0020** | **0.096** |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0.096

ColumnID: (^) Indicates results from 2nd column

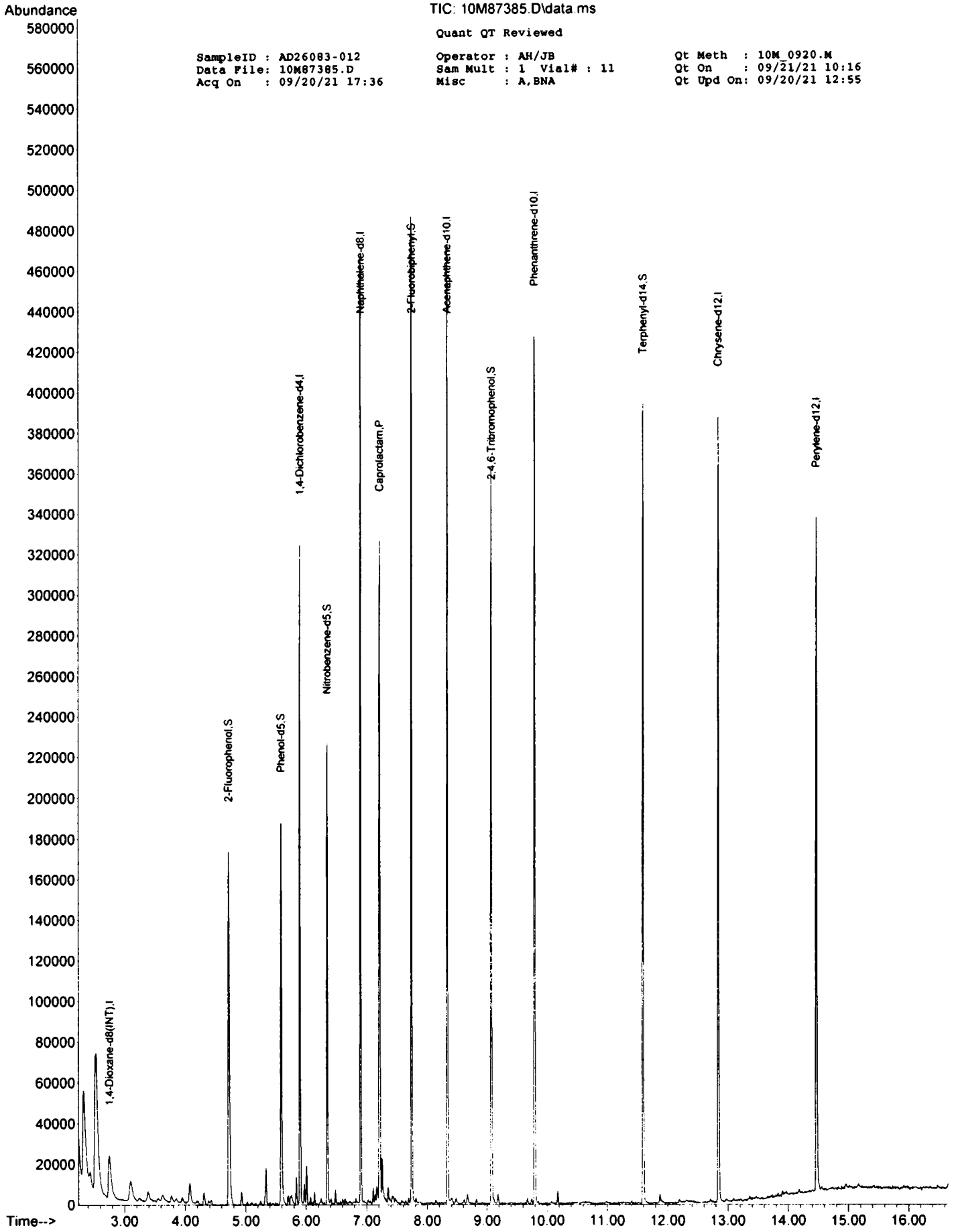
*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

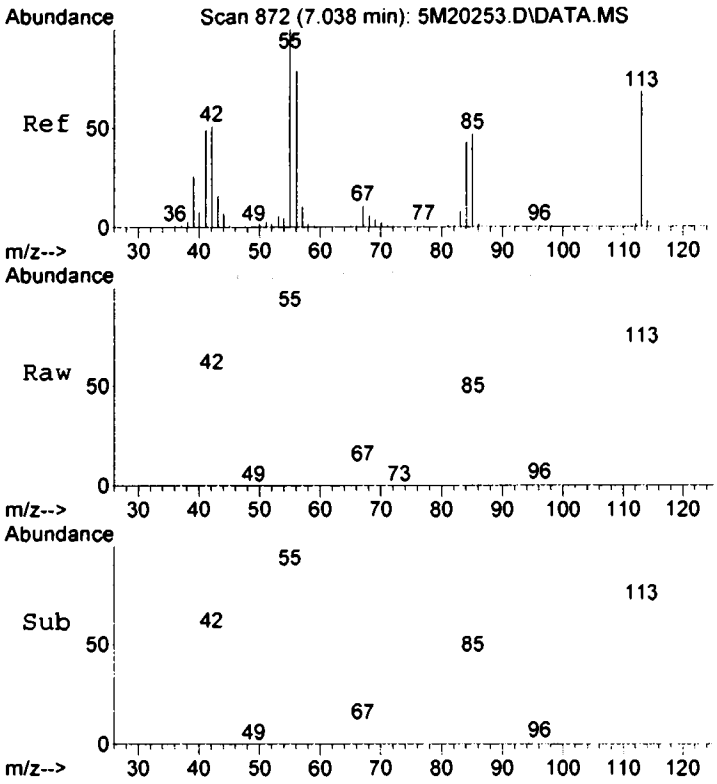
SampleID : AD26083-012 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87385.D Sam Mult : 1 Vial# : 11 Qt On : 09/21/21 10:16
Acq On : 09/20/21 17:36 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.750 | 96 | 26836 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 51076 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 205031 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 98322 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.795 | 188 | 174720 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 127296 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 133094 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 80000 | 54.62 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 54.62% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 71547 | 40.17 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 40.17% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 34141 | 48.39 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 96.78% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 155488 | 49.92 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 99.84% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 37710 | 109.18 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 109.18% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 124674 | 62.87 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 125.74% | | | |
| Target Compounds | | | | | | Qvalue |
| 44) Caprolactam | 7.216 | 113 | 48540 | 95.9984 | ng | 70 |

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

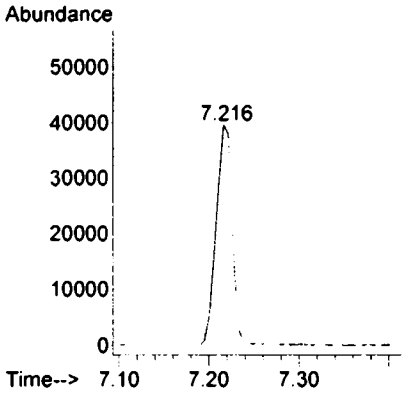

Abundance
TIC: 10M87385.D\data.ms
Quant QT Reviewed
SampleID : AD26083-012
Data File: 10M87385.D
Acq On : 09/20/21 17:36
Operator : AH/JB
Sam Mult : 1 Vial# : 11
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
Nitrobenzene-d5,S
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Caprolactam,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->




#44
Caprolactam
Concen: 96.00 ng
RT: 7.216 min Scan# 931
Delta R.T. -0.021 min
Lab File: 10M87385.D
Acq: 20 Sep 2021 17:36

Tgt Ion:113 Resp: 48540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 144.7 | 0.0 | 330.0 |
| 56 | 110.5 | 0.0 | 369.6 |



# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-014
Client Id: LTMW-12-20210914 U
Data File: 10M87386.D
Analysis Date: 09/20/21 17:58
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

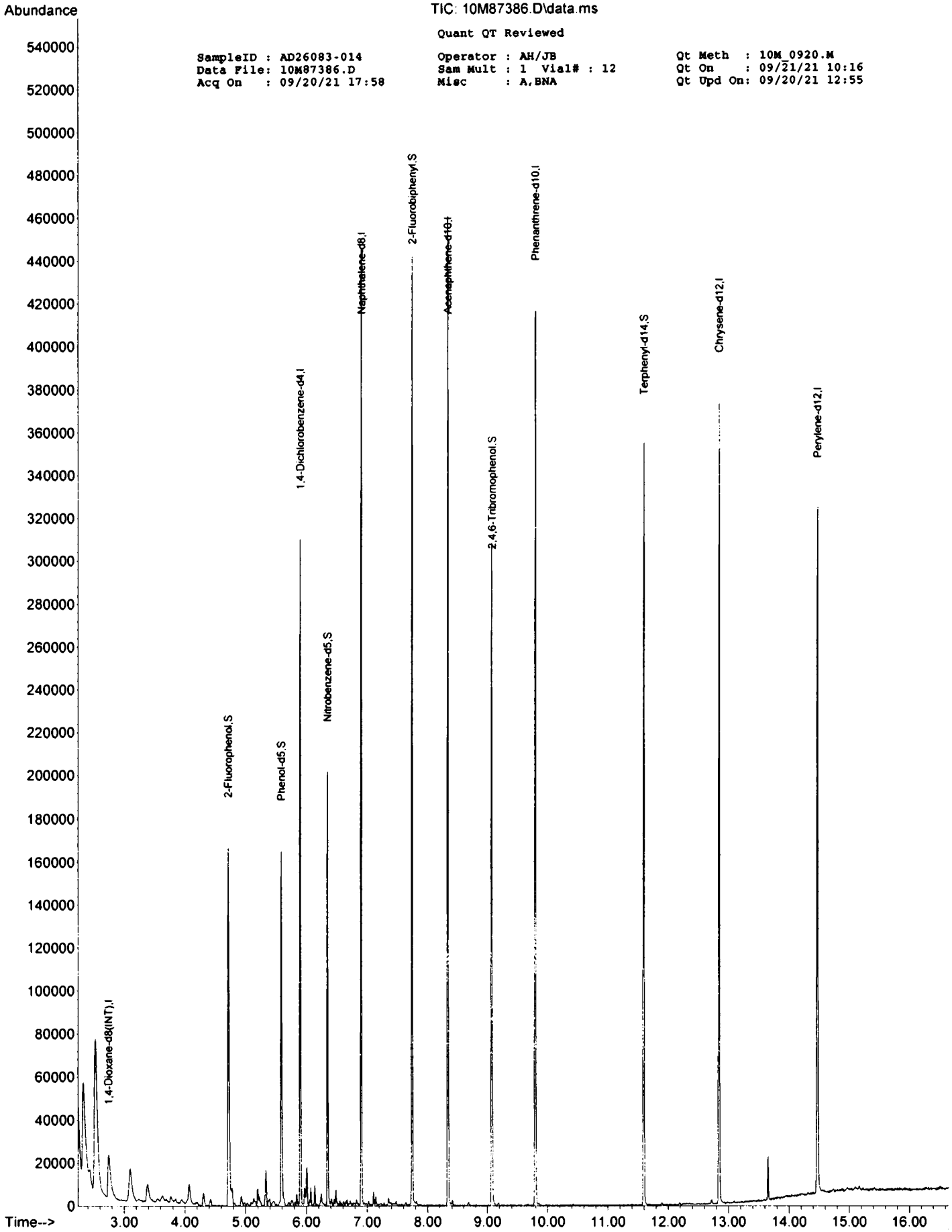
Quantitation Report (QT Reviewed)

SampleID : AD26083-014 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87386.D Sam Mult : 1 Vial# : 12 Qt On : 09/21/21 10:16
Acq On : 09/20/21 17:58 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 25502 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 49431 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 202351 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 96011 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 171105 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 124867 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 129314 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 74688 | 53.66 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.66% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 62001 | 36.63 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 36.63% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 30451 | 43.73 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 87.46% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 143529 | 47.19 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 94.38% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 31432 | 94.47 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 94.47% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 111279 | 57.21 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 114.42% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87386.D\data.ms
Quant QT Reviewed
SampleID : AD26083-014
Data File: 10M87386.D
Acq On : 09/20/21 17:58
Operator : AH/JB
Sam Mult : 1 Vial# : 12
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-016
Client Id: LTMW-6-20210914 U
Data File: 10M87387.D
Analysis Date: 09/20/21 18:20
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

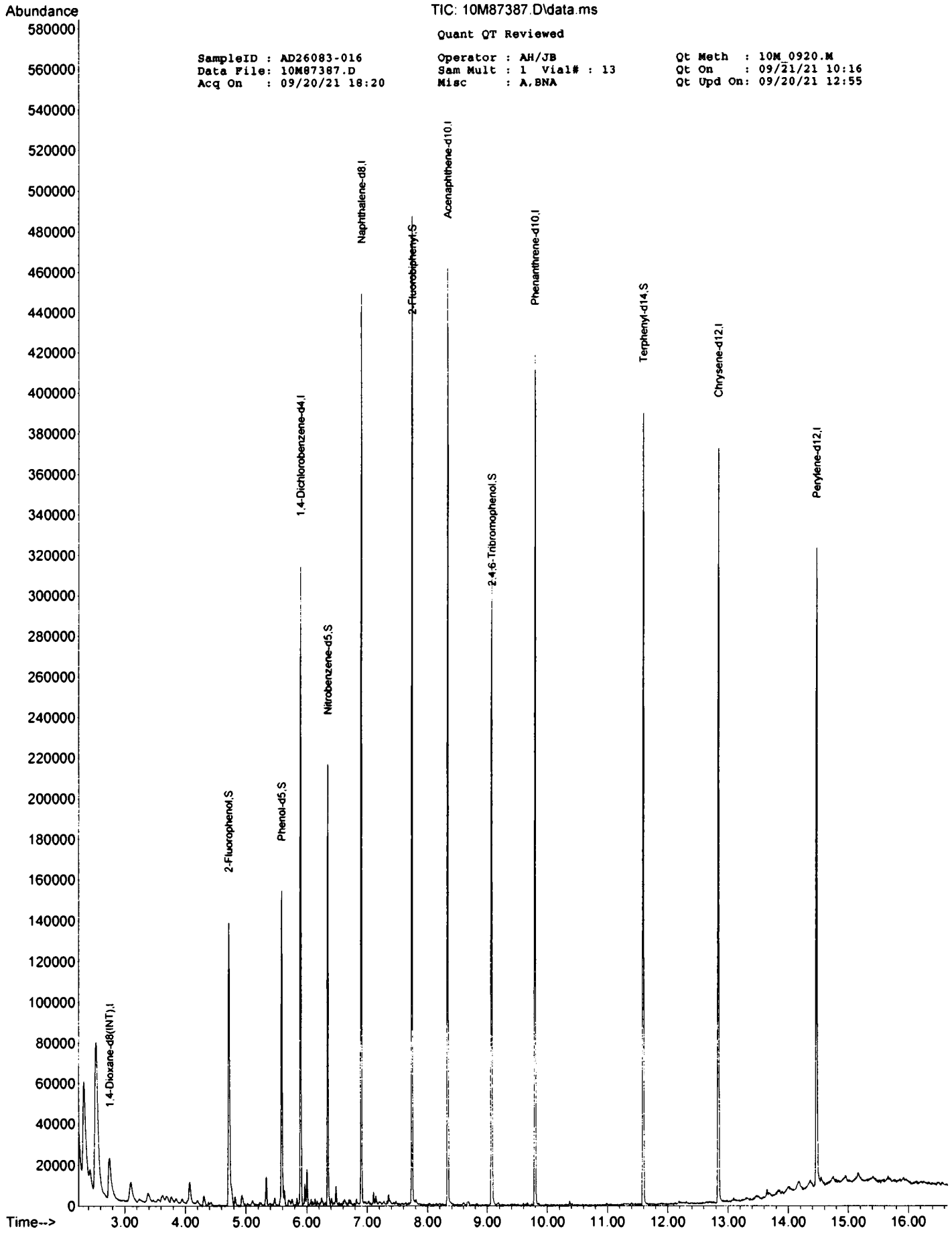
Quantitation Report (QT Reviewed)

SampleID : AD26083-016 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87387.D Sam Mult : 1 Vial# : 13 Qt On : 09/21/21 10:16
Acq On : 09/20/21 18:20 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.750 | 96 | 25237 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 49335 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 199775 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 96709 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.794 | 188 | 170062 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 124296 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 126313 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 64158 | 46.58 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 46.58% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 58339 | 34.83 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 34.83% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 32977 | 47.97 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 95.94% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 156136 | 50.96 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 101.92% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 32027 | 96.62 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 96.62% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 122399 | 63.21 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 126.42% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87387.D\data.ms
Quant QT Reviewed
SampleID : AD26083-016
Data File: 10M87387.D
Acq On : 09/20/21 18:20
Operator : AH/JB
Sam Mult : 1 Vial# : 13
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-018
Client Id: LTMW-13-20210914
Data File: 10M87388.D
Analysis Date: 09/20/21 18:43
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Quantitation Report (QT Reviewed)

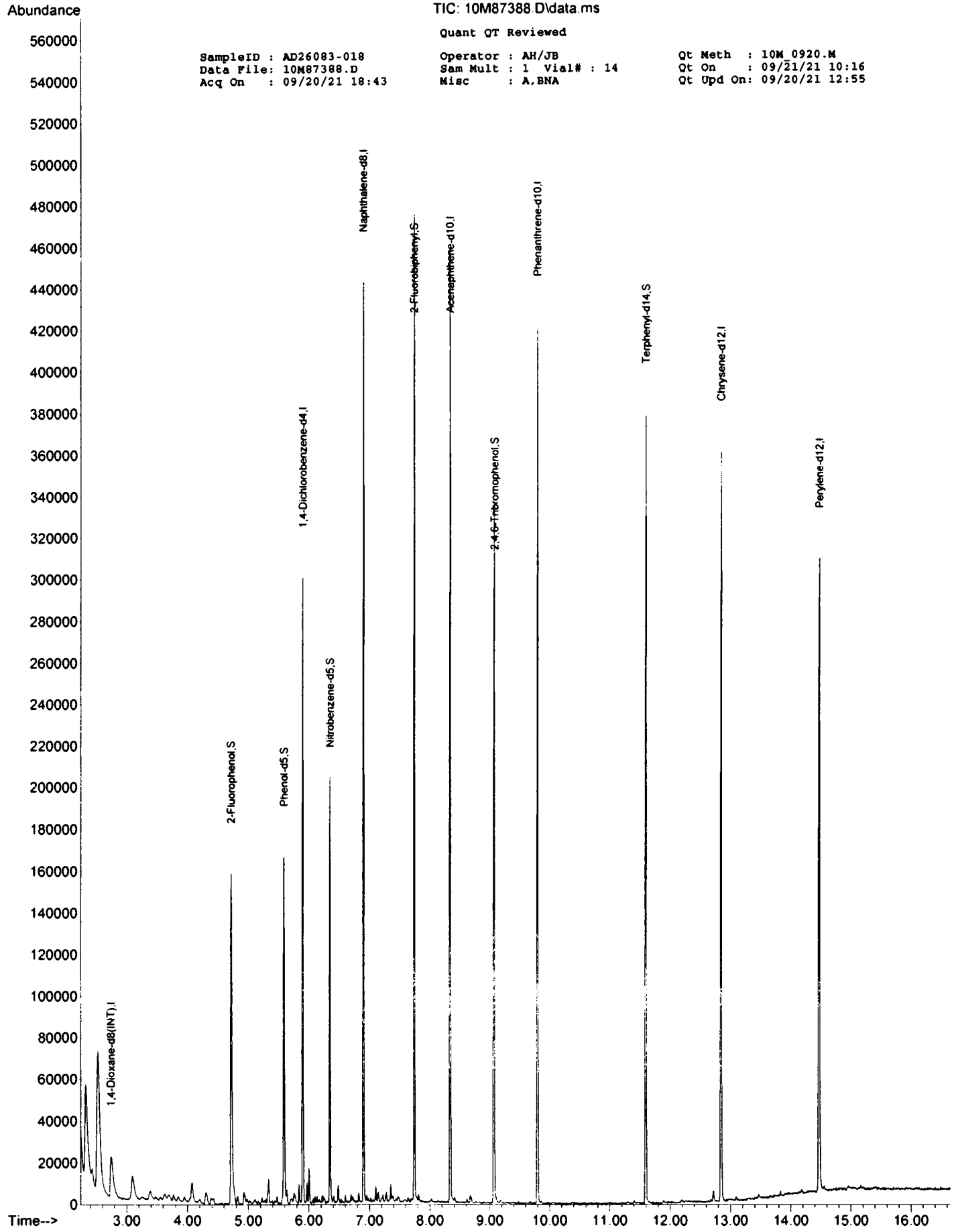
SampleID : AD26083-018 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87388.D Sam Mult : 1 Vial# : 14 Qt On : 09/21/21 10:16
Acq On : 09/20/21 18:43 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.740 | 96 | 25424 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 48560 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.901 | 136 | 196576 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 93478 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.795 | 188 | 165596 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 122968 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 124553 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 73681 | 53.10 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.10% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 65434 | 38.78 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 38.78% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 30509 | 45.10 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 90.20% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 144368 | 48.75 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 97.50% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 33905 | 104.16 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 104.16% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 119806 | 62.54 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 125.08% | | | |

| Target Compounds | Qvalue |
|---|---|

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


Abundance
TIC: 10M87388.D\data.ms
Quant QT Reviewed
SampleID : AD26083-018
Data File: 10M87388.D
Acq On : 09/20/21 18:43
Operator : AH/JB
Sam Mult : 1 Vial# : 14
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-019
Client Id: LTMW-15-20210914 U
Data File: 5M117948.D
Analysis Date: 09/21/21 20:18
Date Rec/Extracted: 09/17/21-09/21/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00053 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.0085 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.0080 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Quantitation Report (QT Reviewed)

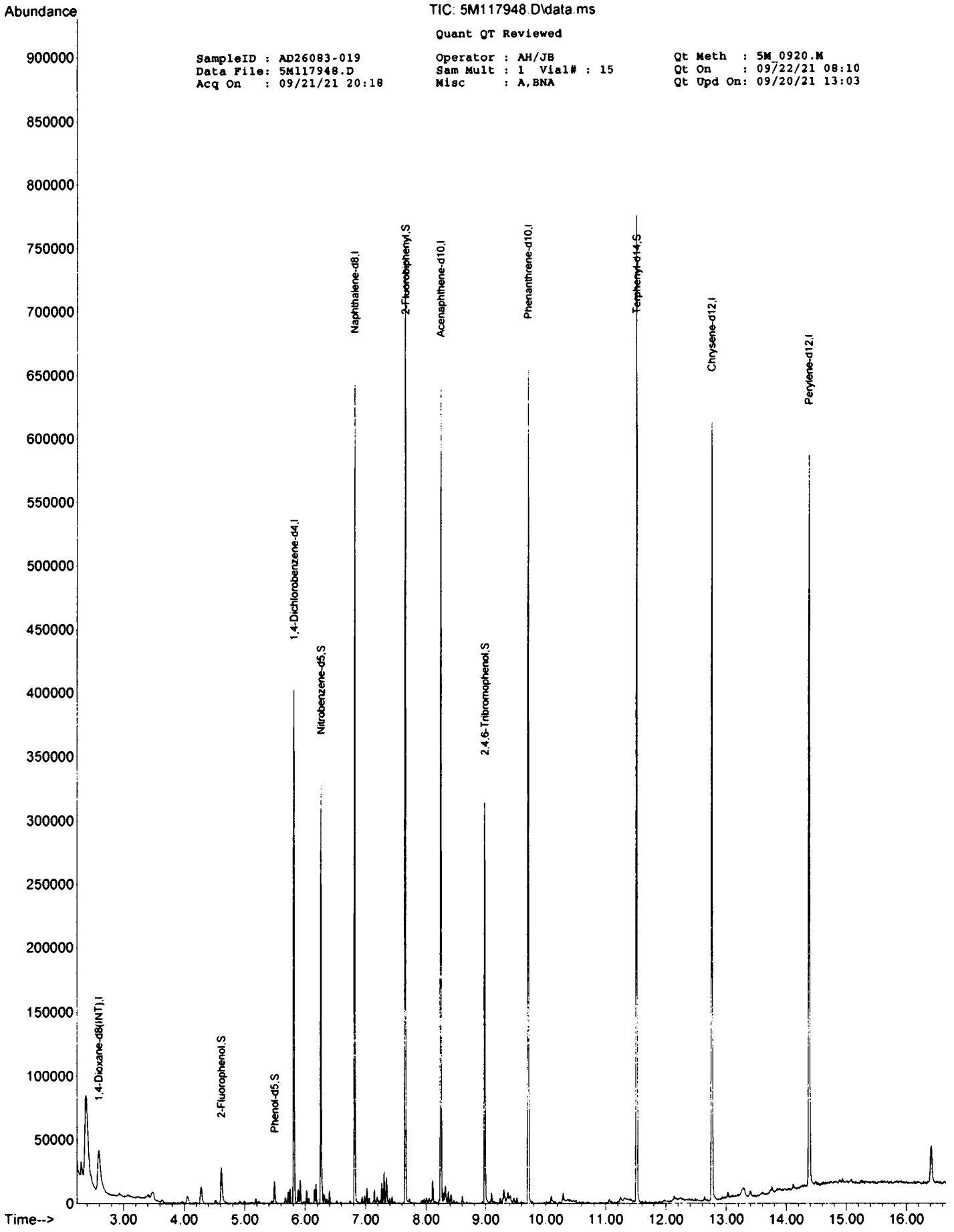
SampleID : AD26083-019 Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117948.D Sam Mult : 1 Vial# : 15 Qt On : 09/22/21 08:10
Acq On : 09/21/21 20:18 Misc : A,BNA Qt Upd On: 09/20/21 13:03

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.595 | 96 | 45930 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 63271 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.821 | 136 | 246638 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.247 | 164 | 129479 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.711 | 188 | 246031 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.762 | 240 | 237277 | 40.00 | ng | -0.01 |
| 103) Perylene-d12 | 14.380 | 264 | 257117 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.615 | 112 | 15437 | 9.37 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 9.37% | | | |
| 16) Phenol-d5 | 5.496 | 99 | 5553 | 2.81 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.81% | | | |
| 32) Nitrobenzene-d5 | 6.265 | 128 | 43161 | 51.28 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 102.56% | | | |
| 55) 2-Fluorobiphenyl | 7.660 | 172 | 216501 | 51.39 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 102.78% | | | |
| 80) 2,4,6-Tribromophenol | 8.990 | 330 | 39147 | 66.74 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 66.74% | | | |
| 94) Terphenyl-d14 | 11.517 | 244 | 227701 | 63.56 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 127.12% | | | |

Target Compounds Qvalue

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


Abundance
TIC: 5M117948.D\data.ms
Quant QT Reviewed
SampleID : AD26083-019
Data File: 5M117948.D
Acq On : 09/21/21 20:18
Operator : AH/JB
Sam Mult : 1 Vial# : 15
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09/22/21 08:10
Qt Upd On: 09/20/21 13:03
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
1,4-Dioxane-d8(INT).I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-021
Client Id: LTMW-5B-20210914 U
Data File: 10M87389.D
Analysis Date: 09/20/21 19:05
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

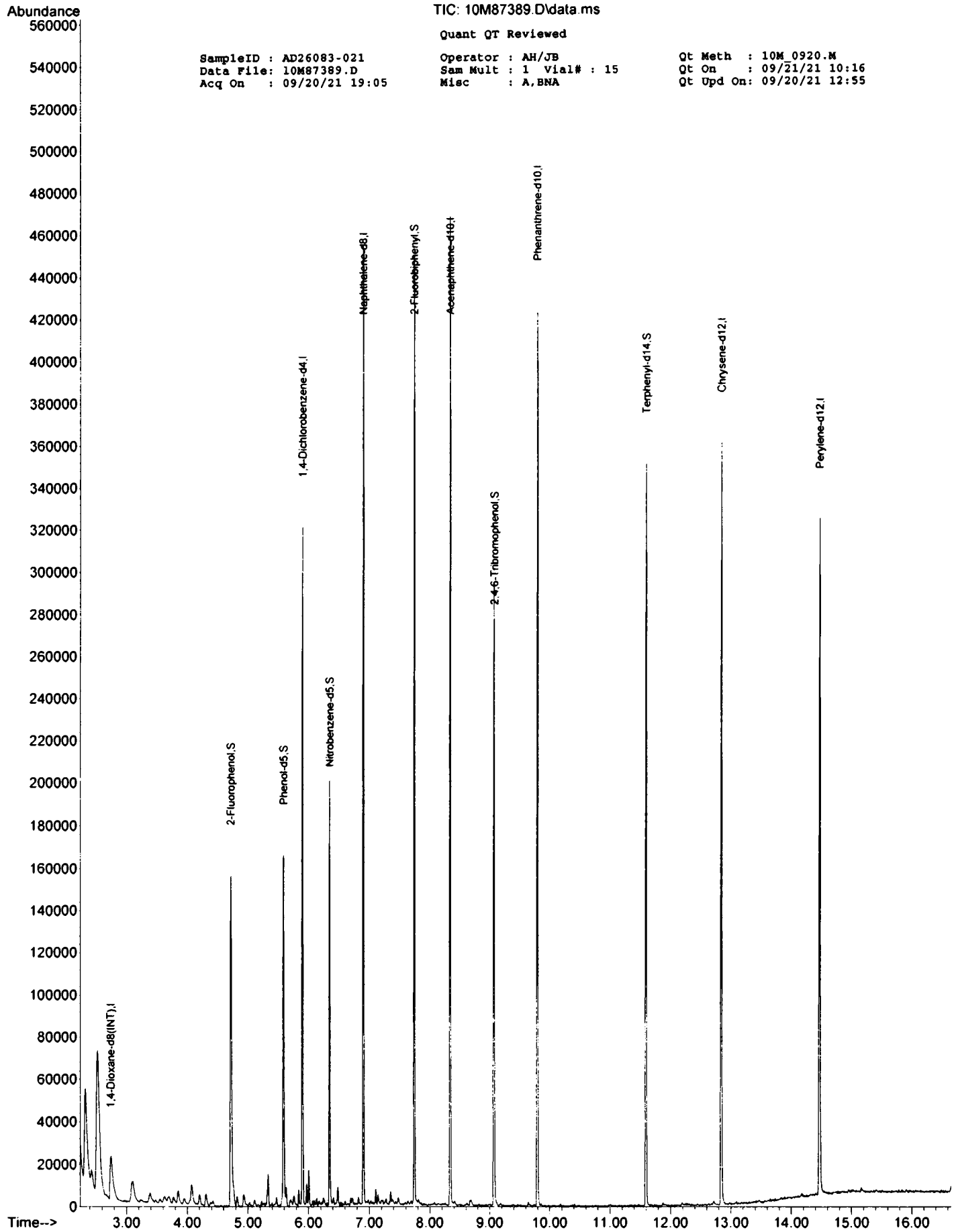
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-021 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87389.D Sam Mult : 1 Vial# : 15 Qt On : 09/21/21 10:16
Acq On : 09/20/21 19:05 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.740 | 96 | 25284 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 49972 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.901 | 136 | 201798 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 96420 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.795 | 188 | 167643 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 124162 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 129615 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 73304 | 53.12 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.12% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 63945 | 38.10 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 38.10% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 29613 | 42.64 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 85.28% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 138621 | 45.38 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 90.76% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 30968 | 94.95 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 94.95% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 106872 | 55.25 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 110.50% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87389.D\data.ms
Quant QT Reviewed
SampleID : AD26083-021
Data File: 10M87389.D
Acq On : 09/20/21 19:05
Operator : AH/JB
Sam Mult : 1 Vial# : 15
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
Nitrobenzene-d5.S
1,4-Dichlorobenzene-d4.I
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-023
Client Id: DUP-02-20210914 U
Data File: 10M87390.D
Analysis Date: 09/20/21 19:27
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

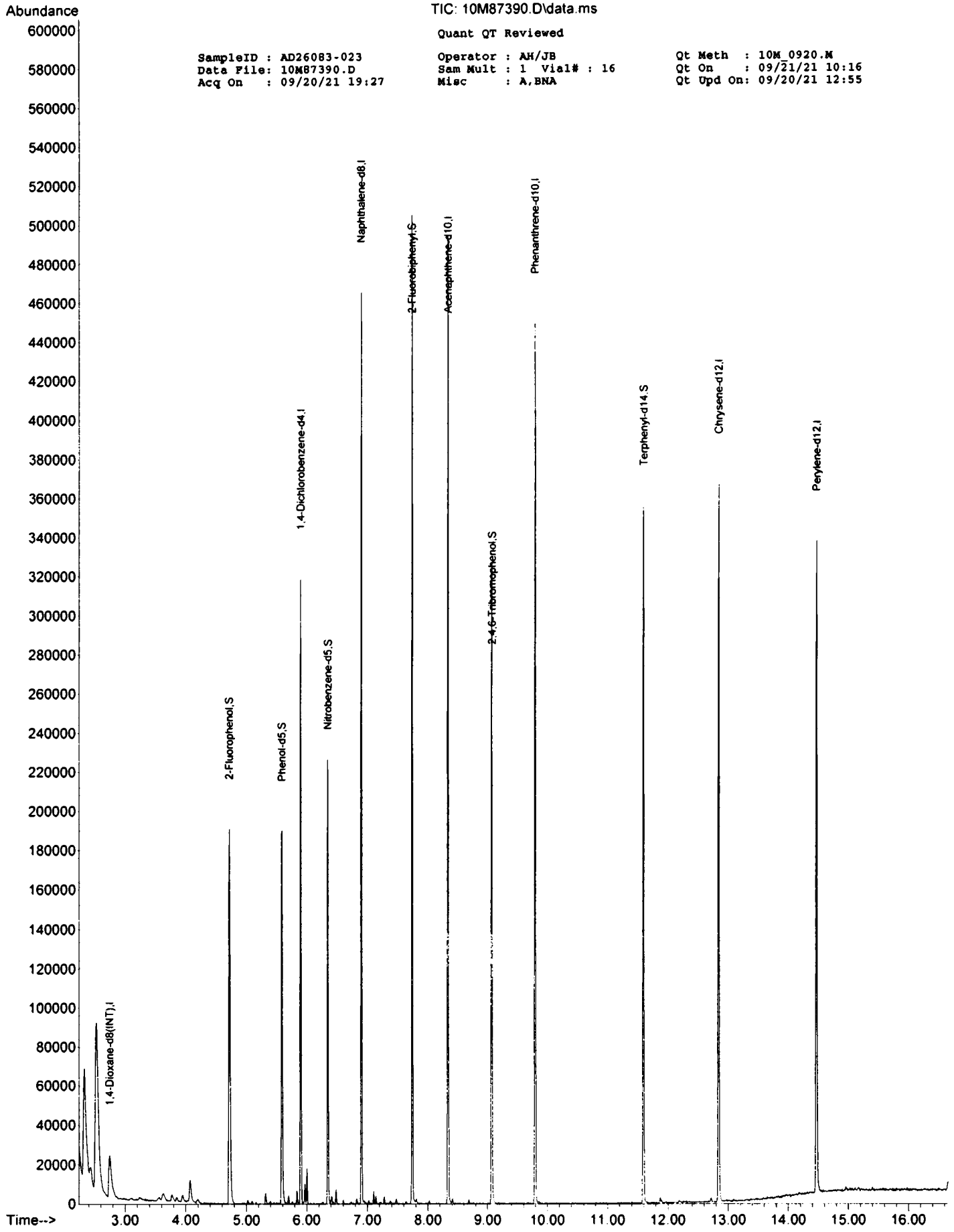
*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-023 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87390.D Sam Mult : 1 Vial# : 16 Qt On : 09/21/21 10:16
Acq On : 09/20/21 19:27 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 26565 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 51309 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.901 | 136 | 208809 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 101210 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.794 | 188 | 174179 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 127401 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 132621 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 88835 | 61.27 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 61.27% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 74451 | 42.23 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 42.23% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 34506 | 48.02 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 96.04% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 156520 | 48.82 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 97.64% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 32536 | 95.91 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 95.91% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 110075 | 55.46 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 110.92% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87390.D\data.ms
Quant QT Reviewed
SampleID : AD26083-023
Data File: 10M87390.D
Acq On : 09/20/21 19:27
Operator : AH/JB
Sam Mult : 1 Vial# : 16
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-026
Client Id: LTMW-5A-20210915
Data File: 10M87391.D
Analysis Date: 09/20/21 19:49
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

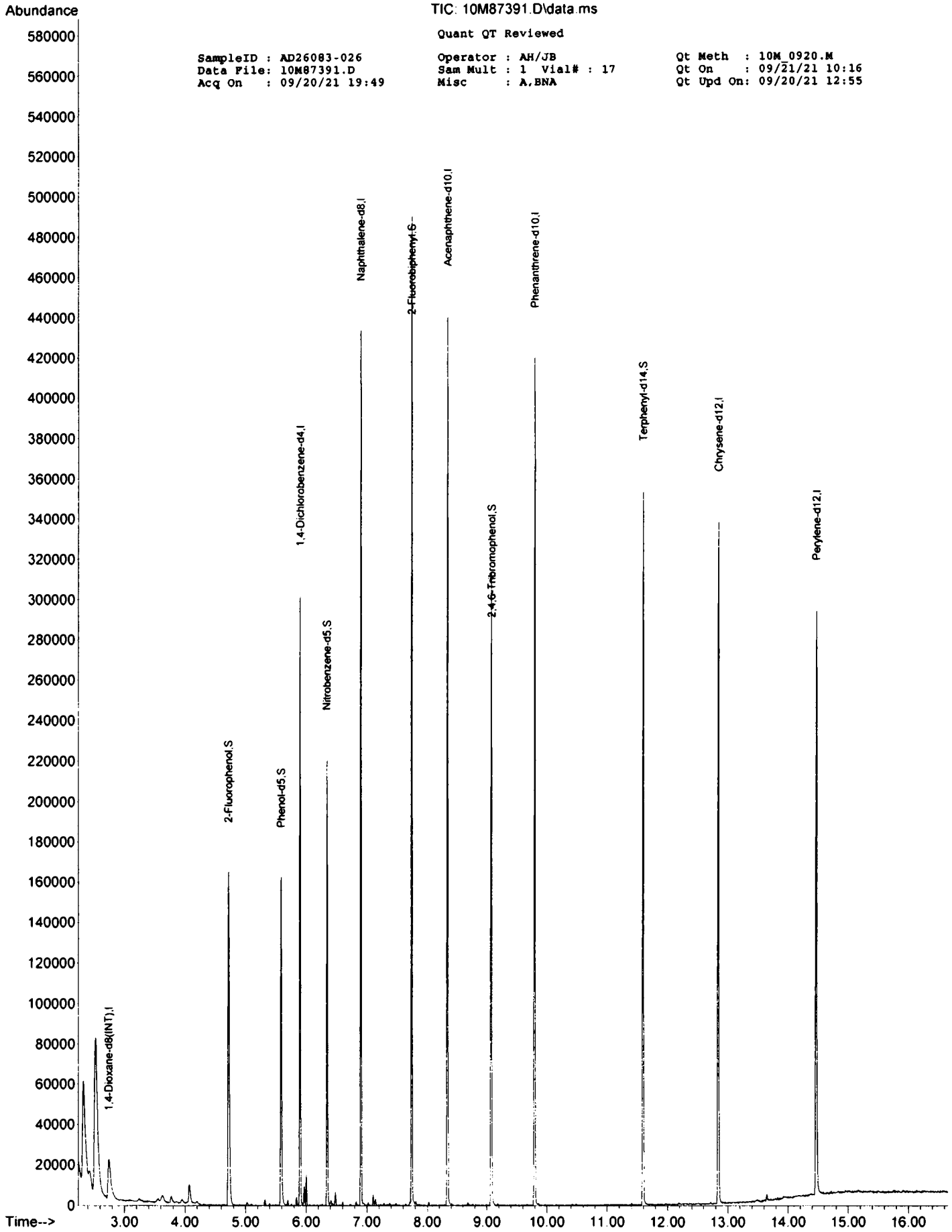
Quantitation Report (QT Reviewed)

SampleID : AD26083-026 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87391.D Sam Mult : 1 Vial# : 17 Qt On : 09/21/21 10:16
Acq On : 09/20/21 19:49 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.740 | 96 | 24121 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 47290 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.901 | 136 | 191288 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 92498 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.795 | 188 | 161843 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 117928 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 120725 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 76071 | 57.79 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 57.79% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 63474 | 39.65 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 39.65% | | | |
| 32) Nitrobenzene-d5 | 6.345 | 128 | 33333 | 50.64 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 101.28% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 148664 | 50.73 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 101.46% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 31568 | 99.72 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 99.72% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 110370 | 60.08 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 120.16% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87391.D\data.ms
Quant QT Reviewed
SampleID : AD26083-026
Data File: 10M87391.D
Acq On : 09/20/21 19:49
Operator : AH/JB
Sam Mult : 1 Vial# : 17
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-027
Client Id: LTMW-17-20210915
Data File: 10M87392.D
Analysis Date: 09/20/21 20:11
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

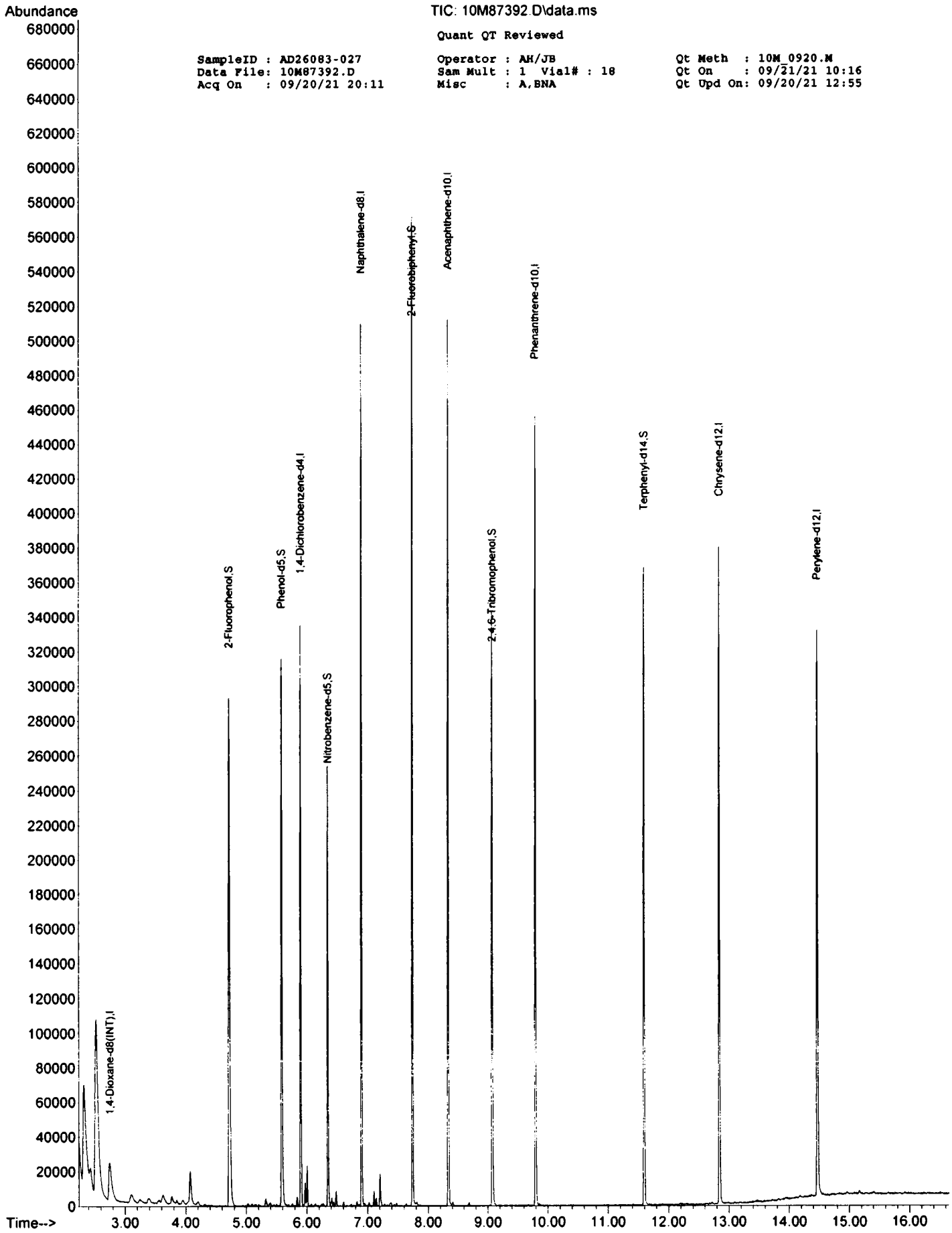
Quantitation Report (QT Reviewed)

SampleID : AD26083-027 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87392.D Sam Mult : 1 Vial# : 18 Qt On : 09/21/21 10:16
Acq On : 09/20/21 20:11 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.750 | 96 | 27687 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 53605 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.901 | 136 | 216665 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 103721 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.794 | 188 | 182631 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 133906 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 137875 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 135328 | 89.56 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 89.56% | | | |
| 16) Phenol-d5 | 5.585 | 99 | 121767 | 66.26 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 66.26% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 37864 | 50.78 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 101.56% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 169758 | 51.66 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 103.32% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 35891 | 100.39 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 100.39% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 115233 | 55.24 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 110.48% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87392.D\data.ms
Quant QT Reviewed
SampleID : AD26083-027
Data File: 10M87392.D
Acq On : 09/20/21 20:11
Operator : AH/JB
Sam Mult : 1 Vial# : 18
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-028
Client Id: LTMW-4-20210915 U
Data File: 10M87393.D
Analysis Date: 09/20/21 20:33
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | **105-60-2** | **Caprolactam** | **0.0020** | **0.022** |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0.022

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

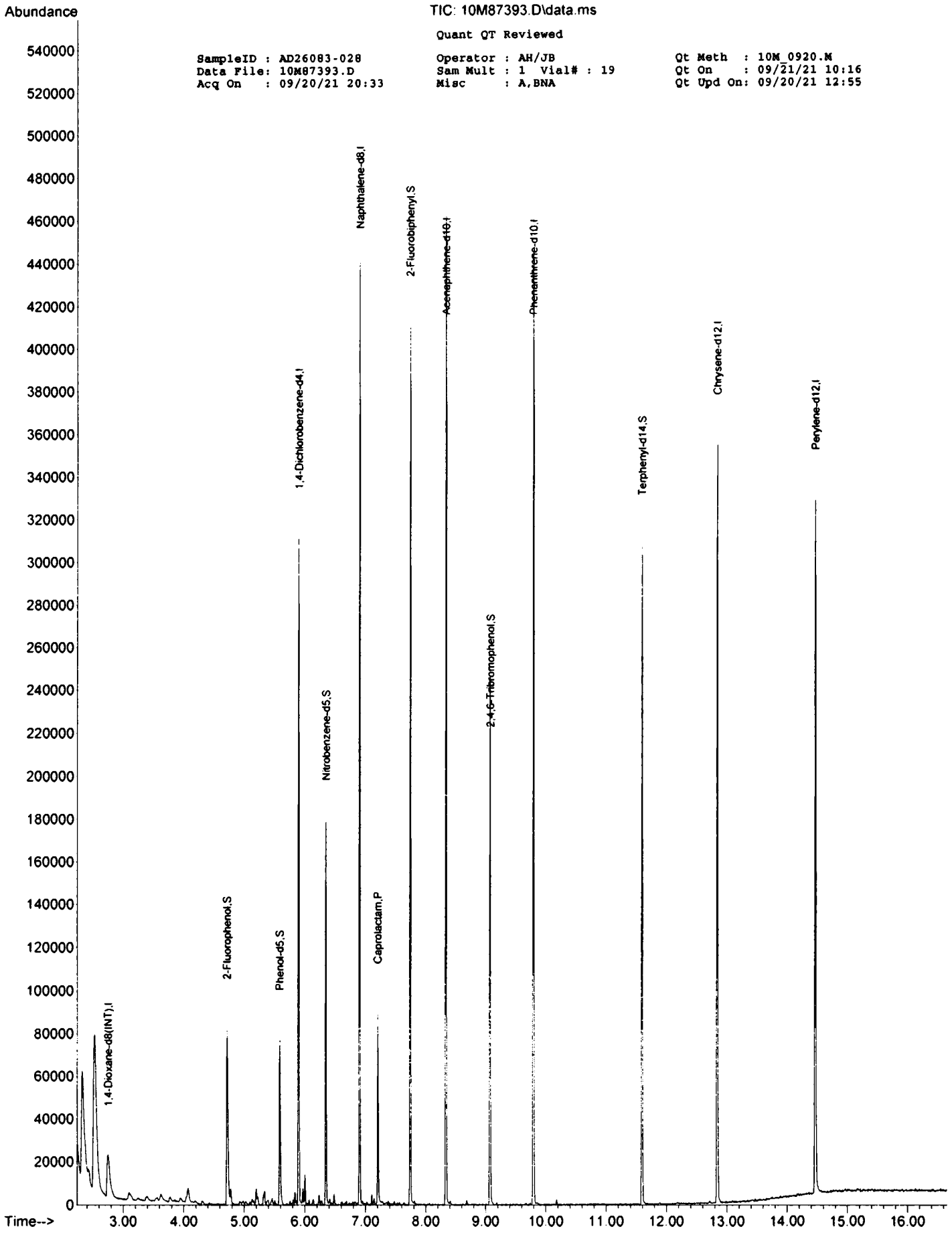
Quantitation Report (QT Reviewed)

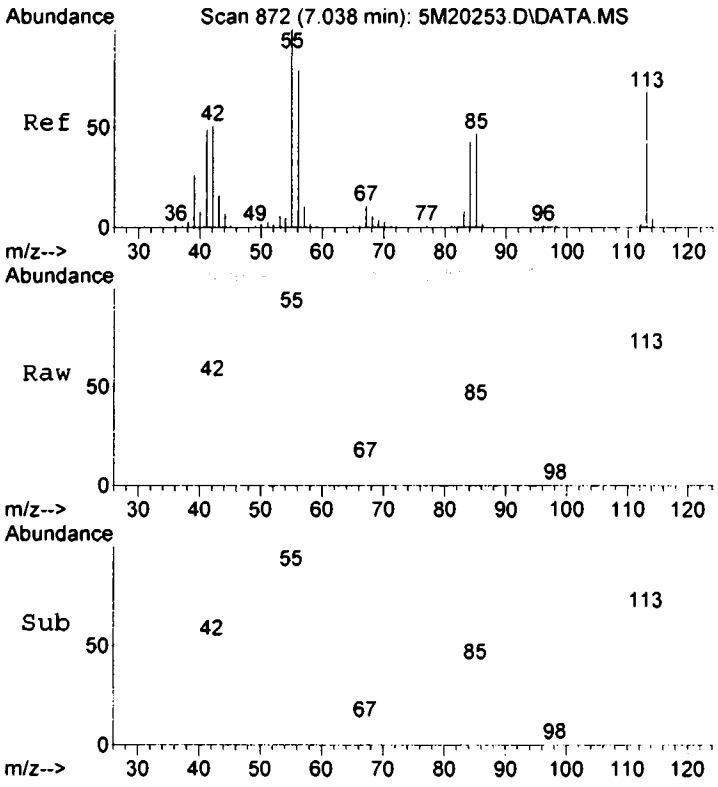
SampleID : AD26083-028 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87393.D Sam Mult : 1 Vial# : 19 Qt On : 09/21/21 10:16
Acq On : 09/20/21 20:33 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.750 | 96 | 24813 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 49861 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 199287 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 95265 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.794 | 188 | 168300 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 122965 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 127546 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.718 | 112 | 38926 | 28.75 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 28.75% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 29036 | 17.63 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 17.63% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 27265 | 39.76 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 79.52% | | | |
| 55) 2-Fluorobiphenyl | 7.740 | 172 | 126357 | 41.87 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 83.74% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 24404 | 76.15 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 76.15% | | | |
| 94) Terphenyl-d14 | 11.591 | 244 | 95447 | 49.83 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 99.66% | | | |
| Target Compounds | | | | | | Qvalue |
| 44) Caprolactam | 7.206 | 113 | 9610 | 21.9338 | ng | 68 |

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

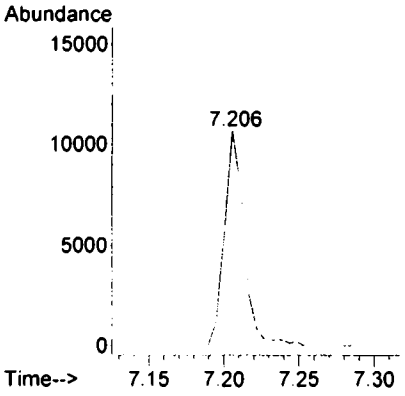

Abundance
TIC: 10M87393.D\data.ms
Quant QT Reviewed
SampleID : AD26083-028
Data File: 10M87393.D
Acq On : 09/20/21 20:33
Operator : AH/JB
Sam Mult : 1 Vial# : 19
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Caprolactam,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->




#44
Caprolactam
Concen: 21.93 ng
RT: 7.206 min Scan# 929
Delta R.T. -0.032 min
Lab File: 10M87393.D
Acq: 20 Sep 2021 20:33

Tgt Ion:113 Resp: 9610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 149.0 | 0.0 | 330.0 |
| 56 | 109.6 | 0.0 | 369.6 |



# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-030
Client Id: LTMW-16-20210915 U
Data File: 10M87394.D
Analysis Date: 09/20/21 20:55
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Quantitation Report (QT Reviewed)

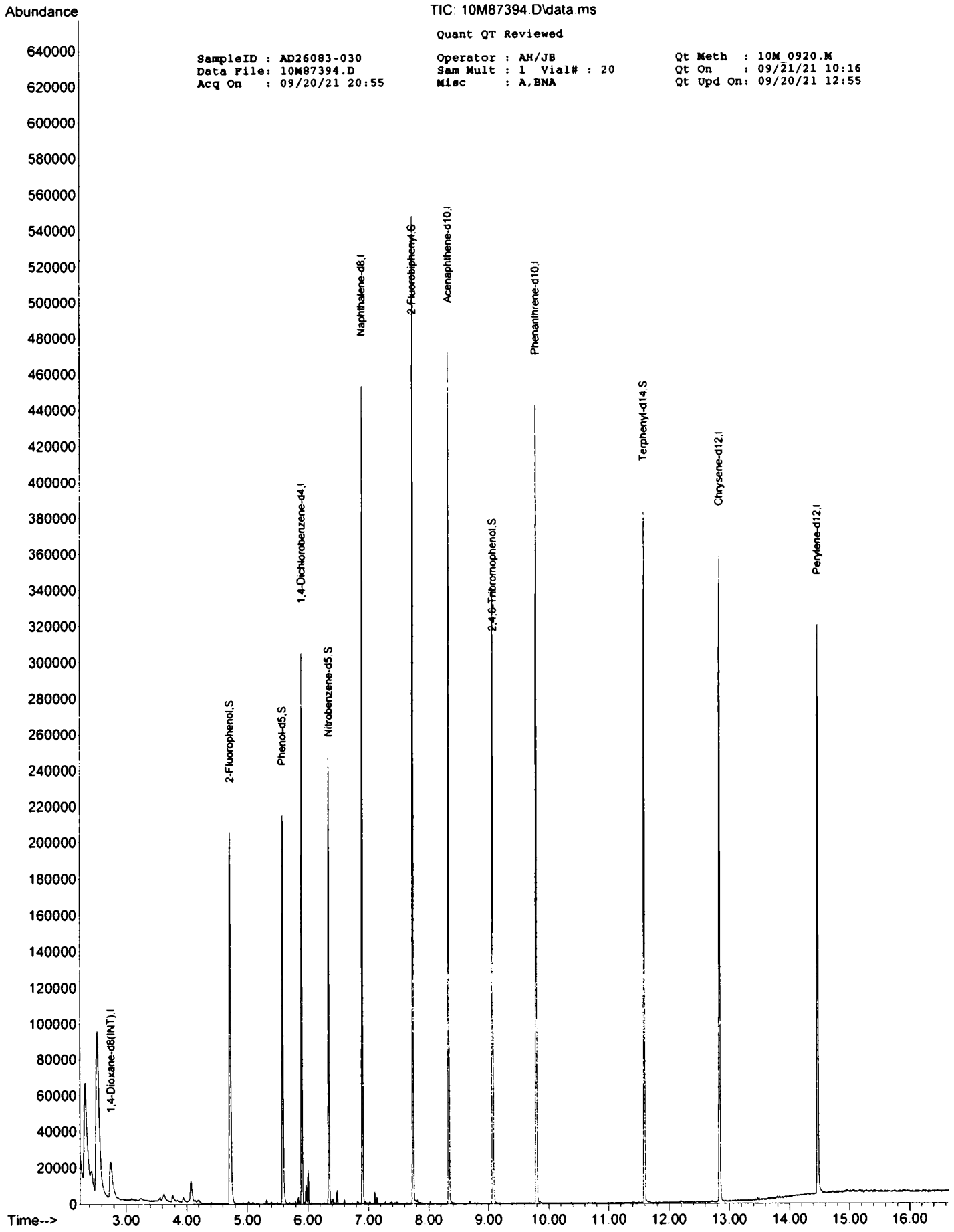
SampleID : AD26083-030 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87394.D Sam Mult : 1 Vial# : 20 Qt On : 09/21/21 10:16
Acq On : 09/20/21 20:55 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.750 | 96 | 25565 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 49174 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.901 | 136 | 199677 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 94609 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.795 | 188 | 168537 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 122776 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 124427 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 95559 | 68.49 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 68.49% | | | |
| 16) Phenol-d5 | 5.585 | 99 | 81930 | 48.29 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 48.29% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 37191 | 54.13 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 108.26% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 171137 | 57.10 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 114.20% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 34553 | 104.28 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 104.28% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 121694 | 63.62 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 127.24% | | | |

Target Compounds Qvalue

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


Abundance
TIC: 10M87394.D\data.ms
Quant QT Reviewed
SampleID : AD26083-030
Data File: 10M87394.D
Acq On : 09/20/21 20:55
Operator : AH/JB
Sam Mult : 1 Vial# : 20
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-032
Client Id: LTMW-3-20210915
Data File: 7M116584.D
Analysis Date: 09/19/21 22:08
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00053 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.011 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.011 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

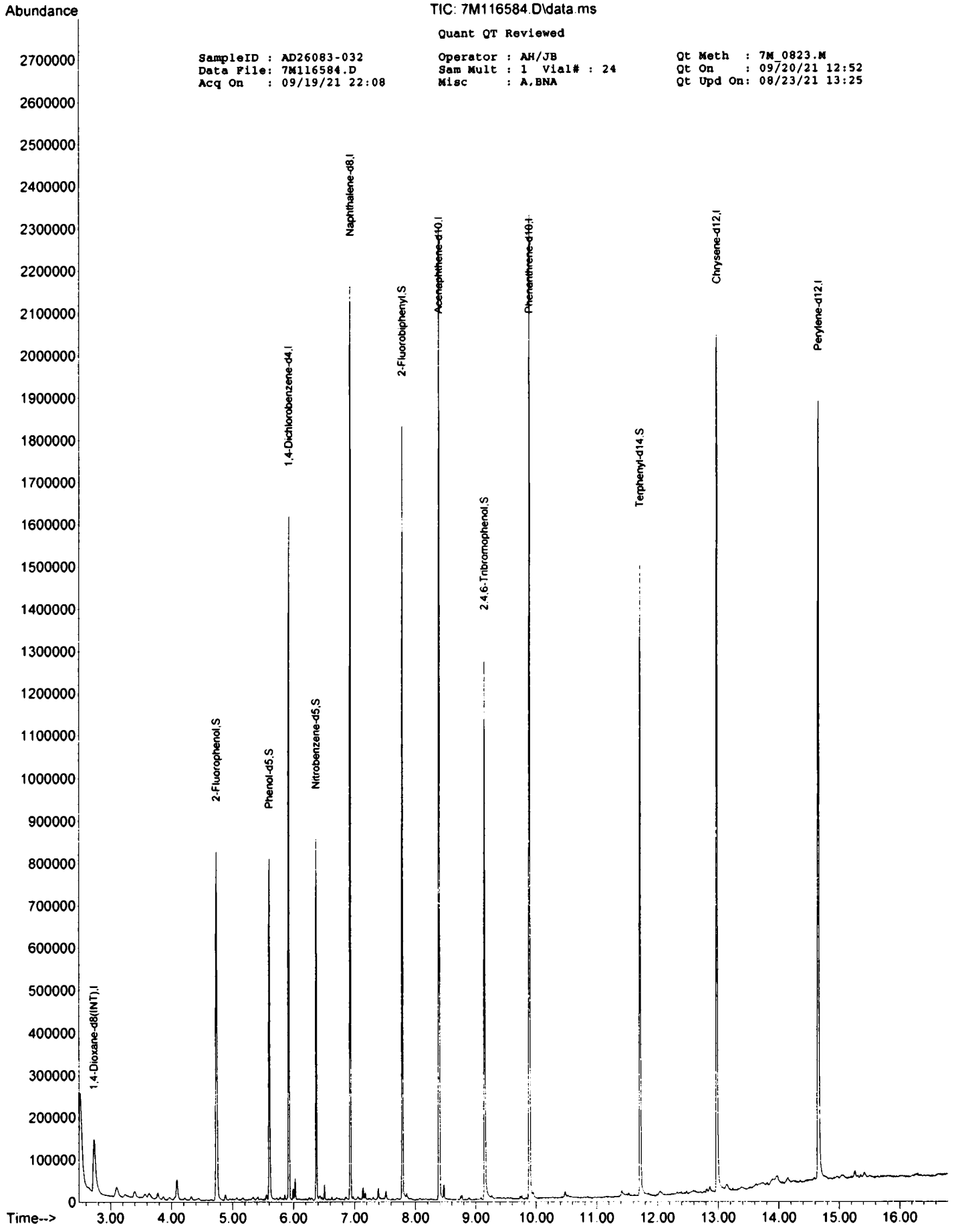
Quantitation Report (QT Reviewed)

SampleID : AD26083-032 Operator : AH/JB Qt Meth : 7M_0823.M
Data File: 7M116584.D Sam Mult : 1 Vial# : 24 Qt On : 09/20/21 12:52
Acq On : 09/19/21 22:08 Misc : A,BNA Qt Upd On: 08/23/21 13:25

Data Path : G:\GcMsData\2021\GCMS_7\Data\09-19-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.728 | 96 | 146898 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.925 | 152 | 254961 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.935 | 136 | 984494 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.392 | 164 | 483914 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.891 | 188 | 904939 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.987 | 240 | 796275 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.662 | 264 | 884409 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.738 | 112 | 359967 | 49.39 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 49.39% | | | |
| 16) Phenol-d5 | 5.607 | 99 | 323255 | 38.99 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 38.99% | | | |
| 32) Nitrobenzene-d5 | 6.371 | 128 | 123261 | 33.67 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 67.34% | | | |
| 55) 2-Fluorobiphenyl | 7.787 | 172 | 519193 | 33.82 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 67.64% | | | |
| 80) 2,4,6-Tribromophenol | 9.150 | 330 | 155281 | 67.32 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 67.32% | | | |
| 94) Terphenyl-d14 | 11.718 | 244 | 480515 | 37.00 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 74.00% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 7M116584.D\data.ms
Quant QT Reviewed
SampleID : AD26083-032
Data File: 7M116584.D
Acq On : 09/19/21 22:08
Operator : AH/JB
Sam Mult : 1 Vial# : 24
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 09/20/21 12:52
Qt Upd On: 08/23/21 13:25
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-033
Client Id: FB-20210915
Data File: 7M116585.D
Analysis Date: 09/19/21 22:32
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00053 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.011 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.011 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

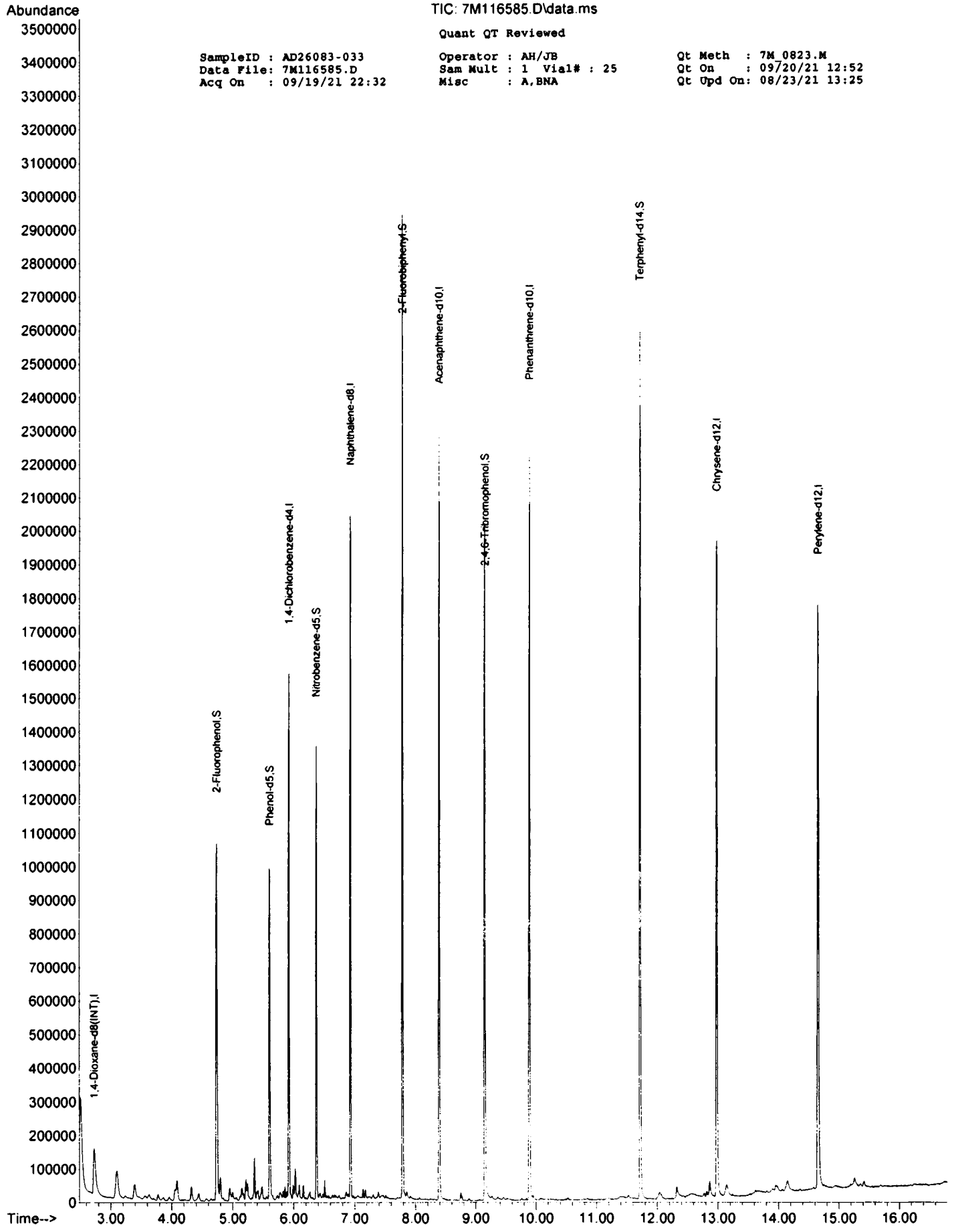
Quantitation Report (QT Reviewed)

SampleID : AD26083-033 Operator : AH/JB Qt Meth : 7M_0823.M
Data File: 7M116585.D Sam Mult : 1 Vial# : 25 Qt On : 09/20/21 12:52
Acq On : 09/19/21 22:32 Misc : A,BNA Qt Upd On: 08/23/21 13:25

Data Path : G:\GcMsData\2021\GCMS_7\Data\09-19-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.728 | 96 | 149073 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.925 | 152 | 250371 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.929 | 136 | 966154 | 40.00 | ng | -0.01 |
| 50) Acenaphthene-d10 | 8.392 | 164 | 471174 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.891 | 188 | 896248 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.981 | 240 | 775656 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.656 | 264 | 865034 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.738 | 112 | 468164 | 63.30 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 63.30% | | | |
| 16) Phenol-d5 | 5.607 | 99 | 390990 | 46.47 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 46.47% | | | |
| 32) Nitrobenzene-d5 | 6.371 | 128 | 198538 | 55.27 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 110.54% | | | |
| 55) 2-Fluorobiphenyl | 7.787 | 172 | 836766 | 55.97 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 111.94% | | | |
| 80) 2,4,6-Tribromophenol | 9.156 | 330 | 263689 | 115.42 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 115.42% | | | |
| 94) Terphenyl-d14 | 11.718 | 244 | 833299 | 65.87 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 131.74% | | | |
| **Target Compounds** | | | | | | Qvalue |

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


Abundance
TIC: 7M116585.D\data.ms
Quant QT Reviewed
SampleID : AD26083-033
Data File: 7M116585.D
Acq On : 09/19/21 22:32
Operator : AH/JB
Sam Mult : 1 Vial# : 25
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 09/20/21 12:52
Qt Upd On: 08/23/21 13:25
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-035
Client Id: LTMW-18C-20210916
Data File: 7M116586.D
Analysis Date: 09/19/21 22:56
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00053 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | **105-60-2** | **Caprolactam** | **0.0021** | **0.039** |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.011 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.011 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

***Total Target Concentration*** 0.039

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

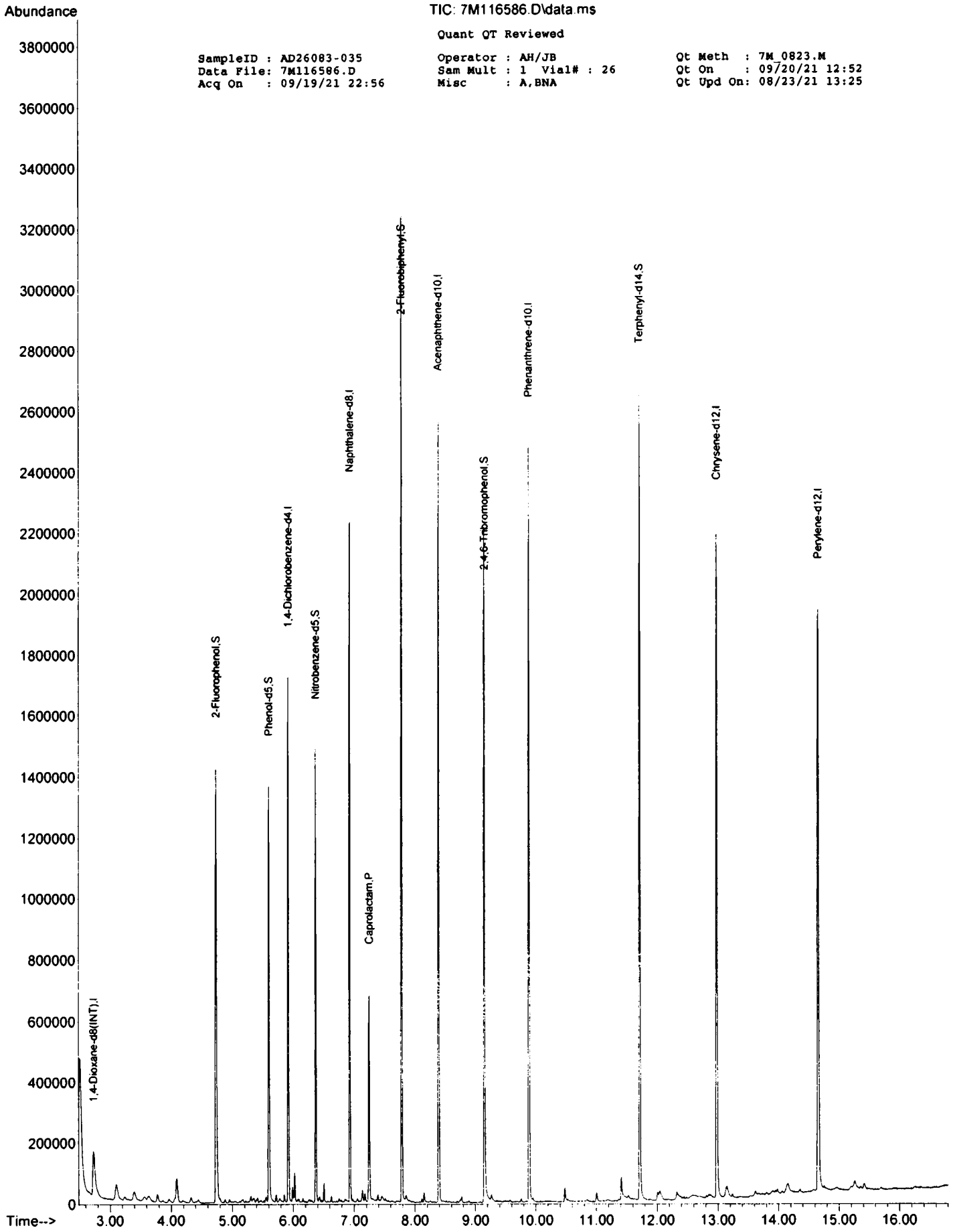
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

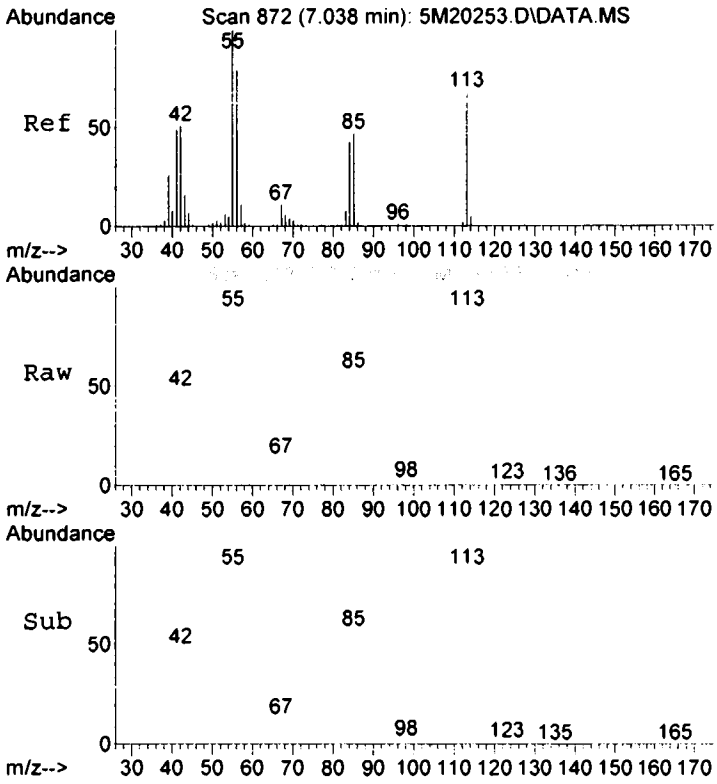
SampleID : AD26083-035 Operator : AH/JB Qt Meth : 7M_0823.M
Data File: 7M116586.D Sam Mult : 1 Vial# : 26 Qt On : 09/20/21 12:52
Acq On : 09/19/21 22:56 Misc : A,BNA Qt Upd On: 08/23/21 13:25

Data Path : G:\GcMsData\2021\GCMS_7\Data\09-19-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.728 | 96 | 164303 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.924 | 152 | 278807 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.935 | 136 | 1074971 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.392 | 164 | 516477 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.890 | 188 | 976282 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.981 | 240 | 847145 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.656 | 264 | 941414 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.738 | 112 | 619094 | 75.95 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 75.95% | | | |
| 16) Phenol-d5 | 5.607 | 99 | 536293 | 57.83 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 57.83% | | | |
| 32) Nitrobenzene-d5 | 6.371 | 128 | 225819 | 56.50 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 113.00% | | | |
| 55) 2-Fluorobiphenyl | 7.787 | 172 | 932764 | 56.92 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 113.84% | | | |
| 80) 2,4,6-Tribromophenol | 9.156 | 330 | 293327 | 117.87 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 117.87% | | | |
| 94) Terphenyl-d14 | 11.718 | 244 | 859071 | 62.17 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 124.34% | | | |
| Target Compounds | | | | | | Qvalue |
| 44) Caprolactam | 7.252 | 113 | 116776 | 37.0943 | ng | 59 |

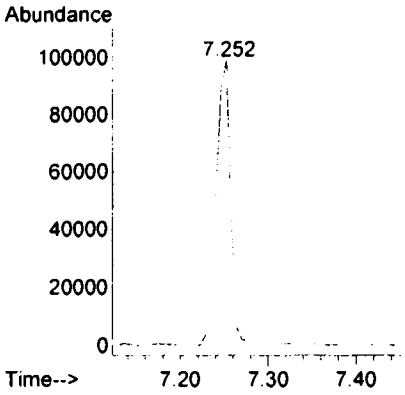
(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M116586.D\data.ms
Quant QT Reviewed
SampleID : AD26083-035
Data File: 7M116586.D
Acq On : 09/19/21 22:56
Operator : AH/JB
Sam Mult : 1 Vial# : 26
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 09/20/21 12:52
Qt Upd On: 08/23/21 13:25
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
Caprolactam.P
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->




#44
Caprolactam
Concen: 37.09 ng
RT: 7.252 min Scan# 812
Delta R.T. -0.029 min
Lab File: 7M116586.D
Acq: 19 Sep 2021 22:56

| Tgt Ion:113 | Resp: | 116776 | |
|---|---|---|---|
| Ion | Ratio | Lower | Upper |
| 113 | 100 | | |
| 55 | 110.9 | 0.0 | 330.0 |
| 56 | 87.0 | 0.0 | 369.6 |



# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-036
Client Id: LTMW-2-20210916 U
Data File: 7M116587.D
Analysis Date: 09/19/21 23:19
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| **123-91-1** | **1,4-Dioxane** | **0.00053** | **0.00060** | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.011 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.011 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546 *Total Target Concentration* 0.0006 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

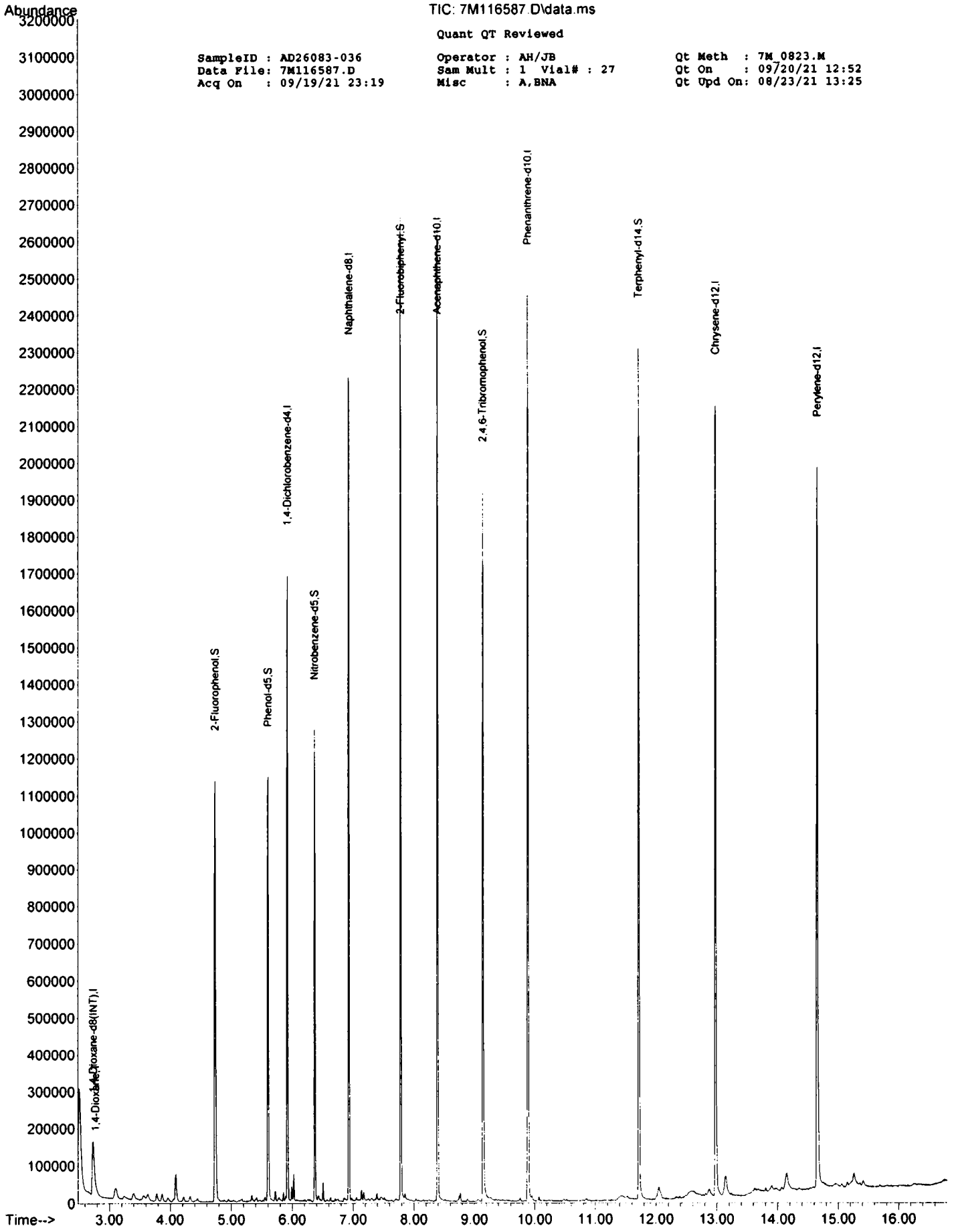
Quantitation Report (QT Reviewed)

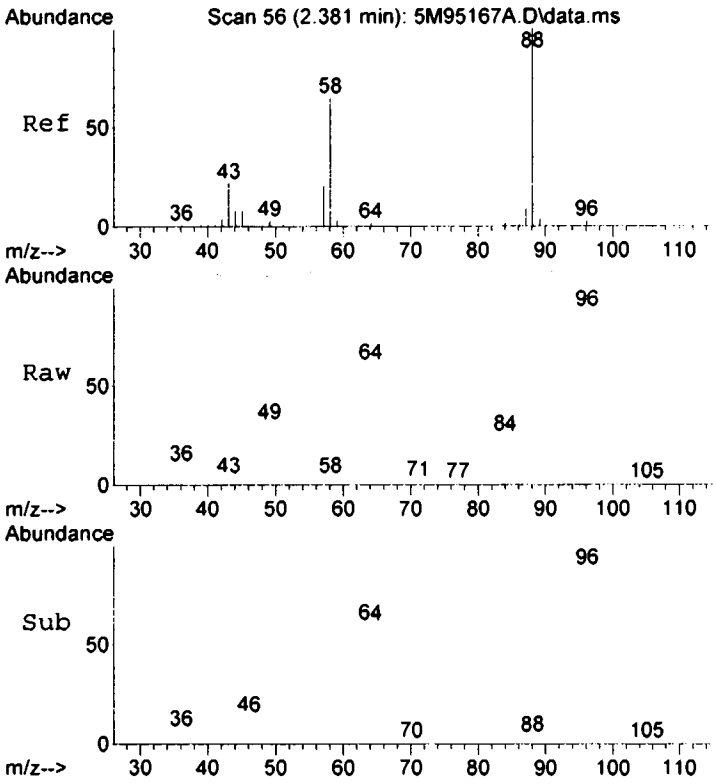
SampleID : AD26083-036 Operator : AH/JB Qt Meth : 7M_0823.M
Data File: 7M116587.D Sam Mult : 1 Vial# : 27 Qt On : 09/20/21 12:52
Acq On : 09/19/21 23:19 Misc : A,BNA Qt Upd On: 08/23/21 13:25

Data Path : G:\GcMsData\2021\GCMS_7\Data\09-19-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.734 | 96 | 159128 | 40.00 | ng | 0.01 |
| 21) 1,4-Dichlorobenzene-d4 | 5.925 | 152 | 270953 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.935 | 136 | 1050273 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.392 | 164 | 519252 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.891 | 188 | 961311 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.987 | 240 | 848931 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.662 | 264 | 945600 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.738 | 112 | 497295 | 62.99 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 62.99% | | | |
| 16) Phenol-d5 | 5.607 | 99 | 458844 | 51.09 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.09% | | | |
| 32) Nitrobenzene-d5 | 6.371 | 128 | 184429 | 47.23 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 94.46% | | | |
| 55) 2-Fluorobiphenyl | 7.787 | 172 | 774483 | 47.01 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 94.02% | | | |
| 80) 2,4,6-Tribromophenol | 9.150 | 330 | 243325 | 99.30 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 99.30% | | | |
| 94) Terphenyl-d14 | 11.718 | 244 | 754762 | 54.51 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 109.02% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.769 | 88 | 2153m | 0.5718 | ng | |

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

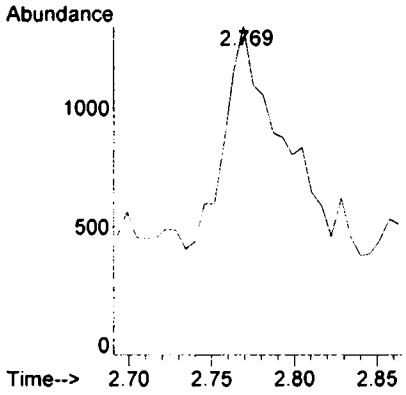

Abundance
TIC: 7M116587.D\data.ms
Quant QT Reviewed
SampleID : AD26083-036
Data File: 7M116587.D
Acq On : 09/19/21 23:19
Operator : AH/JB
Sam Mult : 1 Vial# : 27
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 09/20/21 12:52
Qt Upd On: 08/23/21 13:25
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->




#8
1,4-Dioxane
Concen: 0.57 ng m
RT: 2.769 min Scan# 49
Delta R.T. 0.006 min
Lab File: 7M116587.D
Acq: 19 Sep 2021 23:19

Tgt Ion: 88 Resp: 2153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 50.2 | 0.0 | 129.2 |



# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-038
Client Id: LTMW-18UG-20210916 U
Data File: 10M87395.D
Analysis Date: 09/20/21 21:17
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00053 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.011 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.011 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes In the GC inlet and is detected as diphenylamine*

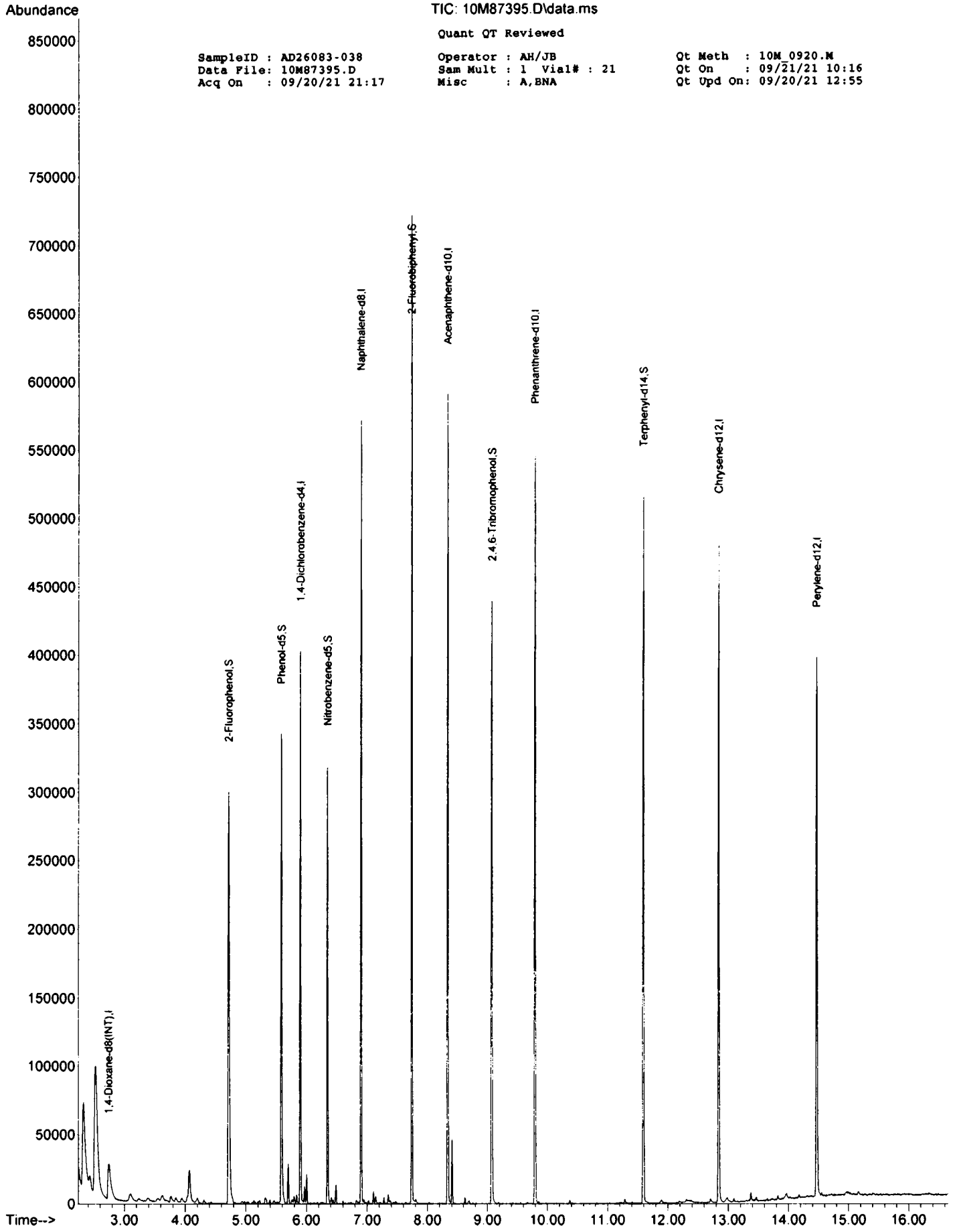
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-038 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87395.D Sam Mult : 1 Vial# : 21 Qt On : 09/21/21 10:16
Acq On : 09/20/21 21:17 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.740 | 96 | 33607 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 64396 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.901 | 136 | 258180 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 124345 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.794 | 188 | 218868 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 158561 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 161198 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.718 | 112 | 137079 | 74.74 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 74.74% | | | |
| 16) Phenol-d5 | 5.585 | 99 | 131950 | 59.16 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 59.16% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 49218 | 55.40 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 110.80% | | | |
| 55) 2-Fluorobiphenyl | 7.740 | 172 | 220999 | 56.10 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 112.20% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 47673 | 110.08 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 110.08% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 161295 | 65.30 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 130.60% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87395.D\data.ms
Quant QT Reviewed
SampleID : AD26083-038
Data File: 10M87395.D
Acq On : 09/20/21 21:17
Operator : AH/JB
Sam Mult : 1 Vial# : 21
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-040
Client Id: LTMW-1-20210916 U
Data File: 10M87396.D
Analysis Date: 09/20/21 21:39
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| **123-91-1** | **1,4-Dioxane** | **0.00050** | **0.031** | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0.031

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC Inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

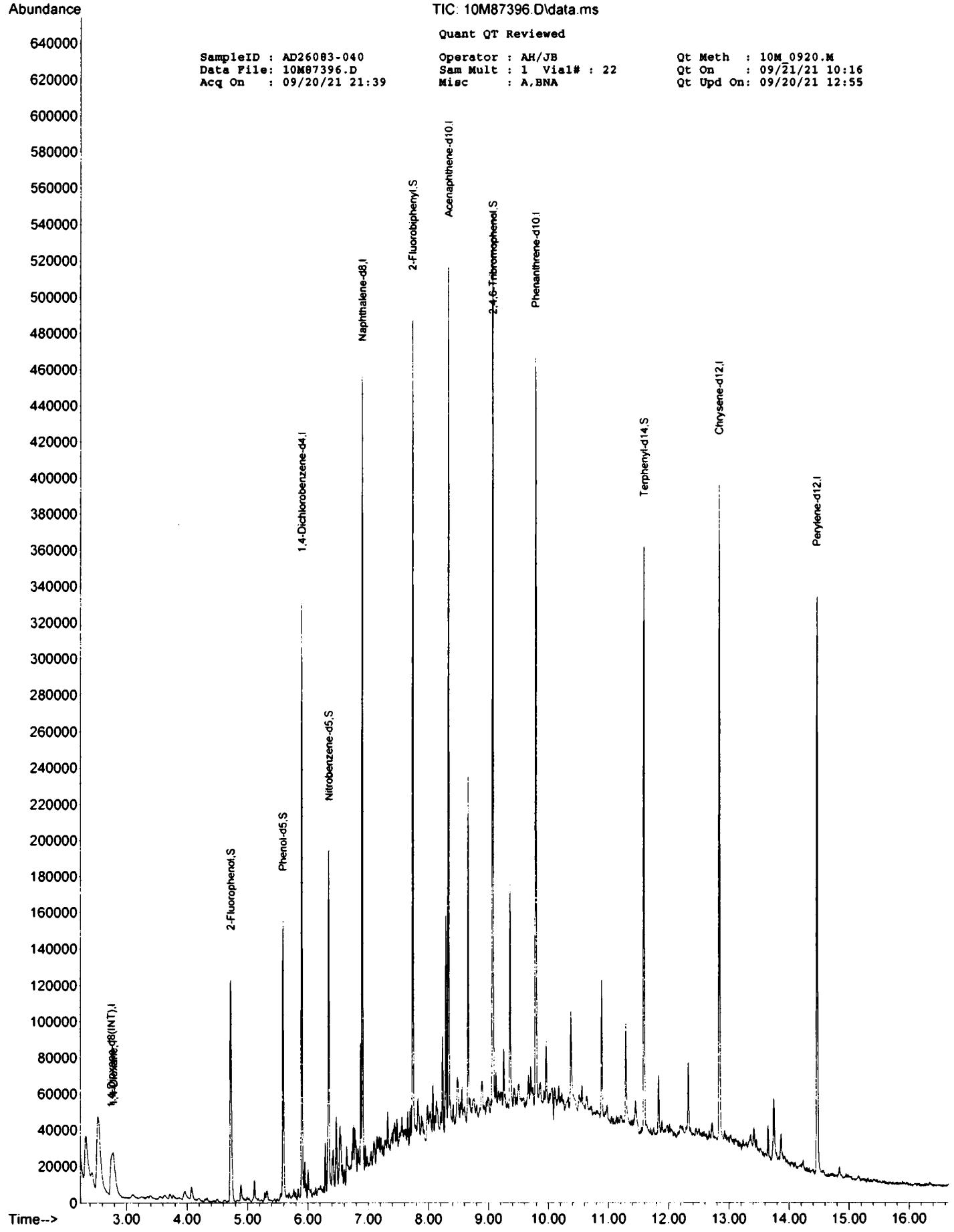
Quantitation Report (QT Reviewed)

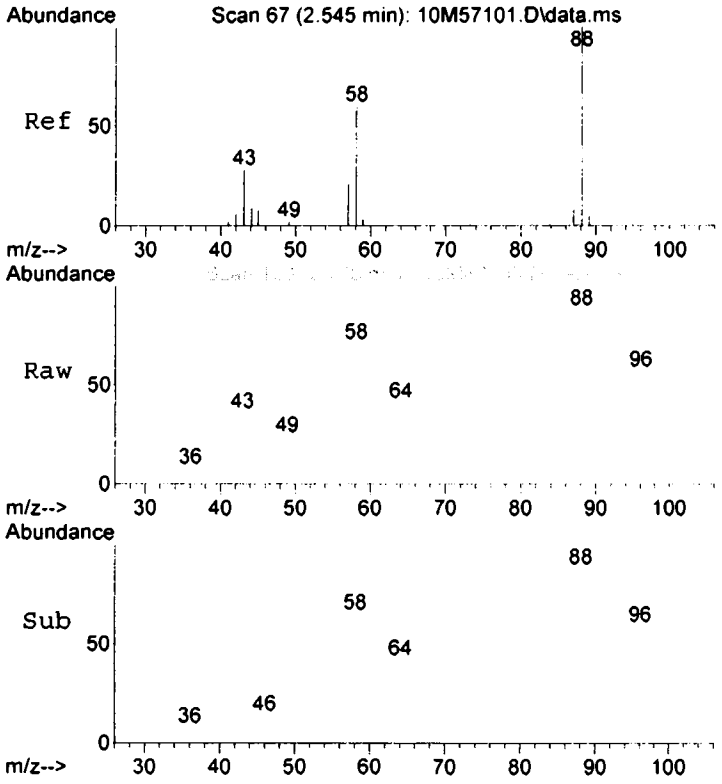
SampleID : AD26083-040 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87396.D Sam Mult : 1 Vial# : 22 Qt On : 09/21/21 10:16
Acq On : 09/20/21 21:39 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.750 | 96 | 25927 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 51323 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 201541 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 94493 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.794 | 188 | 164648 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 120996 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 125624 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.724 | 112 | 60180 | 42.53 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 42.53% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 58971 | 34.27 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 34.27% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 28094 | 40.51 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 81.02% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 134965 | 45.09 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 90.18% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 27082 | 85.46 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 85.46% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 97857 | 51.91 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 103.82% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.788 | 88 | 18991 | 31.3481 | ng | 91 |

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

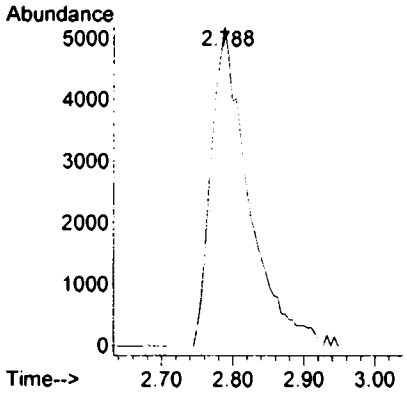

Abundance
TIC: 10M87396.D\data.ms
Quant QT Reviewed
SampleID : AD26083-040
Data File: 10M87396.D
Acq On : 09/20/21 21:39
Operator : AH/JB
Sam Mult : 1 Vial# : 22
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->




#8
1,4-Dioxane
Concen: 31.35 ng
RT: 2.788 min Scan# 103
Delta R.T. 0.005 min
Lab File: 10M87396.D
Acq: 20 Sep 2021 21:39

Tgt Ion: 88 Resp: 18991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 44.0 | 0.0 | 100.0 |



# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-042(MS:AD26
Client Id: LTMW-1-20210916MS U
Data File: 10M87401.D
Analysis Date: 09/20/21 23:29
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | 0.12 | 50-32-8 | Benzo[a]pyrene | 0.0020 | 0.12 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen | 0.0020 | 0.11 | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | 0.12 |
| 123-91-1 | 1,4-Dioxane | 0.00050 | 0.12 | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | 0.12 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | 0.12 | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | 0.12 |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | 0.13 | 111-91-1 | bis(2-Chloroethoxy)metha | 0.0020 | 0.11 |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | 0.13 | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | 0.089 |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | 0.11 | 108-60-1 | bis(2-chloroisopropyl)ethe | 0.0020 | 0.063 |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | 0.13 | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | 0.13 |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | 0.098 | 85-68-7 | Butylbenzylphthalate | 0.0020 | 0.12 |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | 0.11 | 105-60-2 | Caprolactam | 0.0020 | 0.053 |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | 0.11 | 86-74-8 | Carbazole | 0.0020 | 0.12 |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | 0.10 | 218-01-9 | Chrysene | 0.0020 | 0.12 |
| 95-57-8 | 2-Chlorophenol | 0.0020 | 0.10 | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | 0.12 |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | 0.11 | 132-64-9 | Dibenzofuran | 0.00068 | 0.11 |
| 95-48-7 | 2-Methylphenol | 0.00050 | 0.099 | 84-66-2 | Diethylphthalate | 0.0020 | 0.11 |
| 88-74-4 | 2-Nitroaniline | 0.0020 | 0.12 | 131-11-3 | Dimethylphthalate | 0.0020 | 0.11 |
| 88-75-5 | 2-Nitrophenol | 0.0020 | 0.12 | 84-74-2 | Di-n-butylphthalate | 0.0011 | 0.12 |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | 0.099 | 117-84-0 | Di-n-octylphthalate | 0.0020 | 0.13 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | 0.11 |
| 99-09-2 | 3-Nitroaniline | 0.0020 | 0.086 | 86-73-7 | Fluorene | 0.0020 | 0.11 |
| 534-52-1 | 4,6-Dinitro-2-methylpheno | 0.010 | 0.10 | 118-74-1 | Hexachlorobenzene | 0.0020 | 0.11 |
| 101-55-3 | 4-Bromophenyl-phenyleth | 0.0020 | 0.12 | 87-68-3 | Hexachlorobutadiene | 0.0020 | 0.050 |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | 0.13 | 77-47-4 | Hexachlorocyclopentadie | 0.0020 | 0.084 |
| 106-47-8 | 4-Chloroaniline | 0.00050 | 0.078 | 67-72-1 | Hexachloroethane | 0.0020 | 0.018 |
| 7005-72-3 | 4-Chlorophenyl-phenyleth | 0.0020 | 0.11 | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | 0.12 |
| 100-01-6 | 4-Nitroaniline | 0.0020 | 0.092 | 78-59-1 | Isophorone | 0.0020 | 0.10 |
| 100-02-7 | 4-Nitrophenol | 0.0020 | 0.060 | 91-20-3 | Naphthalene | 0.00050 | 0.073 |
| 83-32-9 | Acenaphthene | 0.0020 | 0.11 | 98-95-3 | Nitrobenzene | 0.0020 | 0.095 |
| 208-96-8 | Acenaphthylene | 0.0020 | 0.11 | 621-64-7 | N-Nitroso-di-n-propylamin | 0.00064 | 0.10 |
| 98-86-2 | Acetophenone | 0.0020 | 0.11 | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | 0.095 |
| 120-12-7 | Anthracene | 0.0020 | 0.11 | 87-86-5 | Pentachlorophenol | 0.010 | 0.15 |
| 1912-24-9 | Atrazine | 0.0020 | 0.072 | 85-01-8 | Phenanthrene | 0.0020 | 0.11 |
| 100-52-7 | Benzaldehyde | 0.0020 | 0.044 | 108-95-2 | Phenol | 0.0020 | 0.051 |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | 0.11 | 129-00-0 | Pyrene | 0.0020 | 0.11 |

Worksheet #: 611546 *Total Target Concentration* 6.9 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-042(MS:AD26 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87401.D Sam Mult : 1 Vial# : 27 Qt On : 09/21/21 10:16
Acq On : 09/20/21 23:29 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.756 | 96 | 25297 | 40.00 | ng | 0.01 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 48775 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 193140 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 93711 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 163151 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.854 | 240 | 117532 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.475 | 264 | 120240 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.724 | 112 | 98244 | 71.16 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 71.16% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 84167 | 50.13 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.13% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 38422 | 57.81 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 115.62% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 135295 | 45.57 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 91.14% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 41300 | 125.74 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 125.74% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 124675 | 68.09 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 136.18% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.788 | 88 | 72194 | 122.1371 | ng | 62 |
| 9) Pyridine | 3.269 | 79 | 79347 | 68.2759 | ng | 82 |
| 10) N-Nitrosodimethylamine | 3.200 | 74 | 62200 | 70.8688 | ng | 83 |
| 12) Benzaldehyde | 5.532 | 77 | 53260 | 43.6297 | ng | 67 |
| 13) Aniline | 5.623 | 93 | 121140 | 55.4970 | ng | 66 |
| 14) Pentachloroethane | 5.665 | 117 | 49344 | 96.8949 | ng | 82 |
| 15) bis(2-Chloroethyl)ether | 5.681 | 93 | 135087 | 89.0652 | ng | 81 |
| 17) Phenol | 5.601 | 94 | 101639 | 50.7525 | ng | 85 |
| 18) 2-Chlorophenol | 5.724 | 128 | 160099 | 102.8968 | ng | 81 |
| 19) N-Decane | 5.762 | 57 | 166788 | 93.7741 | ng | 90 |
| 20) 1,3-Dichlorobenzene | 5.853 | 146 | 28214 | 16.1865 | ng | 96 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 32590 | 18.9158 | ng | 98 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 37202 | 22.7166 | ng | 96 |
| 24) Benzyl alcohol | 6.018 | 108 | 97512 | 101.9140 | ng | 63 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 151880 | 63.2560 | ng | 93 |
| 26) 2-Methylphenol | 6.109 | 108 | 137983 | 99.4620 | ng | 95 |
| 27) Acetophenone | 6.227 | 105 | 211161 | 109.3100 | ng | 76 |
| 28) Hexachloroethane | 6.313 | 117 | 10884 | 17.5613 | ng | 79 |
| 29) N-Nitroso-di-n-propyla... | 6.227 | 70 | 96758 | 101.6043 | ng | 77 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 133422 | 98.5993 | ng | 89 |
| 33) Nitrobenzene | 6.366 | 77 | 131838 | 94.9255 | ng | 73 |
| 34) Isophorone | 6.548 | 82 | 263530 | 102.5118 | ng | 85 |
| 35) 2-Nitrophenol | 6.612 | 139 | 92817 | 119.5034 | ng | 81 |
| 36) 2,4-Dimethylphenol | 6.639 | 107 | 162264 | 125.4376 | ng | 89 |
| 37) Benzoic Acid | 6.730 | 105 | 95460 | 105.2644 | ng | 83 |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 177349 | 108.8701 | ng | 95 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 135438 | 114.3470 | ng | 88 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 84404 | 69.6812 | ng | 99 |
| 41) Naphthalene | 6.922 | 128 | 326596 | 72.5472 | ng | 100 |
| 42) 4-Chloroaniline | 6.960 | 127 | 131021m | 77.9894 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 28920 | 50.4146 | ng | 99 |
| 44) Caprolactam | 7.254 | 113 | 23863 | 53.4322 | ng | 71 |
| 45) 4-Chloro-3-methylphenol | 7.323 | 107 | 149144 | 127.3000 | ng | 81 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 323678 | 108.3978 | ng | 97 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 345669 | 122.0339 | ng | 94 |
| 49) 1,1'-Biphenyl | 7.832 | 154 | 395159 | 117.2819 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 122637 | 113.6919 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 40240 | 84.3011 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.682 | 196 | 92996 | 128.1310 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.714 | 196 | 100771 | 129.0656 | ng | 98 |
| 56) 2-Chloronaphthalene | 7.858 | 162 | 267873 | 103.5735 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 227709 | 111.9776 | ng | 89 |
| 59) Diphenyl Ether | 7.917 | 170 | 212966 | 116.3025 | ng | 73 |
| 60) 2-Nitroaniline | 7.939 | 65 | 103592 | 123.2156 | ng | 38 |
| 61) Coumarin | 8.126 | 146 | 126321 | 126.7898 | ng | 88 |
| 62) Acenaphthylene | 8.217 | 152 | 432431 | 108.8358 | ng | 99 |
| 63) Dimethylphthalate | 8.078 | 163 | 316790 | 112.8253 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.136 | 165 | 69750 | 112.6341 | ng | 61 |
| 65) Acenaphthene | 8.366 | 153 | 278015 | 106.4357 | ng | 97 |
| 66) 3-Nitroaniline | 8.286 | 138 | 66613 | 85.6423 | ng | 72 |
| 67) 2,4-Dinitrophenol | 8.383 | 184 | 35028 | 98.2502 | ng | 33 |

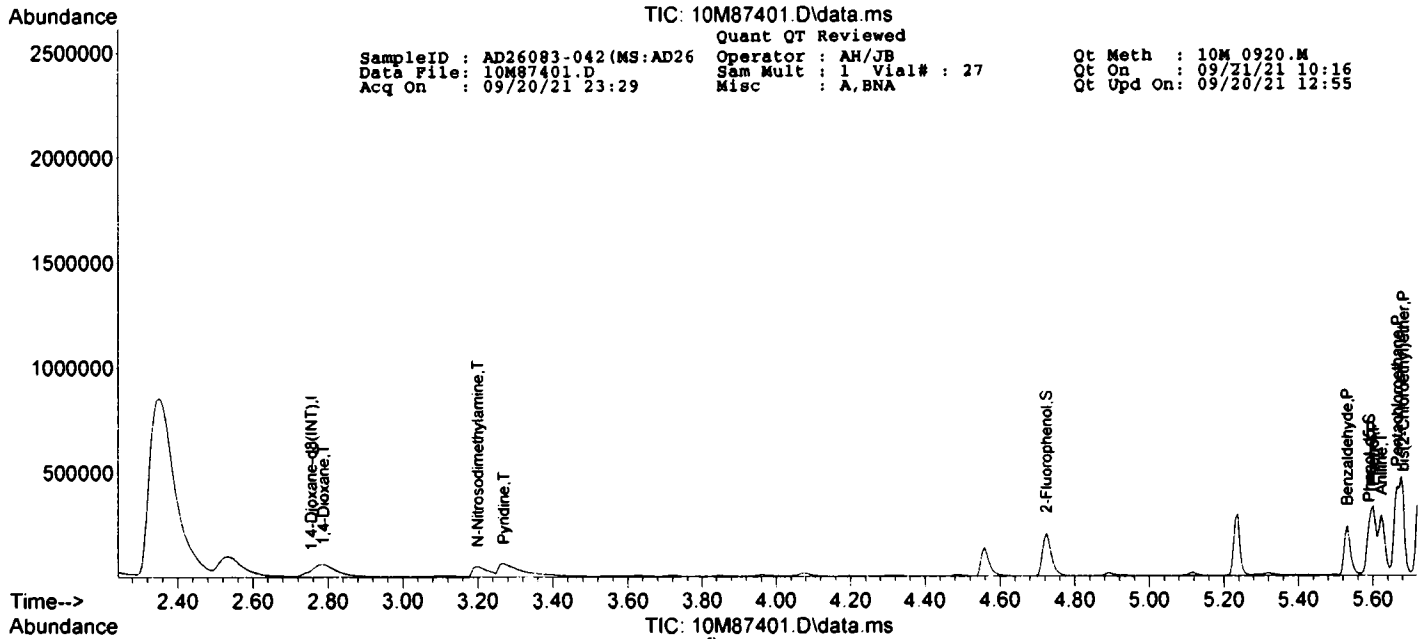
Quantitation Report (QT Reviewed)

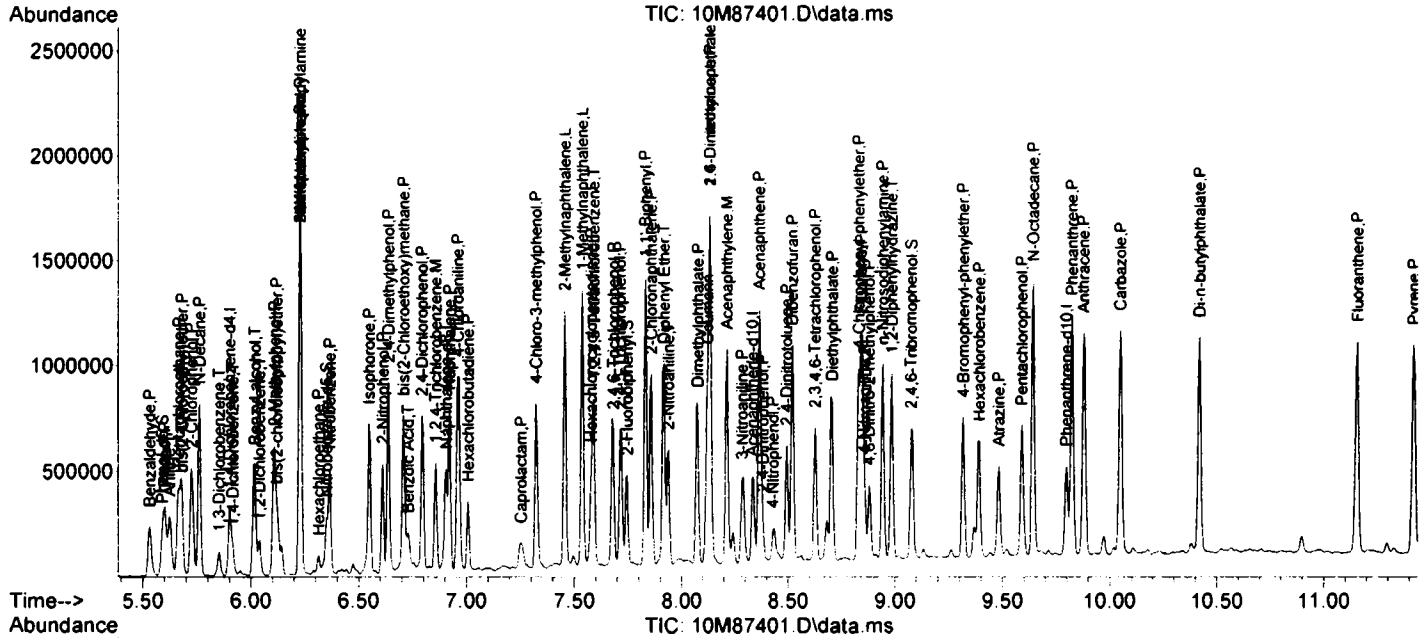
SampleID : AD26083-042(MS:AD26 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87401.D Sam Mult : 1 Vial# : 27 Qt On : 09/21/21 10:16
Acq On : 09/20/21 23:29 Misc : A,BNA Qt Upd On: 09/20/21 12:55

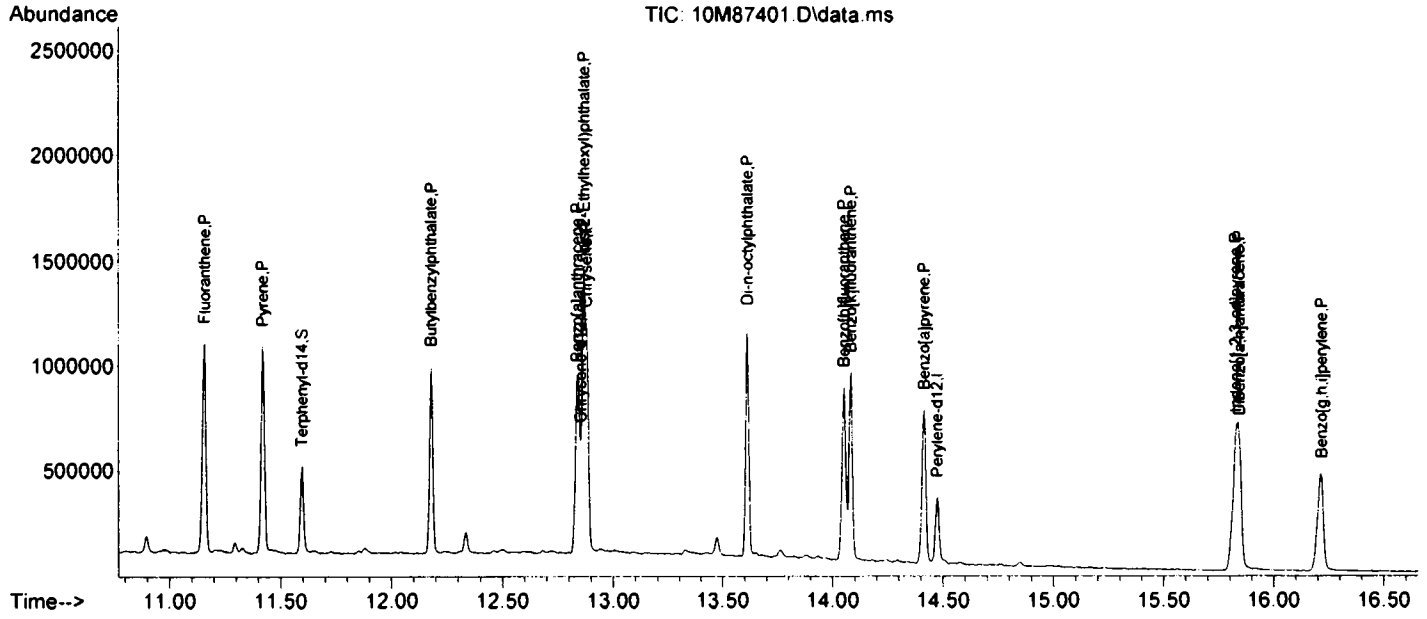
Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | Dibenzofuran | 8.522 | 168 | 425251 | 113.6644 | ng | 84 |
| 69) | 2,4-Dinitrotoluene | 8.495 | 165 | 97696 | 108.7178 | ng | 59 |
| 70) | 4-Nitrophenol | 8.431 | 65 | 29231 | 59.5640 | ng | 93 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.629 | 232 | 71807 | 121.7759 | ng | 88 |
| 72) | Fluorene | 8.842 | 166 | 319839 | 108.4533 | ng | 97 |
| 73) | 4-Chlorophenyl-phenyle... | 8.832 | 204 | 141286 | 111.2589 | ng | 86 |
| 74) | Diethylphthalate | 8.709 | 149 | 311534 | 112.2284 | ng | 96 |
| 75) | 4-Nitroaniline | 8.859 | 138 | 80180 | 92.1752 | ng | 67 |
| 76) | Atrazine | 9.484 | 200 | 52113 | 72.0013 | ng | 94 |
| 78) | 4,6-Dinitro-2-methylph... | 8.880 | 198 | 49918 | 104.7671 | ng | 56 |
| 79) | n-Nitrosodiphenylamine | 8.944 | 169 | 235499 | 95.0260 | ng | 96 |
| 81) | 1,2-Diphenylhydrazine | 8.987 | 77 | 335723 | 117.8440 | ng | 79 |
| 82) | 4-Bromophenyl-phenylether | 9.319 | 248 | 75196 | 115.6384 | ng | 91 |
| 83) | Hexachlorobenzene | 9.393 | 284 | 74789 | 109.4281 | ng | 68 |
| 84) | N-Octadecane | 9.645 | 57 | 246466 | 125.6133 | ng | 87 |
| 85) | Pentachlorophenol | 9.591 | 266 | 70524 | 154.4478 | ng | 97 |
| 86) | Phenanthrene | 9.827 | 178 | 461119 | 113.3525 | ng | 99 |
| 87) | Anthracene | 9.880 | 178 | 464715 | 112.3591 | ng | 99 |
| 88) | Carbazole | 10.051 | 167 | 480326 | 121.5498 | ng | 96 |
| 89) | Di-n-butylphthalate | 10.420 | 149 | 549097 | 115.4422 | ng | 97 |
| 90) | Fluoranthene | 11.158 | 202 | 456992 | 114.3512 | ng | 95 |
| 92) | Pyrene | 11.421 | 202 | 450153 | 114.3604 | ng | 94 |
| 97) | Butylbenzylphthalate | 12.180 | 149 | 233097 | 119.3268 | ng | 72 |
| 100) | Benzo[a]anthracene | 12.838 | 228 | 354805 | 107.8353 | ng | 99 |
| 101) | Chrysene | 12.881 | 228 | 382170 | 115.9138 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.870 | 149 | 328717 | 128.0431 | ng | 90 |
| 104) | Di-n-octylphthalate | 13.613 | 149 | 562225 | 126.6224 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.052 | 252 | 374456 | 124.9713 | ng | 98 |
| 106) | Benzo[k]fluoranthene | 14.084 | 252 | 347723 | 117.8013 | ng | 94 |
| 107) | Benzo[a]pyrene | 14.416 | 252 | 322053 | 116.6767 | ng | 97 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.828 | 276 | 365471 | 119.0256 | ng | 99 |
| 109) | Dibenzo[a,h]anthracene | 15.844 | 278 | 311461 | 118.3377 | ng | 97 |
| 110) | Benzo[g,h,i]perylene | 16.218 | 276 | 301036 | 115.8156 | ng | 88 |

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


Abundance
TIC: 10M87401.D\data.ms
Quant QT Reviewed
SampleID : AD26083-042(MS:AD26
Data File: 10M87401.D
Acq On : 09/20/21 23:29
Operator : AH/JB
Sam Mult : 1 Vial# : 27
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->


Abundance
TIC: 10M87401.D\data.ms
Benzaldehyde,P
1,3-Dichlorobenzene,T
Hexachloroethane,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
bis(2-Chloroethoxy)methane,P
Benzoic Acid,T
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
1-Methylnaphthalene,L
Hexachlorocyclopentadiene,P
2,4,6-Trichlorophenol,P
2-Fluorobiphenyl,S
2-Chloronaphthalene,P
Dimethylphthalate,P
Acenaphthylene,M
2-Nitroaniline,P
Dibenzofuran,P
2,6-Dinitrotoluene,P
3-Nitroaniline,P
Acenaphthene,P
2,4-Dinitrophenol,P
4-Nitrophenol,P
Fluorene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Chlorophenyl-phenylether,P
4,6-Dinitro-2-methylphenol,P
1,2-Diphenylhydrazine,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
Time-->


Abundance
TIC: 10M87401.D\data.ms
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Benzo[a]anthracene,P
Chrysene,P
bis(2-Ethylhexyl)phthalate,P
Di-n-octylphthalate,P
Benzo[b]fluoranthene,P
Benzo[k]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Dibenz[a,h]anthracene,P
Benzo[g,h,i]perylene,P
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-044(MSD:AD
Client Id: LTMW-1-20210916MSD U
Data File: 10M87402.D
Analysis Date: 09/20/21 23:51
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | 0.12 | 50-32-8 | Benzo[a]pyrene | 0.0020 | 0.11 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen | 0.0020 | 0.12 | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | 0.12 |
| 123-91-1 | 1,4-Dioxane | 0.00050 | 0.12 | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | 0.11 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | 0.11 | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | 0.11 |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | 0.12 | 111-91-1 | bis(2-Chloroethoxy)metha | 0.0020 | 0.10 |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | 0.13 | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | 0.082 |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | 0.11 | 108-60-1 | bis(2-chloroisopropyl)ethe | 0.0020 | 0.059 |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | 0.13 | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | 0.12 |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | 0.041 | 85-68-7 | Butylbenzylphthalate | 0.0020 | 0.12 |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | 0.11 | 105-60-2 | Caprolactam | 0.0020 | 0.053 |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | 0.12 | 86-74-8 | Carbazole | 0.0020 | 0.12 |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | 0.10 | 218-01-9 | Chrysene | 0.0020 | 0.11 |
| 95-57-8 | 2-Chlorophenol | 0.0020 | 0.10 | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | 0.12 |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | 0.11 | 132-64-9 | Dibenzofuran | 0.00068 | 0.11 |
| 95-48-7 | 2-Methylphenol | 0.00050 | 0.097 | 84-66-2 | Diethylphthalate | 0.0020 | 0.11 |
| 88-74-4 | 2-Nitroaniline | 0.0020 | 0.12 | 131-11-3 | Dimethylphthalate | 0.0020 | 0.11 |
| 88-75-5 | 2-Nitrophenol | 0.0020 | 0.12 | 84-74-2 | Di-n-butylphthalate | 0.0011 | 0.11 |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | 0.097 | 117-84-0 | Di-n-octylphthalate | 0.0020 | 0.12 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | 0.0029 | 206-44-0 | Fluoranthene | 0.0020 | 0.11 |
| 99-09-2 | 3-Nitroaniline | 0.0020 | 0.098 | 86-73-7 | Fluorene | 0.0020 | 0.11 |
| 534-52-1 | 4,6-Dinitro-2-methylpheno | 0.010 | 0.072 | 118-74-1 | Hexachlorobenzene | 0.0020 | 0.11 |
| 101-55-3 | 4-Bromophenyl-phenyleth | 0.0020 | 0.12 | 87-68-3 | Hexachlorobutadiene | 0.0020 | 0.050 |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | 0.13 | 77-47-4 | Hexachlorocyclopentadie | 0.0020 | 0.080 |
| 106-47-8 | 4-Chloroaniline | 0.00050 | 0.092 | 67-72-1 | Hexachloroethane | 0.0020 | 0.019 |
| 7005-72-3 | 4-Chlorophenyl-phenyleth | 0.0020 | 0.11 | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | 0.12 |
| 100-01-6 | 4-Nitroaniline | 0.0020 | 0.10 | 78-59-1 | Isophorone | 0.0020 | 0.10 |
| 100-02-7 | 4-Nitrophenol | 0.0020 | 0.056 | 91-20-3 | Naphthalene | 0.00050 | 0.072 |
| 83-32-9 | Acenaphthene | 0.0020 | 0.11 | 98-95-3 | Nitrobenzene | 0.0020 | 0.091 |
| 208-96-8 | Acenaphthylene | 0.0020 | 0.11 | 621-64-7 | N-Nitroso-di-n-propylamin | 0.00064 | 0.10 |
| 98-86-2 | Acetophenone | 0.0020 | 0.11 | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | 0.094 |
| 120-12-7 | Anthracene | 0.0020 | 0.11 | 87-86-5 | Pentachlorophenol | 0.010 | 0.12 |
| 1912-24-9 | Atrazine | 0.0020 | 0.088 | 85-01-8 | Phenanthrene | 0.0020 | 0.11 |
| 100-52-7 | Benzaldehyde | 0.0020 | 0.052 | 108-95-2 | Phenol | 0.0020 | 0.051 |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | 0.10 | 129-00-0 | Pyrene | 0.0020 | 0.11 |

Worksheet #: 611546 *Total Target Concentration* 6.8 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Quantitation Report (QT Reviewed)

SampleID : AD26083-044(MSD:AD2 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87402.D Sam Mult : 1 Vial# : 28 Qt On : 09/21/21 10:17
Acq On : 09/20/21 23:51 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.756 | 96 | 22736 | 40.00 | ng | 0.01 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 44396 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 174413 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 83096 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 145979 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.849 | 240 | 108035 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.474 | 264 | 111088 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.724 | 112 | 81477 | 65.66 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 65.66% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 71576 | 47.43 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 47.43% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 32315 | 53.84 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 107.68% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 112816 | 42.85 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 85.70% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 34973 | 119.78 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 119.78% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 109716 | 65.19 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 130.38% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.788 | 88 | 61481 | 115.7290 | ng | 64 |
| 9) Pyridine | 3.269 | 79 | 77887 | 73.9737 | ng | 83 |
| 10) N-Nitrosodimethylamine | 3.200 | 74 | 50017 | 63.4070 | ng | 82 |
| 12) Benzaldehyde | 5.532 | 77 | 56841 | 51.8081 | ng | 69 |
| 13) Aniline | 5.622 | 93 | 145900 | 74.3690 | ng | 58 |
| 14) Pentachloroethane | 5.665 | 117 | 42785 | 93.4788 | ng | 84 |
| 15) bis(2-Chloroethyl)ether | 5.681 | 93 | 112084 | 82.2230 | ng | 80 |
| 17) Phenol | 5.606 | 94 | 91160 | 50.6473 | ng | 83 |
| 18) 2-Chlorophenol | 5.724 | 128 | 140091 | 100.1794 | ng | 82 |
| 19) N-Decane | 5.762 | 57 | 139577 | 87.3146 | ng | 92 |
| 20) 1,3-Dichlorobenzene | 5.852 | 146 | 27091 | 17.2929 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 31426 | 20.0394 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 34055 | 22.8460 | ng | 98 |
| 24) Benzyl alcohol | 6.018 | 108 | 85342 | 97.9924 | ng | 65 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 129843 | 59.4119 | ng | 93 |
| 26) 2-Methylphenol | 6.109 | 108 | 122085 | 96.6824 | ng | 96 |
| 27) Acetophenone | 6.227 | 105 | 189719 | 107.8972 | ng | 78 |
| 28) Hexachloroethane | 6.312 | 117 | 10560 | 18.7192 | ng | 86 |
| 29) N-Nitroso-di-n-propyla... | 6.227 | 70 | 86249 | 99.5022 | ng | 79 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 119142 | 96.7308 | ng | 89 |
| 33) Nitrobenzene | 6.366 | 77 | 113737 | 90.6854 | ng | 74 |
| 34) Isophorone | 6.548 | 82 | 232573 | 100.1836 | ng | 84 |
| 35) 2-Nitrophenol | 6.612 | 139 | 83159 | 118.5647 | ng | 81 |
| 36) 2,4-Dimethylphenol | 6.639 | 107 | 147253 | 126.0558 | ng | 89 |
| 37) Benzoic Acid | 6.703 | 105 | 29115 | 41.3583 | ng | 82 |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 154401 | 104.9599 | ng | 96 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 121165 | 113.3154 | ng | 89 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 74207 | 67.8408 | ng | 98 |
| 41) Naphthalene | 6.922 | 128 | 292471 | 71.9426 | ng | 100 |
| 42) 4-Chloroaniline | 6.960 | 127 | 140207m | 92.4182 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 25892 | 49.9824 | ng | 96 |
| 44) Caprolactam | 7.248 | 113 | 21527 | 53.3813 | ng | 70 |
| 45) 4-Chloro-3-methylphenol | 7.323 | 107 | 132785 | 125.5062 | ng | 80 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 288759 | 107.0869 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 314710 | 123.0337 | ng | 96 |
| 49) 1,1'-Biphenyl | 7.831 | 154 | 355705 | 116.9076 | ng | 95 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 110268 | 115.2837 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 33893 | 80.4319 | ng | 98 |
| 53) 2,4,6-Trichlorophenol | 7.682 | 196 | 83366 | 129.5356 | ng | 98 |
| 54) 2,4,5-Trichlorophenol | 7.719 | 196 | 86296 | 124.6454 | ng | 97 |
| 56) 2-Chloronaphthalene | 7.858 | 162 | 239610 | 104.4805 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 210848 | 116.9314 | ng | 88 |
| 59) Diphenyl Ether | 7.917 | 170 | 193008 | 118.8679 | ng | 74 |
| 60) 2-Nitroaniline | 7.938 | 65 | 92546 | 124.1388 | ng | 42 |
| 61) Coumarin | 8.120 | 146 | 113626 | 128.6166 | ng | 89 |
| 62) Acenaphthylene | 8.217 | 152 | 385197 | 109.3323 | ng | 100 |
| 63) Dimethylphthalate | 8.078 | 163 | 280606 | 112.7048 | ng | 93 |
| 64) 2,6-Dinitrotoluene | 8.136 | 165 | 64237 | 116.9826 | ng | 61 |
| 65) Acenaphthene | 8.366 | 153 | 249610 | 107.7684 | ng | 97 |
| 66) 3-Nitroaniline | 8.291 | 138 | 67705 | 98.1659 | ng | 63 |
| 67) 2,4-Dinitrophenol | 8.382 | 184 | 11531 | 41.0857 | ng | 34 |

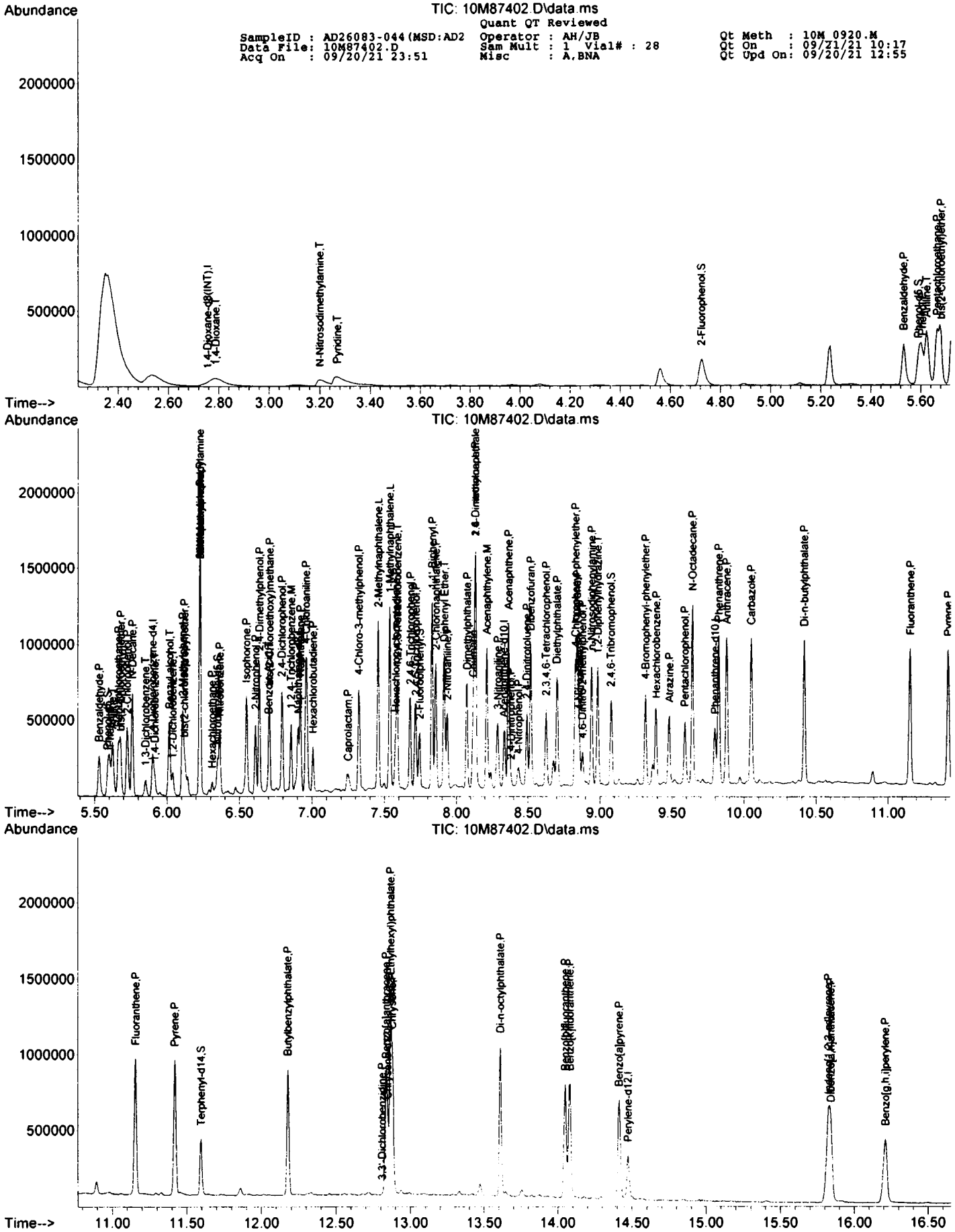
Quantitation Report (QT Reviewed)

SampleID : AD26083-044(MSD:AD2 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87402.D Sam Mult : 1 Vial# : 28 Qt On : 09/21/21 10:17
Acq On : 09/20/21 23:51 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | Dibenzofuran | 8.521 | 168 | 379893 | 114.5120 | ng | 86 |
| 69) | 2,4-Dinitrotoluene | 8.495 | 165 | 86058 | 108.0516 | ng | 60 |
| 70) | 4-Nitrophenol | 8.436 | 65 | 24236 | 55.8687 | ng | 88 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.628 | 232 | 56649 | 108.3421 | ng | 89 |
| 72) | Fluorene | 8.842 | 166 | 284122 | 108.6492 | ng | 97 |
| 73) | 4-Chlorophenyl-phenyle... | 8.832 | 204 | 126307 | 112.1692 | ng | 86 |
| 74) | Diethylphthalate | 8.703 | 149 | 278309 | 113.0668 | ng | 97 |
| 75) | 4-Nitroaniline | 8.858 | 138 | 80629 | 103.7332 | ng | 66 |
| 76) | Atrazine | 9.484 | 200 | 56700 | 88.3462 | ng | 96 |
| 78) | 4,6-Dinitro-2-methylph... | 8.880 | 198 | 29293 | 72.1954 | ng | 57 |
| 79) | n-Nitrosodiphenylamine | 8.944 | 169 | 208390 | 93.9788 | ng | 97 |
| 81) | 1,2-Diphenylhydrazine | 8.987 | 77 | 298320 | 117.0329 | ng | 80 |
| 82) | 4-Bromophenyl-phenylether | 9.318 | 248 | 67006 | 115.1649 | ng | 89 |
| 83) | Hexachlorobenzene | 9.393 | 284 | 66170 | 108.2061 | ng | 69 |
| 84) | N-Octadecane | 9.645 | 57 | 222091 | 126.5053 | ng | 88 |
| 85) | Pentachlorophenol | 9.591 | 266 | 46677 | 119.5243 | ng | 96 |
| 86) | Phenanthrene | 9.827 | 178 | 406280 | 111.6203 | ng | 98 |
| 87) | Anthracene | 9.880 | 178 | 413654 | 111.7785 | ng | 99 |
| 88) | Carbazole | 10.051 | 167 | 429868 | 121.5774 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.420 | 149 | 489080 | 114.9320 | ng | 97 |
| 90) | Fluoranthene | 11.158 | 202 | 410713 | 114.8603 | ng | 94 |
| 92) | Pyrene | 11.420 | 202 | 401123 | 110.8625 | ng | 93 |
| 97) | Butylbenzylphthalate | 12.180 | 149 | 211461 | 117.8818 | ng | 73 |
| 99) | 3,3'-Dichlorobenzidine | 12.811 | 252 | 3438 | 2.9362 | ng | 92 |
| 100) | Benzo[a]anthracene | 12.838 | 228 | 310463 | 102.6532 | ng | 99 |
| 101) | Chrysene | 12.881 | 228 | 342283 | 112.9420 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.870 | 149 | 292971 | 124.1510 | ng | 90 |
| 104) | Di-n-octylphthalate | 13.613 | 149 | 506294 | 123.5363 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.052 | 252 | 341154 | 123.2372 | ng | 96 |
| 106) | Benzo[k]fluoranthene | 14.084 | 252 | 305891 | 112.1671 | ng | 95 |
| 107) | Benzo[a]pyrene | 14.416 | 252 | 292972 | 114.8853 | ng | 96 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.828 | 276 | 333942 | 117.7173 | ng | 97 |
| 109) | Dibenzo[a,h]anthracene | 15.844 | 278 | 280652 | 115.4169 | ng | 95 |
| 110) | Benzo[g,h,i]perylene | 16.213 | 276 | 274598 | 114.3478 | ng | 89 |

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


Abundance
TIC: 10M87402.D\data.ms
Quant QT Reviewed
SampleID : AD26083-044(MSD:AD2
Data File: 10M87402.D
Acq On : 09/20/21 23:51
Operator : AH/JB
Sam Mult : 1 Vial# : 28
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:17
Qt Upd On: 09/20/21 12:55
Time-->
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d6,S
Phenol,T
Aniline,T
Bis(2-chloroethyl)ether,P
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
1-Methylnaphthalene,L
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Acenaphthylene,M
Acenaphthene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
Fluorene-d10,I
Terphenyl-d14,S
Butylbenzylphthalate,P
3,3'-Dichlorobenzidine,P
Benzo[a]anthracene,P
Chrysene-d12,I
Bis(2-ethylhexyl)phthalate,P
Di-n-octylphthalate,P
Benzo[b]fluoranthene,P
Benzo[k]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Dibenz[a,h]anthracene,P
Benzo[g,h,i]perylene,P

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-046
Client Id: LTMW-23-20210916 U
Data File: 10M87397.D
Analysis Date: 09/20/21 22:01
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00053 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.011 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.011 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Quantitation Report (QT Reviewed)

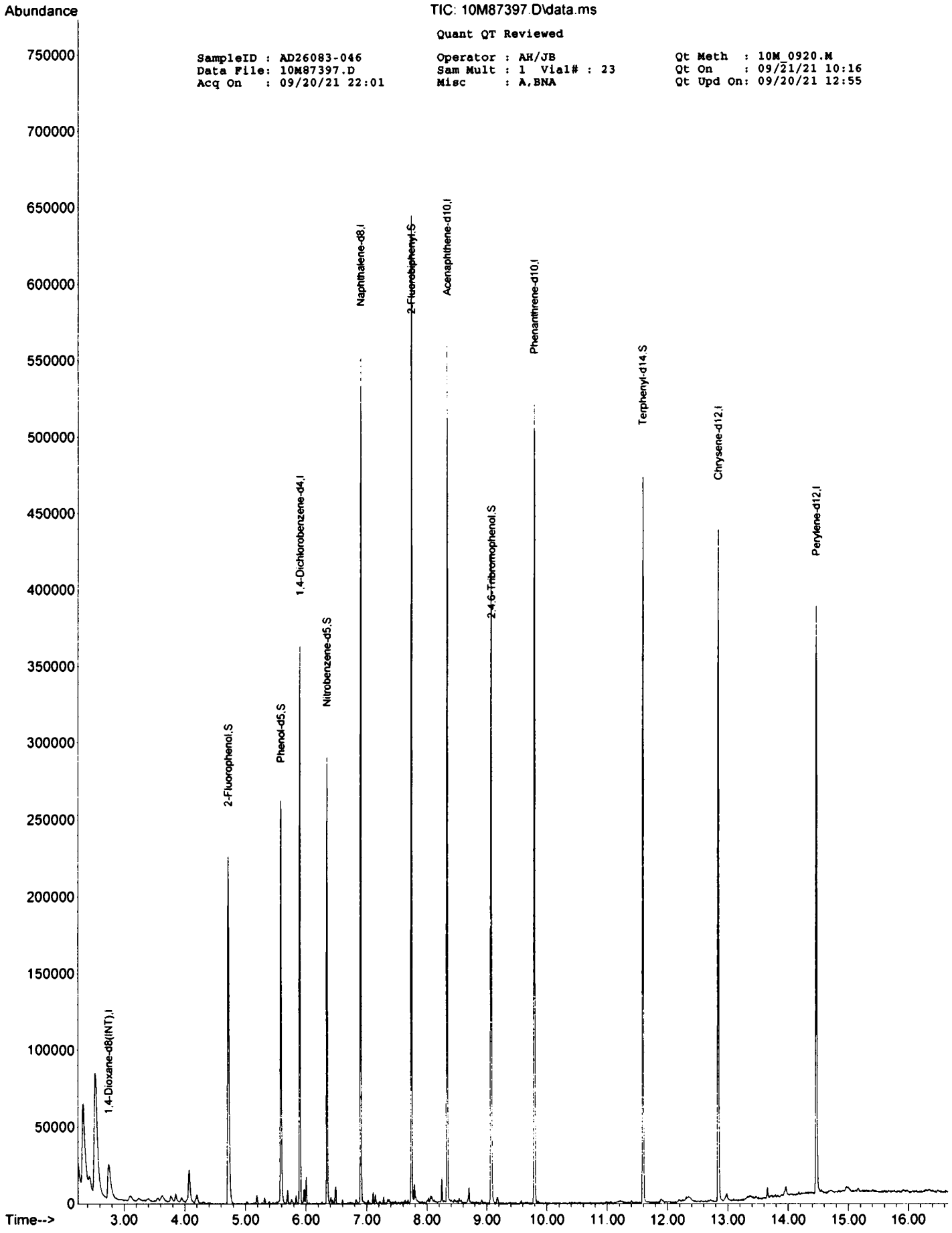
SampleID : AD26083-046 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87397.D Sam Mult : 1 Vial# : 23 Qt On : 09/21/21 10:16
Acq On : 09/20/21 22:01 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 30077 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 58907 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.901 | 136 | 239873 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 114912 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.795 | 188 | 200869 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 147231 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 151314 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 105325 | 64.17 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 64.17% | | | |
| 16) Phenol-d5 | 5.591 | 99 | 100104 | 50.15 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.15% | | | |
| 32) Nitrobenzene-d5 | 6.345 | 128 | 42473 | 51.45 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 102.90% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 196635 | 54.01 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 108.02% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 43496 | 109.50 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 109.50% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 148123 | 64.58 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 129.16% | | | |

Target Compounds Qvalue

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


Abundance
TIC: 10M87397.D\data.ms
Quant QT Reviewed
SampleID : AD26083-046
Data File: 10M87397.D
Acq On : 09/20/21 22:01
Operator : AH/JB
Sam Mult : 1 Vial# : 23
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-048
Client Id: LTMW-19-20210916
Data File: 10M87398.D
Analysis Date: 09/20/21 22:23
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| 123-91-1 | 1,4-Dioxane | 0.00052 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00052 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00052 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00057 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00070 | U |
| 95-48-7 | 2-Methylphenol | 0.00052 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00052 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | U | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00052 | U | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00052 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00066 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0021 | U | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

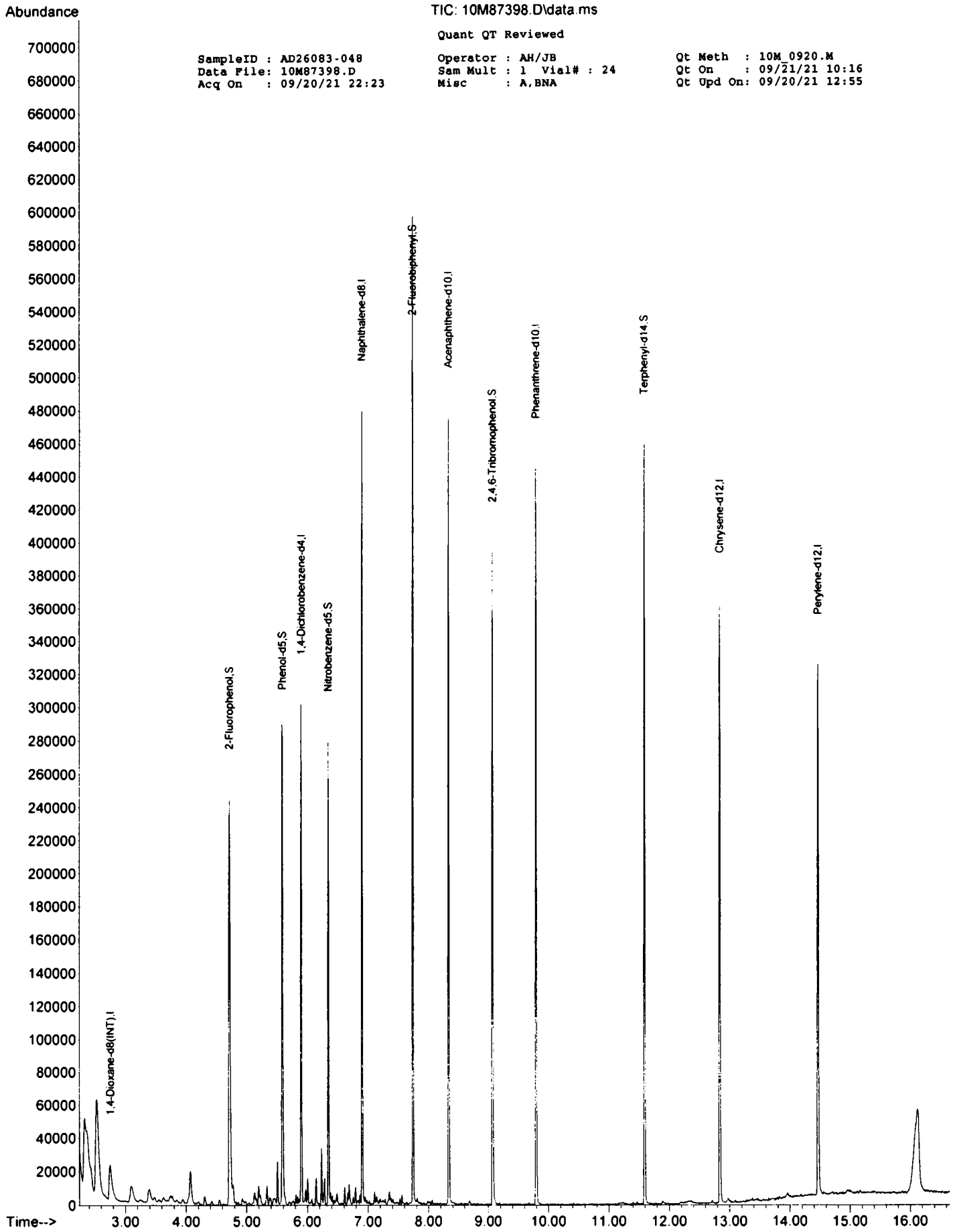
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : AD26083-048 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87398.D Sam Mult : 1 Vial# : 24 Qt On : 09/21/21 10:16
Acq On : 09/20/21 22:23 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.750 | 96 | 26297 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 50912 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.901 | 136 | 204089 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 97295 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.794 | 188 | 172940 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 127101 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 129936 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 117683 | 82.00 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 82.00% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 113588 | 65.08 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 65.08% | | | |
| 32) Nitrobenzene-d5 | 6.345 | 128 | 39792 | 56.66 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 113.32% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 182674 | 59.26 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 118.52% | | | |
| 80) 2,4,6-Tribromophenol | 9.072 | 330 | 39997 | 116.10 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 116.10% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 136510 | 68.94 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 137.88% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87398.D\data.ms
Quant QT Reviewed
SampleID : AD26083-048
Data File: 10M87398.D
Acq On : 09/20/21 22:23
Operator : AH/JB
Sam Mult : 1 Vial# : 24
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-049(MS:AD26
Client Id: LTMW-19-20210916MS
Data File: 10M87399.D
Analysis Date: 09/20/21 22:45
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | 0.061 | 50-32-8 | Benzo[a]pyrene | 0.0021 | 0.064 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen | 0.0021 | 0.059 | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | 0.068 |
| 123-91-1 | 1,4-Dioxane | 0.00052 | 0.041 | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | 0.062 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | 0.059 | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | 0.067 |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | 0.067 | 111-91-1 | bis(2-Chloroethoxy)metha | 0.0021 | 0.057 |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | 0.066 | 111-44-4 | bis(2-Chloroethyl)ether | 0.00052 | 0.053 |
| 120-83-2 | 2,4-Dichlorophenol | 0.00052 | 0.059 | 108-60-1 | bis(2-chloroisopropyl)ethe | 0.0021 | 0.047 |
| 105-67-9 | 2,4-Dimethylphenol | 0.00057 | 0.061 | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | 0.068 |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | 0.011 | 85-68-7 | Butylbenzylphthalate | 0.0021 | 0.065 |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | 0.058 | 105-60-2 | Caprolactam | 0.0021 | 0.035 |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | 0.062 | 86-74-8 | Carbazole | 0.0021 | 0.068 |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | 0.057 | 218-01-9 | Chrysene | 0.0021 | 0.063 |
| 95-57-8 | 2-Chlorophenol | 0.0021 | 0.052 | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | 0.063 |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | 0.057 | 132-64-9 | Dibenzofuran | 0.00070 | 0.061 |
| 95-48-7 | 2-Methylphenol | 0.00052 | 0.050 | 84-66-2 | Diethylphthalate | 0.0021 | 0.060 |
| 88-74-4 | 2-Nitroaniline | 0.0021 | 0.070 | 131-11-3 | Dimethylphthalate | 0.0021 | 0.061 |
| 88-75-5 | 2-Nitrophenol | 0.0021 | 0.058 | 84-74-2 | Di-n-butylphthalate | 0.0011 | 0.063 |
| 106-44-5 | 3&4-Methylphenol | 0.00052 | 0.051 | 117-84-0 | Di-n-octylphthalate | 0.0021 | 0.067 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | 0.053 | 206-44-0 | Fluoranthene | 0.0021 | 0.063 |
| 99-09-2 | 3-Nitroaniline | 0.0021 | 0.085 | 86-73-7 | Fluorene | 0.0021 | 0.058 |
| 534-52-1 | 4,6-Dinitro-2-methylpheno | 0.010 | 0.027 | 118-74-1 | Hexachlorobenzene | 0.0021 | 0.059 |
| 101-55-3 | 4-Bromophenyl-phenyleth | 0.0021 | 0.061 | 87-68-3 | Hexachlorobutadiene | 0.0021 | 0.051 |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | 0.063 | 77-47-4 | Hexachlorocyclopentadie | 0.0021 | 0.049 |
| 106-47-8 | 4-Chloroaniline | 0.00052 | 0.083 | 67-72-1 | Hexachloroethane | 0.0021 | 0.049 |
| 7005-72-3 | 4-Chlorophenyl-phenyleth | 0.0021 | 0.059 | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | 0.064 |
| 100-01-6 | 4-Nitroaniline | 0.0021 | 0.077 | 78-59-1 | Isophorone | 0.0021 | 0.055 |
| 100-02-7 | 4-Nitrophenol | 0.0021 | 0.030 | 91-20-3 | Naphthalene | 0.00052 | 0.050 |
| 83-32-9 | Acenaphthene | 0.0021 | 0.057 | 98-95-3 | Nitrobenzene | 0.0021 | 0.057 |
| 208-96-8 | Acenaphthylene | 0.0021 | 0.059 | 621-64-7 | N-Nitroso-di-n-propylamin | 0.00066 | 0.057 |
| 98-86-2 | Acetophenone | 0.0021 | 0.061 | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | 0.051 |
| 120-12-7 | Anthracene | 0.0021 | 0.061 | 87-86-5 | Pentachlorophenol | 0.010 | 0.065 |
| 1912-24-9 | Atrazine | 0.0021 | 0.036 | 85-01-8 | Phenanthrene | 0.0021 | 0.062 |
| 100-52-7 | Benzaldehyde | 0.0021 | 0.033 | 108-95-2 | Phenol | 0.0021 | 0.031 |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | 0.058 | 129-00-0 | Pyrene | 0.0021 | 0.061 |

Worksheet #: 611546 *Total Target Concentration* 3.9 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Quantitation Report (QT Reviewed)

SampleID : AD26083-049(MS:AD26 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87399.D Sam Mult : 1 Vial# : 25 Qt On : 09/21/21 10:16
Acq On : 09/20/21 22:45 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.750 | 96 | 27441 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 52864 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 213674 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 101920 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.795 | 188 | 177516 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.849 | 240 | 131917 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 136453 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 49548 | 33.09 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 33.09% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 49274 | 27.05 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 27.05% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 22642 | 30.79 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 61.58% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 96992 | 30.04 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 60.08% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 21020 | 63.13 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 63.13% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 69972 | 34.05 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 68.10% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.788 | 88 | 25202 | 39.3052 | ng | 69 |
| 9) Pyridine | 3.264 | 79 | 58924 | 48.1104 | ng | 80 |
| 10) N-Nitrosodimethylamine | 3.194 | 74 | 40512 | 42.5517 | ng | 80 |
| 12) Benzaldehyde | 5.532 | 77 | 42499 | 32.0944 | ng | 70 |
| 13) Aniline | 5.623 | 93 | 159783 | 67.4810 | ng | 49 |
| 14) Pentachloroethane | 5.665 | 117 | 25059 | 45.3628 | ng | 83 |
| 15) bis(2-Chloroethyl)ether | 5.676 | 93 | 84221 | 51.1899 | ng | 84 |
| 17) Phenol | 5.601 | 94 | 65926 | 30.3475 | ng | 82 |
| 18) 2-Chlorophenol | 5.724 | 128 | 85110 | 50.4270 | ng | 80 |
| 19) N-Decane | 5.762 | 57 | 86608 | 44.8895 | ng | 90 |
| 20) 1,3-Dichlorobenzene | 5.853 | 146 | 85426 | 45.1801 | ng | 96 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 90271 | 48.3422 | ng | 98 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 84119 | 47.3923 | ng | 97 |
| 24) Benzyl alcohol | 6.013 | 108 | 62695 | 60.4569 | ng | 68 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 117688 | 45.2242 | ng | 93 |
| 26) 2-Methylphenol | 6.104 | 108 | 72462 | 48.1925 | ng | 96 |
| 27) Acetophenone | 6.227 | 105 | 123401 | 58.9389 | ng | 71 |
| 28) Hexachloroethane | 6.313 | 117 | 31750 | 47.2661 | ng | 84 |
| 29) N-Nitroso-di-n-propyla... | 6.222 | 70 | 56783 | 55.0150 | ng | 83 |
| 30) 3&4-Methylphenol | 6.222 | 108 | 72336 | 49.3217 | ng | 92 |
| 33) Nitrobenzene | 6.361 | 77 | 85216 | 55.4605 | ng | 79 |
| 34) Isophorone | 6.548 | 82 | 150417 | 52.8885 | ng | 81 |
| 35) 2-Nitrophenol | 6.612 | 139 | 48070 | 55.9432 | ng | 79 |
| 36) 2,4-Dimethylphenol | 6.633 | 107 | 84186 | 58.8255 | ng | 90 |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 100397 | 55.7085 | ng | 97 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 74132 | 57.5514 | ng | 86 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 68779 | 51.3250 | ng | 97 |
| 41) Naphthalene | 6.922 | 128 | 242876 | 48.7658 | ng | 99 |
| 42) 4-Chloroaniline | 6.954 | 127 | 150185m | 80.8056 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 31249 | 49.2396 | ng | 96 |
| 44) Caprolactam | 7.222 | 113 | 16031 | 33.4894 | ng | 68 |
| 45) 4-Chloro-3-methylphenol | 7.318 | 107 | 78886 | 60.8616 | ng | 78 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 181648 | 54.9868 | ng | 99 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 193580 | 61.7733 | ng | 96 |
| 49) 1,1'-Biphenyl | 7.832 | 154 | 220528 | 59.1621 | ng | 93 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 66724 | 56.8750 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.575 | 237 | 23554 | 47.3779 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.676 | 196 | 50755 | 64.2983 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.709 | 196 | 54892 | 64.6421 | ng | 95 |
| 56) 2-Chloronaphthalene | 7.853 | 162 | 155963 | 55.4463 | ng | 92 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 131217 | 59.3297 | ng | 86 |
| 59) Diphenyl Ether | 7.912 | 170 | 116404 | 58.4491 | ng | 79 |
| 60) 2-Nitroaniline | 7.933 | 65 | 62249 | 68.0774 | ng | 43 |
| 61) Coumarin | 8.120 | 146 | 73100 | 67.4617 | ng | 88 |
| 62) Acenaphthylene | 8.211 | 152 | 248953 | 57.6108 | ng | 99 |
| 63) Dimethylphthalate | 8.072 | 163 | 179313 | 58.7189 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.131 | 165 | 40404 | 59.9903 | ng | 64 |
| 65) Acenaphthene | 8.366 | 153 | 158299 | 55.7222 | ng | 98 |
| 66) 3-Nitroaniline | 8.286 | 138 | 69628 | 82.3084 | ng | 70 |
| 67) 2,4-Dinitrophenol | 8.377 | 184 | 3477 | 10.8250 | ng | 52 |
| 68) Dibenzofuran | 8.522 | 168 | 241744 | 59.4109 | ng | 83 |

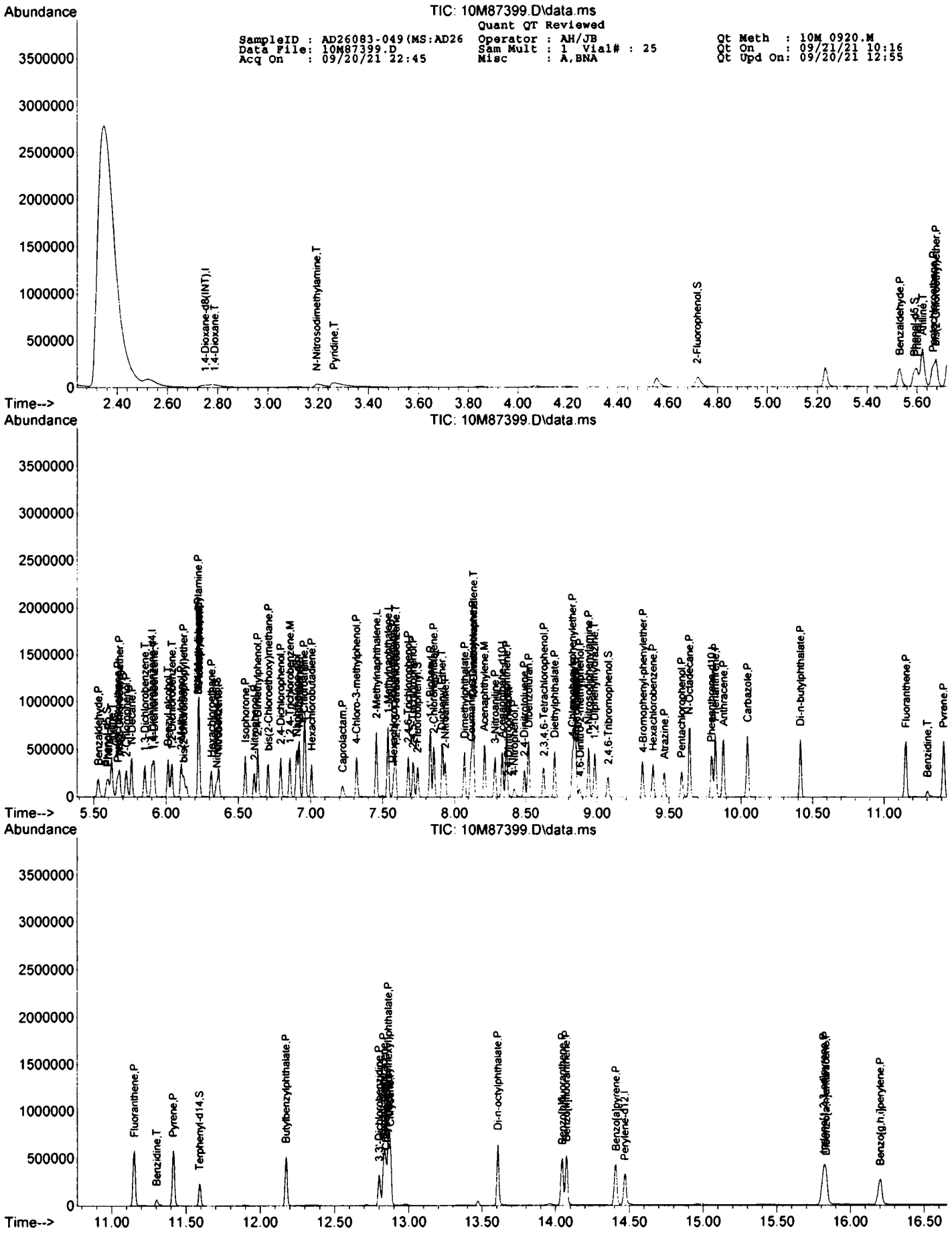
Quantitation Report (QT Reviewed)

SampleID : AD26083-049(MS:AD26 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87399.D Sam Mult : 1 Vial# : 25 Qt On : 09/21/21 10:16
Acq On : 09/20/21 22:45 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 69) | 2,4-Dinitrotoluene | 8.489 | 165 | 52933 | 56.2580 | ng | 63 |
| 70) | 4-Nitrophenol | 8.420 | 65 | 15162 | 29.1554 | ng | 95 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.629 | 232 | 36913 | 57.5579 | ng | 88 |
| 72) | Fluorene | 8.842 | 166 | 181510 | 56.5904 | ng | 98 |
| 73) | 4-Chlorophenyl-phenyle... | 8.826 | 204 | 79158 | 57.3141 | ng | 89 |
| 74) | Diethylphthalate | 8.703 | 149 | 176134 | 58.3407 | ng | 95 |
| 75) | 4-Nitroaniline | 8.853 | 138 | 69453 | 74.2976 | ng | 66 |
| 76) | Atrazine | 9.468 | 200 | 27650 | 35.1254 | ng | 95 |
| 78) | 4,6-Dinitro-2-methylph... | 8.880 | 198 | 11983 | 26.1610 | ng | 56 |
| 79) | n-Nitrosodiphenylamine | 8.939 | 169 | 134024 | 49.7037 | ng | 95 |
| 81) | 1,2-Diphenylhydrazine | 8.982 | 77 | 180332 | 58.1770 | ng | 84 |
| 82) | 4-Bromophenyl-phenylether | 9.318 | 248 | 41790 | 59.0652 | ng | 87 |
| 83) | Hexachlorobenzene | 9.388 | 284 | 42528 | 57.1898 | ng | 71 |
| 84) | N-Octadecane | 9.639 | 57 | 144968 | 67.9052 | ng | 91 |
| 85) | Pentachlorophenol | 9.586 | 266 | 27681 | 62.9987 | ng | 95 |
| 86) | Phenanthrene | 9.821 | 178 | 265437 | 59.9697 | ng | 99 |
| 87) | Anthracene | 9.880 | 178 | 266814 | 59.2901 | ng | 99 |
| 88) | Carbazole | 10.046 | 167 | 281770 | 65.5338 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.415 | 149 | 312724 | 61.1150 | ng | 96 |
| 90) | Fluoranthene | 11.153 | 202 | 265386 | 61.0326 | ng | 96 |
| 92) | Pyrene | 11.415 | 202 | 259877 | 58.8218 | ng | 94 |
| 93) | Benzidine | 11.303 | 184 | 31449 | 11.8178 | ng | 86 |
| 97) | Butylbenzylphthalate | 12.175 | 149 | 133803 | 63.4194 | ng | 73 |
| 99) | 3,3'-Dichlorobenzidine | 12.800 | 252 | 73081 | 50.9457 | ng | 98 |
| 100) | Benzo[a]anthracene | 12.833 | 228 | 208201 | 56.3780 | ng | 100 |
| 101) | Chrysene | 12.875 | 228 | 226294 | 61.1515 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.865 | 149 | 189549 | 65.7826 | ng | 92 |
| 104) | Di-n-octylphthalate | 13.608 | 149 | 320987 | 64.9254 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 14.047 | 252 | 224741 | 66.0933 | ng | 97 |
| 106) | Benzo[k]fluoranthene | 14.073 | 252 | 216714m | 64.6948 | ng | |
| 107) | Benzo[a]pyrene | 14.410 | 252 | 193419 | 61.7478 | ng | 94 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.817 | 276 | 216758 | 62.2055 | ng | 98 |
| 109) | Dibenzo[a,h]anthracene | 15.833 | 278 | 183155 | 61.3203 | ng | 97 |
| 110) | Benzo[g,h,i]perylene | 16.202 | 276 | 178127 | 60.3871 | ng | 87 |

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


Abundance
TIC: 10M87399.D\data.ms
Quant QT Reviewed
SampleID : AD26083-049(MS:AD26
Data File: 10M87399.D
Acq On : 09/20/21 22:45
Operator : AH/JB
Sam Mult : 1 Vial# : 25
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-050(MSD:AD
Client Id: LTMW-19-20210916MSD
Data File: 10M87400.D
Analysis Date: 09/20/21 23:07
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | 0.099 | 50-32-8 | Benzo[a]pyrene | 0.0021 | 0.10 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzen | 0.0021 | 0.098 | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | 0.10 |
| 123-91-1 | 1,4-Dioxane | 0.00052 | 0.060 | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | 0.097 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | 0.094 | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | 0.10 |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | 0.10 | 111-91-1 | bis(2-Chloroethoxy)metha | 0.0021 | 0.091 |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | 0.10 | 111-44-4 | bis(2-Chloroethyl)ether | 0.00052 | 0.083 |
| 120-83-2 | 2,4-Dichlorophenol | 0.00052 | 0.089 | 108-60-1 | bis(2-chloroisopropyl)ethe | 0.0021 | 0.076 |
| 105-67-9 | 2,4-Dimethylphenol | 0.00057 | 0.092 | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | 0.11 |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | 0.052 | 85-68-7 | Butylbenzylphthalate | 0.0021 | 0.10 |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | 0.092 | 105-60-2 | Caprolactam | 0.0021 | 0.045 |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | 0.096 | 86-74-8 | Carbazole | 0.0021 | 0.11 |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | 0.092 | 218-01-9 | Chrysene | 0.0021 | 0.098 |
| 95-57-8 | 2-Chlorophenol | 0.0021 | 0.080 | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | 0.10 |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | 0.095 | 132-64-9 | Dibenzofuran | 0.00070 | 0.10 |
| 95-48-7 | 2-Methylphenol | 0.00052 | 0.075 | 84-66-2 | Diethylphthalate | 0.0021 | 0.095 |
| 88-74-4 | 2-Nitroaniline | 0.0021 | 0.11 | 131-11-3 | Dimethylphthalate | 0.0021 | 0.095 |
| 88-75-5 | 2-Nitrophenol | 0.0021 | 0.093 | 84-74-2 | Di-n-butylphthalate | 0.0011 | 0.098 |
| 106-44-5 | 3&4-Methylphenol | 0.00052 | 0.073 | 117-84-0 | Di-n-octylphthalate | 0.0021 | 0.10 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | 0.074 | 206-44-0 | Fluoranthene | 0.0021 | 0.099 |
| 99-09-2 | 3-Nitroaniline | 0.0021 | 0.11 | 86-73-7 | Fluorene | 0.0021 | 0.093 |
| 534-52-1 | 4,6-Dinitro-2-methylpheno | 0.010 | 0.070 | 118-74-1 | Hexachlorobenzene | 0.0021 | 0.094 |
| 101-55-3 | 4-Bromophenyl-phenyleth | 0.0021 | 0.098 | 87-68-3 | Hexachlorobutadiene | 0.0021 | 0.085 |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | 0.094 | 77-47-4 | Hexachlorocyclopentadie | 0.0021 | 0.087 |
| 106-47-8 | 4-Chloroaniline | 0.00052 | 0.10 | 67-72-1 | Hexachloroethane | 0.0021 | 0.082 |
| 7005-72-3 | 4-Chlorophenyl-phenyleth | 0.0021 | 0.097 | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | 0.10 |
| 100-01-6 | 4-Nitroaniline | 0.0021 | 0.10 | 78-59-1 | Isophorone | 0.0021 | 0.086 |
| 100-02-7 | 4-Nitrophenol | 0.0021 | 0.046 | 91-20-3 | Naphthalene | 0.00052 | 0.087 |
| 83-32-9 | Acenaphthene | 0.0021 | 0.093 | 98-95-3 | Nitrobenzene | 0.0021 | 0.089 |
| 208-96-8 | Acenaphthylene | 0.0021 | 0.094 | 621-64-7 | N-Nitroso-di-n-propylamin | 0.00066 | 0.088 |
| 98-86-2 | Acetophenone | 0.0021 | 0.096 | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | 0.081 |
| 120-12-7 | Anthracene | 0.0021 | 0.097 | 87-86-5 | Pentachlorophenol | 0.010 | 0.11 |
| 1912-24-9 | Atrazine | 0.0021 | 0.078 | 85-01-8 | Phenanthrene | 0.0021 | 0.097 |
| 100-52-7 | Benzaldehyde | 0.0021 | 0.052 | 108-95-2 | Phenol | 0.0021 | 0.045 |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | 0.090 | 129-00-0 | Pyrene | 0.0021 | 0.097 |

Worksheet #: 611546 *Total Target Concentration* 6.1 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Quantitation Report (QT Reviewed)

SampleID : AD26083-050(MSD:AD2 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87400.D Sam Mult : 1 Vial# : 26 Qt On : 09/21/21 10:16
Acq On : 09/20/21 23:07 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 26692 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 51388 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 209385 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 99786 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 173540 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.849 | 240 | 128095 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.475 | 264 | 132998 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 77239 | 53.02 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.02% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 72638 | 41.00 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 41.00% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 37206 | 51.64 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 103.28% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 162711 | 51.47 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 102.94% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 34492 | 101.42 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 101.42% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 111855 | 56.05 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 112.10% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.788 | 88 | 36554 | 58.6097 | ng | 65 |
| 9) Pyridine | 3.258 | 79 | 81833 | 66.8678 | ng | 82 |
| 10) N-Nitrosodimethylamine | 3.194 | 74 | 53391 | 57.6528 | ng | 83 |
| 12) Benzaldehyde | 5.532 | 77 | 65149 | 50.5797 | ng | 70 |
| 13) Aniline | 5.623 | 93 | 199699 | 86.7053 | ng | 51 |
| 14) Pentachloroethane | 5.665 | 117 | 43294 | 80.5717 | ng | 84 |
| 15) bis(2-Chloroethyl)ether | 5.676 | 93 | 128353 | 80.2026 | ng | 84 |
| 17) Phenol | 5.601 | 94 | 92132 | 43.6009 | ng | 82 |
| 18) 2-Chlorophenol | 5.724 | 128 | 127403 | 77.6034 | ng | 80 |
| 19) N-Decane | 5.762 | 57 | 151721 | 80.8447 | ng | 91 |
| 20) 1,3-Dichlorobenzene | 5.853 | 146 | 139064 | 75.6120 | ng | 95 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 147237 | 81.1136 | ng | 96 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 136301 | 78.9970 | ng | 97 |
| 24) Benzyl alcohol | 6.013 | 108 | 87729 | 87.0271 | ng | 67 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 185839 | 73.4639 | ng | 92 |
| 26) 2-Methylphenol | 6.104 | 108 | 105630 | 72.2694 | ng | 96 |
| 27) Acetophenone | 6.227 | 105 | 189096 | 92.9103 | ng | 72 |
| 28) Hexachloroethane | 6.313 | 117 | 51705 | 79.1840 | ng | 83 |
| 29) N-Nitroso-di-n-propyla... | 6.227 | 70 | 86054 | 85.7693 | ng | 78 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 100863 | 70.7480 | ng | 86 |
| 33) Nitrobenzene | 6.366 | 77 | 130405 | 86.6091 | ng | 72 |
| 34) Isophorone | 6.548 | 82 | 233082 | 83.6333 | ng | 82 |
| 35) 2-Nitrophenol | 6.612 | 139 | 76077 | 90.3510 | ng | 80 |
| 36) 2,4-Dimethylphenol | 6.633 | 107 | 125631 | 89.5837 | ng | 90 |
| 37) Benzoic Acid | 6.698 | 105 | 42776 | 49.5742 | ng | 81 |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 155391 | 87.9898 | ng | 96 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 110459 | 86.7391 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 110687 | 84.2899 | ng | 97 |
| 41) Naphthalene | 6.922 | 128 | 409813 | 83.9696 | ng | 99 |
| 42) 4-Chloroaniline | 6.960 | 127 | 184923m | 101.5341 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 51350 | 82.5706 | ng | 96 |
| 44) Caprolactam | 7.238 | 113 | 20571 | 43.1791 | ng | 68 |
| 45) 4-Chloro-3-methylphenol | 7.318 | 107 | 115424 | 90.8752 | ng | 79 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 297483 | 91.8959 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 316168 | 102.9591 | ng | 96 |
| 49) 1,1'-Biphenyl | 7.832 | 154 | 352154 | 96.4092 | ng | 95 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 108670 | 94.6103 | ng | 99 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 42682 | 84.0021 | ng | 97 |
| 53) 2,4,6-Trichlorophenol | 7.676 | 196 | 77534 | 100.3236 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.714 | 196 | 83546 | 100.4897 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.858 | 162 | 245597 | 89.1793 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 207469 | 95.8132 | ng | 89 |
| 59) Diphenyl Ether | 7.917 | 170 | 190769 | 97.8380 | ng | 72 |
| 60) 2-Nitroaniline | 7.933 | 65 | 96176 | 107.4304 | ng | 50 |
| 61) Coumarin | 8.120 | 146 | 110933 | 104.5660 | ng | 87 |
| 62) Acenaphthylene | 8.217 | 152 | 387232 | 91.5266 | ng | 100 |
| 63) Dimethylphthalate | 8.072 | 163 | 276331 | 92.4242 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.136 | 165 | 61103 | 92.6636 | ng | 60 |
| 65) Acenaphthene | 8.366 | 153 | 249687 | 89.7710 | ng | 98 |
| 66) 3-Nitroaniline | 8.286 | 138 | 87581 | 105.7451 | ng | 72 |
| 67) 2,4-Dinitrophenol | 8.377 | 184 | 17522 | 50.8869 | ng | 45 |

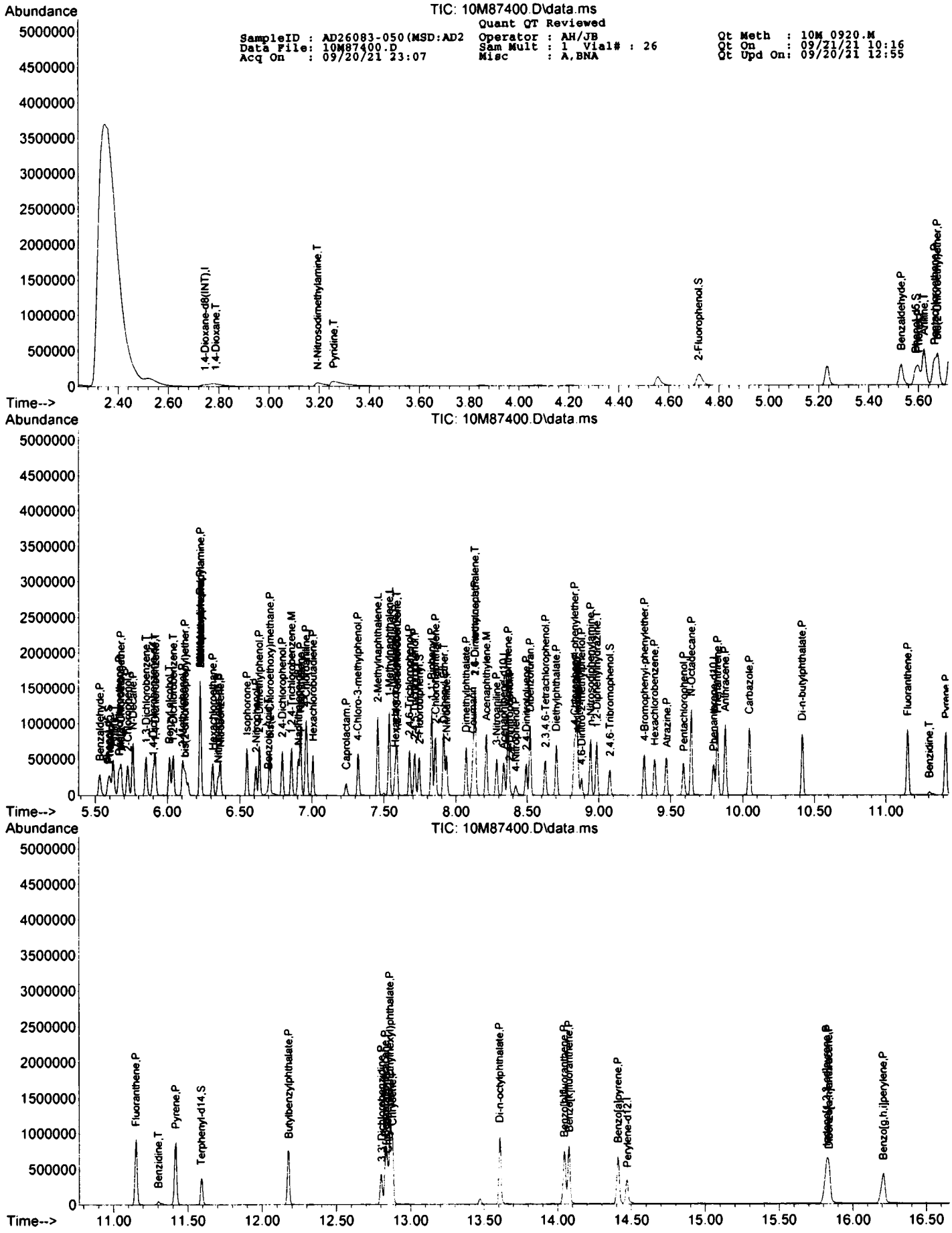
Quantitation Report (QT Reviewed)

SampleID : AD26083-050(MSD:AD2 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87400.D Sam Mult : 1 Vial# : 26 Qt On : 09/21/21 10:16
Acq On : 09/20/21 23:07 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 68) Dibenzofuran | 8.521 | 168 | 386269 | 96.9594 | ng | 84 |
| 69) 2,4-Dinitrotoluene | 8.495 | 165 | 84299 | 89.3293 | ng | 58 |
| 70) 4-Nitrophenol | 8.420 | 65 | 23172 | 44.8987 | ng | 88 |
| 71) 2,3,4,6-Tetrachlorophenol | 8.628 | 232 | 57076 | 90.9011 | ng | 88 |
| 72) Fluorene | 8.842 | 166 | 283049 | 90.1351 | ng | 98 |
| 73) 4-Chlorophenyl-phenyle... | 8.832 | 204 | 127779 | 94.4966 | ng | 85 |
| 74) Diethylphthalate | 8.703 | 149 | 271360 | 91.8045 | ng | 97 |
| 75) 4-Nitroaniline | 8.853 | 138 | 93568 | 100.4627 | ng | 68 |
| 76) Atrazine | 9.474 | 200 | 58411 | 75.7897 | ng | 97 |
| 78) 4,6-Dinitro-2-methylph... | 8.880 | 198 | 32432 | 67.7100 | ng | 64 |
| 79) n-Nitrosodiphenylamine | 8.944 | 169 | 207124 | 78.5731 | ng | 95 |
| 81) 1,2-Diphenylhydrazine | 8.987 | 77 | 298552 | 98.5227 | ng | 78 |
| 82) 4-Bromophenyl-phenylether | 9.318 | 248 | 65546 | 94.7640 | ng | 91 |
| 83) Hexachlorobenzene | 9.388 | 284 | 66154 | 90.9991 | ng | 75 |
| 84) N-Octadecane | 9.645 | 57 | 224076 | 107.3653 | ng | 90 |
| 85) Pentachlorophenol | 9.591 | 266 | 49034 | 107.3475 | ng | 96 |
| 86) Phenanthrene | 9.827 | 178 | 405317 | 93.6706 | ng | 98 |
| 87) Anthracene | 9.880 | 178 | 413777 | 94.0542 | ng | 99 |
| 88) Carbazole | 10.046 | 167 | 440637 | 104.8309 | ng | 96 |
| 89) Di-n-butylphthalate | 10.415 | 149 | 478907 | 95.0596 | ng | 97 |
| 90) Fluoranthene | 11.153 | 202 | 407819 | 95.9378 | ng | 98 |
| 92) Pyrene | 11.420 | 202 | 403697 | 94.1011 | ng | 92 |
| 93) Benzidine | 11.303 | 184 | 22399 | 8.6682 | ng | 87 |
| 97) Butylbenzylphthalate | 12.180 | 149 | 207112 | 98.6574 | ng | 67 |
| 99) 3,3'-Dichlorobenzidine | 12.806 | 252 | 100423 | 71.9908 | ng | 96 |
| 100) Benzo[a]anthracene | 12.833 | 228 | 312135 | 87.0438 | ng | 99 |
| 101) Chrysene | 12.881 | 228 | 340916 | 94.8746 | ng | 99 |
| 102) bis(2-Ethylhexyl)phtha... | 12.865 | 149 | 292440 | 104.5188 | ng | 92 |
| 104) Di-n-octylphthalate | 13.608 | 149 | 492292 | 101.0265 | ng | 100 |
| 105) Benzo[b]fluoranthene | 14.047 | 252 | 333749m | 100.7009 | ng | |
| 106) Benzo[k]fluoranthene | 14.079 | 252 | 316548m | 96.9528 | ng | |
| 107) Benzo[a]pyrene | 14.410 | 252 | 296002 | 96.9516 | ng | 96 |
| 108) Indeno[1,2,3-cd]pyrene | 15.822 | 276 | 328963 | 96.8587 | ng | 98 |
| 109) Dibenzo[a,h]anthracene | 15.838 | 278 | 283545 | 97.3970 | ng | 97 |
| 110) Benzo[g,h,i]perylene | 16.207 | 276 | 271300 | 94.3631 | ng | 88 |

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


TIC: 10M87400.D\data.ms
Quant QT Reviewed
SampleID : AD26083-050(MSD:AD2
Data File: 10M87400.D
Acq On : 09/20/21 23:07
Operator : AH/JB
Sam Mult : 1 Vial# : 26
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
Abundance
Time-->

# GC/MS Base Neutral/Acid Extractable Data
# Standards Data

1091738 1018

Method: EPA 8270E

# Form 6
## Initial Calibration

Instrument: GCMS_7

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 7M116115.D | CAL BNA@50PPM | 08/23/21 12:37 | 2 | 7M116113.D | CAL BNA@2PPM | 08/23/21 11:50 |
| 3 | 7M116112.D | CAL BNA@10PPM | 08/23/21 11:26 | 4 | 7M116111.D | CAL BNA@20PPM | 08/23/21 11:02 |
| 5 | 7M116110.D | CAL BNA@80PPM | 08/23/21 10:38 | 6 | 7M116109.D | CAL BNA@120PPM | 08/23/21 10:14 |
| 7 | 7M116108.D | CAL BNA@160PPM | 08/23/21 09:50 | 8 | 7M116107.D | CAL BNA@196PPM | 08/23/21 09:26 |
| 9 | 7M116114.D | CAL BNA@0.5PPM | 08/23/21 12:13 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 0 | Qua | 0.9435 | 1.2198 | 1.0770 | 0.9751 | 0.9465 | 0.9161 | 0.9247 | 0.9213 | 1.4592 | 1.04 | 2.76 | 1.00 | 1.00 | 18 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Pyridine | 1 | 0 | Avg | 2.0822 | 1.9767 | 2.2458 | 2.2183 | 2.1892 | 2.0849 | 2.0737 | 1.9128 | ---- | 2.10 | 3.23 | 0.995 | 0.999 | 5.5 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| N-Nitrosodimethylamin | 1 | 0 | Avg | 1.4644 | 1.4170 | 1.6217 | 1.5324 | 1.5241 | 1.4643 | 1.4445 | 1.3986 | ---- | 1.48 | 3.19 | 0.999 | 1.00 | 4.9 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Fluorophenol | 1 | 0 | Avg | 1.9742 | 1.8652 | 2.1493 | 2.1322 | 2.0992 | 2.0134 | 1.9306 | 1.7109 | ---- | 1.98 | 4.73 | 0.994 | 0.999 | 7.5 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzaldehyde | 1 | 0 | Avg | 1.7525 | 1.8354 | 1.9563 | 1.9172 | 1.8206 | 1.7186 | 1.6011 | 1.4113 | ---- | 1.75 | 5.55 | 0.989 | 0.999 | 10 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Aniline | 1 | 0 | Avg | 3.1980 | 3.2676 | 3.6993 | 3.6589 | 3.3054 | 3.0960 | 2.8794 | 2.4866 | 3.5914 | 3.24 | 5.65 | 0.980 | 0.998 | 12 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Pentachloroethane | 1 | 0 | Avg | 0.7455 | 0.8126 | 0.8661 | 0.8377 | 0.7734 | 0.7224 | 0.6779 | 0.5872 | ---- | 0.753 | 5.69 | 0.980 | 0.998 | 12 | 0.05 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| bis(2-Chloroethyl)ether | 1 | 0 | Avg | 2.1159 | 2.4087 | 2.5344 | 2.4472 | 2.1365 | 1.9096 | 1.7924 | 1.5054 | 2.6983 | 2.17 | 5.71 | 0.972 | 0.998 | 18 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Phenol-d5 | 1 | 0 | Avg | 2.2813 | 2.2193 | 2.5689 | 2.5213 | 2.3877 | 2.2231 | 2.0737 | 1.7863 | ---- | 2.26 | 5.60 | 0.978 | 0.998 | 11 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Phenol | 1 | 0 | Avg | 2.8755 | 2.9383 | 3.3735 | 3.2978 | 2.9688 | 2.7138 | 2.5242 | 2.1024 | ---- | 2.85 | 5.61 | 0.968 | 0.997 | 14 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Chlorophenol | 1 | 0 | Avg | 2.1814 | 2.1705 | 2.4938 | 2.4733 | 2.2855 | 2.1435 | 2.0049 | 1.7123 | ---- | 2.18 | 5.75 | 0.986 | 0.998 | 12 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| N-Decane | 1 | 0 | Qua | 1.9463 | 2.3978 | 2.4994 | 2.3128 | 1.9200 | 1.7368 | 1.5365 | 1.3184 | ---- | 1.96 | 5.78 | 0.964 | 0.999 | 22 | 0.05 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,3-Dichlorobenzene | 1 | 0 | Avg | 2.2900 | 2.5477 | 2.7129 | 2.6180 | 2.3643 | 2.1806 | 2.0139 | 1.7010 | ---- | 2.30 | 5.88 | 0.971 | 0.997 | 15 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,4-Dichlorobenzene | 1 | 0 | Avg | 1.4291 | 1.6004 | 1.6449 | 1.5189 | 1.3793 | 1.3033 | 1.2097 | 1.1844 | ---- | 1.41 | 5.94 | 0.995 | 1.00 | 12 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,2-Dichlorobenzene | 1 | 0 | Avg | 1.3689 | 1.5545 | 1.5778 | 1.4537 | 1.3334 | 1.2481 | 1.1640 | 1.1386 | ---- | 1.35 | 6.07 | 0.995 | 1.00 | 12 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzyl alcohol | 1 | 0 | Avg | 0.8637 | 0.8202 | 0.9528 | 0.9178 | 0.8706 | 0.8154 | 0.7878 | 0.7788 | ---- | 0.851 | 6.04 | 0.997 | 1.00 | 7.3 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| bis(2-chloroisopropyl)e | 1 | 0 | Avg | 1.4111 | 1.6453 | 1.7091 | 1.5949 | 1.3511 | 1.2453 | 1.1589 | 1.1492 | ---- | 1.41 | 6.15 | 0.995 | 0.999 | 16 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Methylphenol | 1 | 0 | Avg | 1.1899 | 1.1779 | 1.3535 | 1.2762 | 1.1743 | 1.1224 | 1.0582 | 1.0367 | 1.1934 | 1.18 | 6.12 | 0.997 | 1.00 | 8.4 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Acetophenone | 1 | 0 | Qua | 1.6837 | 2.0416 | 2.1107 | 1.9373 | 1.5424 | 1.3382 | 1.1684 | 1.0954 | ---- | 1.61 | 6.25 | 0.972 | 0.998 | 24 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Hexachloroethane | 1 | 0 | Avg | 0.5528 | 0.5873 | 0.6156 | 0.5780 | 0.5384 | 0.5014 | 0.4831 | 0.4747 | ---- | 0.541 | 6.34 | 0.997 | 1.00 | 9.5 | 0.30 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| N-Nitroso-di-n-propyla | 1 | 0 | Qua | 0.7903 | 0.9380 | 0.9907 | 0.9178 | 0.7399 | 0.6628 | 0.6361 | 0.6324 | 0.9358 | 0.805 | 6.25 | 0.988 | 0.997 | 18 | 0.50 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| 3&4-Methylphenol | 1 | 0 | Qua | 1.1673 | 1.2641 | 1.3636 | 1.3383 | 1.0790 | 0.9440 | 0.8176 | 0.7593 | 1.1844 | 1.10 | 6.25 | 0.968 | 0.999 | 20 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Nitrobenzene-d5 | 1 | 0 | Avg | 0.1472 | 0.1369 | 0.1621 | 0.1563 | 0.1495 | 0.1454 | 0.1442 | 0.1480 | ---- | 0.149 | 6.38 | 0.999 | 1.00 | 5.2 | | 25.00 | 1.00 | 5.00 | 10.00 | 40.00 | 60.00 | 80.00 | 98.00 | |
| Nitrobenzene | 1 | 0 | Avg | 0.3202 | 0.3486 | 0.3791 | 0.3433 | 0.3099 | 0.2865 | 0.2752 | 0.2740 | ---- | 0.317 | 6.39 | 0.997 | 0.999 | 12 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Isophorone | 1 | 0 | Avg | 0.6061 | 0.6540 | 0.7141 | 0.6589 | 0.5826 | 0.5480 | 0.5442 | 0.5625 | ---- | 0.609 | 6.58 | 0.999 | 0.999 | 10 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Nitrophenol | 1 | 0 | Avg | 0.1827 | 0.1544 | 0.1989 | 0.1920 | 0.1889 | 0.1797 | 0.1743 | 0.1739 | ---- | 0.181 | 6.64 | 0.999 | 1.00 | 7.6 | 0.10 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4-Dimethylphenol | 1 | 0 | Avg | 0.3081 | 0.3221 | 0.3656 | 0.3362 | 0.3023 | 0.2787 | 0.2693 | 0.2669 | 0.3015 | 0.306 | 6.66 | 0.997 | 0.999 | 11 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Benzoic Acid | 1 | 0 | Avg | 0.2152 | ---- | 0.1285 | 0.1833 | 0.2337 | 0.2375 | 0.2163 | 0.2070 | ---- | 0.203 | 6.73 | 0.991 | 0.999 | 18 | | 50.00 | | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| bis(2-Chloroethoxy)me | 1 | 0 | Avg | 0.3807 | 0.4333 | 0.4520 | 0.4125 | 0.3543 | 0.3295 | 0.3108 | 0.3121 | ---- | 0.373 | 6.74 | 0.996 | 0.999 | 15 | 0.30 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4-Dichlorophenol | 1 | 0 | Avg | 0.2644 | 0.2418 | 0.2962 | 0.2806 | 0.2648 | 0.2491 | 0.2395 | 0.2361 | 0.1900 | 0.251 | 6.82 | 0.998 | 1.00 | 12 | 0.20 a | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| 1,2,4-Trichlorobenzen | 1 | 0 | Avg | 0.2805 | 0.3132 | 0.3258 | 0.3034 | 0.2772 | 0.2582 | 0.2435 | 0.2338 | ---- | 0.279 | 6.89 | 0.995 | 1.00 | 12 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Naphthalene | 1 | 0 | Avg | 0.9303 | 1.0679 | 1.1204 | 1.0260 | 0.8822 | 0.8008 | 0.7401 | 0.7147 | 1.1638 | 0.939 | 6.95 | 0.991 | 0.999 | 18 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| 4-Chloroaniline | 1 | 0 | Avg | 0.3994 | 0.4139 | 0.4640 | 0.4358 | 0.3918 | 0.3588 | 0.3411 | 0.3360 | 0.3949 | 0.393 | 6.99 | 0.993 | 0.999 | 11 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Hexachlorobutadiene | 1 | 0 | Avg | 0.1457 | 0.1576 | 0.1653 | 0.1555 | 0.1488 | 0.1388 | 0.1338 | 0.1325 | ---- | 0.147 | 7.04 | 0.998 | 1.00 | 8.0 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Caprolactam | 1 | 0 | Avg | 0.1176 | 0.0935 | 0.1234 | 0.1207 | 0.1182 | 0.1206 | 0.1213 | 0.1214 | ---- | 0.117 | 7.28 | 1.00 | 1.00 | 8.3 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Chloro-3-methylphe | 1 | 0 | Avg | 0.2737 | 0.2471 | 0.2987 | 0.2878 | 0.2720 | 0.2562 | 0.2467 | 0.2435 | ---- | 0.266 | 7.36 | 0.998 | 1.00 | 7.7 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Methylnaphthalene | 1 | 0 | Avg | 0.6510 | 0.7338 | 0.7593 | 0.7139 | 0.6223 | 0.5652 | 0.5133 | 0.4937 | ---- | 0.632 | 7.50 | 0.989 | 0.999 | 16 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1-Methylnaphthalene | 1 | 0 | Avg | 0.6070 | 0.6734 | 0.7084 | 0.6542 | 0.5803 | 0.5229 | 0.4813 | 0.4642 | ---- | 0.586 | 7.58 | 0.990 | 0.999 | 15 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Methylnaphthalenes (T | 1 | 0 | Avg | 0.6281 | 0.6988 | 0.7336 | 0.6840 | 0.6012 | 0.5440 | 0.4970 | 0.4788 | ---- | 0.608 | 7.50 | 0.989 | 0.999 | 16 | | 100.0 | 4.00 | 20.00 | 40.00 | 160.0 | 240.0 | 320.0 | 392.0 | |
| 1,1'-Biphenyl | 1 | 0 | Avg | 0.8411 | 0.9377 | 0.9846 | 0.9142 | 0.7930 | 0.7117 | 0.6372 | 0.5969 | ---- | 0.802 | 7.88 | 0.982 | 1.00 | 18 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,2,4,5-Tetrachloroben | 1 | 0 | Avg | 0.5440 | 0.6099 | 0.6630 | 0.5941 | 0.5491 | 0.5058 | 0.4780 | 0.4514 | ---- | 0.549 | 7.63 | 0.993 | 1.00 | 13 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |

| *Flags* | *Note:* Avg Rsd: 11.65 |
|---|---|
| *a - failed the min rf criteria* | *Corr 1 = Correlation Coefficient for linear Eq.* |
| *c - failed the minimum correlation coeff criteria(if applicable)* | *Corr 2 = Correlation Coefficient for quad Eq.* |
| | *Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.* |

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Method: EPA 8270E

# Form 6
## Initial Calibration

Instrument: GCMS_7

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 7M116115.D | CAL BNA@50PPM | 08/23/21 12:37 | 2 | 7M116113.D | CAL BNA@2PPM | 08/23/21 11:50 |
| 3 | 7M116112.D | CAL BNA@10PPM | 08/23/21 11:26 | 4 | 7M116111.D | CAL BNA@20PPM | 08/23/21 11:02 |
| 5 | 7M116110.D | CAL BNA@80PPM | 08/23/21 10:38 | 6 | 7M116109.D | CAL BNA@120PPM | 08/23/21 10:14 |
| 7 | 7M116108.D | CAL BNA@160PPM | 08/23/21 09:50 | 8 | 7M116107.D | CAL BNA@196PPM | 08/23/21 09:26 |
| 9 | 7M116114.D | CAL BNA@0.5PPM | 08/23/21 12:13 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorocyclopenta | 1 | 0 | Avg | 0.3050 | 0.2116 | 0.2988 | 0.3105 | 0.3270 | 0.3162 | 0.3129 | 0.3084 | ---- | 0.299 | 7.62 | 1.00 | 1.00 | 12 | 0.05 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4,6-Trichlorophenol | 1 | 0 | Avg | 0.4074 | 0.3042 | 0.3977 | 0.3922 | 0.4161 | 0.3637 | 0.3628 | 0.3503 | ---- | 0.374 | 7.72 | 0.995 | 0.999 | 9.8 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4,5-Trichlorophenol | 1 | 0 | Avg | 0.3658 | 0.3642 | 0.4384 | 0.4304 | 0.3851 | 0.4000 | 0.3933 | 0.3867 | ---- | 0.396 | 7.76 | 0.999 | 0.999 | 6.8 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Fluorobiphenyl | 1 | 0 | Avg | 1.2545 | 1.3575 | 1.4567 | 1.3366 | 1.2494 | 1.1952 | 1.1654 | 1.1373 | ---- | 1.27 | 7.79 | 0.998 | 1.00 | 8.5 | | 25.00 | 1.00 | 5.00 | 10.00 | 40.00 | 60.00 | 80.00 | 98.00 | |
| 2-Chloronaphthalene | 1 | 0 | Avg | 1.1616 | 1.3155 | 1.4060 | 1.2741 | 1.1228 | 1.0225 | 0.9699 | 0.9181 | ---- | 1.15 | 7.90 | 0.993 | 1.00 | 15 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,4-Dimethylnaphthale | 1 | 0 | Qua | 0.9671 | 1.1827 | 1.2263 | 1.1144 | 0.8819 | 0.7479 | 0.6531 | 0.5939 | ---- | 0.921 | 8.19 | 0.962 | 0.999 | 26 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Dimethylnaphthalenes | 1 | 0 | Qua | 0.9671 | 1.1827 | 1.2263 | 1.1144 | 0.8819 | 0.7479 | 0.6531 | 0.5939 | ---- | 0.921 | 8.19 | 0.960 | 0.998 | 26 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Diphenyl Ether | 1 | 0 | Avg | 0.8278 | 0.9338 | 0.9874 | 0.9063 | 0.8124 | 0.7456 | 0.7181 | 0.6835 | ---- | 0.827 | 7.97 | 0.995 | 1.00 | 13 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Nitroaniline | 1 | 0 | Avg | 0.3842 | 0.3770 | 0.4512 | 0.4081 | 0.3735 | 0.3463 | 0.3410 | 0.3358 | ---- | 0.377 | 7.99 | 0.998 | 1.00 | 10 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Coumarin | 1 | 0 | Qua | 0.5282 | 0.6025 | 0.6463 | 0.5893 | 0.4945 | 0.4144 | 0.3486 | 0.3161 | ---- | 0.493 | 8.18 | 0.950 | 0.998 | 25 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Acenaphthylene | 1 | 0 | Avg | 1.8333 | 2.0665 | 2.2353 | 2.0281 | 1.7597 | 1.5980 | 1.4938 | 1.4095 | ---- | 1.80 | 8.27 | 0.988 | 0.999 | 16 | 0.90 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Dimethylphthalate | 1 | 0 | Avg | 1.3134 | 1.4263 | 1.5511 | 1.4242 | 1.2765 | 1.1797 | 1.1492 | 1.1185 | ---- | 1.30 | 8.13 | 0.997 | 1.00 | 12 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,6-Dinitrotoluene | 1 | 0 | Avg | 0.2920 | 0.3098 | 0.3553 | 0.3249 | 0.2704 | 0.2357 | 0.2169 | 0.2114 | ---- | 0.277 | 8.19 | 0.987 | 0.998 | 19 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Acenaphthene | 1 | 0 | Avg | 1.1305 | 1.3105 | 1.3673 | 1.2435 | 1.0948 | 0.9862 | 0.9372 | 0.8881 | ---- | 1.12 | 8.43 | 0.992 | 1.00 | 16 | 0.90 a | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 3-Nitroaniline | 1 | 0 | Avg | 0.3775 | 0.3613 | 0.4308 | 0.4054 | 0.3759 | 0.3565 | 0.3524 | 0.3484 | ---- | 0.376 | 8.35 | 0.999 | 1.00 | 7.6 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4-Dinitrophenol | 1 | 0 | Qua | 0.1526 | ---- | 0.1012 | 0.1335 | 0.1812 | 0.1846 | 0.1884 | 0.1911 | ---- | 0.162 | 8.44 | 0.999 | 0.999 | 21 | 0.20 a | 50.00 | | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Dibenzofuran | 1 | 0 | Avg | 1.6252 | 1.9029 | 1.9528 | 1.8113 | 1.5753 | 1.4309 | 1.3463 | 1.2651 | 2.0406 | 1.66 | 8.59 | 0.991 | 1.00 | 17 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| 2,4-Dinitrotoluene | 1 | 0 | Avg | 0.4250 | 0.3549 | 0.4518 | 0.4492 | 0.4345 | 0.4172 | 0.4110 | 0.4028 | ---- | 0.418 | 8.56 | 0.999 | 1.00 | 7.4 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Nitrophenol | 1 | 0 | Avg | 0.2365 | 0.1450 | 0.2397 | 0.2408 | 0.2413 | 0.2340 | 0.2367 | 0.2342 | ---- | 0.226 | 8.47 | 1.00 | 1.00 | 15 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,3,4,6-Tetrachlorophe | 1 | 0 | Avg | 0.3368 | 0.2861 | 0.3662 | 0.3514 | 0.3563 | 0.3401 | 0.3331 | 0.3266 | ---- | 0.337 | 8.69 | 0.999 | 1.00 | 7.2 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Fluorene | 1 | 0 | Avg | 1.3171 | 1.4732 | 1.5629 | 1.4521 | 1.2465 | 1.1201 | 1.0276 | 0.9747 | ---- | 1.27 | 8.92 | 0.987 | 0.999 | 17 | 0.90 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Chlorophenyl-phenyl | 1 | 0 | Avg | 0.6218 | 0.6530 | 0.7131 | 0.6740 | 0.6159 | 0.5611 | 0.5220 | 0.4931 | ---- | 0.607 | 8.91 | 0.990 | 1.00 | 13 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Diethylphthalate | 1 | 0 | Avg | 1.3209 | 1.3774 | 1.5212 | 1.4178 | 1.2891 | 1.1879 | 1.1243 | 1.0836 | ---- | 1.29 | 8.78 | 0.994 | 1.00 | 12 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Nitroaniline | 1 | 0 | Avg | 0.3824 | 0.3455 | 0.4524 | 0.4123 | 0.3855 | 0.3708 | 0.3705 | 0.3662 | ---- | 0.386 | 8.93 | 1.00 | 1.00 | 8.6 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Atrazine | 1 | 0 | Avg | 0.3734 | 0.3178 | 0.4055 | 0.3980 | 0.3860 | 0.3700 | 0.3632 | 0.3577 | ---- | 0.371 | 9.57 | 0.999 | 1.00 | 7.3 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4,6-Dinitro-2-methylph | 1 | 0 | Avg | 0.1143 | ---- | 0.0983 | 0.1123 | 0.1278 | 0.1241 | 0.1247 | 0.1247 | ---- | 0.118 | 8.95 | 0.999 | 0.999 | 8.9 | 0.01 | 50.00 | | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| n-Nitrosodiphenylamin | 1 | 0 | Avg | 0.6100 | 0.6595 | 0.7385 | 0.6813 | 0.6010 | 0.5516 | 0.5181 | 0.5051 | ---- | 0.608 | 9.02 | 0.992 | 0.999 | 13 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4,6-Tribromophenol | 1 | 0 | Avg | 0.0997 | 0.0735 | 0.1018 | 0.1070 | 0.1091 | 0.1062 | 0.1090 | 0.1090 | ---- | 0.102 | 9.16 | 1.00 | 1.00 | 12 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,2-Diphenylhydrazine | 1 | 0 | Avg | 0.7452 | 0.8684 | 0.9287 | 0.7477 | 0.6972 | 0.6339 | 0.5942 | 0.5797 | ---- | 0.724 | 9.07 | 0.990 | 0.999 | 17 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Bromophenyl-phenyl | 1 | 0 | Avg | 0.2052 | 0.2010 | 0.2289 | 0.2147 | 0.2126 | 0.2032 | 0.1979 | 0.1954 | ---- | 0.207 | 9.41 | 0.999 | 1.00 | 5.3 | 0.10 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Hexachlorobenzene | 1 | 0 | Avg | 0.2300 | 0.2379 | 0.2592 | 0.2451 | 0.2430 | 0.2276 | 0.2217 | 0.2197 | ---- | 0.236 | 9.47 | 0.996 | 0.999 | 5.7 | 0.10 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| N-Octadecane | 1 | 0 | Qua | 0.4109 | 0.4383 | 0.5197 | 0.4600 | 0.3699 | 0.3291 | 0.2988 | 0.2845 | ---- | 0.389 | 9.74 | 0.984 | 0.999 | 21 | 0.05 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Pentachlorophenol | 1 | 0 | Avg | 0.1468 | ---- | 0.1336 | 0.1448 | 0.1613 | 0.1553 | 0.1563 | 0.1545 | ---- | 0.150 | 9.67 | 0.999 | 0.999 | 6.2 | 0.05 | 50.00 | | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Phenanthrene | 1 | 0 | Avg | 0.9900 | 1.1720 | 1.1953 | 1.1005 | 0.9728 | 0.8822 | 0.8267 | 0.7967 | ---- | 0.992 | 9.92 | 0.991 | 0.999 | 15 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Anthracene | 1 | 0 | Avg | 1.0308 | 1.1449 | 1.2337 | 1.1316 | 0.9963 | 0.9189 | 0.8400 | 0.8219 | ---- | 1.01 | 9.98 | 0.992 | 0.999 | 15 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Carbazole | 1 | 0 | Avg | 0.9836 | 1.0229 | 1.1554 | 1.0737 | 0.9581 | 0.8830 | 0.8274 | 0.8133 | ---- | 0.965 | 10.15 | 0.995 | 0.999 | 12 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Di-n-butylphthalate | 1 | 0 | Qua | 1.1987 | 1.0948 | 1.3484 | 1.2969 | 1.1575 | 1.0502 | 0.9667 | 0.9320 | 0.9291 | 1.11 | 10.53 | 0.988 | 1.00 | 14 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Fluoranthene | 1 | 0 | Avg | 1.0736 | 1.0734 | 1.2305 | 1.1595 | 1.0568 | 0.9634 | 0.9040 | 0.8757 | ---- | 1.04 | 11.27 | 0.994 | 1.00 | 12 | 0.60 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Pyrene | 1 | 0 | Avg | 1.2713 | 1.3261 | 1.4736 | 1.3521 | 1.2482 | 1.1390 | 1.1188 | 1.0962 | ---- | 1.25 | 11.54 | 0.997 | 0.999 | 10 | 0.60 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzidine | 1 | 0 | Avg | 0.7935 | 0.5479 | 0.8294 | 0.8432 | 0.8335 | 0.7724 | 0.7584 | 0.7661 | ---- | 0.768 | 11.43 | 0.999 | 0.999 | 12 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Terphenyl-d14 | 1 | 0 | Avg | 0.6380 | 0.5758 | 0.6838 | 0.6629 | 0.6705 | 0.6438 | 0.6573 | 0.6867 | ---- | 0.652 | 11.72 | 0.998 | 0.999 | 5.4 | | 25.00 | 1.00 | 5.00 | 10.00 | 40.00 | 60.00 | 80.00 | 96.00 | |

| *Flags* | *Note:* Avg Rsd: 11.65 |
|---|---|
| *a - failed the min rf criteria* | *Corr 1 = Correlation Coefficient for linear Eq.* |
| *c - failed the minimum correlation coeff criteria(if applicable)* | *Corr 2 = Correlation Coefficient for quad Eq.* |
| | *Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.* |

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Method: EPA 8270E

# Form 6
## Initial Calibration

Instrument: GCMS_7

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 7M116115.D | CAL BNA@50PPM | 08/23/21 12:37 | 2 | 7M116113.D | CAL BNA@2PPM | 08/23/21 11:50 |
| 3 | 7M116112.D | CAL BNA@10PPM | 08/23/21 11:26 | 4 | 7M116111.D | CAL BNA@20PPM | 08/23/21 11:02 |
| 5 | 7M116110.D | CAL BNA@80PPM | 08/23/21 10:38 | 6 | 7M116109.D | CAL BNA@120PPM | 08/23/21 10:14 |
| 7 | 7M116108.D | CAL BNA@160PPM | 08/23/21 09:50 | 8 | 7M116107.D | CAL BNA@196PPM | 08/23/21 09:26 |
| 9 | 7M116114.D | CAL BNA@0.5PPM | 08/23/21 12:13 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | 1 | 0 | Avg | 0.2724 | 0.2608 | 0.2935 | 0.2827 | 0.2806 | 0.2662 | 0.2691 | 0.2663 | ---- | 0.274 | 11.65 | 1.00 | 1.00 | 4.0 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4,4'-DDD | 1 | 0 | Avg | 0.4773 | 0.3966 | 0.4982 | 0.4931 | 0.4912 | 0.4546 | 0.4419 | 0.4429 | ---- | 0.462 | 12.06 | 0.998 | 1.00 | 7.5 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Butylbenzylphthalate | 1 | 0 | Avg | 0.6089 | 0.4524 | 0.6250 | 0.6180 | 0.6097 | 0.5653 | 0.5632 | 0.5561 | ---- | 0.575 | 12.32 | 0.999 | 1.00 | 9.8 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4,4'-DDT | 1 | 0 | Avg | 0.3972 | 0.2865 | 0.4059 | 0.4054 | 0.3955 | 0.3584 | 0.3420 | 0.3361 | ---- | 0.366 | 12.42 | 0.995 | 0.999 | 12 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 3,3'-Dichlorobenzidine | 1 | 0 | Avg | 0.4656 | 0.3110 | 0.4659 | 0.4797 | 0.4968 | 0.4643 | 0.4536 | 0.4431 | ---- | 0.448 | 12.95 | 0.998 | 1.00 | 13 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[a]anthracene | 1 | 0 | Avg | 1.1657 | 1.1864 | 1.3143 | 1.2395 | 1.1843 | 1.0818 | 1.0733 | 1.0553 | ---- | 1.16 | 12.98 | 0.998 | 0.999 | 7.7 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Chrysene | 1 | 0 | Avg | 1.1157 | 1.3086 | 1.3571 | 1.2437 | 1.0822 | 0.9817 | 0.9393 | 0.9472 | ---- | 1.12 | 13.02 | 0.997 | 0.999 | 15 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| bis(2-Ethylhexyl)phthal | 1 | 0 | Avg | 0.7827 | 0.6512 | 0.8721 | 0.8398 | 0.7635 | 0.6945 | 0.6653 | 0.6543 | ---- | 0.740 | 13.01 | 0.996 | 0.999 | 12 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Di-n-octylphthalate | 1 | 0 | Qua | 1.2005 | 0.7145 | 1.1362 | 1.1963 | 1.2207 | 1.1078 | 1.0547 | 1.0437 | ---- | 1.08 | 13.77 | 0.995 | 0.999 | 15 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[b]fluoranthene | 1 | 0 | Avg | 1.0226 | 0.7881 | 1.0328 | 1.0823 | 1.1027 | 0.9623 | 0.9881 | 1.0508 | ---- | 1.00 | 14.21 | 0.998 | 0.998 | 9.8 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[k]fluoranthene | 1 | 0 | Avg | 1.0491 | 1.0727 | 1.2351 | 1.0938 | 1.0640 | 0.9045 | 0.9078 | 0.8301 | ---- | 1.02 | 14.24 | 0.989 | 0.998 | 13 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[a]pyrene | 1 | 0 | Avg | 1.0471 | 0.8541 | 1.1036 | 1.0909 | 1.0412 | 0.9747 | 0.9675 | 0.9736 | ---- | 1.01 | 14.60 | 0.999 | 0.999 | 8.1 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Indeno[1,2,3-cd]pyren | 1 | 0 | Avg | 1.1256 | 0.9455 | 1.1504 | 1.1445 | 1.1852 | 1.1222 | 1.1231 | 1.1284 | ---- | 1.12 | 16.11 | 1.00 | 1.00 | 6.4 | 0.50 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Dibenzo[a,h]anthracen | 1 | 0 | Avg | 0.9489 | 0.7865 | 0.9579 | 0.9714 | 0.9979 | 0.9356 | 0.9195 | 0.9185 | ---- | 0.930 | 16.13 | 0.999 | 1.00 | 6.8 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[g,h,i]perylene | 1 | 0 | Avg | 0.9361 | 0.8480 | 0.9706 | 0.9514 | 0.9840 | 0.9196 | 0.9400 | 0.9473 | ---- | 0.937 | 16.52 | 0.999 | 0.999 | 4.4 | 0.50 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |

| *Flags* | *Note:* Avg Rsd: 11.65 |
|---|---|
| *a - failed the min rf criteria* | *Corr 1 = Correlation Coefficient for linear Eq.* |
| *c - failed the minimum correlation coeff criteria(if applicable)* | *Corr 2 = Correlation Coefficient for quad Eq.* |
| | *Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.* |

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116115.D  Sam Mult : 1  Vial# : 10  Qt On : 08/23/21 12:56
Acq On : 08/23/21 12:37  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.722 | 96 | 149599 | 40.00 | ng | -0.02 |
| 21) 1,4-Dichlorobenzene-d4 | 5.924 | 152 | 237642 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.941 | 136 | 955829 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.398 | 164 | 485853 | 40.00 | ng | -0.01 |
| 77) Phenanthrene-d10 | 9.896 | 188 | 929383 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.987 | 240 | 804665 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.661 | 264 | 928871 | 40.00 | ng | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.732 | 112 | 369184 | 51.46 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.46% | | | |
| 16) Phenol-d5 | 5.601 | 99 | 426613 | 51.73 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.73% | | | |
| 32) Nitrobenzene-d5 | 6.377 | 128 | 87964 | 27.77 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 55.54% | | | |
| 55) 2-Fluorobiphenyl | 7.793 | 172 | 380958 | 25.42 | ng | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 50.84% | | | |
| 80) 2,4,6-Tribromophenol | 9.156 | 330 | 115929 | 49.84 | ng | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 49.84% | | | |
| 94) Terphenyl-d14 | 11.718 | 244 | 320903 | 25.12 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 50.24% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.763 | 88 | 176449 | 49.9392 | ng | 97 |
| 9) Pyridine | 3.228 | 79 | 389368 | 47.8376 | ng | 65 |
| 10) N-Nitrosodimethylamine | 3.186 | 74 | 273852 | 48.7894 | ng | 68 |
| 12) Benzaldehyde | 5.554 | 77 | 327719 | 72.6142 | ng | 73 |
| 13) Aniline | 5.648 | 93 | 598025 | 53.4629 | ng | 49 |
| 14) Pentachloroethane | 5.689 | 117 | 139410 | 50.5351 | ng | 86 |
| 15) bis(2-Chloroethyl)ether | 5.707 | 93 | 395674 | 47.9338 | ng | 75 |
| 17) Phenol | 5.613 | 94 | 537728 | 50.1730 | ng | 81 |
| 18) 2-Chlorophenol | 5.748 | 128 | 407934 | 50.9595 | ng | 76 |
| 19) N-Decane | 5.783 | 57 | 363957 | 49.9073 | ng | 87 |
| 20) 1,3-Dichlorobenzene | 5.877 | 146 | 428240 | 49.4890 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.942 | 146 | 424540 | 51.1835 | ng | 96 |
| 23) 1,2-Dichlorobenzene | 6.065 | 146 | 406640 | 50.9105 | ng | 97 |
| 24) Benzyl alcohol | 6.036 | 108 | 256579 | 51.4413 | ng | 70 |
| 25) bis(2-chloroisopropyl)... | 6.148 | 45 | 419181 | 49.7017 | ng | 98 |
| 26) 2-Methylphenol | 6.124 | 108 | 353489 | 52.0144 | ng | 98 |
| 27) Acetophenone | 6.253 | 105 | 500166 | 54.5860 | ng | 64 |
| 28) Hexachloroethane | 6.342 | 117 | 164221 | 52.2076 | ng | 87 |
| 29) N-Nitroso-di-n-propyla... | 6.253 | 70 | 234786 | 48.4055 | ng | 84 |
| 30) 3&4-Methylphenol | 6.248 | 108 | 346776 | 55.1843 | ng | 98 |
| 33) Nitrobenzene | 6.394 | 77 | 382569 | 52.0357 | ng | 72 |
| 34) Isophorone | 6.577 | 82 | 724215 | 50.2582 | ng | 83 |
| 35) 2-Nitrophenol | 6.641 | 139 | 218282 | 60.7109 | ng | 79 |
| 36) 2,4-Dimethylphenol | 6.659 | 107 | 368138 | 52.5677 | ng | 90 |
| 37) Benzoic Acid | 6.729 | 105 | 257130 | 74.1580 | ng | 44 |
| 38) bis(2-Chloroethoxy)met... | 6.741 | 93 | 454905 | 50.5247 | ng | 95 |
| 39) 2,4-Dichlorophenol | 6.823 | 162 | 315898 | 48.6886 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.888 | 180 | 335248 | 51.1840 | ng | 97 |
| 41) Naphthalene | 6.953 | 128 | 1111597 | 50.2163 | ng | 98 |
| 42) 4-Chloroaniline | 6.988 | 127 | 477246m | 62.3131 | ng | |
| 43) Hexachlorobutadiene | 7.041 | 225 | 174127 | 50.4908 | ng | 97 |
| 44) Caprolactam | 7.282 | 113 | 140593 | 52.7581 | ng | 58 |
| 45) 4-Chloro-3-methylphenol | 7.358 | 107 | 327008 | 55.5256 | ng | 74 |
| 46) 2-Methylnaphthalene | 7.499 | 142 | 777800 | 52.4548 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.581 | 142 | 725275 | 52.4302 | ng | 91 |
| 48) Methylnaphthalenes (To... | 7.499 | 142 | 1500938m | 104.6301 | ng | |
| 49) 1,1'-Biphenyl | 7.881 | 154 | 1005032 | 53.9656 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.634 | 216 | 330417 | 51.8004 | ng | 99 |
| 52) Hexachlorocyclopentadiene | 7.622 | 237 | 185282 | 52.0978 | ng | 98 |
| 53) 2,4,6-Trichlorophenol | 7.722 | 196 | 247457 | 53.5016 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.758 | 196 | 222213 | 43.2498 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.904 | 162 | 705463 | 50.7182 | ng | 92 |
| 57) 1,4-Dimethylnaphthalene | 8.192 | 156 | 587367 | 51.0823 | ng | 86 |
| 58) Dimethylnaphthalenes (... | 8.192 | 156 | 587367 | 51.0823 | ng | 86 |
| 59) Diphenyl Ether | 7.969 | 170 | 502754 | 52.5822 | ng | 76 |
| 60) 2-Nitroaniline | 7.987 | 65 | 233329 | 51.5678 | ng | 41 |
| 61) Coumarin | 8.181 | 146 | 320797 | 54.5628 | ng | 87 |
| 62) Acenaphthylene | 8.275 | 152 | 1113412 | 51.1406 | ng | 98 |
| 63) Dimethylphthalate | 8.134 | 163 | 797685 | 51.1092 | ng | 98 |
| 64) 2,6-Dinitrotoluene | 8.192 | 165 | 177347 | 53.2884 | ng | 67 |
| 65) Acenaphthene | 8.427 | 153 | 686612 | 50.2565 | ng | 98 |

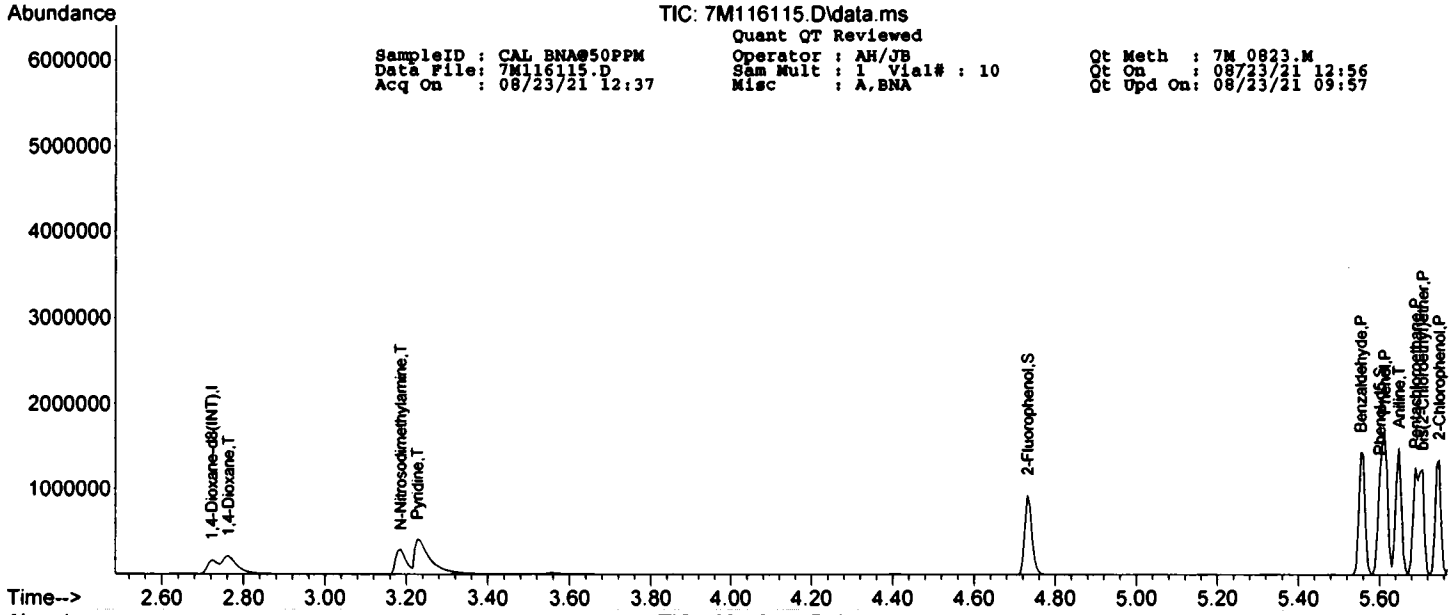
Quantitation Report (QT Reviewed)

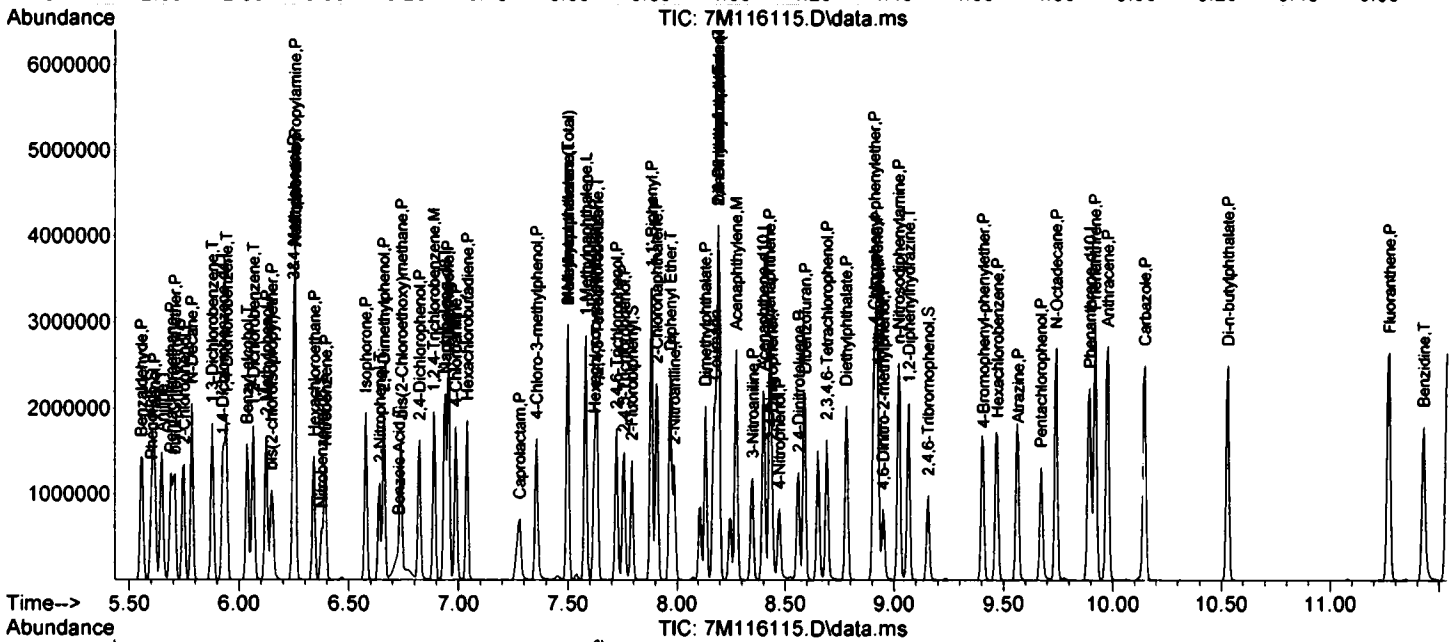
SampleID : CAL BNA@50PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116115.D  Sam Mult : 1  Vial# : 10  Qt On : 08/23/21 12:56
Acq On : 08/23/21 12:37  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

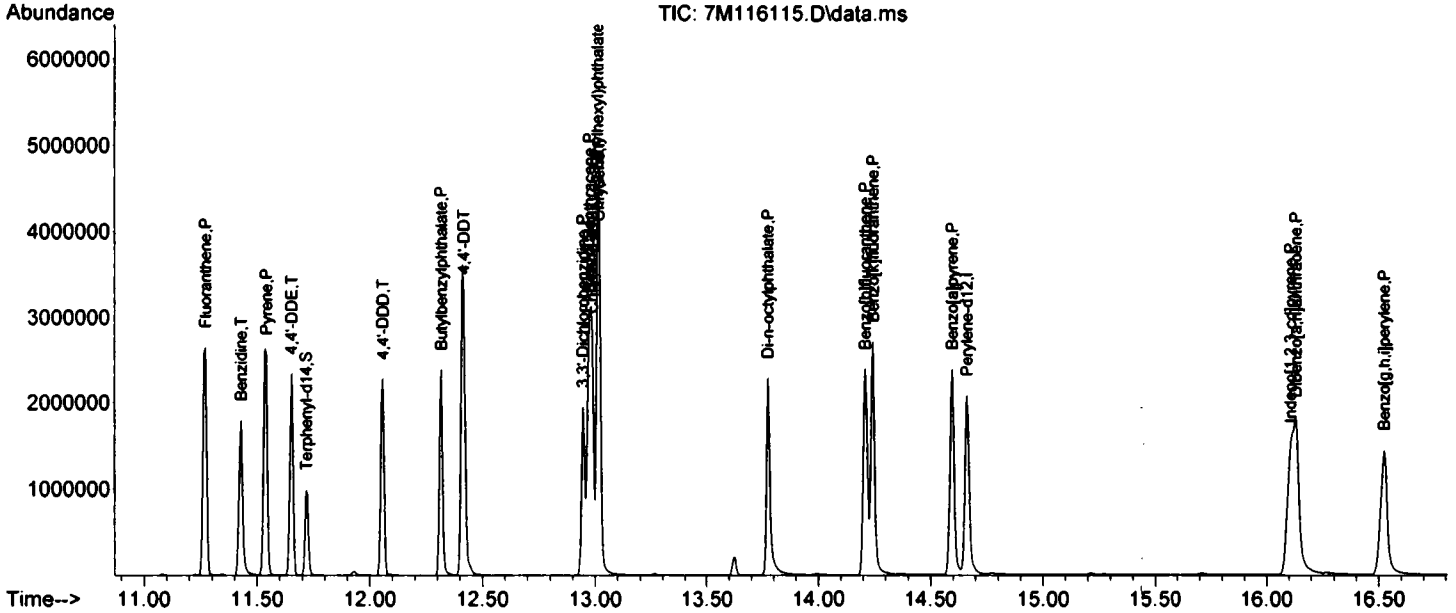
Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.351 | 138 | 229299 | 54.5448 | ng | 71 |
| 67) | 2,4-Dinitrophenol | 8.439 | 184 | 92718 | 78.4535 | ng | 44 |
| 68) | Dibenzofuran | 8.592 | 168 | 987016 | 49.5028 | ng | 83 |
| 69) | 2,4-Dinitrotoluene | 8.563 | 165 | 258147 | 51.5523 | ng | 57 |
| 70) | 4-Nitrophenol | 8.474 | 65 | 143660 | 53.8217 | ng | 92 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.692 | 232 | 204581 | 49.6796 | ng | 83 |
| 72) | Fluorene | 8.921 | 166 | 799895 | 52.1010 | ng | 100 |
| 73) | 4-Chlorophenyl-phenyle... | 8.909 | 204 | 377653 | 51.8827 | ng | 81 |
| 74) | Diethylphthalate | 8.780 | 149 | 802261 | 51.8986 | ng | 96 |
| 75) | 4-Nitroaniline | 8.927 | 138 | 232262 | 49.6584 | ng | 68 |
| 76) | Atrazine | 9.567 | 200 | 226828 | 55.6470 | ng | 94 |
| 78) | 4,6-Dinitro-2-methylph... | 8.950 | 198 | 132784 | 65.7859 | ng | 65 |
| 79) | n-Nitrosodiphenylamine | 9.021 | 169 | 708748 | 49.8593 | ng | 99 |
| 81) | 1,2-Diphenylhydrazine | 9.068 | 77 | 865759 | 51.7543 | ng | 78 |
| 82) | 4-Bromophenyl-phenylether | 9.409 | 248 | 238426 | 49.8939 | ng | 78 |
| 83) | Hexachlorobenzene | 9.473 | 284 | 267193 | 49.6387 | ng | 58 |
| 84) | N-Octadecane | 9.744 | 57 | 477369 | 51.0301 | ng | 69 |
| 85) | Pentachlorophenol | 9.673 | 266 | 170631 | 55.6223 | ng | 97 |
| 86) | Phenanthrene | 9.920 | 178 | 1150132 | 49.6846 | ng | 100 |
| 87) | Anthracene | 9.979 | 178 | 1197547 | 50.7452 | ng | 99 |
| 88) | Carbazole | 10.149 | 167 | 1142689 | 50.7760 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.531 | 149 | 1392563 | 48.9216 | ng | 97 |
| 90) | Fluoranthene | 11.271 | 202 | 1247273 | 50.9298 | ng | 96 |
| 92) | Pyrene | 11.541 | 202 | 1278743 | 50.3905 | ng | 91 |
| 93) | Benzidine | 11.430 | 184 | 798161 | 104.4218 | ng | 91 |
| 95) | 4,4'-DDE | 11.653 | 246 | 274059 | 50.0712 | ng | 90 |
| 96) | 4,4'-DDD | 12.059 | 235 | 480149 | 52.4920 | ng | 97 |
| 97) | Butylbenzylphthalate | 12.317 | 149 | 612473 | 48.3468 | ng | 71 |
| 98) | 4,4'-DDT | 12.417 | 235 | 399605 | 60.8883 | ng | 97 |
| 99) | 3,3'-Dichlorobenzidine | 12.946 | 252 | 468363 | 52.3640 | ng | 97 |
| 100) | Benzo[a]anthracene | 12.975 | 228 | 1172568 | 48.2485 | ng | 98 |
| 101) | Chrysene | 13.016 | 228 | 1122283 | 50.7880 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 13.010 | 149 | 787348 | 49.0506 | ng | 93 |
| 104) | Di-n-octylphthalate | 13.774 | 149 | 1393928 | 49.4270 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.209 | 252 | 1187357 | 47.6409 | ng | 97 |
| 106) | Benzo[k]fluoranthene | 14.244 | 252 | 1218119m | 50.7787 | ng | |
| 107) | Benzo[a]pyrene | 14.597 | 252 | 1215838 | 50.1652 | ng | 95 |
| 108) | Indeno[1,2,3-cd]pyrene | 16.107 | 276 | 1307024 | 48.1344 | ng | 90 |
| 109) | Dibenzo[a,h]anthracene | 16.130 | 278 | 1101864 | 48.1555 | ng | 93 |
| 110) | Benzo[g,h,i]perylene | 16.524 | 276 | 1086980m | 47.5062 | ng | |

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


Abundance
TIC: 7M116115.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 7M116115.D
Acq On : 08/23/21 12:37
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 08/23/21 12:56
Qt Upd On: 08/23/21 09:57
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
Time-->


Abundance
TIC: 7M116115.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
3-Nitroaniline,P
2,4-Dinitrotoluene,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->


Abundance
TIC: 7M116115.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116113.D  Sam Mult : 1 Vial# : 8  Qt On : 08/23/21 12:42
Acq On : 08/23/21 11:50  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.728 | 96 | 167699 | 40.00 | ng | -0.01 |
| 21) 1,4-Dichlorobenzene-d4 | 5.924 | 152 | 268872 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.935 | 136 | 1054416 | 40.00 | ng | -0.01 |
| 50) Acenaphthene-d10 | 8.398 | 164 | 517946 | 40.00 | ng | -0.01 |
| 77) Phenanthrene-d10 | 9.890 | 188 | 949839 | 40.00 | ng | -0.01 |
| 91) Chrysene-d12 | 12.981 | 240 | 828490 | 40.00 | ng | -0.01 |
| 103) Perylene-d12 | 14.661 | 264 | 939504 | 40.00 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.732 | 112 | 15640 | 1.94 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.94% | | | |
| 16) Phenol-d5 | 5.595 | 99 | 18609 | 2.01 | ng | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 2.01% | | | |
| 32) Nitrobenzene-d5 | 6.371 | 128 | 3609 | 1.03 | ng | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 2.06% | | | |
| 55) 2-Fluorobiphenyl | 7.793 | 172 | 17578 | 1.10 | ng | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 2.20% | | | |
| 80) 2,4,6-Tribromophenol | 9.150 | 330 | 3491 | 1.43 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 1.43% | | | |
| 94) Terphenyl-d14 | 11.718 | 244 | 11927 | 0.91 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 1.82% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.769 | 88 | 10228 | 2.5823 | ng | 86 |
| 9) Pyridine | 3.257 | 79 | 16575 | 1.8166 | ng | 68 |
| 10) N-Nitrosodimethylamine | 3.198 | 74 | 11882 | 1.8884 | ng | 71 |
| 12) Benzaldehyde | 5.554 | 77 | 15390 | 3.0420 | ng | 71 |
| 13) Aniline | 5.642 | 93 | 27399 | 2.1851 | ng | 51 |
| 14) Pentachloroethane | 5.689 | 117 | 6814 | 2.2034 | ng | 91 |
| 15) bis(2-Chloroethyl)ether | 5.701 | 93 | 20197 | 2.1827 | ng | 75 |
| 17) Phenol | 5.607 | 94 | 24638 | 2.0507 | ng | 80 |
| 18) 2-Chlorophenol | 5.742 | 128 | 18200 | 2.0282 | ng | 78 |
| 19) N-Decane | 5.783 | 57 | 20106 | 2.4595 | ng | 90 |
| 20) 1,3-Dichlorobenzene | 5.877 | 146 | 21363 | 2.2023 | ng | 95 |
| 22) 1,4-Dichlorobenzene | 5.936 | 146 | 21516 | 2.2927 | ng | 99 |
| 23) 1,2-Dichlorobenzene | 6.060 | 146 | 20899 | 2.3126 | ng | 97 |
| 24) Benzyl alcohol | 6.036 | 108 | 11027 | 1.9540 | ng | 63 |
| 25) bis(2-chloroisopropyl)... | 6.148 | 45 | 22119 | 2.3180 | ng | 97 |
| 26) 2-Methylphenol | 6.118 | 108 | 15836 | 2.0595 | ng | 98 |
| 27) Acetophenone | 6.248 | 105 | 27447 | 2.6475 | ng | 62 |
| 28) Hexachloroethane | 6.336 | 117 | 7896 | 2.2187 | ng | 81 |
| 29) N-Nitroso-di-n-propyla... | 6.248 | 70 | 12611 | 2.2980 | ng | 84 |
| 30) 3&4-Methylphenol | 6.242 | 108 | 16994 | 2.3902 | ng | 98 |
| 33) Nitrobenzene | 6.389 | 77 | 18382 | 2.2665 | ng | 75 |
| 34) Isophorone | 6.571 | 82 | 34481 | 2.1691 | ng | 86 |
| 35) 2-Nitrophenol | 6.635 | 139 | 8144 | 1.9491 | ng | 84 |
| 36) 2,4-Dimethylphenol | 6.659 | 107 | 16984 | 2.1984 | ng | 87 |
| 37) Benzoic Acid | 0.000 | | 0 | N.D. | d | |
| 38) bis(2-Chloroethoxy)met... | 6.735 | 93 | 22844 | 2.3000 | ng | 98 |
| 39) 2,4-Dichlorophenol | 6.817 | 162 | 12748 | 1.7111 | ng | 89 |
| 40) 1,2,4-Trichlorobenzene | 6.888 | 180 | 16512 | 2.2853 | ng | 98 |
| 41) Naphthalene | 6.953 | 128 | 56301 | 2.3056 | ng | 98 |
| 42) 4-Chloroaniline | 6.988 | 127 | 21822m | 2.5829 | ng | |
| 43) Hexachlorobutadiene | 7.041 | 225 | 8313 | 2.1851 | ng | 96 |
| 44) Caprolactam | 7.241 | 113 | 4932 | 1.7104 | ng | 65 |
| 45) 4-Chloro-3-methylphenol | 7.352 | 107 | 13029 | 2.0055 | ng | 77 |
| 46) 2-Methylnaphthalene | 7.499 | 142 | 38687 | 2.3651 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.581 | 142 | 35506 | 2.3267 | ng | 92 |
| 48) Methylnaphthalenes (To... | 7.499 | 142 | 73690m | 4.6566 | ng | |
| 49) 1,1'-Biphenyl | 7.881 | 154 | 49441 | 2.4065 | ng | 95 |
| 51) 1,2,4,5-Tetrachloroben... | 7.628 | 216 | 15797 | 2.3231 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.617 | 237 | 5481 | 1.4390 | ng | 94 |
| 53) 2,4,6-Trichlorophenol | 7.716 | 196 | 7879 | 1.5433 | ng | 94 |
| 54) 2,4,5-Trichlorophenol | 7.752 | 196 | 9432 | 1.6590 | ng | 94 |
| 56) 2-Chloronaphthalene | 7.904 | 162 | 34068 | 2.2975 | ng | 90 |
| 57) 1,4-Dimethylnaphthalene | 8.192 | 156 | 30630 | 2.4988 | ng | 85 |
| 58) Dimethylnaphthalenes (... | 8.192 | 156 | 30630 | 2.4988 | ng | 85 |
| 59) Diphenyl Ether | 7.969 | 170 | 24185 | 2.3727 | ng | 74 |
| 60) 2-Nitroaniline | 7.981 | 65 | 9764 | 1.9466 | ng | 49 |
| 61) Coumarin | 8.169 | 146 | 15604 | 2.4896 | ng | 86 |
| 62) Acenaphthylene | 8.269 | 152 | 53519 | 2.3059 | ng | 100 |
| 63) Dimethylphthalate | 8.128 | 163 | 36938 | 2.2200 | ng | 97 |
| 64) 2,6-Dinitrotoluene | 8.186 | 165 | 8024 | 2.0942 | ng | 67 |
| 65) Acenaphthene | 8.427 | 153 | 33940 | 2.3303 | ng | 98 |

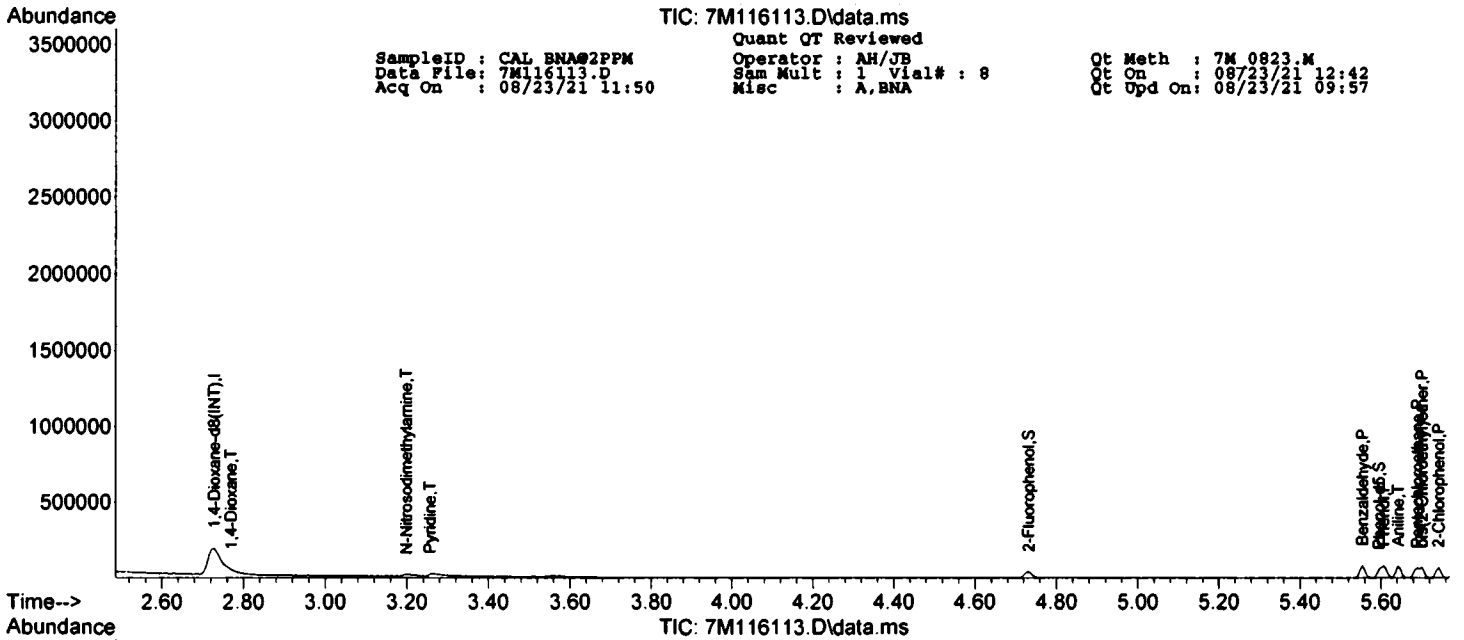
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 7M_0823.M
Data File: 7M116113.D Sam Mult : 1 Vial# : 8 Qt On : 08/23/21 12:42
Acq On : 08/23/21 11:50 Misc : A,BNA Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.345 | 138 | 9358 | 1.9678 | ng | 75 |
| 67) | 2,4-Dinitrophenol | 0.000 | | 0 | N.D. d | | |
| 68) | Dibenzofuran | 8.586 | 168 | 49282 | 2.3185 | ng | 80 |
| 69) | 2,4-Dinitrotoluene | 8.557 | 165 | 9192 | 1.6933 | ng | 56 |
| 70) | 4-Nitrophenol | 8.486 | 65 | 3756 | 1.3407 | ng | 91 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.692 | 232 | 7410 | 1.6590 | ng | 85 |
| 72) | Fluorene | 8.915 | 166 | 38154 | 2.3312 | ng | 98 |
| 73) | 4-Chlorophenyl-phenyle... | 8.903 | 204 | 16913 | 2.1796 | ng | 89 |
| 74) | Diethylphthalate | 8.774 | 149 | 35673 | 2.1647 | ng | 99 |
| 75) | 4-Nitroaniline | 8.915 | 138 | 8948 | 1.7631 | ng | 74 |
| 76) | Atrazine | 9.556 | 200 | 8232 | 1.8944 | ng | 93 |
| 78) | 4,6-Dinitro-2-methylph... | 0.000 | | 0 | N.D. d | | |
| 79) | n-Nitrosodiphenylamine | 9.015 | 169 | 31323 | 2.1561 | ng | 96 |
| 81) | 1,2-Diphenylhydrazine | 9.062 | 77 | 41242 | 2.4123 | ng | 85 |
| 82) | 4-Bromophenyl-phenylether | 9.403 | 248 | 9550 | 1.9554 | ng | 83 |
| 83) | Hexachlorobenzene | 9.467 | 284 | 11299 | 2.0539 | ng | 66 |
| 84) | N-Octadecane | 9.738 | 57 | 20819 | 2.1776 | ng | 71 |
| 85) | Pentachlorophenol | 0.000 | | 0 | N.D. d | | |
| 86) | Phenanthrene | 9.914 | 178 | 55661 | 2.3527 | ng | 99 |
| 87) | Anthracene | 9.973 | 178 | 54376 | 2.2545 | ng | 99 |
| 88) | Carbazole | 10.143 | 167 | 48582 | 2.1123 | ng | 98 |
| 89) | Di-n-butylphthalate | 10.525 | 149 | 51998 | 1.6796 | ng | 96 |
| 90) | Fluoranthene | 11.265 | 202 | 50981 | 2.0369 | ng | 99 |
| 92) | Pyrene | 11.536 | 202 | 54936 | 2.1026 | ng | 94 |
| 93) | Benzidine | 11.430 | 184 | 22699 | 2.8843 | ng | 97 |
| 95) | 4,4'-DDE | 11.647 | 246 | 10806 | 1.9175 | ng | 91 |
| 96) | 4,4'-DDD | 12.053 | 235 | 16430 | 1.7445 | ng | 99 |
| 97) | Butylbenzylphthalate | 12.311 | 149 | 18743 | 1.3947 | ng | 77 |
| 98) | 4,4'-DDT | 12.417 | 235 | 11868 | 1.7039 | ng | 98 |
| 99) | 3,3'-Dichlorobenzidine | 12.946 | 252 | 12884 | 1.3242 | ng | 96 |
| 100) | Benzo[a]anthracene | 12.969 | 228 | 49147 | 1.9641 | ng | 99 |
| 101) | Chrysene | 13.010 | 228 | 54212 | 2.3828 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 13.010 | 149 | 26977 | 1.5544 | ng | 93 |
| 104) | Di-n-octylphthalate | 13.768 | 149 | 33564 | 1.1598 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 14.203 | 252 | 37022 | 1.4686 | ng | 97 |
| 106) | Benzo[k]fluoranthene | 14.232 | 252 | 50393 | 2.0769 | ng | 95 |
| 107) | Benzo[a]pyrene | 14.591 | 252 | 40125 | 1.6368 | ng | 94 |
| 108) | Indeno[1,2,3-cd]pyrene | 16.089 | 276 | 44416 | 1.6172 | ng | 84 |
| 109) | Dibenzo[a,h]anthracene | 16.124 | 278 | 36947 | 1.5964 | ng | 94 |
| 110) | Benzo[g,h,i]perylene | 16.506 | 276 | 39839 | 1.7214 | ng | 90 |

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


Abundance
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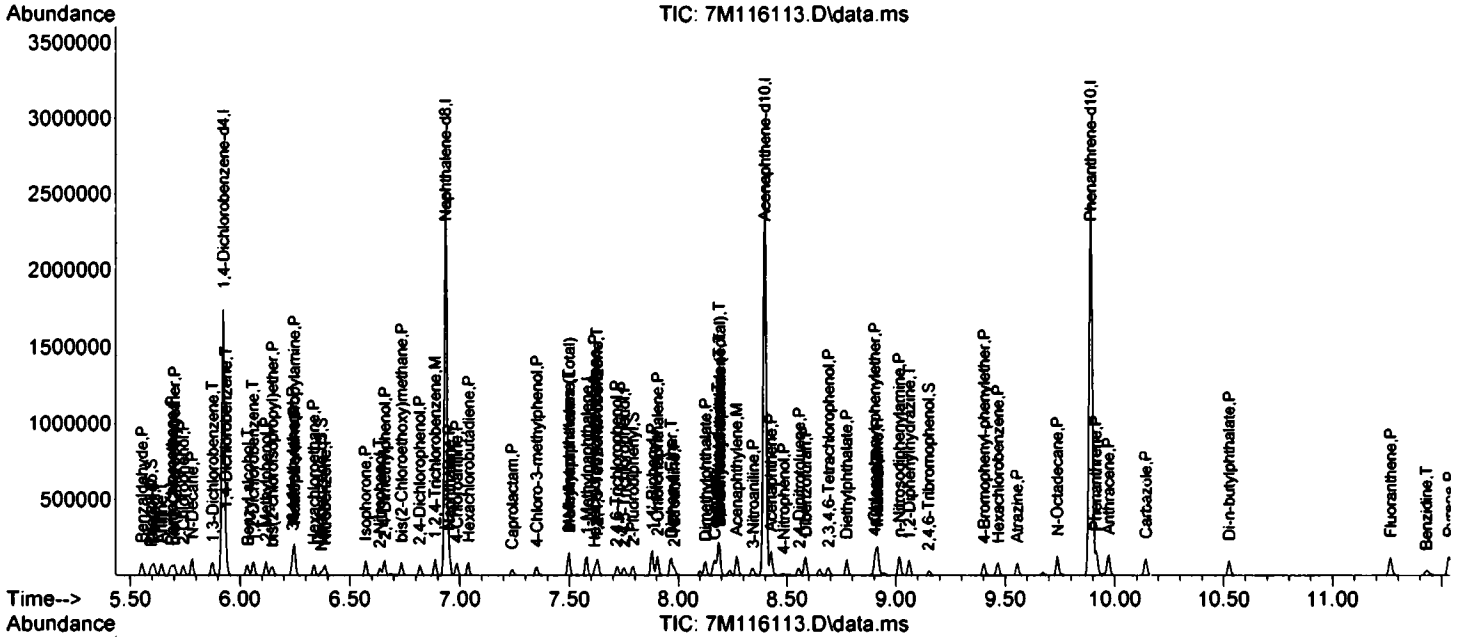
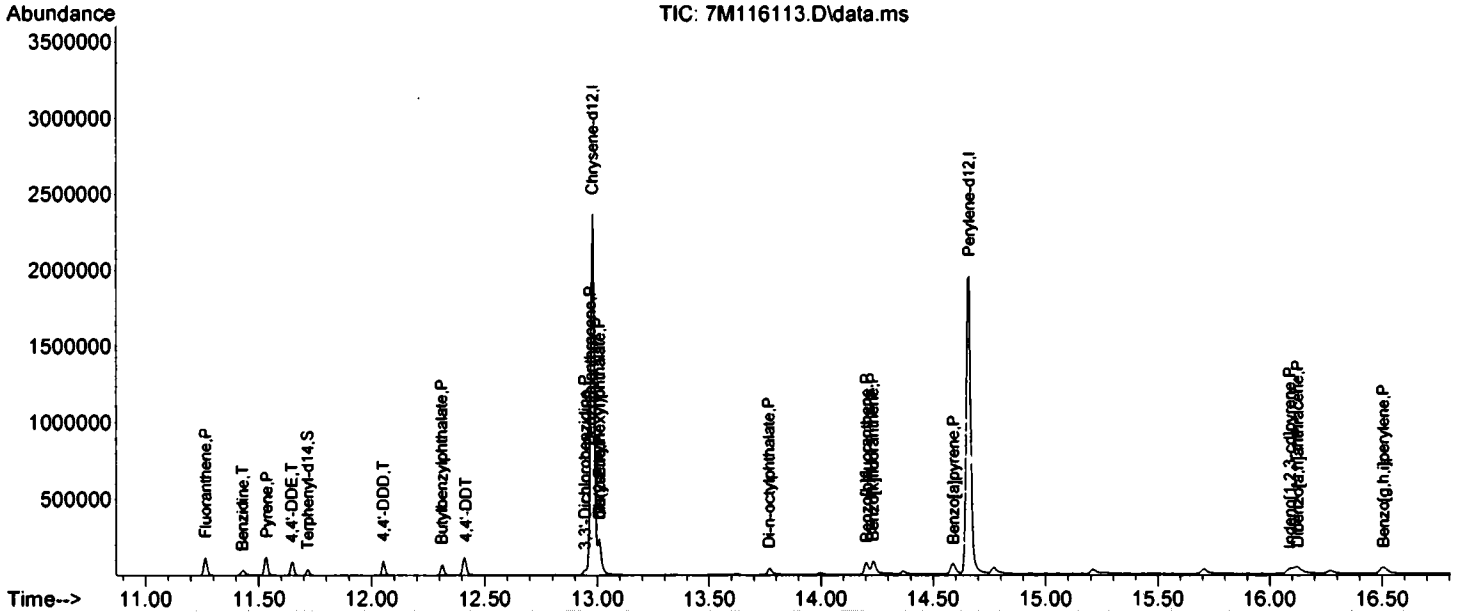
Quant QT Reviewed
SampleID : CAL BNA@2PPM
Data File: 7M116113.D
Acq On : 08/23/21 11:50
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 08/23/21 12:42
Qt Upd On: 08/23/21 09:57
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
TIC: 7M116113.D\data.ms
1,4-Dichlorobenzene-d4,I
Nephthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
3-Nitroaniline,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->


Abundance
TIC: 7M116113.D\data.ms
Chrysene-d12,I
Perylene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116112.D  Sam Mult : 1  Vial# : 7  Qt On : 08/23/21 12:41
Acq On : 08/23/21 11:26  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.728 | 96 | 148511 | 40.00 | ng | -0.01 |
| 21) 1,4-Dichlorobenzene-d4 | 5.924 | 152 | 244746 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.935 | 136 | 954612 | 40.00 | ng | -0.01 |
| 50) Acenaphthene-d10 | 8.398 | 164 | 467483 | 40.00 | ng | -0.01 |
| 77) Phenanthrene-d10 | 9.890 | 188 | 867395 | 40.00 | ng | -0.01 |
| 91) Chrysene-d12 | 12.981 | 240 | 766987 | 40.00 | ng | -0.01 |
| 103) Perylene-d12 | 14.661 | 264 | 884775 | 40.00 | ng | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.732 | 112 | 79802 | 11.20 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 11.20% | | | |
| 16) Phenol-d5 | 5.601 | 99 | 95380 | 11.65 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 11.65% | | | |
| 32) Nitrobenzene-d5 | 6.371 | 128 | 19347 | 6.12 | ng | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 12.24% | | | |
| 55) 2-Fluorobiphenyl | 7.793 | 172 | 85127 | 5.90 | ng | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 11.80% | | | |
| 80) 2,4,6-Tribromophenol | 9.156 | 330 | 22092 | 9.95 | ng | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 9.95% | | | |
| 94) Terphenyl-d14 | 11.718 | 244 | 65564 | 5.38 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 10.76% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.769 | 88 | 39987 | 11.4002 | ng | 97 |
| 9) Pyridine | 3.245 | 79 | 83384 | 10.3196 | ng | 67 |
| 10) N-Nitrosodimethylamine | 3.192 | 74 | 60210 | 10.8056 | ng | 68 |
| 12) Benzaldehyde | 5.554 | 77 | 72634 | 16.2117 | ng | 73 |
| 13) Aniline | 5.642 | 93 | 137347 | 12.3687 | ng | 50 |
| 14) Pentachloroethane | 5.689 | 117 | 32158 | 11.7425 | ng | 86 |
| 15) bis(2-Chloroethyl)ether | 5.701 | 93 | 94098 | 11.4830 | ng | 78 |
| 17) Phenol | 5.607 | 94 | 125251 | 11.7722 | ng | 81 |
| 18) 2-Chlorophenol | 5.742 | 128 | 92589 | 11.6510 | ng | 79 |
| 19) N-Decane | 5.783 | 57 | 92798 | 12.8181 | ng | 90 |
| 20) 1,3-Dichlorobenzene | 5.877 | 146 | 100725 | 11.7254 | ng | 97 |
| 22) 1,4-Dichlorobenzene | 5.942 | 146 | 100647 | 11.7820 | ng | 96 |
| 23) 1,2-Dichlorobenzene | 6.065 | 146 | 96543 | 11.7362 | ng | 96 |
| 24) Benzyl alcohol | 6.036 | 108 | 58299 | 11.3490 | ng | 66 |
| 25) bis(2-chloroisopropyl)... | 6.148 | 45 | 104574 | 12.0393 | ng | 97 |
| 26) 2-Methylphenol | 6.118 | 108 | 82816 | 11.8323 | ng | 96 |
| 27) Acetophenone | 6.248 | 105 | 129150 | 13.6858 | ng | 66 |
| 28) Hexachloroethane | 6.336 | 117 | 37671 | 11.6284 | ng | 82 |
| 29) N-Nitroso-di-n-propyla... | 6.248 | 70 | 60622 | 12.1356 | ng | 83 |
| 30) 3&4-Methylphenol | 6.242 | 108 | 83434 | 12.8919 | ng | 97 |
| 33) Nitrobenzene | 6.389 | 77 | 90474 | 12.3216 | ng | 73 |
| 34) Isophorone | 6.571 | 82 | 170425 | 11.8420 | ng | 88 |
| 35) 2-Nitrophenol | 6.635 | 139 | 47485 | 12.6699 | ng | 82 |
| 36) 2,4-Dimethylphenol | 6.659 | 107 | 87270 | 12.4775 | ng | 89 |
| 37) Benzoic Acid | 6.694 | 105 | 30673m | 9.1381 | ng | |
| 38) bis(2-Chloroethoxy)met... | 6.735 | 93 | 107889 | 11.9981 | ng | 98 |
| 39) 2,4-Dichlorophenol | 6.818 | 162 | 70688 | 10.5584 | ng | 89 |
| 40) 1,2,4-Trichlorobenzene | 6.888 | 180 | 77771 | 11.8888 | ng | 97 |
| 41) Naphthalene | 6.953 | 128 | 267399 | 12.0951 | ng | 99 |
| 42) 4-Chloroaniline | 6.988 | 127 | 110739m | 14.4774 | ng | |
| 43) Hexachlorobutadiene | 7.041 | 225 | 39464 | 11.4578 | ng | 97 |
| 44) Caprolactam | 7.252 | 113 | 29450 | 11.2402 | ng | 57 |
| 45) 4-Chloro-3-methylphenol | 7.352 | 107 | 71285 | 12.1195 | ng | 77 |
| 46) 2-Methylnaphthalene | 7.499 | 142 | 181219 | 12.2370 | ng | 97 |
| 47) 1-Methylnaphthalene | 7.581 | 142 | 169079 | 12.2383 | ng | 92 |
| 48) Methylnaphthalenes (To... | 7.499 | 142 | 350155m | 24.4404 | ng | |
| 49) 1,1'-Biphenyl | 7.881 | 154 | 234990 | 12.6340 | ng | 95 |
| 51) 1,2,4,5-Tetrachloroben... | 7.628 | 216 | 77487 | 12.6252 | ng | 96 |
| 52) Hexachlorocyclopentadiene | 7.617 | 237 | 34926 | 10.1677 | ng | 98 |
| 53) 2,4,6-Trichlorophenol | 7.722 | 196 | 46484 | 10.1452 | ng | 98 |
| 54) 2,4,5-Trichlorophenol | 7.752 | 196 | 51244m | 10.0607 | ng | |
| 56) 2-Chloronaphthalene | 7.905 | 162 | 164330 | 12.2785 | ng | 90 |
| 57) 1,4-Dimethylnaphthalene | 8.192 | 156 | 143321 | 12.9542 | ng | 84 |
| 58) Dimethylnaphthalenes (... | 8.192 | 156 | 143321 | 12.9542 | ng | 84 |
| 59) Diphenyl Ether | 7.969 | 170 | 115402 | 12.5440 | ng | 74 |
| 60) 2-Nitroaniline | 7.981 | 65 | 52741 | 11.7383 | ng | 49 |
| 61) Coumarin | 8.175 | 146 | 75540 | 13.3531 | ng | 86 |
| 62) Acenaphthylene | 8.269 | 152 | 261242 | 12.4707 | ng | 99 |
| 63) Dimethylphthalate | 8.128 | 163 | 181284 | 12.0716 | ng | 98 |
| 64) 2,6-Dinitrotoluene | 8.187 | 165 | 41527 | 12.1860 | ng | 67 |
| 65) Acenaphthene | 8.427 | 153 | 159801 | 12.1562 | ng | 96 |

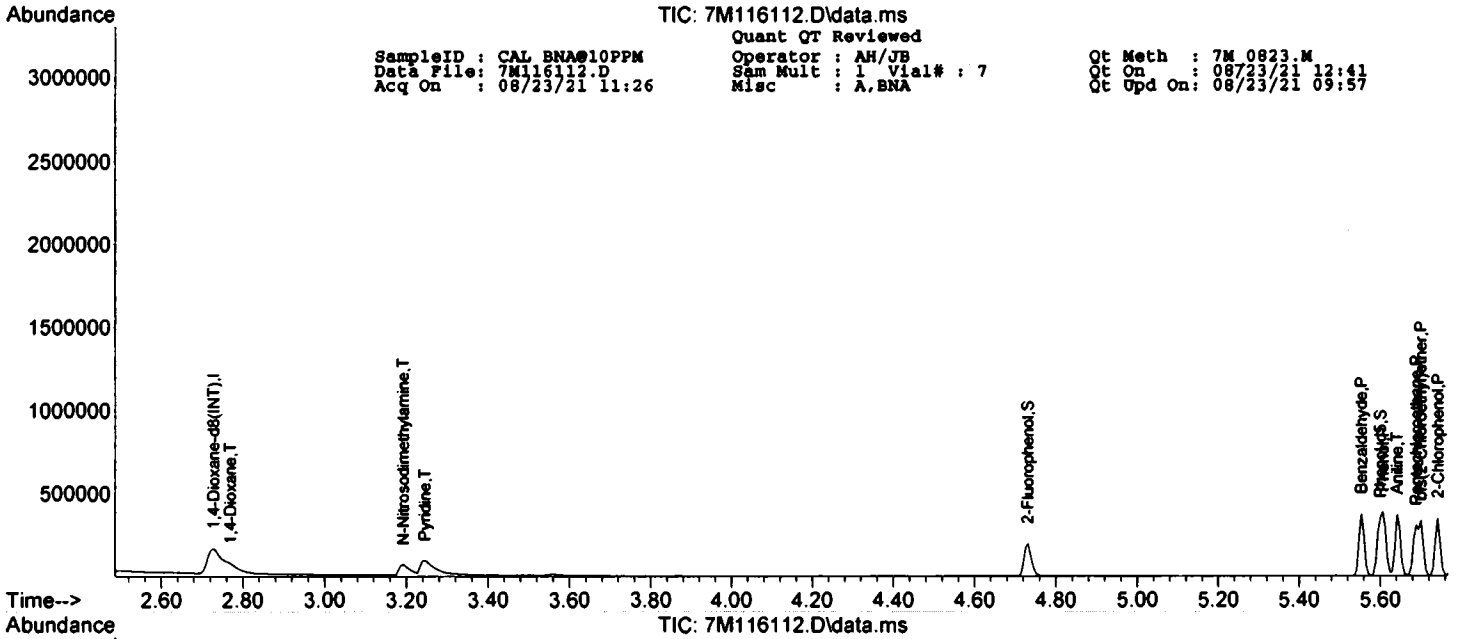
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 7M_0823.M
Data File: 7M116112.D Sam Mult : 1 Vial# : 7 Qt On : 08/23/21 12:41
Acq On : 08/23/21 11:26 Misc : A,BNA Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.345 | 138 | 50350 | 11.8589 | ng | 72 |
| 67) | 2,4-Dinitrophenol | 8.439 | 184 | 11833 | 11.3502 | ng | 22 |
| 68) | Dibenzofuran | 8.586 | 168 | 228231 | 11.8965 | ng | 83 |
| 69) | 2,4-Dinitrotoluene | 8.557 | 165 | 52809 | 10.8112 | ng | 56 |
| 70) | 4-Nitrophenol | 8.469 | 65 | 28024 | 11.0508 | ng | 95 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.692 | 232 | 42802 | 10.6513 | ng | 83 |
| 72) | Fluorene | 8.915 | 166 | 182660 | 12.3650 | ng | 99 |
| 73) | 4-Chlorophenyl-phenyle... | 8.903 | 204 | 83342 | 11.8996 | ng | 84 |
| 74) | Diethylphthalate | 8.774 | 149 | 177793 | 11.9535 | ng | 98 |
| 75) | 4-Nitroaniline | 8.921 | 138 | 52880 | 11.5859 | ng | 65 |
| 76) | Atrazine | 9.556 | 200 | 47401 | 12.0857 | ng | 98 |
| 78) | 4,6-Dinitro-2-methylph... | 8.945 | 198 | 21334 | 11.0767 | ng | 67 |
| 79) | n-Nitrosodiphenylamine | 9.021 | 169 | 160144 | 12.0710 | ng | 98 |
| 81) | 1,2-Diphenylhydrazine | 9.062 | 77 | 201406 | 12.9003 | ng | 85 |
| 82) | 4-Bromophenyl-phenylether | 9.403 | 248 | 49657 | 11.1340 | ng | 82 |
| 83) | Hexachlorobenzene | 9.467 | 284 | 56227 | 11.1923 | ng | 64 |
| 84) | N-Octadecane | 9.738 | 57 | 112711 | 12.9097 | ng | 78 |
| 85) | Pentachlorophenol | 9.673 | 266 | 28988 | 10.2500 | ng | 97 |
| 86) | Phenanthrene | 9.920 | 178 | 259205 | 11.9976 | ng | 98 |
| 87) | Anthracene | 9.973 | 178 | 267529 | 12.1465 | ng | 99 |
| 88) | Carbazole | 10.143 | 167 | 250548 | 11.9289 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.525 | 149 | 292414 | 10.4605 | ng | 97 |
| 90) | Fluoranthene | 11.265 | 202 | 266834 | 11.6743 | ng | 100 |
| 92) | Pyrene | 11.536 | 202 | 282567 | 11.6819 | ng | 95 |
| 93) | Benzidine | 11.424 | 184 | 159046 | 21.8298 | ng | 91 |
| 95) | 4,4'-DDE | 11.653 | 246 | 56295 | 10.7905 | ng | 91 |
| 96) | 4,4'-DDD | 12.053 | 235 | 95540 | 10.9579 | ng | 97 |
| 97) | Butylbenzylphthalate | 12.311 | 149 | 119854 | 9.6840 | ng | 75 |
| 98) | 4,4'-DDT | 12.417 | 235 | 77844 | 12.1362 | ng | 98 |
| 99) | 3,3'-Dichlorobenzidine | 12.946 | 252 | 89345 | 10.0100 | ng | 96 |
| 100) | Benzo[a]anthracene | 12.969 | 228 | 252023 | 10.8796 | ng | 99 |
| 101) | Chrysene | 13.010 | 228 | 260227 | 12.3549 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 13.010 | 149 | 167222 | 10.5024 | ng | 95 |
| 104) | Di-n-octylphthalate | 13.774 | 149 | 251330 | 9.2442 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.203 | 252 | 228449m | 9.6230 | ng | |
| 106) | Benzo[k]fluoranthene | 14.238 | 252 | 273211 | 11.9567 | ng | 96 |
| 107) | Benzo[a]pyrene | 14.591 | 252 | 244128 | 10.5747 | ng | 96 |
| 108) | Indeno[1,2,3-cd]pyrene | 16.095 | 276 | 254465 | 9.8384 | ng | 88 |
| 109) | Dibenzo[a,h]anthracene | 16.124 | 278 | 211898 | 9.7223 | ng | 93 |
| 110) | Benzo[g,h,i]perylene | 16.512 | 276 | 214709 | 9.8515 | ng | 92 |

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


Abundance
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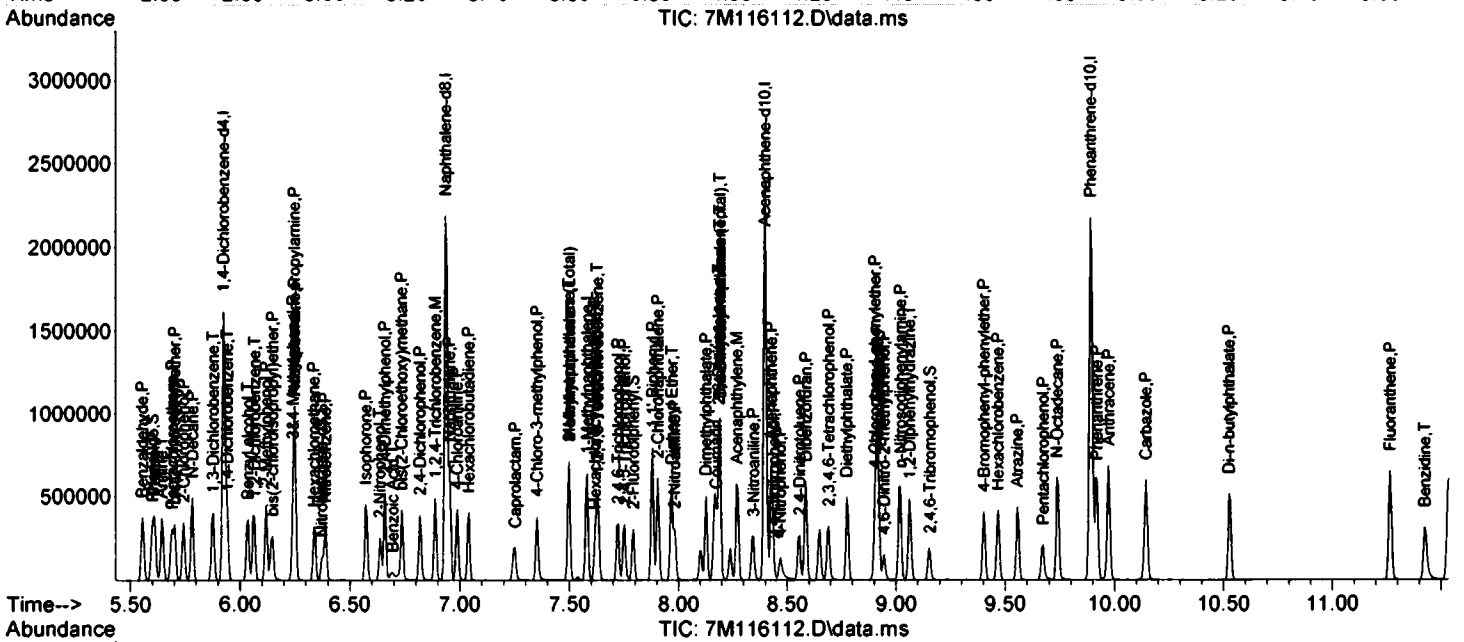
Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 7M116112.D
Acq On : 08/23/21 11:26
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 08/23/21 12:41
Qt Upd On: 08/23/21 09:57
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
TIC: 7M116112.D\data.ms
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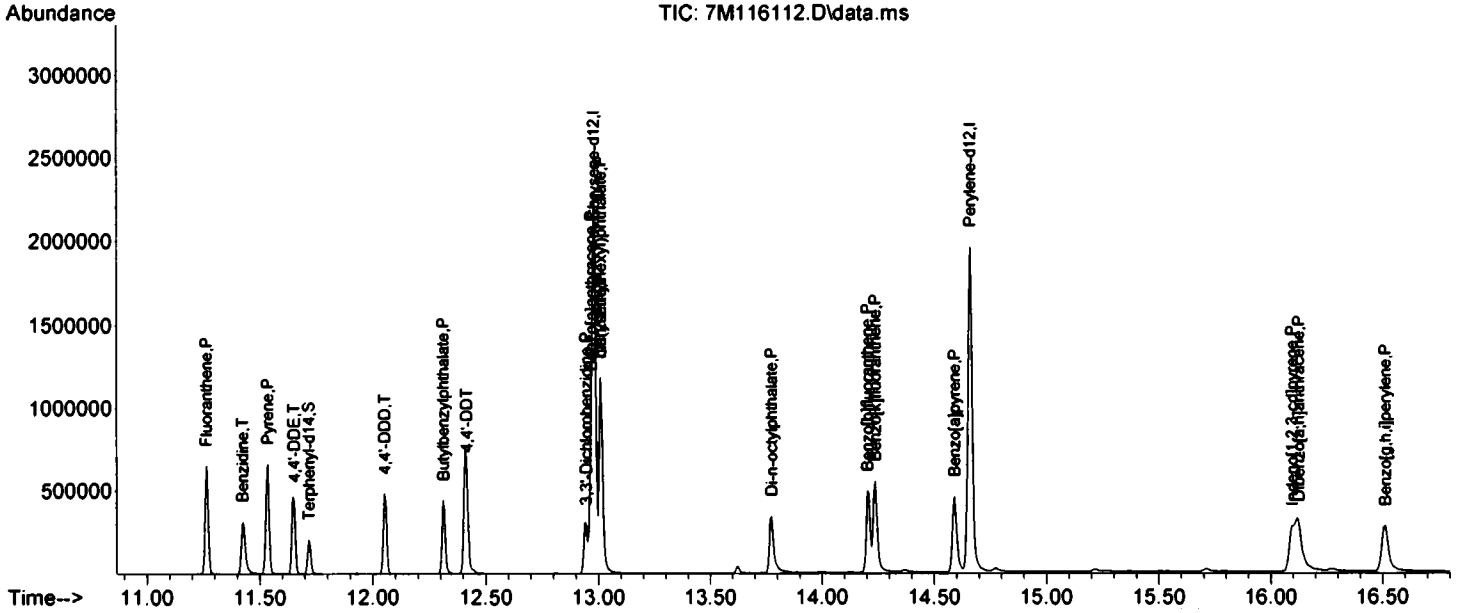
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Acenaphthylene,M
3-Nitroaniline,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->


Abundance
TIC: 7M116112.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo(a)pyrene,P
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116111.D  Sam Mult : 1 Vial# : 6  Qt On : 08/23/21 12:40
Acq On : 08/23/21 11:02  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.722 | 96 | 144844 | 40.00 | ng | -0.02 |
| 21) 1,4-Dichlorobenzene-d4 | 5.925 | 152 | 246828 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.941 | 136 | 989452 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.404 | 164 | 496842 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.896 | 188 | 932186 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.993 | 240 | 824171 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.703 | 264 | 943285 | 40.00 | ng | 0.03 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.732 | 112 | 154421 | 22.23 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 22.23% | | | |
| 16) Phenol-d5 | 5.601 | 99 | 182602 | 22.87 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 22.87% | | | |
| 32) Nitrobenzene-d5 | 6.377 | 128 | 38682 | 11.80 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 23.60% | | | |
| 55) 2-Fluorobiphenyl | 7.793 | 172 | 166030 | 10.83 | ng | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 21.66% | | | |
| 80) 2,4,6-Tribromophenol | 9.156 | 330 | 49911 | 21.04 | ng | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 21.04% | | | |
| 94) Terphenyl-d14 | 11.718 | 244 | 136602 | 10.44 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 20.88% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.763 | 88 | 70621 | 20.6435 | ng | 97 |
| 9) Pyridine | 3.233 | 79 | 160655 | 20.3860 | ng | 68 |
| 10) N-Nitrosodimethylamine | 3.187 | 74 | 110983 | 20.4218 | ng | 70 |
| 12) Benzaldehyde | 5.554 | 77 | 138850 | 31.7756 | ng | 71 |
| 13) Aniline | 5.642 | 93 | 264985 | 24.4671 | ng | 49 |
| 14) Pentachloroethane | 5.689 | 117 | 60673 | 22.7156 | ng | 84 |
| 15) bis(2-Chloroethyl)ether | 5.701 | 93 | 177234 | 22.1758 | ng | 77 |
| 17) Phenol | 5.613 | 94 | 238840 | 23.0167 | ng | 79 |
| 18) 2-Chlorophenol | 5.742 | 128 | 179122 | 23.1107 | ng | 79 |
| 19) N-Decane | 5.784 | 57 | 167498 | 23.7220 | ng | 89 |
| 20) 1,3-Dichlorobenzene | 5.878 | 146 | 189602 | 22.6304 | ng | 97 |
| 22) 1,4-Dichlorobenzene | 5.942 | 146 | 187455 | 21.7589 | ng | 98 |
| 23) 1,2-Dichlorobenzene | 6.066 | 146 | 179416 | 21.6266 | ng | 97 |
| 24) Benzyl alcohol | 6.036 | 108 | 113276 | 21.8654 | ng | 68 |
| 25) bis(2-chloroisopropyl)... | 6.148 | 45 | 196835 | 22.4699 | ng | 96 |
| 26) 2-Methylphenol | 6.118 | 108 | 157512 | 22.3146 | ng | 98 |
| 27) Acetophenone | 6.254 | 105 | 239092 | 25.1224 | ng | 56 |
| 28) Hexachloroethane | 6.342 | 117 | 71335 | 21.8342 | ng | 89 |
| 29) N-Nitroso-di-n-propyla... | 6.248 | 70 | 113280 | 22.4856 | ng | 82 |
| 30) 3&4-Methylphenol | 6.242 | 108 | 165169 | 25.3060 | ng | 96 |
| 33) Nitrobenzene | 6.389 | 77 | 169872 | 22.3202 | ng | 77 |
| 34) Isophorone | 6.577 | 82 | 326010 | 21.8552 | ng | 81 |
| 35) 2-Nitrophenol | 6.641 | 139 | 94992 | 24.7127 | ng | 80 |
| 36) 2,4-Dimethylphenol | 6.659 | 107 | 166354 | 22.9470 | ng | 90 |
| 37) Benzoic Acid | 6.706 | 105 | 90682m | 25.8542 | ng | |
| 38) bis(2-Chloroethoxy)met... | 6.741 | 93 | 204112 | 21.8997 | ng | 96 |
| 39) 2,4-Dichlorophenol | 6.823 | 162 | 138820 | 20.1682 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.894 | 180 | 150115 | 22.1400 | ng | 97 |
| 41) Naphthalene | 6.959 | 128 | 507631 | 22.1529 | ng | 99 |
| 42) 4-Chloroaniline | 6.988 | 127 | 215644m | 27.1994 | ng | |
| 43) Hexachlorobutadiene | 7.041 | 225 | 76969 | 21.5599 | ng | 97 |
| 44) Caprolactam | 7.264 | 113 | 59737 | 21.9081 | ng | 64 |
| 45) 4-Chloro-3-methylphenol | 7.358 | 107 | 142425 | 23.3618 | ng | 73 |
| 46) 2-Methylnaphthalene | 7.499 | 142 | 353210 | 23.0110 | ng | 100 |
| 47) 1-Methylnaphthalene | 7.581 | 142 | 323663 | 22.6026 | ng | 90 |
| 48) Methylnaphthalenes (To... | 7.499 | 142 | 676806m | 45.5768 | ng | |
| 49) 1,1'-Biphenyl | 7.887 | 154 | 452281 | 23.4602 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.634 | 216 | 147595 | 22.6271 | ng | 99 |
| 52) Hexachlorocyclopentadiene | 7.623 | 237 | 77144 | 21.1522 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.722 | 196 | 97440 | 20.1430 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.758 | 196 | 106934 | 19.9281 | ng | 100 |
| 56) 2-Chloronaphthalene | 7.910 | 162 | 316521 | 22.2525 | ng | 90 |
| 57) 1,4-Dimethylnaphthalene | 8.198 | 156 | 276851 | 23.5447 | ng | 82 |
| 58) Dimethylnaphthalenes (... | 8.198 | 156 | 276851 | 23.5447 | ng | 82 |
| 59) Diphenyl Ether | 7.969 | 170 | 225162 | 23.0284 | ng | 78 |
| 60) 2-Nitroaniline | 7.987 | 65 | 101397 | 21.3949 | ng | 41 |
| 61) Coumarin | 8.181 | 146 | 146411 | 24.3515 | ng | 87 |
| 62) Acenaphthylene | 8.275 | 152 | 503837 | 22.6301 | ng | 99 |
| 63) Dimethylphthalate | 8.134 | 163 | 353813 | 22.1681 | ng | 99 |
| 64) 2,6-Dinitrotoluene | 8.192 | 165 | 80729 | 22.6371 | ng | 64 |
| 65) Acenaphthene | 8.433 | 153 | 308935 | 22.1123 | ng | 97 |

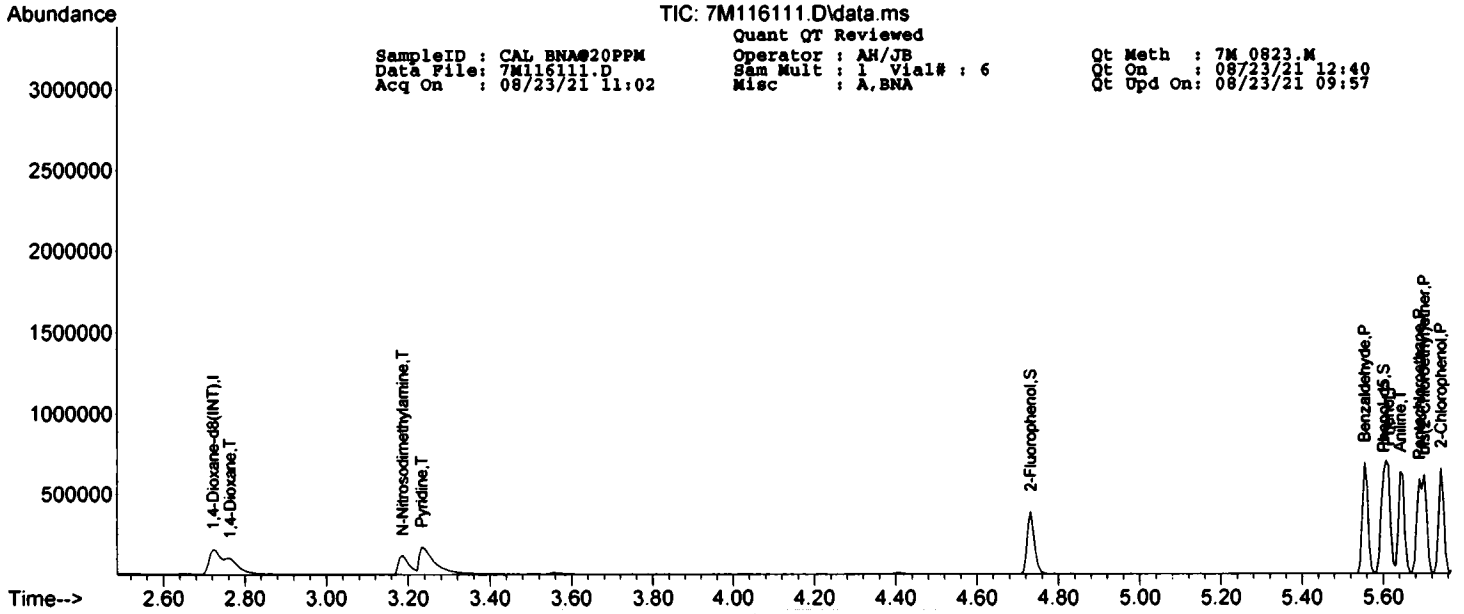
Quantitation Report (QT Reviewed)

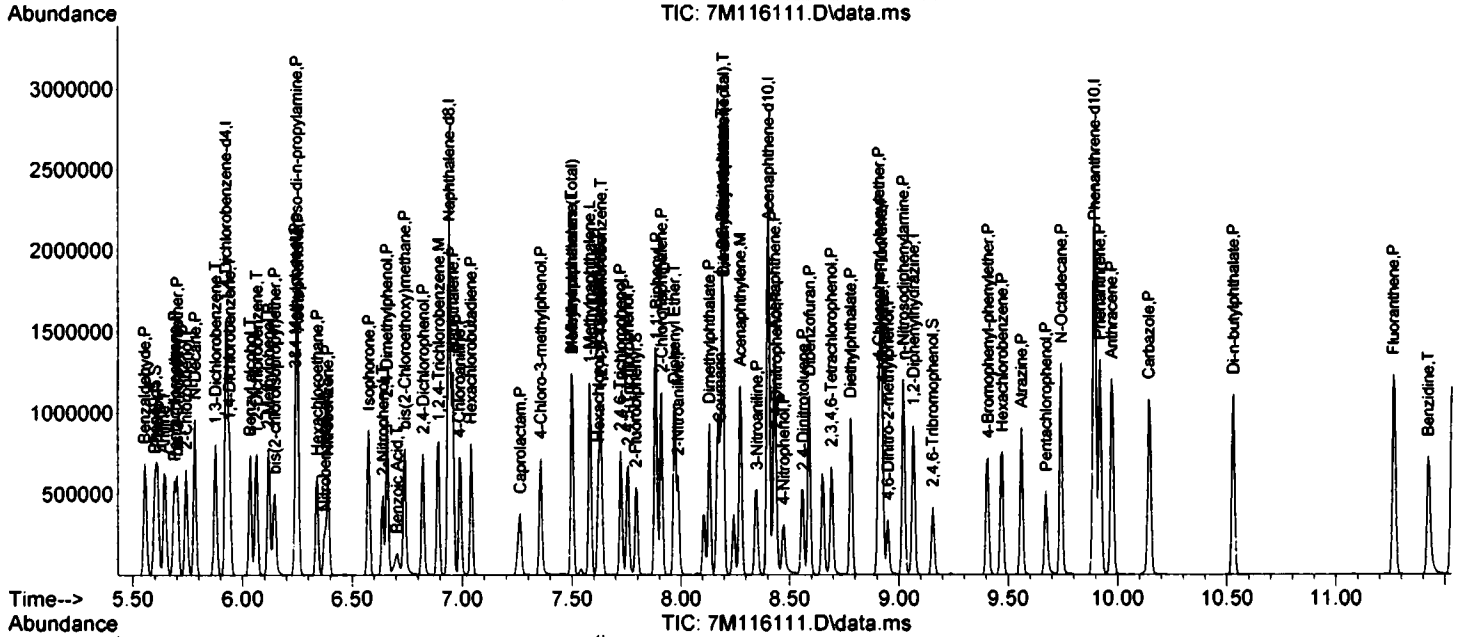
SampleID : CAL BNA@20PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116111.D  Sam Mult : 1  Vial# : 6  Qt On : 08/23/21 12:40
Acq On : 08/23/21 11:02  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

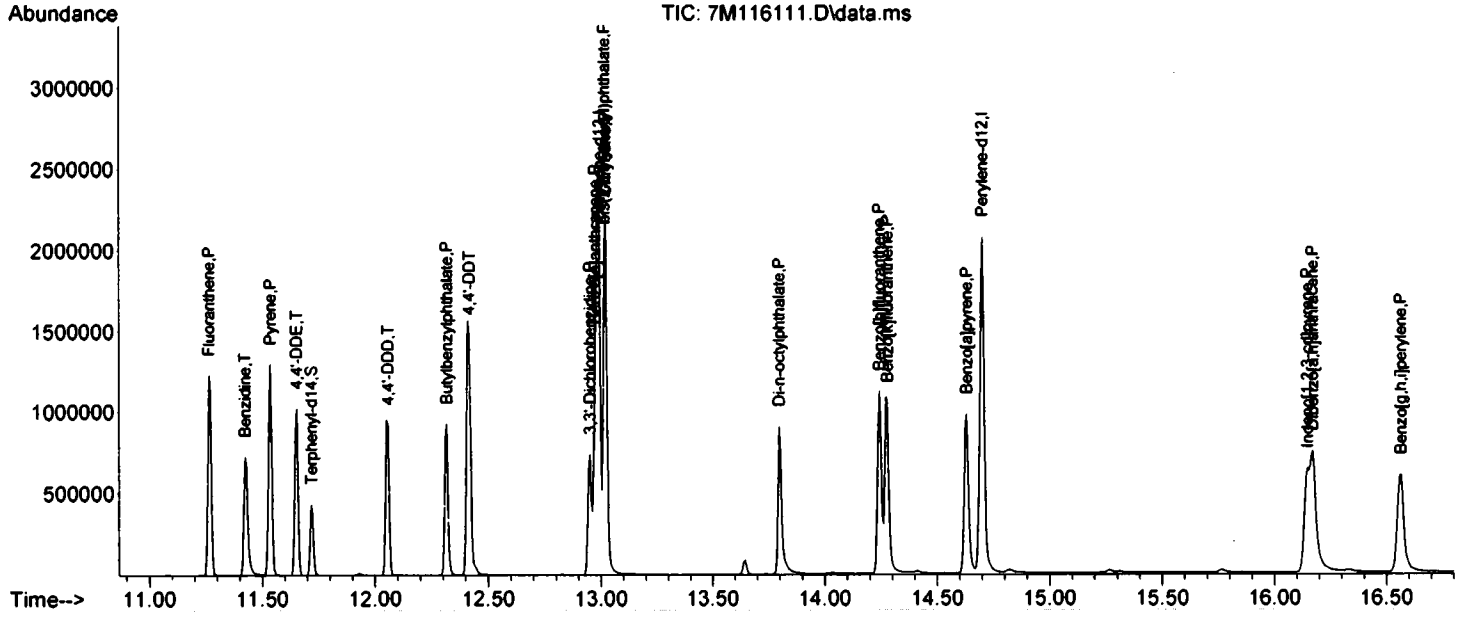
Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.351 | 138 | 100733 | 22.5923 | ng | 71 |
| 67) | 2,4-Dinitrophenol | 8.439 | 184 | 33177 | 29.2358 | ng | 56 |
| 68) | Dibenzofuran | 8.592 | 168 | 449979 | 22.0691 | ng | 82 |
| 69) | 2,4-Dinitrotoluene | 8.563 | 165 | 111595 | 21.5737 | ng | 53 |
| 70) | 4-Nitrophenol | 8.475 | 65 | 59833 | 22.1269 | ng | 94 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.692 | 232 | 87310 | 20.5157 | ng | 84 |
| 72) | Fluorene | 8.921 | 166 | 360741 | 22.9771 | ng | 98 |
| 73) | 4-Chlorophenyl-phenyle... | 8.909 | 204 | 167440 | 22.4945 | ng | 81 |
| 74) | Diethylphthalate | 8.780 | 149 | 352216 | 22.2810 | ng | 97 |
| 75) | 4-Nitroaniline | 8.927 | 138 | 102433 | 21.1915 | ng | 66 |
| 76) | Atrazine | 9.562 | 200 | 98882 | 23.7219 | ng | 94 |
| 78) | 4,6-Dinitro-2-methylph... | 8.950 | 198 | 52345 | 25.4351 | ng | 69 |
| 79) | n-Nitrosodiphenylamine | 9.021 | 169 | 317557 | 22.2725 | ng | 98 |
| 81) | 1,2-Diphenylhydrazine | 9.068 | 77 | 348519 | 20.7715 | ng | 80 |
| 82) | 4-Bromophenyl-phenylether | 9.409 | 248 | 100090 | 20.8822 | ng | 80 |
| 83) | Hexachlorobenzene | 9.473 | 284 | 114275 | 21.1660 | ng | 59 |
| 84) | N-Octadecane | 9.744 | 57 | 214439 | 22.8543 | ng | 70 |
| 85) | Pentachlorophenol | 9.673 | 266 | 67506 | 22.1389 | ng | 97 |
| 86) | Phenanthrene | 9.920 | 178 | 512943 | 22.0920 | ng | 99 |
| 87) | Anthracene | 9.973 | 178 | 527467 | 22.2838 | ng | 99 |
| 88) | Carbazole | 10.143 | 167 | 500462 | 22.1714 | ng | 98 |
| 89) | Di-n-butylphthalate | 10.531 | 149 | 604486 | 20.3822 | ng | 96 |
| 90) | Fluoranthene | 11.265 | 202 | 540451 | 22.0018 | ng | 100 |
| 92) | Pyrene | 11.536 | 202 | 557213 | 21.4380 | ng | 95 |
| 93) | Benzidine | 11.424 | 184 | 347475 | 44.3835 | ng | 92 |
| 95) | 4,4'-DDE | 11.653 | 246 | 116527 | 20.7859 | ng | 90 |
| 96) | 4,4'-DDD | 12.059 | 235 | 203229 | 21.6920 | ng | 97 |
| 97) | Butylbenzylphthalate | 12.317 | 149 | 254706 | 19.2682 | ng | 69 |
| 98) | 4,4'-DDT | 12.417 | 235 | 167092 | 24.3945 | ng | 98 |
| 99) | 3,3'-Dichlorobenzidine | 12.952 | 252 | 197691 | 20.8513 | ng | 97 |
| 100) | Benzo[a]anthracene | 12.975 | 228 | 510794 | 20.5206 | ng | 99 |
| 101) | Chrysene | 13.022 | 228 | 512514 | 22.6445 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 13.016 | 149 | 346100 | 20.4344 | ng | 94 |
| 104) | Di-n-octylphthalate | 13.798 | 149 | 564231 | 19.5255 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 14.244 | 252 | 510468 | 20.1688 | ng | 96 |
| 106) | Benzo[k]fluoranthene | 14.280 | 252 | 515902m | 21.1774 | ng | |
| 107) | Benzo[a]pyrene | 14.632 | 252 | 514559 | 20.9062 | ng | 94 |
| 108) | Indeno[1,2,3-cd]pyrene | 16.148 | 276 | 539811 | 19.5761 | ng | 88 |
| 109) | Dibenzo[a,h]anthracene | 16.172 | 278 | 458173 | 19.7179 | ng | 94 |
| 110) | Benzo[g,h,i]perylene | 16.565 | 276 | 448735 | 19.3122 | ng | 93 |

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


Abundance
TIC: 7M116111.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 7M116111.D
Acq On : 08/23/21 11:02
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 08/23/21 12:40
Qt Upd On: 08/23/21 09:57
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
TIC: 7M116111.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
3-Nitroaniline,P
Diethylphthalate,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->


Abundance
TIC: 7M116111.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116110.D  Sam Mult : 1  Vial# : 5  Qt On : 08/23/21 12:39
Acq On : 08/23/21 10:38  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.722 | 96 | 139070 | 40.00 | ng | -0.02 |
| 21) 1,4-Dichlorobenzene-d4 | 5.930 | 152 | 234788 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.941 | 136 | 955604 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.404 | 164 | 488950 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.896 | 188 | 932303 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.993 | 240 | 801142 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.679 | 264 | 945636 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.738 | 112 | 583882 | 87.54 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 87.54% | | | |
| 16) Phenol-d5 | 5.607 | 99 | 664124 | 86.62 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 86.62% | | | |
| 32) Nitrobenzene-d5 | 6.377 | 128 | 142909 | 45.13 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 90.26% | | | |
| 55) 2-Fluorobiphenyl | 7.799 | 172 | 610921 | 40.50 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 81.00% | | | |
| 80) 2,4,6-Tribromophenol | 9.162 | 330 | 203466 | 89.23 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 89.23% | | | |
| 94) Terphenyl-d14 | 11.724 | 244 | 537191 | 42.23 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 84.46% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.763 | 88 | 263265 | 80.1513 | ng | 97 |
| 9) Pyridine | 3.233 | 79 | 608921 | 80.4757 | ng | 66 |
| 10) N-Nitrosodimethylamine | 3.186 | 74 | 423912 | 81.2419 | ng | 69 |
| 12) Benzaldehyde | 5.560 | 77 | 506392 | 120.6985 | ng | 72 |
| 13) Aniline | 5.648 | 93 | 919366 | 88.4131 | ng | 46 |
| 14) Pentachloroethane | 5.689 | 117 | 215127 | 83.8861 | ng | 82 |
| 15) bis(2-Chloroethyl)ether | 5.707 | 93 | 594250 | 77.4406 | ng | 76 |
| 17) Phenol | 5.619 | 94 | 825741 | 82.8793 | ng | 81 |
| 18) 2-Chlorophenol | 5.748 | 128 | 635702 | 85.4248 | ng | 77 |
| 19) N-Decane | 5.783 | 57 | 534045 | 78.7748 | ng | 87 |
| 20) 1,3-Dichlorobenzene | 5.878 | 146 | 657625 | 81.7514 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.942 | 146 | 647705 | 79.0381 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 6.066 | 146 | 626151 | 79.3458 | ng | 97 |
| 24) Benzyl alcohol | 6.042 | 108 | 408854 | 82.9672 | ng | 67 |
| 25) bis(2-chloroisopropyl)... | 6.148 | 45 | 634468 | 76.1424 | ng | 98 |
| 26) 2-Methylphenol | 6.124 | 108 | 551434 | 82.1275 | ng | 97 |
| 27) Acetophenone | 6.259 | 105 | 724288 | 80.0066 | ng | 59 |
| 28) Hexachloroethane | 6.342 | 117 | 252846 | 81.3595 | ng | 85 |
| 29) N-Nitroso-di-n-propyla... | 6.259 | 70 | 347442 | 72.5024 | ng | 84 |
| 30) 3&4-Methylphenol | 6.254 | 108 | 506681 | 81.6110 | ng | 100 |
| 33) Nitrobenzene | 6.395 | 77 | 592342 | 80.5872 | ng | 73 |
| 34) Isophorone | 6.583 | 82 | 1113563 | 77.2959 | ng | 79 |
| 35) 2-Nitrophenol | 6.641 | 139 | 361048 | 104.6239 | ng | 81 |
| 36) 2,4-Dimethylphenol | 6.665 | 107 | 577917 | 82.5421 | ng | 91 |
| 37) Benzoic Acid | 6.753 | 105 | 446785 | 125.8174 | ng | 41 |
| 38) bis(2-Chloroethoxy)met... | 6.747 | 93 | 677195 | 75.2314 | ng | 95 |
| 39) 2,4-Dichlorophenol | 6.829 | 162 | 506101 | 80.2249 | ng | 86 |
| 40) 1,2,4-Trichlorobenzene | 6.894 | 180 | 529920 | 80.9246 | ng | 98 |
| 41) Naphthalene | 6.959 | 128 | 1686203 | 76.1920 | ng | 97 |
| 42) 4-Chloroaniline | 6.994 | 127 | 748890m | 97.8041 | ng | |
| 43) Hexachlorobutadiene | 7.047 | 225 | 284548 | 82.5285 | ng | 97 |
| 44) Caprolactam | 7.299 | 113 | 225970 | 83.8397 | ng | 60 |
| 45) 4-Chloro-3-methylphenol | 7.364 | 107 | 519942 | 88.3064 | ng | 73 |
| 46) 2-Methylnaphthalene | 7.505 | 142 | 1189336 | 80.2277 | ng | 99 |
| 47) 1-Methylnaphthalene | 7.587 | 142 | 1109189 | 80.2023 | ng | 90 |
| 48) Methylnaphthalenes (To... | 7.505 | 142 | 2298044m | 160.2339 | ng | |
| 49) 1,1'-Biphenyl | 7.887 | 154 | 1515689 | 81.4047 | ng | 93 |
| 51) 1,2,4,5-Tetrachloroben... | 7.640 | 216 | 537041 | 83.6602 | ng | 99 |
| 52) Hexachlorocyclopentadiene | 7.628 | 237 | 319779 | 89.6520 | ng | 98 |
| 53) 2,4,6-Trichlorophenol | 7.728 | 196 | 406923 | 89.6292 | ng | 100 |
| 54) 2,4,5-Trichlorophenol | 7.764 | 196 | 376670 | 75.0246 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.916 | 162 | 1097998 | 78.4389 | ng | 90 |
| 57) 1,4-Dimethylnaphthalene | 8.204 | 156 | 862466 | 74.5321 | ng | 84 |
| 58) Dimethylnaphthalenes (... | 8.204 | 156 | 862466 | 74.5321 | ng | 84 |
| 59) Diphenyl Ether | 7.975 | 170 | 794517 | 82.5708 | ng | 74 |
| 60) 2-Nitroaniline | 7.993 | 65 | 365269 | 82.2452 | ng | 41 |
| 61) Coumarin | 8.192 | 146 | 483579 | 81.7286 | ng | 88 |
| 62) Acenaphthylene | 8.281 | 152 | 1720842 | 78.5401 | ng | 98 |
| 63) Dimethylphthalate | 8.145 | 163 | 1248349 | 79.4775 | ng | 98 |
| 64) 2,6-Dinitrotoluene | 8.204 | 165 | 264423 | 82.7576 | ng | 58 |
| 65) Acenaphthene | 8.439 | 153 | 1070659 | 77.8704 | ng | 98 |

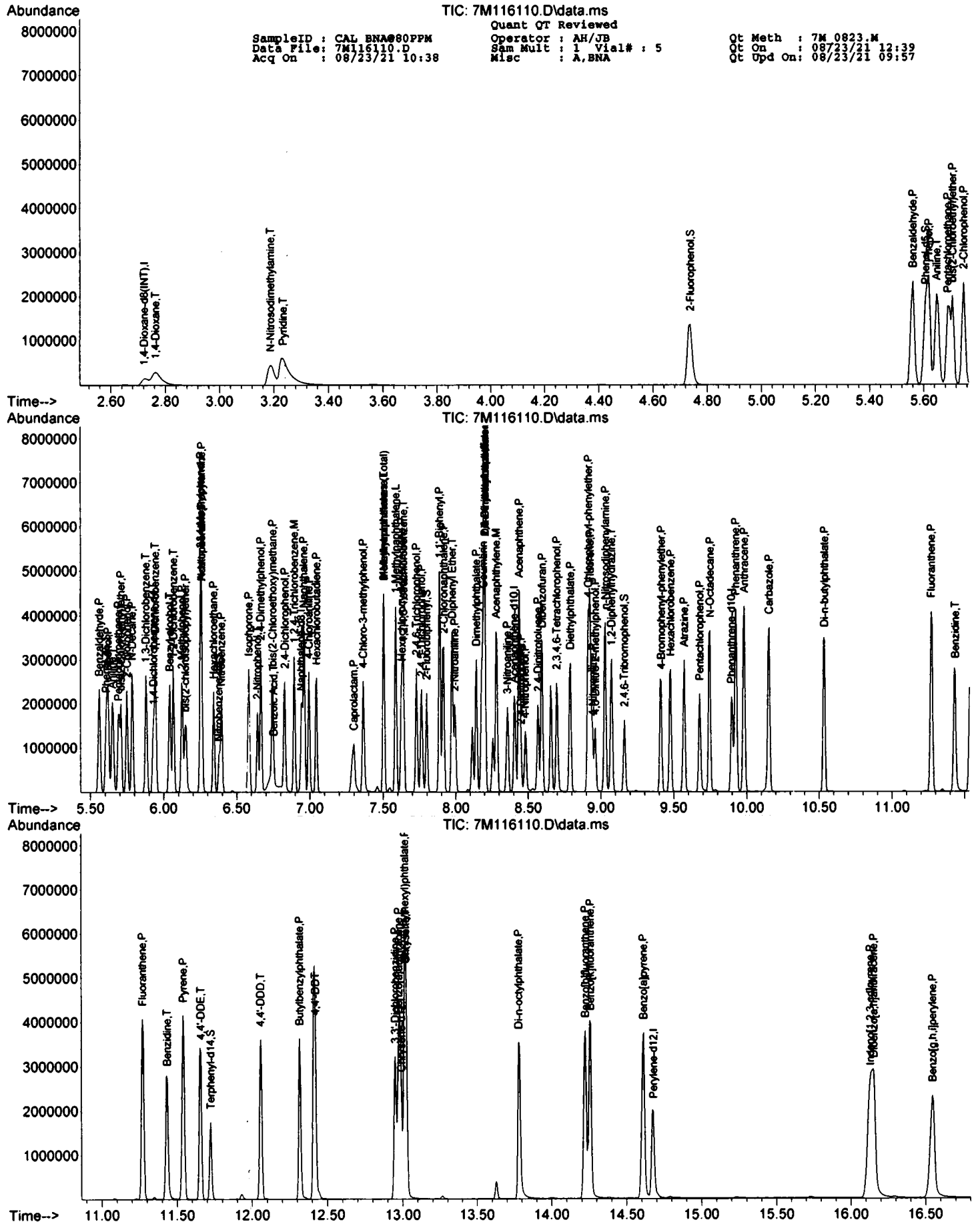
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116110.D  Sam Mult : 1  Vial# : 5  Qt On : 08/23/21 12:39
Acq On : 08/23/21 10:38  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.357 | 138 | 367664 | 90.7226 | ng | 73 |
| 67) | 2,4-Dinitrophenol | 8.451 | 184 | 177204 | 138.6457 | ng | 30 |
| 68) | Dibenzofuran | 8.598 | 168 | 1540486 | 76.7721 | ng | 84 |
| 69) | 2,4-Dinitrotoluene | 8.569 | 165 | 424957 | 85.3023 | ng | 58 |
| 70) | 4-Nitrophenol | 8.480 | 65 | 235970 | 86.9958 | ng | 93 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.698 | 232 | 348487 | 85.1882 | ng | 82 |
| 72) | Fluorene | 8.927 | 166 | 1219010 | 78.8970 | ng | 100 |
| 73) | 4-Chlorophenyl-phenyle... | 8.915 | 204 | 602316 | 82.2233 | ng | 81 |
| 74) | Diethylphthalate | 8.792 | 149 | 1260630 | 81.0341 | ng | 95 |
| 75) | 4-Nitroaniline | 8.945 | 138 | 377066 | 81.0551 | ng | 66 |
| 76) | Atrazine | 9.573 | 200 | 377471 | 92.0172 | ng | 95 |
| 78) | 4,6-Dinitro-2-methylph... | 8.962 | 198 | 238351 | 120.4129 | ng | 70 |
| 79) | n-Nitrosodiphenylamine | 9.033 | 169 | 1120804 | 78.5999 | ng | 99 |
| 81) | 1,2-Diphenylhydrazine | 9.074 | 77 | 1300091 | 77.4748 | ng | 75 |
| 82) | 4-Bromophenyl-phenylether | 9.415 | 248 | 396588 | 82.7315 | ng | 77 |
| 83) | Hexachlorobenzene | 9.479 | 284 | 453209 | 83.9327 | ng | 57 |
| 84) | N-Octadecane | 9.749 | 57 | 689872 | 73.5154 | ng | 67 |
| 85) | Pentachlorophenol | 9.679 | 266 | 300814 | 96.6838 | ng | 97 |
| 86) | Phenanthrene | 9.926 | 178 | 1813963 | 78.1161 | ng | 99 |
| 87) | Anthracene | 9.985 | 178 | 1857848 | 78.4784 | ng | 99 |
| 88) | Carbazole | 10.155 | 167 | 1786536 | 79.1370 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.537 | 149 | 2158424 | 78.7841 | ng | 97 |
| 90) | Fluoranthene | 11.271 | 202 | 1970555 | 80.2114 | ng | 98 |
| 92) | Pyrene | 11.542 | 202 | 1999996 | 79.1590 | ng | 93 |
| 93) | Benzidine | 11.436 | 184 | 1335638 | 175.5072 | ng | 88 |
| 95) | 4,4'-DDE | 11.659 | 246 | 449627 | 82.5090 | ng | 89 |
| 96) | 4,4'-DDD | 12.059 | 235 | 787167 | 86.4349 | ng | 95 |
| 97) | Butylbenzylphthalate | 12.317 | 149 | 976981 | 79.0240 | ng | 71 |
| 98) | 4,4'-DDT | 12.423 | 235 | 633781 | 98.9536 | ng | 97 |
| 99) | 3,3'-Dichlorobenzidine | 12.952 | 252 | 796027 | 93.6762 | ng | 96 |
| 100) | Benzo[a]anthracene | 12.975 | 228 | 1897597 | 78.4252 | ng | 98 |
| 101) | Chrysene | 13.022 | 228 | 1733996 | 78.8156 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 13.016 | 149 | 1223496 | 79.0598 | ng | 89 |
| 104) | Di-n-octylphthalate | 13.780 | 149 | 2308797 | 81.1921 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 14.227 | 252 | 2085675 | 82.2010 | ng | 95 |
| 106) | Benzo[k]fluoranthene | 14.262 | 252 | 2012422 | 82.4029 | ng | 93 |
| 107) | Benzo[a]pyrene | 14.614 | 252 | 1969263 | 79.8108 | ng | 94 |
| 108) | Indeno[1,2,3-cd]pyrene | 16.130 | 276 | 2241537 | 81.0866 | ng | 86 |
| 109) | Dibenzo[a,h]anthracene | 16.154 | 278 | 1887467 | 81.0269 | ng | 90 |
| 110) | Benzo[g,h,i]perylene | 16.548 | 276 | 1861163 | 79.8996 | ng | 94 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL BNA@80PPM
Data File: 7M116110.D
Acq On : 08/23/21 10:38
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 08723/21 12:39
Qt Upd On: 08/23/21 09:57
Abundance
Time-->
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
TIC: 7M116110.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthene,P
3-Nitroaniline,P
2,4-Dinitrophenol,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
TIC: 7M116110.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(b)fluoranthene,P
Benzo(k)fluoranthene,P
Benzo(a)pyrene,P
Perylene-d12,I
Indeno(1,2,3-cd)pyrene,P
Dibenz(a,h)anthracene,P
Benzo(g,h,i)perylene,P

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 7M_0823.M
Data File: 7M116109.D Sam Mult : 1 Vial# : 4 Qt On : 08/23/21 12:37
Acq On : 08/23/21 10:14 Misc : A,BNA Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.722 | 96 | 137798 | 40.00 | ng | -0.02 |
| 21) 1,4-Dichlorobenzene-d4 | 5.930 | 152 | 229740 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.947 | 136 | 943314 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.410 | 164 | 483662 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.902 | 188 | 922079 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.993 | 240 | 792371 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.673 | 264 | 935861 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.738 | 112 | 832336 | 125.94 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 125.94% | | | |
| 16) Phenol-d5 | 5.613 | 99 | 919040 | 120.97 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 120.97% | | | |
| 32) Nitrobenzene-d5 | 6.383 | 128 | 205744 | 65.83 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 131.66% | | | |
| 55) 2-Fluorobiphenyl | 7.799 | 172 | 867110 | 58.12 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 116.24% | | | |
| 80) 2,4,6-Tribromophenol | 9.168 | 330 | 293847 | 133.81 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 133.81% | | | |
| 94) Terphenyl-d14 | 11.724 | 244 | 765241 | 60.83 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 121.66% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.763 | 88 | 378741 | 116.3724 | ng | 96 |
| 9) Pyridine | 3.228 | 79 | 861917 | 114.9635 | ng | 66 |
| 10) N-Nitrosodimethylamine | 3.192 | 74 | 605363 | 117.0876 | ng | 67 |
| 12) Benzaldehyde | 5.560 | 77 | 710484 | 170.9070 | ng | 73 |
| 13) Aniline | 5.654 | 93 | 1279879 | 124.2190 | ng | 48 |
| 14) Pentachloroethane | 5.690 | 117 | 298638 | 117.5251 | ng | 82 |
| 15) bis(2-Chloroethyl)ether | 5.713 | 93 | 789436 | 103.8262 | ng | 74 |
| 17) Phenol | 5.625 | 94 | 1121898 | 113.6439 | ng | 82 |
| 18) 2-Chlorophenol | 5.754 | 128 | 886145 | 120.1783 | ng | 75 |
| 19) N-Decane | 5.789 | 57 | 717995 | 106.8861 | ng | 85 |
| 20) 1,3-Dichlorobenzene | 5.883 | 146 | 901470 | 113.0990 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.942 | 146 | 898299 | 112.0261 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 6.066 | 146 | 860271 | 111.4088 | ng | 98 |
| 24) Benzyl alcohol | 6.042 | 108 | 562029 | 116.5564 | ng | 70 |
| 25) bis(2-chloroisopropyl)... | 6.154 | 45 | 858322 | 105.2704 | ng | 97 |
| 26) 2-Methylphenol | 6.130 | 108 | 773598 | 117.7469 | ng | 97 |
| 27) Acetophenone | 6.259 | 105 | 922355 | 104.1243 | ng | 73 |
| 28) Hexachloroethane | 6.342 | 117 | 345623 | 113.6565 | ng | 86 |
| 29) N-Nitroso-di-n-propyla... | 6.265 | 70 | 456846 | 97.4270 | ng | 81 |
| 30) 3&4-Methylphenol | 6.254 | 108 | 650686 | 107.1087 | ng | 96 |
| 33) Nitrobenzene | 6.400 | 77 | 810945 | 111.7652 | ng | 69 |
| 34) Isophorone | 6.588 | 82 | 1550846 | 109.0515 | ng | 77 |
| 35) 2-Nitrophenol | 6.647 | 139 | 508550 | 157.1035 | ng | 77 |
| 36) 2,4-Dimethylphenol | 6.671 | 107 | 788944 | 114.1506 | ng | 87 |
| 37) Benzoic Acid | 6.771 | 105 | 672194 | 186.5397 | ng | 41 |
| 38) bis(2-Chloroethoxy)met... | 6.747 | 93 | 932728 | 104.9693 | ng | 95 |
| 39) 2,4-Dichlorophenol | 6.829 | 162 | 705158 | 117.0998 | ng | 89 |
| 40) 1,2,4-Trichlorobenzene | 6.894 | 180 | 730695 | 113.0389 | ng | 98 |
| 41) Naphthalene | 6.965 | 128 | 2266261 | 103.7364 | ng | 97 |
| 42) 4-Chloroaniline | 7.000 | 127 | 1015433m | 134.3421 | ng | |
| 43) Hexachlorobutadiene | 7.047 | 225 | 392808 | 115.4119 | ng | 97 |
| 44) Caprolactam | 7.317 | 113 | 341549 | 126.3813 | ng | 58 |
| 45) 4-Chloro-3-methylphenol | 7.370 | 107 | 725204 | 124.7725 | ng | 71 |
| 46) 2-Methylnaphthalene | 7.505 | 142 | 1599476 | 109.2998 | ng | 99 |
| 47) 1-Methylnaphthalene | 7.587 | 142 | 1479804 | 108.3945 | ng | 90 |
| 48) Methylnaphthalenes (To... | 7.505 | 142 | 3079167m | 217.4959 | ng | |
| 49) 1,1'-Biphenyl | 7.893 | 154 | 2014128 | 109.5843 | ng | 92 |
| 51) 1,2,4,5-Tetrachloroben... | 7.640 | 216 | 734017 | 115.5953 | ng | 99 |
| 52) Hexachlorocyclopentadiene | 7.628 | 237 | 458839 | 130.5309 | ng | 97 |
| 53) 2,4,6-Trichlorophenol | 7.728 | 196 | 527849 | 120.0926 | ng | 100 |
| 54) 2,4,5-Trichlorophenol | 7.764 | 196 | 580391 | 122.3032 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.916 | 162 | 1483669 | 107.1493 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.204 | 156 | 1085290 | 94.8134 | ng | 88 |
| 58) Dimethylnaphthalenes (... | 8.204 | 156 | 1085290 | 94.8134 | ng | 88 |
| 59) Diphenyl Ether | 7.975 | 170 | 1081902 | 113.6668 | ng | 76 |
| 60) 2-Nitroaniline | 7.999 | 65 | 502553 | 117.8534 | ng | 34 |
| 61) Coumarin | 8.198 | 146 | 601287 | 102.7332 | ng | 87 |
| 62) Acenaphthylene | 8.287 | 152 | 2318713 | 106.9843 | ng | 97 |
| 63) Dimethylphthalate | 8.151 | 163 | 1711858 | 110.1789 | ng | 97 |
| 64) 2,6-Dinitrotoluene | 8.210 | 165 | 342014 | 114.0548 | ng | 57 |
| 65) Acenaphthene | 8.439 | 153 | 1431076 | 105.2220 | ng | 97 |

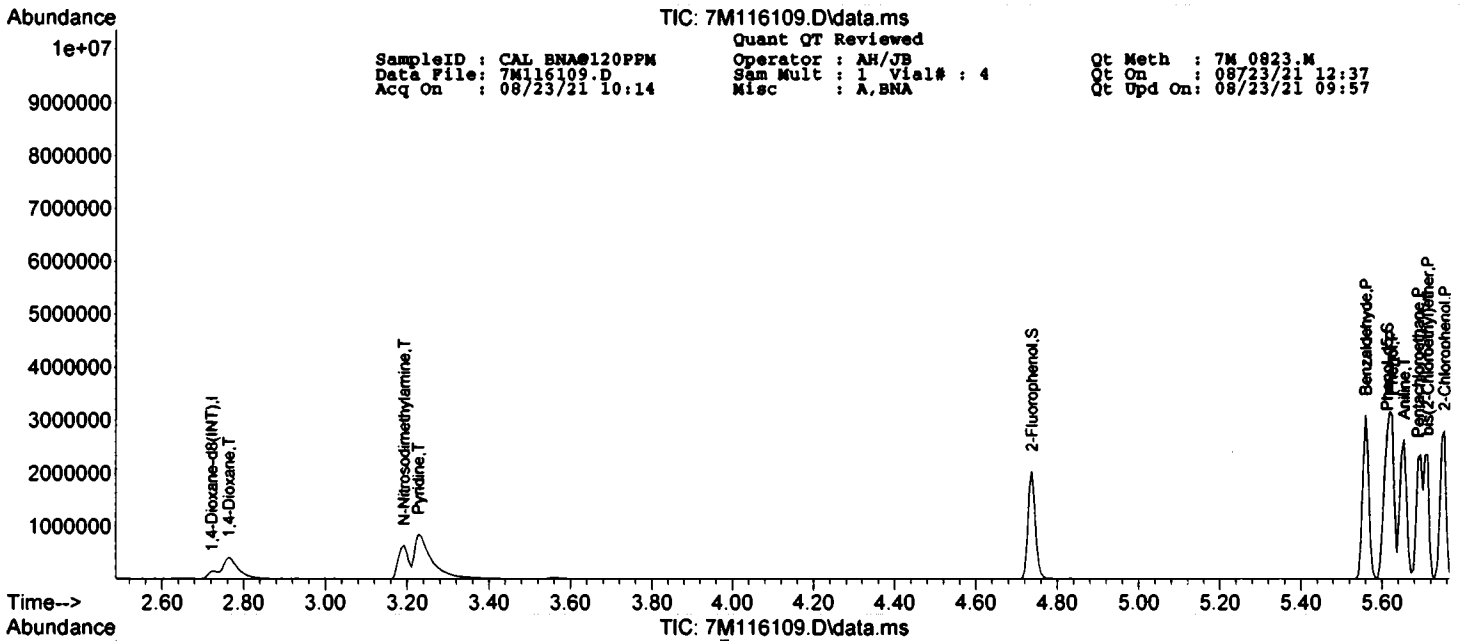
Quantitation Report (QT Reviewed)

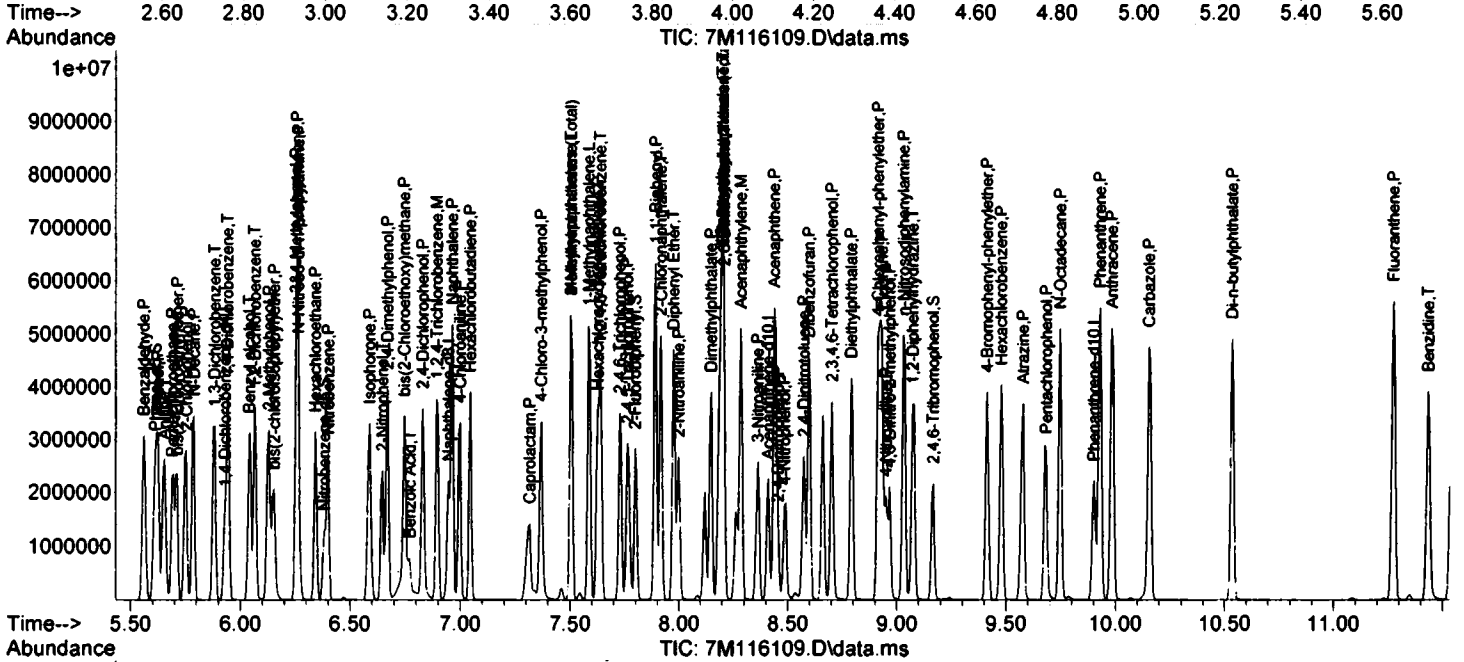
SampleID : CAL BNA@120PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116109.D  Sam Mult : 1  Vial# : 4  Qt On : 08/23/21 12:37
Acq On : 08/23/21 10:14  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

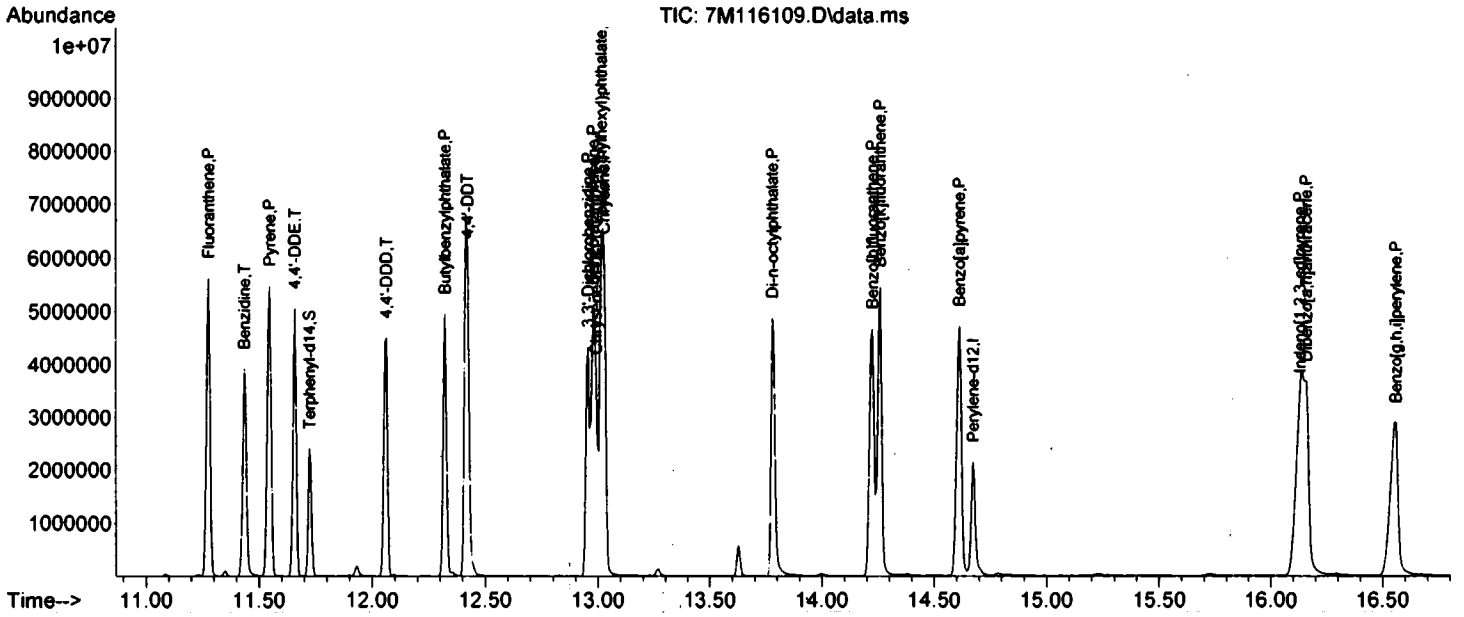
Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.363 | 138 | 517312 | 136.6702 | ng | 71 |
| 67) | 2,4-Dinitrophenol | 8.457 | 184 | 267889 | 198.2560 | ng | 27 |
| 68) | Dibenzofuran | 8.598 | 168 | 2076352 | 104.6090 | ng | 88 |
| 69) | 2,4-Dinitrotoluene | 8.574 | 165 | 605381 | 124.5212 | ng | 57 |
| 70) | 4-Nitrophenol | 8.486 | 65 | 339627 | 125.1865 | ng | 94 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.704 | 232 | 493487 | 123.7065 | ng | 82 |
| 72) | Fluorene | 8.933 | 166 | 1625337 | 106.3455 | ng | 99 |
| 73) | 4-Chlorophenyl-phenyle... | 8.915 | 204 | 814264 | 112.3720 | ng | 84 |
| 74) | Diethylphthalate | 8.792 | 149 | 1723761 | 112.0159 | ng | 94 |
| 75) | 4-Nitroaniline | 8.950 | 138 | 538074 | 118.6087 | ng | 66 |
| 76) | Atrazine | 9.579 | 200 | 536915 | 132.3163 | ng | 94 |
| 78) | 4,6-Dinitro-2-methylph... | 8.968 | 198 | 343492 | 179.9429 | ng | 69 |
| 79) | n-Nitrosodiphenylamine | 9.033 | 169 | 1526107 | 108.2097 | ng | 99 |
| 81) | 1,2-Diphenylhydrazine | 9.074 | 77 | 1753578 | 105.6576 | ng | 77 |
| 82) | 4-Bromophenyl-phenylether | 9.415 | 248 | 562316 | 118.6044 | ng | 80 |
| 83) | Hexachlorobenzene | 9.479 | 284 | 629622 | 117.8967 | ng | 60 |
| 84) | N-Octadecane | 9.750 | 57 | 910506 | 98.1029 | ng | 65 |
| 85) | Pentachlorophenol | 9.685 | 266 | 429795 | 138.1464 | ng | 96 |
| 86) | Phenanthrene | 9.932 | 178 | 2440447 | 106.2601 | ng | 99 |
| 87) | Anthracene | 9.985 | 178 | 2541968 | 108.5673 | ng | 97 |
| 88) | Carbazole | 10.155 | 167 | 2442771 | 109.4056 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.537 | 149 | 2905346 | 112.6155 | ng | 97 |
| 90) | Fluoranthene | 11.277 | 202 | 2665220 | 109.6907 | ng | 95 |
| 92) | Pyrene | 11.547 | 202 | 2707656 | 108.3542 | ng | 91 |
| 93) | Benzidine | 11.436 | 184 | 1836156 | 243.9477 | ng | 88 |
| 95) | 4,4'-DDE | 11.659 | 246 | 632831 | 117.4134 | ng | 89 |
| 96) | 4,4'-DDD | 12.065 | 235 | 1080742 | 119.9846 | ng | 96 |
| 97) | Butylbenzylphthalate | 12.323 | 149 | 1343806 | 112.3654 | ng | 68 |
| 98) | 4,4'-DDT | 12.423 | 235 | 852144 | 137.3144 | ng | 97 |
| 99) | 3,3'-Dichlorobenzidine | 12.958 | 252 | 1103704 | 138.5362 | ng | 96 |
| 100) | Benzo[a]anthracene | 12.981 | 228 | 2571624 | 107.4584 | ng | 97 |
| 101) | Chrysene | 13.028 | 228 | 2333815 | 107.2535 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 13.016 | 149 | 1651038 | 111.8654 | ng | 88 |
| 104) | Di-n-octylphthalate | 13.780 | 149 | 3110230 | 111.5471 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 14.227 | 252 | 2701784 | 107.5954 | ng | 94 |
| 106) | Benzo[k]fluoranthene | 14.262 | 252 | 2539582 | 105.0747 | ng | 93 |
| 107) | Benzo[a]pyrene | 14.615 | 252 | 2736590 | 112.0677 | ng | 93 |
| 108) | Indeno[1,2,3-cd]pyrene | 16.130 | 276 | 3150779 | 115.1685 | ng | 86 |
| 109) | Dibenzo[a,h]anthracene | 16.160 | 278 | 2626988 | 113.9516 | ng | 89 |
| 110) | Benzo[g,h,i]perylene | 16.559 | 276 | 2581922m | 111.9995 | ng | |

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


Abundance
TIC: 7M116109.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@120PPM
Data File: 7M116109.D
Acq On : 08/23/21 10:14
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 08/23/21 12:37
Qt Upd On: 08/23/21 09:57
1e+07
9000000
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->
2.60
2.80
3.00
3.20
3.40
3.60
3.80
4.00
4.20
4.40
4.60
4.80
5.00
5.20
5.40
5.60


Abundance
TIC: 7M116109.D\data.ms
1e+07
9000000
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
Caprolactam,P
4-Chloro-3-methylphenol,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
2,4,6-Tribromophenol,S
Time-->
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
10.50
11.00


Abundance
TIC: 7M116109.D\data.ms
1e+07
9000000
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->
11.00
11.50
12.00
12.50
13.00
13.50
14.00
14.50
15.00
15.50
16.00
16.50

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116108.D  Sam Mult : 1 Vial# : 3  Qt On : 08/23/21 10:13
Acq On : 08/23/21 09:50  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.728 | 96 | 148832 | 40.00 | ng | -0.01 |
| 21) 1,4-Dichlorobenzene-d4 | 5.930 | 152 | 243422 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.953 | 136 | 992783 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.416 | 164 | 501010 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.908 | 188 | 964007 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 13.005 | 240 | 795954 | 40.00 | ng | 0.01 |
| 103) Perylene-d12 | 14.697 | 264 | 959732 | 40.00 | ng | 0.02 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.738 | 112 | 1149344 | 161.02 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 161.02% | | | |
| 16) Phenol-d5 | 5.619 | 99 | 1234535 | 150.45 | ng | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 150.45% | | | |
| 32) Nitrobenzene-d5 | 6.383 | 128 | 286361 | 87.05 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 174.10% | | | |
| 55) 2-Fluorobiphenyl | 7.811 | 172 | 1167752 | 75.56 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 151.12% | | | |
| 80) 2,4,6-Tribromophenol | 9.174 | 330 | 420319 | 189.47 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 189.47% | | | |
| 94) Terphenyl-d14 | 11.730 | 244 | 1046448 | 82.81 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 165.62% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.764 | 88 | 550548 | 156.6209 | ng | 97 |
| 9) Pyridine | 3.234 | 79 | 1234572 | 152.4606 | ng | 66 |
| 10) N-Nitrosodimethylamine | 3.198 | 74 | 860006 | 154.0079 | ng | 68 |
| 12) Benzaldehyde | 5.560 | 77 | 953193 | 212.2917 | ng | 72 |
| 13) Aniline | 5.654 | 93 | 1714202 | 154.0379 | ng | 82 |
| 14) Pentachloroethane | 5.695 | 117 | 403587 | 147.0514 | ng | 82 |
| 15) bis(2-Chloroethyl)ether | 5.713 | 93 | 1067072 | 129.9363 | ng | 77 |
| 17) Phenol | 5.631 | 94 | 1502780 | 140.9402 | ng | 82 |
| 18) 2-Chlorophenol | 5.754 | 128 | 1193615 | 149.8760 | ng | 76 |
| 19) N-Decane | 5.789 | 57 | 914760 | 126.0822 | ng | 83 |
| 20) 1,3-Dichlorobenzene | 5.883 | 146 | 1198939 | 139.2680 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.942 | 146 | 1177867 | 138.6345 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 6.066 | 146 | 1133389 | 138.5287 | ng | 98 |
| 24) Benzyl alcohol | 6.048 | 108 | 767124 | 150.1480 | ng | 68 |
| 25) bis(2-chloroisopropyl)... | 6.154 | 45 | 1128418 | 130.6180 | ng | 94 |
| 26) 2-Methylphenol | 6.130 | 108 | 1030398 | 148.0185 | ng | 100 |
| 27) Acetophenone | 6.265 | 105 | 1137747 | 121.2206 | ng | 73 |
| 28) Hexachloroethane | 6.342 | 117 | 470450 | 146.0098 | ng | 84 |
| 29) N-Nitroso-di-n-propyla... | 6.271 | 70 | 619396 | 124.6679 | ng | 83 |
| 30) 3&4-Methylphenol | 6.260 | 108 | 796137 | 123.6853 | ng | 97 |
| 33) Nitrobenzene | 6.401 | 77 | 1092940 | 143.1244 | ng | 72 |
| 34) Isophorone | 6.594 | 82 | 2161346 | 144.4074 | ng | 77 |
| 35) 2-Nitrophenol | 6.647 | 139 | 692531 | 215.9616 | ng | 81 |
| 36) 2,4-Dimethylphenol | 6.677 | 107 | 1069782 | 147.0717 | ng | 90 |
| 37) Benzoic Acid | 6.788 | 105 | 859147 | 222.9062 | ng | 45 |
| 38) bis(2-Chloroethoxy)met... | 6.753 | 93 | 1234508 | 132.0089 | ng | 94 |
| 39) 2,4-Dichlorophenol | 6.841 | 162 | 951079 | 155.6161 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.900 | 180 | 967151 | 142.1635 | ng | 99 |
| 41) Naphthalene | 6.970 | 128 | 2939207 | 127.8361 | ng | 96 |
| 42) 4-Chloroaniline | 7.006 | 127 | 1354856m | 170.3162 | ng | |
| 43) Hexachlorobutadiene | 7.053 | 225 | 531448 | 148.3656 | ng | 96 |
| 44) Caprolactam | 7.335 | 113 | 482013 | 166.9956 | ng | 57 |
| 45) 4-Chloro-3-methylphenol | 7.376 | 107 | 979950 | 160.2008 | ng | 75 |
| 46) 2-Methylnaphthalene | 7.517 | 142 | 2038619 | 132.3669 | ng | 99 |
| 47) 1-Methylnaphthalene | 7.599 | 142 | 1911505 | 133.0394 | ng | 91 |
| 48) Methylnaphthalenes (To... | 7.517 | 142 | 3948048m | 264.9733 | ng | |
| 49) 1,1'-Biphenyl | 7.899 | 154 | 2530631 | 130.8253 | ng | 91 |
| 51) 1,2,4,5-Tetrachloroben... | 7.652 | 216 | 958105 | 145.6608 | ng | 99 |
| 52) Hexachlorocyclopentadiene | 7.634 | 237 | 627248 | 172.9320 | ng | 96 |
| 53) 2,4,6-Trichlorophenol | 7.740 | 196 | 727215m | 165.0159 | ng | |
| 54) 2,4,5-Trichlorophenol | 7.775 | 196 | 788257m | 167.8861 | ng | |
| 56) 2-Chloronaphthalene | 7.928 | 162 | 1943865 | 135.5233 | ng | 90 |
| 57) 1,4-Dimethylnaphthalene | 8.216 | 156 | 1308932 | 110.3917 | ng | 88 |
| 58) Dimethylnaphthalenes (... | 8.216 | 156 | 1308932 | 110.3917 | ng | 88 |
| 59) Diphenyl Ether | 7.987 | 170 | 1439244 | 145.9741 | ng | 74 |
| 60) 2-Nitroaniline | 8.010 | 65 | 683421 | 160.5397 | ng | 33 |
| 61) Coumarin | 8.210 | 146 | 698763 | 115.2536 | ng | 83 |
| 62) Acenaphthylene | 8.298 | 152 | 2993630 | 133.3419 | ng | 96 |
| 63) Dimethylphthalate | 8.163 | 163 | 2303132 | 143.1018 | ng | 96 |
| 64) 2,6-Dinitrotoluene | 8.222 | 165 | 434733 | 148.9088 | ng | 57 |
| 65) Acenaphthene | 8.451 | 153 | 1878263 | 133.3202 | ng | 98 |

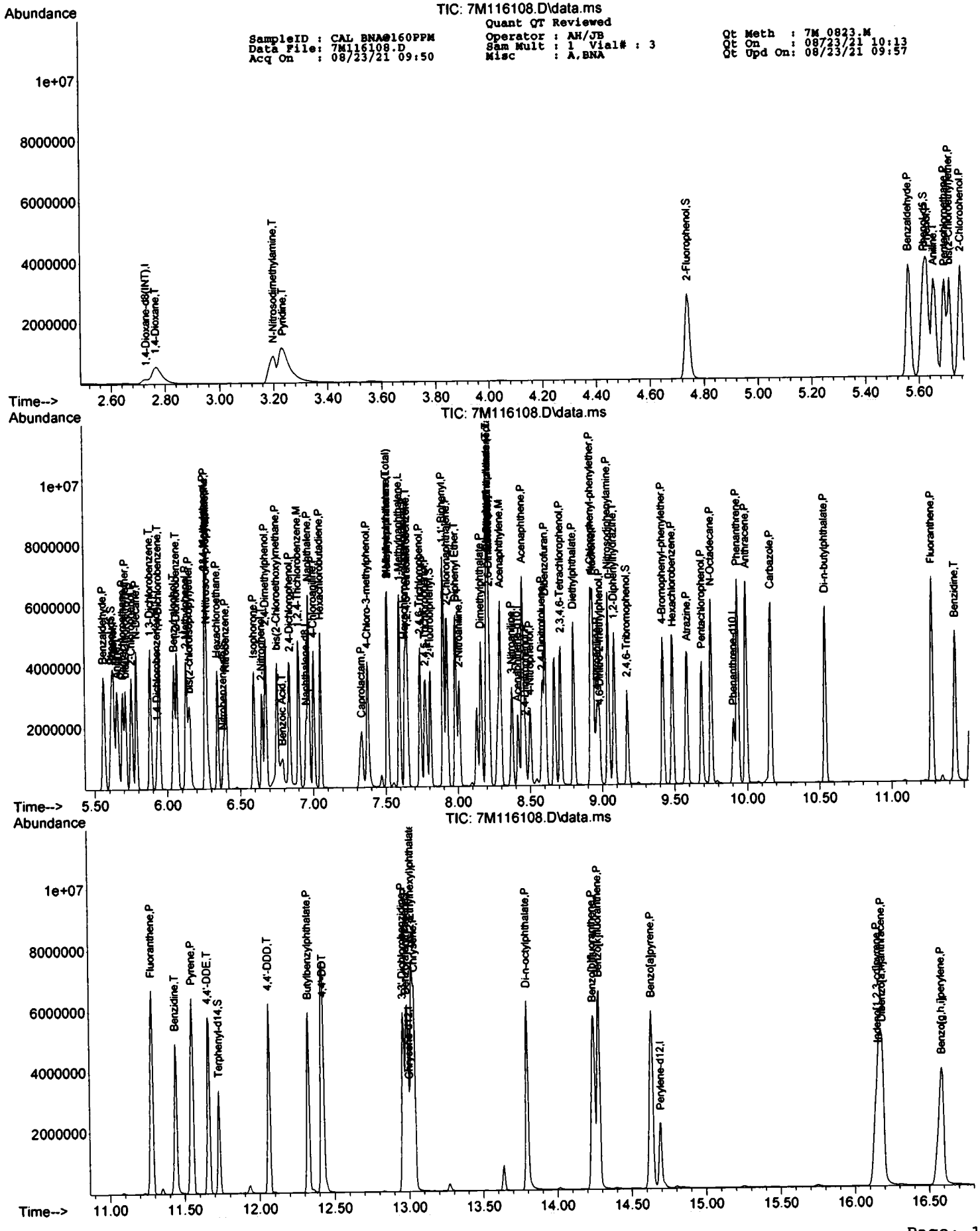
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116108.D  Sam Mult : 1  Vial# : 3  Qt On : 08/23/21 10:13
Acq On : 08/23/21 09:50  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.375 | 138 | 706353 | 194.6747 | ng | 72 |
| 67) | 2,4-Dinitrophenol | 8.469 | 184 | 377666 | 254.4024 | ng | 26 |
| 68) | Dibenzofuran | 8.610 | 168 | 2698048 | 131.2241 | ng | 88 |
| 69) | 2,4-Dinitrotoluene | 8.586 | 165 | 823791 | 165.9682 | ng | 58 |
| 70) | 4-Nitrophenol | 8.504 | 65 | 474536 | 166.8528 | ng | 90 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.716 | 232 | 667663 | 164.0441 | ng | 82 |
| 72) | Fluorene | 8.939 | 166 | 2059464 | 130.0845 | ng | 100 |
| 73) | 4-Chlorophenyl-phenyle... | 8.927 | 204 | 1046132 | 139.3718 | ng | 82 |
| 74) | Diethylphthalate | 8.804 | 149 | 2253136 | 141.3467 | ng | 94 |
| 75) | 4-Nitroaniline | 8.968 | 138 | 742634 | 160.6103 | ng | 68 |
| 76) | Atrazine | 9.591 | 200 | 727888 | 173.1681 | ng | 94 |
| 78) | 4,6-Dinitro-2-methylph... | 8.986 | 198 | 481198 | 248.4317 | ng | 80 |
| 79) | n-Nitrosodiphenylamine | 9.045 | 169 | 1998155 | 135.5184 | ng | 100 |
| 81) | 1,2-Diphenylhydrazine | 9.086 | 77 | 2291284 | 132.0513 | ng | 71 |
| 82) | 4-Bromophenyl-phenylether | 9.421 | 248 | 763131 | 153.9599 | ng | 80 |
| 83) | Hexachlorobenzene | 9.491 | 284 | 855178 | 153.1673 | ng | 55 |
| 84) | N-Octadecane | 9.755 | 57 | 1152272 | 118.7523 | ng | 66 |
| 85) | Pentachlorophenol | 9.691 | 266 | 602713 | 183.1318 | ng | 96 |
| 86) | Phenanthrene | 9.938 | 178 | 3188107 | 132.7767 | ng | 97 |
| 87) | Anthracene | 9.996 | 178 | 3239238 | 132.3304 | ng | 96 |
| 88) | Carbazole | 10.167 | 167 | 3190615 | 136.6845 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.543 | 149 | 3727721 | 145.2552 | ng | 97 |
| 90) | Fluoranthene | 11.283 | 202 | 3486062 | 137.2334 | ng | 94 |
| 92) | Pyrene | 11.553 | 202 | 3562109 | 141.9057 | ng | 90 |
| 93) | Benzidine | 11.442 | 184 | 2414729 | 319.3715 | ng | 89 |
| 95) | 4,4'-DDE | 11.659 | 246 | 856787 | 158.2499 | ng | 87 |
| 96) | 4,4'-DDD | 12.065 | 235 | 1407123 | 155.5163 | ng | 96 |
| 97) | Butylbenzylphthalate | 12.329 | 149 | 1793116 | 153.5140 | ng | 66 |
| 98) | 4,4'-DDT | 12.429 | 235 | 1089058 | 178.7068 | ng | 97 |
| 99) | 3,3'-Dichlorobenzidine | 12.964 | 252 | 1444249 | 193.4868 | ng | 95 |
| 100) | Benzo[a]anthracene | 12.987 | 228 | 3417421 | 142.1582 | ng | 96 |
| 101) | Chrysene | 13.040 | 228 | 2990680 | 136.8218 | ng | 96 |
| 102) | bis(2-Ethylhexyl)phtha... | 13.022 | 149 | 2118440 | 149.1756 | ng | 87 |
| 104) | Di-n-octylphthalate | 13.798 | 149 | 4048990 | 142.9822 | ng | 98 |
| 105) | Benzo[b]fluoranthene | 14.244 | 252 | 3793474m | 147.3131 | ng | |
| 106) | Benzo[k]fluoranthene | 14.286 | 252 | 3485325 | 140.6179 | ng | 91 |
| 107) | Benzo[a]pyrene | 14.638 | 252 | 3714517 | 148.3318 | ng | 93 |
| 108) | Indeno[1,2,3-cd]pyrene | 16.160 | 276 | 4311802 | 153.6866 | ng | 84 |
| 109) | Dibenzo[a,h]anthracene | 16.189 | 278 | 3530129 | 149.3187 | ng | 87 |
| 110) | Benzo[g,h,i]perylene | 16.589 | 276 | 3608595m | 152.6414 | ng | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 7M116108.D
Acq On : 08/23/21 09:50
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 08/23/21 10:13
Qt Upd On: 08/23/21 09:57
Abundance
Time-->
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
2-Chlorophenol,P
TIC: 7M116108.D\data.ms
Abundance
Time-->
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
Acenaphthene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
TIC: 7M116108.D\data.ms
Abundance
Time-->
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116107.D  Sam Mult : 1  Vial# : 2  Qt On : 08/23/21 09:57
Acq On : 08/23/21 09:26  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.728 | 96 | 163716 | 40.00 | ng | -0.01 |
| 21) 1,4-Dichlorobenzene-d4 | 5.936 | 152 | 230907 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.959 | 136 | 934700 | 40.00 | ng | 0.01 |
| 50) Acenaphthene-d10 | 8.422 | 164 | 479734 | 40.00 | ng | 0.01 |
| 77) Phenanthrene-d10 | 9.914 | 188 | 912513 | 40.00 | ng | 0.01 |
| 91) Chrysene-d12 | 13.011 | 240 | 742545 | 40.00 | ng | 0.02 |
| 103) Perylene-d12 | 14.720 | 264 | 894704 | 40.00 | ng | 0.05 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.744 | 112 | 1372548 | 174.80 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 174.80% | | | |
| 16) Phenol-d5 | 5.625 | 99 | 1433035 | 158.77 | ng | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 158.77% | | | |
| 32) Nitrobenzene-d5 | 6.389 | 128 | 338932 | 109.44 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 218.88% | | | |
| 55) 2-Fluorobiphenyl | 7.816 | 172 | 1336794 | 90.33 | ng | 0.01 |
| Spiked Amount 50.000 | | | Recovery = 180.66% | | | |
| 80) 2,4,6-Tribromophenol | 9.186 | 330 | 487712 | 239.83 | ng | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 239.83% | | | |
| 94) Terphenyl-d14 | 11.736 | 244 | 1223856 | 103.81 | ng | 0.01 |
| Spiked Amount 50.000 | | | Recovery = 207.62% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.769 | 88 | 739114 | 191.1486 | ng | 98 |
| 9) Pyridine | 3.239 | 79 | 1534489 | 172.2702 | ng | 66 |
| 10) N-Nitrosodimethylamine | 3.204 | 74 | 1121990 | 182.6568 | ng | 69 |
| 12) Benzaldehyde | 5.566 | 77 | 1132164 | 229.2275 | ng | 73 |
| 13) Aniline | 5.660 | 93 | 1994839 | 162.9591 | ng | 82 |
| 14) Pentachloroethane | 5.695 | 117 | 471059 | 156.0316 | ng | 83 |
| 15) bis(2-Chloroethyl)ether | 5.719 | 93 | 1207715 | 133.6923 | ng | 76 |
| 17) Phenol | 5.637 | 94 | 1686612 | 143.8003 | ng | 85 |
| 18) 2-Chlorophenol | 5.760 | 128 | 1373641 | 156.8000 | ng | 76 |
| 19) N-Decane | 5.795 | 57 | 1057670 | 132.5262 | ng | 84 |
| 20) 1,3-Dichlorobenzene | 5.889 | 146 | 1364626 | 144.1030 | ng | 97 |
| 22) 1,4-Dichlorobenzene | 5.948 | 146 | 1340186 | 166.2888 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 6.071 | 146 | 1288333 | 166.0014 | ng | 98 |
| 24) Benzyl alcohol | 6.054 | 108 | 881265 | 181.8374 | ng | 68 |
| 25) bis(2-chloroisopropyl)... | 6.160 | 45 | 1300337 | 158.6761 | ng | 93 |
| 26) 2-Methylphenol | 6.136 | 108 | 1173055 | 177.6446 | ng | 97 |
| 27) Acetophenone | 6.271 | 105 | 1239474 | 139.2166 | ng | 72 |
| 28) Hexachloroethane | 6.348 | 117 | 537156 | 175.7485 | ng | 86 |
| 29) N-Nitroso-di-n-propyla... | 6.277 | 70 | 715608 | 151.8393 | ng | 84 |
| 30) 3&4-Methylphenol | 6.265 | 108 | 859167 | 140.7118 | ng | 97 |
| 33) Nitrobenzene | 6.406 | 77 | 1254993 | 174.5584 | ng | 72 |
| 34) Isophorone | 6.600 | 82 | 2576654 | 182.8535 | ng | 78 |
| 35) 2-Nitrophenol | 6.653 | 139 | 796795 | 284.6355 | ng | 82 |
| 36) 2,4-Dimethylphenol | 6.683 | 107 | 1222509 | 178.5122 | ng | 90 |
| 37) Benzoic Acid | 6.800 | 105 | 948454 | 257.4457 | ng | 49 |
| 38) bis(2-Chloroethoxy)met... | 6.759 | 93 | 1429491 | 162.3576 | ng | 94 |
| 39) 2,4-Dichlorophenol | 6.847 | 162 | 1081489 | 195.4150 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.906 | 180 | 1071028 | 167.2156 | ng | 99 |
| 41) Naphthalene | 6.976 | 128 | 3273759 | 151.2349 | ng | 96 |
| 42) 4-Chloroaniline | 7.012 | 127 | 1539011m | 205.4881 | ng | |
| 43) Hexachlorobutadiene | 7.059 | 225 | 607077 | 180.0106 | ng | 97 |
| 44) Caprolactam | 7.346 | 113 | 556264 | 202.1428 | ng | 60 |
| 45) 4-Chloro-3-methylphenol | 7.388 | 107 | 1115536 | 193.6986 | ng | 73 |
| 46) 2-Methylnaphthalene | 7.523 | 142 | 2261262 | 155.9468 | ng | 96 |
| 47) 1-Methylnaphthalene | 7.605 | 142 | 2126029 | 157.1651 | ng | 90 |
| 48) Methylnaphthalenes (To... | 7.523 | 142 | 4386380m | 312.6858 | ng | |
| 49) 1,1'-Biphenyl | 7.911 | 154 | 2733879 | 150.1151 | ng | 91 |
| 51) 1,2,4,5-Tetrachloroben... | 7.658 | 216 | 1061162 | 168.4834 | ng | 99 |
| 52) Hexachlorocyclopentadiene | 7.640 | 237 | 725057 | 209.4658 | ng | 96 |
| 53) 2,4,6-Trichlorophenol | 7.746 | 196 | 823639 | 200.4199 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.781 | 196 | 909055m | 211.7794 | ng | |
| 56) 2-Chloronaphthalene | 7.934 | 162 | 2158309 | 157.1475 | ng | 93 |
| 57) 1,4-Dimethylnaphthalene | 8.222 | 156 | 1396091 | 122.9643 | ng | 87 |
| 58) Dimethylnaphthalenes (... | 8.222 | 156 | 1396091 | 122.9643 | ng | 87 |
| 59) Diphenyl Ether | 7.993 | 170 | 1606875 | 170.2038 | ng | 75 |
| 60) 2-Nitroaniline | 8.016 | 65 | 789520 | 200.8164 | ng | 37 |
| 61) Coumarin | 8.216 | 146 | 743212 | 128.0216 | ng | 82 |
| 62) Acenaphthylene | 8.304 | 152 | 3313395 | 154.1302 | ng | 96 |
| 63) Dimethylphthalate | 8.175 | 163 | 2629437 | 170.6220 | ng | 97 |
| 64) 2,6-Dinitrotoluene | 8.234 | 165 | 496959 | 193.6967 | ng | 49 |
| 65) Acenaphthene | 8.457 | 153 | 2087835 | 154.7681 | ng | 97 |

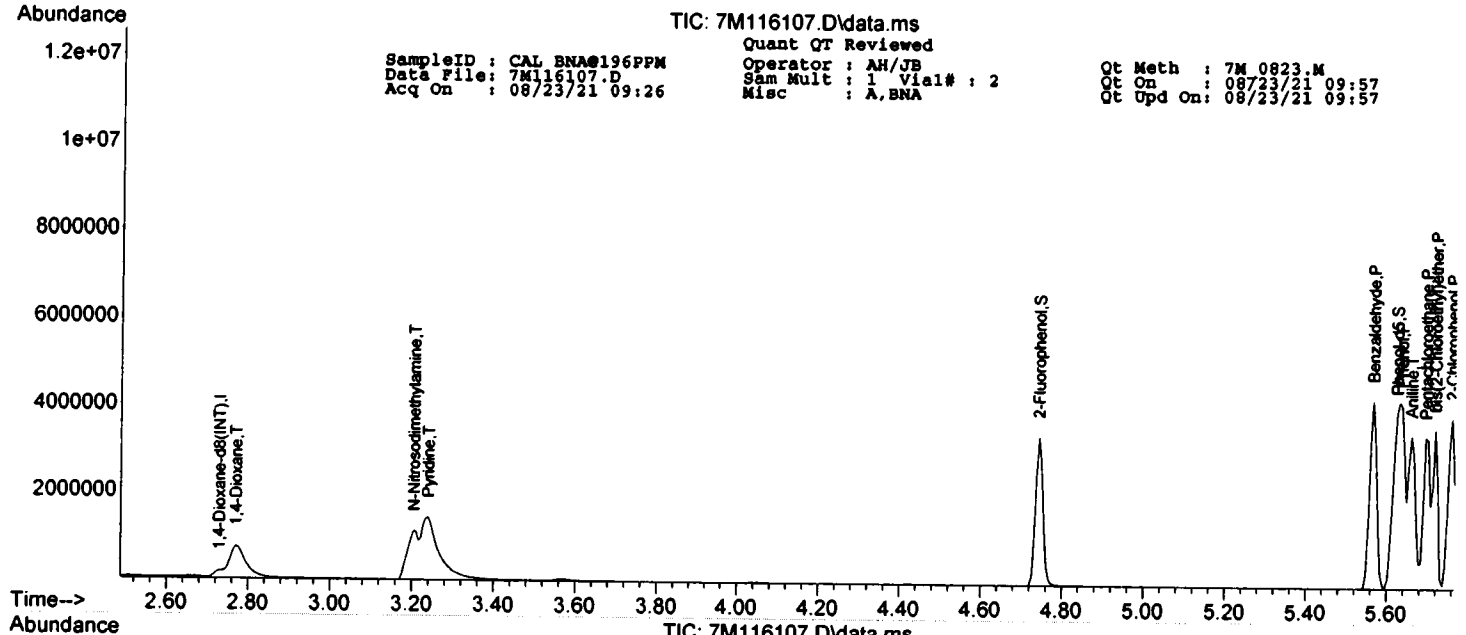
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116107.D  Sam Mult : 1 Vial# : 2  Qt On : 08/23/21 09:57
Acq On : 08/23/21 09:26  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.386 | 138 | 819175 | 258.8843 | ng | 69 |
| 67) | 2,4-Dinitrophenol | 8.475 | 184 | 449353 | 301.6214 | ng | 31 |
| 68) | Dibenzofuran | 8.616 | 168 | 2974070 | 151.0640 | ng | 90 |
| 69) | 2,4-Dinitrotoluene | 8.598 | 165 | 946893 | 201.7763 | ng | 56 |
| 70) | 4-Nitrophenol | 8.516 | 65 | 550677 | 200.3032 | ng | 86 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.721 | 232 | 767824 | 199.7214 | ng | 82 |
| 72) | Fluorene | 8.945 | 166 | 2291441 | 151.1562 | ng | 99 |
| 73) | 4-Chlorophenyl-phenyle... | 8.933 | 204 | 1159194 | 161.2837 | ng | 84 |
| 74) | Diethylphthalate | 8.815 | 149 | 2547224 | 166.8826 | ng | 93 |
| 75) | 4-Nitroaniline | 8.980 | 138 | 860984 | 197.2736 | ng | 68 |
| 76) | Atrazine | 9.597 | 200 | 840899 | 208.9263 | ng | 96 |
| 78) | 4,6-Dinitro-2-methylph... | 8.992 | 198 | 557664 | 313.1283 | ng | 69 |
| 79) | n-Nitrosodiphenylamine | 9.056 | 169 | 2258843 | 161.8439 | ng | 98 |
| 81) | 1,2-Diphenylhydrazine | 9.091 | 77 | 2592308 | 157.8307 | ng | 70 |
| 82) | 4-Bromophenyl-phenylether | 9.432 | 248 | 874098 | 186.2986 | ng | 76 |
| 83) | Hexachlorobenzene | 9.497 | 284 | 982729 | 185.9450 | ng | 57 |
| 84) | N-Octadecane | 9.761 | 57 | 1272335 | 138.5254 | ng | 64 |
| 85) | Pentachlorophenol | 9.697 | 266 | 691215 | 219.7790 | ng | 96 |
| 86) | Phenanthrene | 9.943 | 178 | 3562718 | 156.7514 | ng | 98 |
| 87) | Anthracene | 10.002 | 178 | 3675291 | 158.6169 | ng | 96 |
| 88) | Carbazole | 10.173 | 167 | 3636854 | 164.5932 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.549 | 149 | 4167323 | 181.9945 | ng | 97 |
| 90) | Fluoranthene | 11.289 | 202 | 3915605 | 162.8414 | ng | 93 |
| 92) | Pyrene | 11.559 | 202 | 3988544 | 170.3226 | ng | 90 |
| 93) | Benzidine | 11.448 | 184 | 2787609 | 395.2071 | ng | 88 |
| 95) | 4,4'-DDE | 11.665 | 246 | 968927 | 191.8346 | ng | 87 |
| 96) | 4,4'-DDD | 12.070 | 235 | 1611733 | 190.9423 | ng | 96 |
| 97) | Butylbenzylphthalate | 12.335 | 149 | 2023659 | 190.6097 | ng | 66 |
| 98) | 4,4'-DDT | 12.435 | 235 | 1223193 | 220.2188 | ng | 97 |
| 99) | 3,3'-Dichlorobenzidine | 12.975 | 252 | 1612241 | 250.1346 | ng | 95 |
| 100) | Benzo[a]anthracene | 12.999 | 228 | 3839661 | 171.2109 | ng | 95 |
| 101) | Chrysene | 13.052 | 228 | 3446562 | 169.0195 | ng | 96 |
| 102) | bis(2-Ethylhexyl)phtha... | 13.028 | 149 | 2380763 | 188.4301 | ng | 88 |
| 104) | Di-n-octylphthalate | 13.815 | 149 | 4575673 | 175.0645 | ng | 97 |
| 105) | Benzo[b]fluoranthene | 14.274 | 252 | 4607005 | 191.9082 | ng | 94 |
| 106) | Benzo[k]fluoranthene | 14.309 | 252 | 3639448m | 157.5083 | ng | |
| 107) | Benzo[a]pyrene | 14.667 | 252 | 4268362 | 182.8369 | ng | 92 |
| 108) | Indeno[1,2,3-cd]pyrene | 16.195 | 276 | 4946954 | 189.1411 | ng | 85 |
| 109) | Dibenzo[a,h]anthracene | 16.224 | 278 | 4026785 | 182.7059 | ng | 88 |
| 110) | Benzo[g,h,i]perylene | 16.630 | 276 | 4153123m | 188.4428 | ng | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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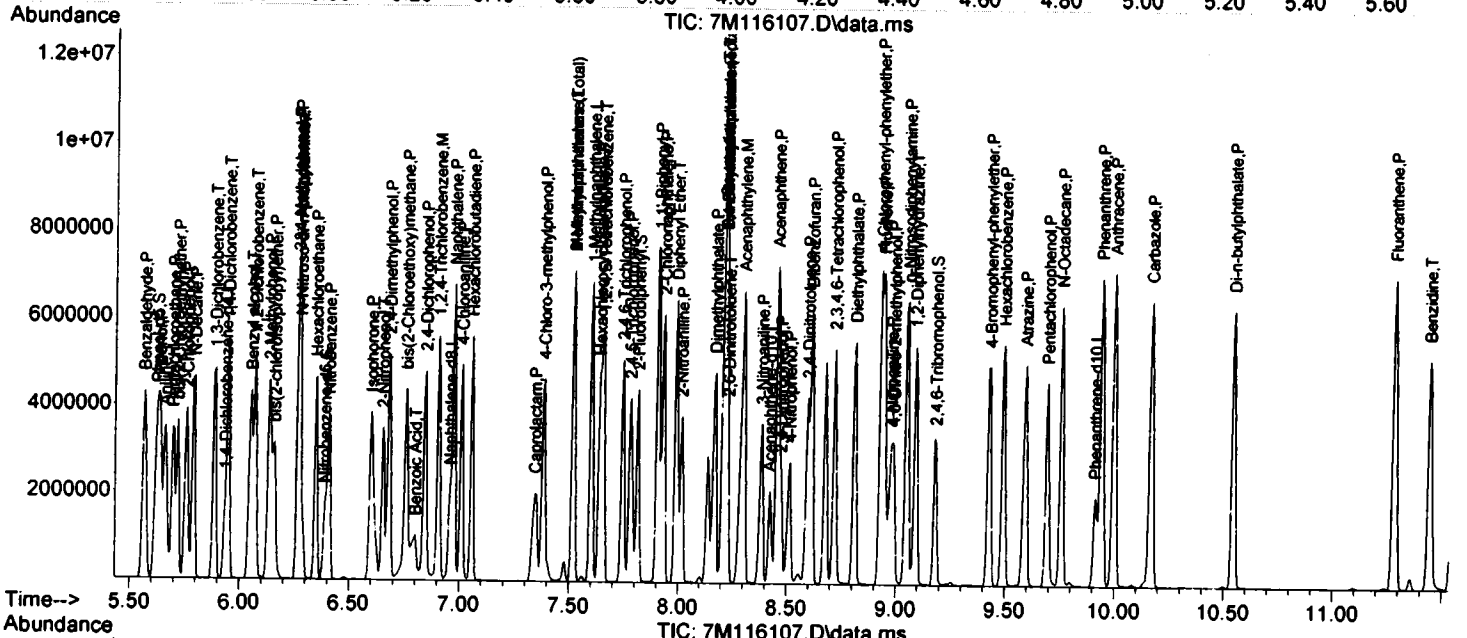
Quant QT Reviewed
SampleID : CAL BNA@196PPM
Data File: 7M116107.D
Acq On : 08/23/21 09:26
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 08/23/21 09:57
Qt Upd On: 08/23/21 09:57
1.2e+07
1e+07
8000000
6000000
4000000
2000000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->
2.60
2.80
3.00
3.20
3.40
3.60
3.80
4.00
4.20
4.40
4.60
4.80
5.00
5.20
5.40
5.60


Abundance
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1e+07
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6000000
4000000
2000000
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
Acenaphthene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
2,4,6-Tribromophenol,S
Time-->
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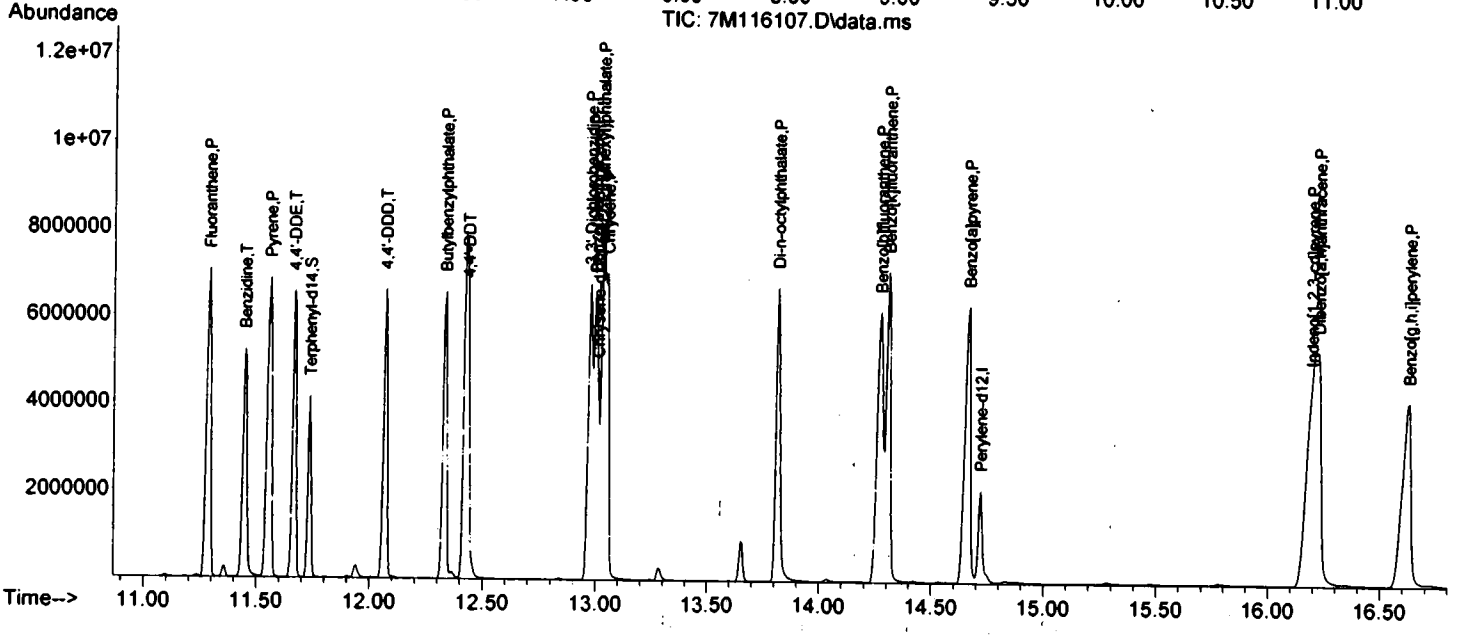
8.50
9.00
9.50
10.00
10.50
11.00


Abundance
TIC: 7M116107.D\data.ms
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6000000
4000000
2000000
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Benzo[g,h,i]perylene,P
Time-->
11.00
11.50
12.00
12.50
13.00
13.50
14.00
14.50
15.00
15.50
16.00
16.50

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116114.D  Sam Mult : 1 Vial# : 9  Qt On : 08/23/21 12:36
Acq On : 08/23/21 12:13  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.722 | 96 | 142872 | 40.00 | ng | -0.02 |
| 21) 1,4-Dichlorobenzene-d4 | 5.925 | 152 | 241589 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.935 | 136 | 969691 | 40.00 | ng | -0.01 |
| 50) Acenaphthene-d10 | 8.398 | 164 | 486230 | 40.00 | ng | -0.01 |
| 77) Phenanthrene-d10 | 9.891 | 188 | 900285 | 40.00 | ng | -0.01 |
| 91) Chrysene-d12 | 12.981 | 240 | 775443 | 40.00 | ng | -0.01 |
| 103) Perylene-d12 | 14.662 | 264 | 882518 | 40.00 | ng | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 0.000 | 112 | 0 | 0.00 | ng | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 16) Phenol-d5 | 0.000 | 99 | 0d | 0.00 | ng | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 32) Nitrobenzene-d5 | 0.000 | 128 | 0d | 0.00 | ng | |
| Spiked Amount 50.000 | | | Recovery = | 0.00% | | |
| 55) 2-Fluorobiphenyl | 0.000 | 172 | 0d | 0.00 | ng | |
| Spiked Amount 50.000 | | | Recovery = | 0.00% | | |
| 80) 2,4,6-Tribromophenol | 0.000 | 330 | 0d | 0.00 | ng | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 94) Terphenyl-d14 | 0.000 | 244 | 0d | 0.00 | ng | |
| Spiked Amount 50.000 | | | Recovery = | 0.00% | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.764 | 88 | 2606 | 0.7723 | ng | 73 |
| 9) Pyridine | 0.000 | | 0 | N.D. d | | |
| 10) N-Nitrosodimethylamine | 0.000 | | 0 | N.D. d | | |
| 12) Benzaldehyde | 0.000 | | 0 | N.D. d | | |
| 13) Aniline | 5.643 | 93 | 6414 | 0.6004 | ng | 52 |
| 14) Pentachloroethane | 0.000 | | 0 | N.D. d | | |
| 15) bis(2-Chloroethyl)ether | 5.701 | 93 | 4819 | 0.6113 | ng | 76 |
| 17) Phenol | 0.000 | | 0 | N.D. d | | |
| 18) 2-Chlorophenol | 0.000 | | 0 | N.D. d | | |
| 19) N-Decane | 0.000 | | 0 | N.D. d | | |
| 20) 1,3-Dichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 22) 1,4-Dichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 23) 1,2-Dichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 24) Benzyl alcohol | 0.000 | | 0 | N.D. d | | |
| 25) bis(2-chloroisopropyl)... | 0.000 | | 0 | N.D. d | | |
| 26) 2-Methylphenol | 6.119 | 108 | 3604 | 0.5216 | ng | 97 |
| 27) Acetophenone | 0.000 | | 0 | N.D. d | | |
| 28) Hexachloroethane | 0.000 | | 0 | N.D. d | | |
| 29) N-Nitroso-di-n-propyla... | 6.248 | 70 | 2826 | 0.5731 | ng | 76 |
| 30) 3&4-Methylphenol | 6.242 | 108 | 3577 | 0.5599 | ng | 98 |
| 33) Nitrobenzene | 0.000 | | 0 | N.D. d | | |
| 34) Isophorone | 0.000 | | 0 | N.D. d | | |
| 35) 2-Nitrophenol | 0.000 | | 0 | N.D. d | | |
| 36) 2,4-Dimethylphenol | 6.659 | 107 | 3655 | 0.5144 | ng | 89 |
| 37) Benzoic Acid | 0.000 | | 0 | N.D. d | | |
| 38) bis(2-Chloroethoxy)met... | 0.000 | | 0 | N.D. d | | |
| 39) 2,4-Dichlorophenol | 6.824 | 162 | 2304m | 0.3359 | ng | |
| 40) 1,2,4-Trichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 41) Naphthalene | 6.953 | 128 | 14107 | 0.6282 | ng | 96 |
| 42) 4-Chloroaniline | 6.988 | 127 | 4787m | 0.6161 | ng | |
| 43) Hexachlorobutadiene | 0.000 | | 0 | N.D. d | | |
| 44) Caprolactam | 0.000 | | 0 | N.D. d | | |
| 45) 4-Chloro-3-methylphenol | 0.000 | | 0 | N.D. d | | |
| 46) 2-Methylnaphthalene | 0.000 | | 0 | N.D. d | | |
| 47) 1-Methylnaphthalene | 0.000 | | 0 | N.D. d | | |
| 48) Methylnaphthalenes (To... | 0.000 | | 0 | N.D. d | | |
| 49) 1,1'-Biphenyl | 0.000 | | 0 | N.D. d | | |
| 51) 1,2,4,5-Tetrachloroben... | 0.000 | | 0 | N.D. d | | |
| 52) Hexachlorocyclopentadiene | 0.000 | | 0 | N.D. d | | |
| 53) 2,4,6-Trichlorophenol | 0.000 | | 0 | N.D. d | | |
| 54) 2,4,5-Trichlorophenol | 0.000 | | 0 | N.D. d | | |
| 56) 2-Chloronaphthalene | 0.000 | | 0 | N.D. d | | |
| 57) 1,4-Dimethylnaphthalene | 0.000 | | 0 | N.D. d | | |
| 58) Dimethylnaphthalenes (... | 0.000 | | 0 | N.D. d | | |
| 59) Diphenyl Ether | 0.000 | | 0 | N.D. d | | |
| 60) 2-Nitroaniline | 0.000 | | 0 | N.D. d | | |
| 61) Coumarin | 0.000 | | 0 | N.D. d | | |
| 62) Acenaphthylene | 0.000 | | 0 | N.D. d | | |
| 63) Dimethylphthalate | 0.000 | | 0 | N.D. d | | |
| 64) 2,6-Dinitrotoluene | 0.000 | | 0 | N.D. d | | |
| 65) Acenaphthene | 0.000 | | 0 | N.D. d | | |

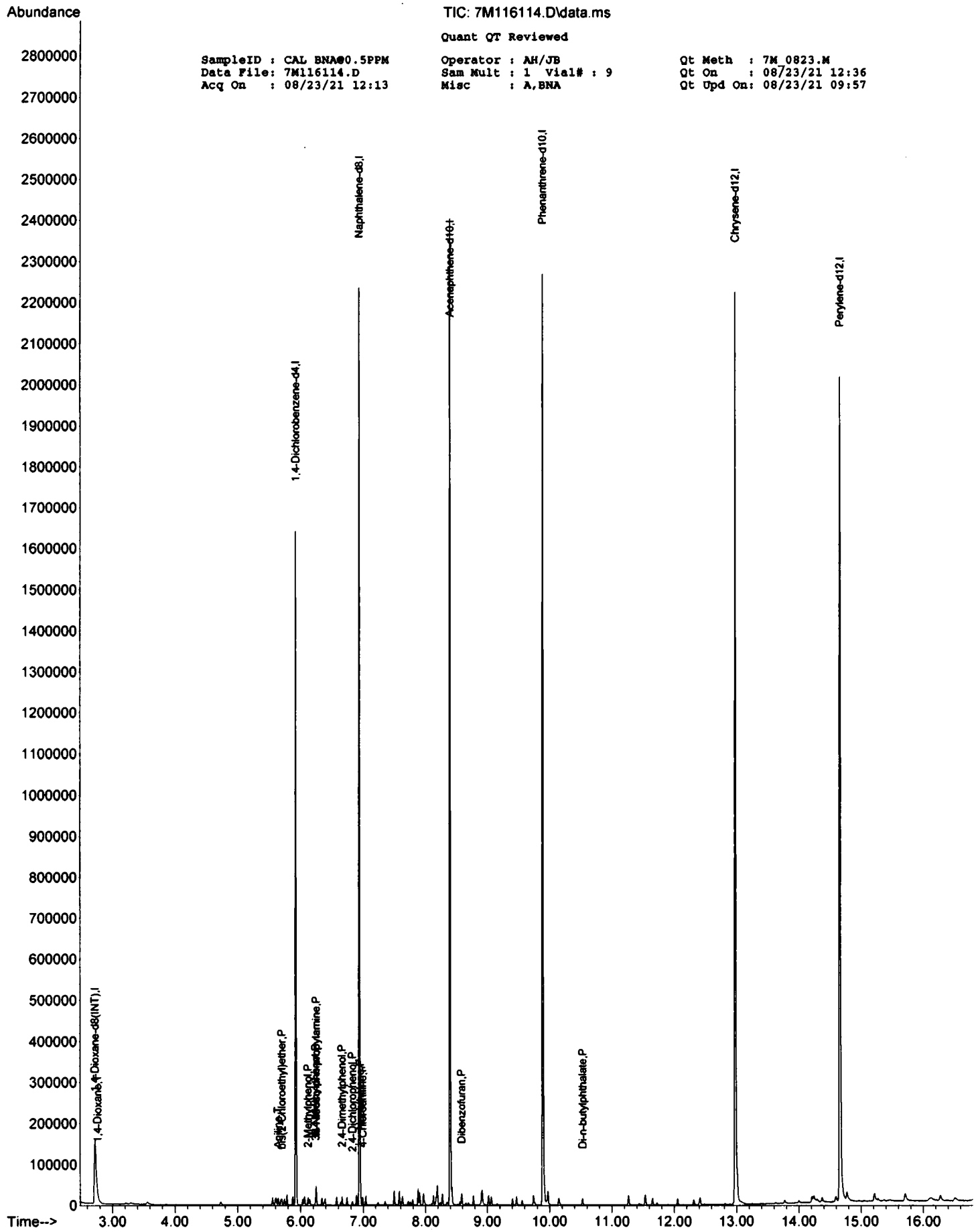
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM  Operator : AH/JB  Qt Meth : 7M_0823.M
Data File: 7M116114.D  Sam Mult : 1 Vial# : 9  Qt On : 08/23/21 12:36
Acq On : 08/23/21 12:13  Misc : A,BNA  Qt Upd On: 08/23/21 09:57

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 0.000 | | 0 | N.D. d | | |
| 67) | 2,4-Dinitrophenol | 0.000 | | 0 | N.D. | | |
| 68) | Dibenzofuran | 8.586 | 168 | 12403 | 0.6216 | ng | 83 |
| 69) | 2,4-Dinitrotoluene | 0.000 | | 0 | N.D. d | | |
| 70) | 4-Nitrophenol | 0.000 | | 0 | N.D. d | | |
| 71) | 2,3,4,6-Tetrachlorophenol | 0.000 | | 0 | N.D. d | | |
| 72) | Fluorene | 0.000 | | 0 | N.D. d | | |
| 73) | 4-Chlorophenyl-phenyle... | 0.000 | | 0 | N.D. d | | |
| 74) | Diethylphthalate | 0.000 | | 0 | N.D. d | | |
| 75) | 4-Nitroaniline | 0.000 | | 0 | N.D. d | | |
| 76) | Atrazine | 0.000 | | 0 | N.D. d | | |
| 78) | 4,6-Dinitro-2-methylph... | 0.000 | | 0 | N.D. | | |
| 79) | n-Nitrosodiphenylamine | 0.000 | | 0 | N.D. d | | |
| 81) | 1,2-Diphenylhydrazine | 0.000 | | 0 | N.D. d | | |
| 82) | 4-Bromophenyl-phenylether | 0.000 | | 0 | N.D. d | | |
| 83) | Hexachlorobenzene | 0.000 | | 0 | N.D. d | | |
| 84) | N-Octadecane | 0.000 | | 0 | N.D. d | | |
| 85) | Pentachlorophenol | 0.000 | | 0 | N.D. d | | |
| 86) | Phenanthrene | 0.000 | | 0 | N.D. d | | |
| 87) | Anthracene | 0.000 | | 0 | N.D. d | | |
| 88) | Carbazole | 0.000 | | 0 | N.D. d | | |
| 89) | Di-n-butylphthalate | 10.531 | 149 | 10456m | 0.3557 | ng | |
| 90) | Fluoranthene | 0.000 | | 0 | N.D. d | | |
| 92) | Pyrene | 0.000 | | 0 | N.D. d | | |
| 93) | Benzidine | 0.000 | | 0 | N.D. d | | |
| 95) | 4,4'-DDE | 0.000 | | 0 | N.D. d | | |
| 96) | 4,4'-DDD | 0.000 | | 0 | N.D. d | | |
| 97) | Butylbenzylphthalate | 0.000 | | 0 | N.D. d | | |
| 98) | 4,4'-DDT | 0.000 | | 0 | N.D. d | | |
| 99) | 3,3'-Dichlorobenzidine | 0.000 | | 0 | N.D. d | | |
| 100) | Benzo[a]anthracene | 0.000 | | 0 | N.D. d | | |
| 101) | Chrysene | 0.000 | | 0 | N.D. d | | |
| 102) | bis(2-Ethylhexyl)phtha... | 0.000 | | 0 | N.D. d | | |
| 104) | Di-n-octylphthalate | 0.000 | | 0 | N.D. d | | |
| 105) | Benzo[b]fluoranthene | 0.000 | | 0 | N.D. d | | |
| 106) | Benzo[k]fluoranthene | 0.000 | | 0 | N.D. d | | |
| 107) | Benzo[a]pyrene | 0.000 | | 0 | N.D. d | | |
| 108) | Indeno[1,2,3-cd]pyrene | 0.000 | | 0 | N.D. d | | |
| 109) | Dibenzo[a,h]anthracene | 0.000 | | 0 | N.D. d | | |
| 110) | Benzo[g,h,i]perylene | 0.000 | | 0 | N.D. d | | |

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


Abundance
TIC: 7M116114.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@0.5PPM
Data File: 7M116114.D
Acq On : 08/23/21 12:13
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 08/23/21 12:36
Qt Upd On: 08/23/21 09:57
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
Bis(2-chloroethyl)ether,P
2-Methylphenol,P
2,4-Dimethylphenol,P
2,4-Dichlorophenol,P
Dibenzofuran,P
Di-n-butylphthalate,P
Time-->

1091738 1048

Method: EPA 8270E

# Form 6
## Initial Calibration

Instrument: GCMS_5

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 5M117928.D | CAL BNA@50PPM | 09/20/21 11:52 | 2 | 5M117921.D | CAL BNA@2PPM | 09/20/21 09:08 |
| 3 | 5M117920.D | CAL BNA@10PPM | 09/20/21 08:44 | 4 | 5M117929.D | CAL BNA@20PPM | 09/20/21 12:46 |
| 5 | 5M117925.D | CAL BNA@80PPM | 09/20/21 10:41 | 6 | 5M117924.D | CAL BNA@120PPM | 09/20/21 10:17 |
| 7 | 5M117923.D | CAL BNA@160PPM | 09/20/21 09:54 | 8 | 5M117922.D | CAL BNA@196PPM | 09/20/21 09:31 |
| 9 | 5M117927.D | CAL BNA@0.5PPM | 09/20/21 11:28 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 0 | Qua | 0.9253 | 0.9047 | 0.9155 | 0.9791 | 0.9613 | 0.9249 | 0.9829 | 1.0203 | 0.3330 | 0.883 | 2.63 | 0.998 | 0.999 | 24 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Pyridine | 1 | 0 | Avg | 1.8956 | 1.6203 | 1.5833 | 2.0005 | 1.9407 | 2.0281 | 2.0203 | 2.0535 | ---- | 1.89 | 3.08 | 0.999 | 1.00 | 9.9 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| N-Nitrosodimethylamin | 1 | 0 | Avg | 1.4135 | 1.2705 | 1.2529 | 1.4817 | 1.4072 | 1.4540 | 1.4481 | 1.5043 | ---- | 1.40 | 3.03 | 0.999 | 1.00 | 6.7 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Fluorophenol | 1 | 0 | Avg | 1.4381 | 1.2508 | 1.2176 | 1.5154 | 1.4813 | 1.5148 | 1.5291 | 1.5296 | ---- | 1.43 | 4.61 | 1.00 | 1.00 | 8.9 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzaldehyde | 1 | 0 | Avg | 1.3508 | 1.3057 | 1.2335 | 1.4894 | 1.3815 | 1.4180 | 1.3434 | 1.3382 | ---- | 1.36 | 5.44 | 0.999 | 0.999 | 5.6 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Aniline | 1 | 0 | Avg | 2.1593 | 2.1373 | 2.0377 | 2.4476 | 2.2185 | 2.2993 | 2.2420 | 2.2329 | 2.4400 | 2.25 | 5.53 | 0.999 | 0.999 | 6.0 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Pentachloroethane | 1 | 0 | Avg | 0.5064 | 0.5089 | 0.4654 | 0.5713 | 0.5153 | 0.5360 | 0.5185 | 0.5189 | ---- | 0.518 | 5.58 | 0.999 | 0.999 | 5.7 | 0.05 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| bis(2-Chloroethyl)ether | 1 | 0 | Avg | 1.4907 | 1.5634 | 1.4330 | 1.6837 | 1.5033 | 1.5462 | 1.4624 | 1.4656 | 1.8419 | 1.55 | 5.59 | 0.999 | 0.999 | 8.4 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Phenol-d5 | 1 | 0 | Avg | 1.6913 | 1.6243 | 1.5534 | 1.9281 | 1.7204 | 1.7919 | 1.7230 | 1.7152 | ---- | 1.72 | 5.50 | 0.999 | 0.999 | 6.5 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Phenol | 1 | 0 | Avg | 2.0369 | 2.0780 | 1.9093 | 2.3112 | 2.0811 | 2.1502 | 2.0679 | 2.0131 | ---- | 2.08 | 5.51 | 0.999 | 0.999 | 5.6 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Chlorophenol | 1 | 0 | Avg | 1.5108 | 1.4468 | 1.3680 | 1.7245 | 1.5609 | 1.6408 | 1.5776 | 1.5582 | ---- | 1.55 | 5.64 | 0.999 | 0.999 | 7.1 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| N-Decane | 1 | 0 | Avg | 1.3416 | 1.4245 | 1.3263 | 1.5601 | 1.3521 | 1.4020 | 1.2686 | 1.2642 | ---- | 1.37 | 5.67 | 0.996 | 0.998 | 7.0 | 0.05 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,3-Dichlorobenzene | 1 | 0 | Avg | 1.7046 | 1.8519 | 1.6395 | 1.9864 | 1.7498 | 1.7743 | 1.7178 | 1.7226 | ---- | 1.77 | 5.77 | 0.999 | 1.00 | 6.1 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,4-Dichlorobenzene | 1 | 0 | Avg | 1.4305 | 1.4612 | 1.3503 | 1.4800 | 1.3753 | 1.3992 | 1.3678 | 1.4395 | ---- | 1.41 | 5.83 | 0.999 | 0.999 | 3.3 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,2-Dichlorobenzene | 1 | 0 | Avg | 1.3053 | 1.3770 | 1.2694 | 1.4118 | 1.2952 | 1.2972 | 1.2629 | 1.3703 | ---- | 1.32 | 5.96 | 0.997 | 0.998 | 4.2 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzyl alcohol | 1 | 0 | Avg | 0.7644 | 0.6467 | 0.6847 | 0.8018 | 0.7703 | 0.7884 | 0.7660 | 0.8523 | ---- | 0.759 | 5.93 | 0.995 | 0.997 | 8.6 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| bis(2-chloroisopropyl)e | 1 | 0 | Avg | 1.2966 | 1.4064 | 1.2637 | 1.3777 | 1.2488 | 1.2623 | 1.1990 | 1.2835 | ---- | 1.29 | 6.04 | 0.999 | 0.999 | 5.3 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Methylphenol | 1 | 0 | Avg | 1.0819 | 1.0255 | 0.9685 | 1.1485 | 1.0864 | 1.1028 | 1.0778 | 1.1733 | 1.0221 | 1.08 | 6.01 | 0.997 | 0.998 | 5.9 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Acetophenone | 1 | 0 | Avg | 1.6438 | 1.6508 | 1.5393 | 1.8087 | 1.6049 | 1.5968 | 1.5474 | 1.6765 | ---- | 1.63 | 6.14 | 0.998 | 0.998 | 5.2 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Hexachloroethane | 1 | 0 | Avg | 0.5209 | 0.4915 | 0.4631 | 0.5398 | 0.5186 | 0.5238 | 0.5200 | 0.5621 | ---- | 0.518 | 6.23 | 0.997 | 0.999 | 5.7 | 0.30 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| N-Nitroso-di-n-propyla | 1 | 0 | Avg | 0.7989 | 0.7425 | 0.7453 | 0.8484 | 0.7840 | 0.7747 | 0.7556 | 0.8148 | 0.8150 | 0.787 | 6.14 | 0.998 | 0.998 | 4.6 | 0.50 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| 3&4-Methylphenol | 1 | 0 | Avg | 1.0944 | 1.0187 | 1.0200 | 1.1851 | 1.0863 | 1.0741 | 1.0322 | 1.1184 | 0.9773 | 1.07 | 6.14 | 0.998 | 0.998 | 5.9 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Nitrobenzene-d5 | 1 | 0 | Avg | 0.1405 | 0.1117 | 0.1188 | 0.1423 | 0.1477 | 0.1391 | 0.1414 | 0.1501 | ---- | 0.136 | 6.27 | 0.999 | 0.999 | 10 | | 25.00 | 1.00 | 5.00 | 10.00 | 40.00 | 60.00 | 80.00 | 98.00 | |
| Nitrobenzene | 1 | 0 | Avg | 0.3309 | 0.2940 | 0.2927 | 0.3385 | 0.3364 | 0.3211 | 0.3254 | 0.3388 | ---- | 0.322 | 6.28 | 0.999 | 0.999 | 5.9 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Isophorone | 1 | 0 | Avg | 0.5969 | 0.4909 | 0.5324 | 0.6079 | 0.5876 | 0.5821 | 0.5807 | 0.6210 | ---- | 0.575 | 6.47 | 0.998 | 0.999 | 7.4 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Nitrophenol | 1 | 0 | Avg | 0.1652 | 0.1176 | 0.1320 | 0.1654 | 0.1712 | 0.1647 | 0.1682 | 0.1740 | ---- | 0.157 | 6.53 | 0.999 | 0.999 | 13 | 0.10 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4-Dimethylphenol | 1 | 0 | Avg | 0.3087 | 0.2708 | 0.2727 | 0.3144 | 0.3056 | 0.3029 | 0.2974 | 0.3090 | 0.2728 | 0.295 | 6.55 | 0.999 | 0.999 | 6.0 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Benzoic Acid | 1 | 0 | Qua | 0.1920 | ---- | 0.0752 | 0.1438 | 0.2219 | 0.2306 | 0.2542 | 0.2652 | ---- | 0.198 | 6.62 | 0.995 | 1.00 | 34 | | 50.00 | | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| bis(2-Chloroethoxy)me | 1 | 0 | Avg | 0.3522 | 0.3411 | 0.3367 | 0.3673 | 0.3502 | 0.3362 | 0.3332 | 0.3541 | ---- | 0.346 | 6.63 | 0.998 | 0.998 | 3.4 | 0.30 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4-Dichlorophenol | 1 | 0 | Avg | 0.2606 | 0.2187 | 0.2339 | 0.2764 | 0.2654 | 0.2589 | 0.2633 | 0.2750 | 0.2013 | 0.250 | 6.71 | 0.999 | 0.999 | 11 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| 1,2,4-Trichlorobenzen | 1 | 0 | Avg | 0.2998 | 0.3069 | 0.2822 | 0.3144 | 0.3023 | 0.2944 | 0.2907 | 0.3096 | ---- | 0.300 | 6.78 | 0.998 | 0.999 | 3.5 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Naphthalene | 1 | 0 | Avg | 0.9337 | 0.9493 | 0.8643 | 0.9549 | 0.9106 | 0.8917 | 0.8322 | 0.9123 | 1.1366 | 0.932 | 6.84 | 0.997 | 0.997 | 9.3 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| 4-Chloroaniline | 1 | 0 | Avg | 0.3631 | 0.3150 | 0.3298 | 0.3729 | 0.3573 | 0.3458 | 0.3503 | 0.3604 | 0.3240 | 0.347 | 6.87 | 0.999 | 0.999 | 5.7 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Hexachlorobutadiene | 1 | 0 | Avg | 0.1870 | 0.1742 | 0.1689 | 0.1931 | 0.1861 | 0.1809 | 0.1801 | 0.1957 | ---- | 0.183 | 6.92 | 0.997 | 0.998 | 5.0 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Caprolactam | 1 | 0 | Qua | 0.0959 | 0.0534 | 0.0727 | 0.0956 | 0.0968 | 0.0974 | 0.1064 | 0.1154 | ---- | 0.0917 | 7.15 | 0.992 | 0.999 | 21 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Chloro-3-methylphe | 1 | 0 | Avg | 0.2625 | 0.2034 | 0.2226 | 0.2757 | 0.2655 | 0.2677 | 0.2666 | 0.2835 | ---- | 0.256 | 7.23 | 0.999 | 0.999 | 11 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Methylnaphthalene | 1 | 0 | Avg | 0.6024 | 0.5676 | 0.5726 | 0.6383 | 0.6105 | 0.5894 | 0.5976 | 0.6335 | ---- | 0.602 | 7.37 | 0.998 | 0.999 | 4.3 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1-Methylnaphthalene | 1 | 0 | Avg | 0.5649 | 0.5701 | 0.5612 | 0.6193 | 0.5774 | 0.5522 | 0.5473 | 0.5790 | ---- | 0.571 | 7.45 | 0.998 | 0.999 | 3.9 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Methylnaphthalenes (T | 1 | 0 | Avg | 0.5833 | 0.5678 | 0.5689 | 0.6239 | 0.5908 | 0.5678 | 0.5690 | 0.6020 | ---- | 0.584 | 7.37 | 0.999 | 0.999 | 3.5 | | 100.0 | 4.00 | 20.00 | 40.00 | 160.0 | 240.0 | 320.0 | 392.0 | |
| 1,1'-Biphenyl | 1 | 0 | Avg | 0.7289 | 0.7014 | 0.6803 | 0.7763 | 0.7142 | 0.6931 | 0.6923 | 0.7388 | ---- | 0.716 | 7.75 | 0.998 | 0.998 | 4.4 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,2,4,5-Tetrachloroben | 1 | 0 | Avg | 0.5870 | 0.6074 | 0.5504 | 0.6461 | 0.6005 | 0.5803 | 0.5945 | 0.6200 | ---- | 0.598 | 7.51 | 0.998 | 0.999 | 4.7 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |

***Flags***

***a - failed the min rf criteria***

***c - failed the minimum correlation coeff criteria(if applicable)***

***Note:*** Avg Rsd: 9.101

***Corr 1 = Correlation Coefficient for linear Eq.***
***Corr 2 = Correlation Coefficient for quad Eq.***
***Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.***

1091738 1049

Method: EPA 8270E

# Form 6
## Initial Calibration

Instrument: GCMS_5

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 5M117928.D | CAL BNA@50PPM | 09/20/21 11:52 | 2 | 5M117921.D | CAL BNA@2PPM | 09/20/21 09:08 |
| 3 | 5M117920.D | CAL BNA@10PPM | 09/20/21 08:44 | 4 | 5M117929.D | CAL BNA@20PPM | 09/20/21 12:46 |
| 5 | 5M117925.D | CAL BNA@80PPM | 09/20/21 10:41 | 6 | 5M117924.D | CAL BNA@120PPM | 09/20/21 10:17 |
| 7 | 5M117923.D | CAL BNA@160PPM | 09/20/21 09:54 | 8 | 5M117922.D | CAL BNA@196PPM | 09/20/21 09:31 |
| 9 | 5M117927.D | CAL BNA@0.5PPM | 09/20/21 11:28 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorocyclopenta | 1 | 0 | Avg | 0.3246 | 0.2447 | 0.2644 | 0.3407 | 0.3429 | 0.3359 | 0.3463 | 0.3661 | ---- | 0.321 | 7.49 | 0.998 | 0.999 | 13 | 0.05 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4,6-Trichlorophenol | 1 | 0 | Avg | 0.3721 | 0.3038 | 0.3171 | 0.4068 | 0.3841 | 0.3825 | 0.3841 | 0.4297 | ---- | 0.373 | 7.59 | 0.993 | 0.997 | 11 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4,5-Trichlorophenol | 1 | 0 | Avg | 0.4018 | 0.3158 | 0.3471 | 0.4148 | 0.4041 | 0.4164 | 0.4242 | 0.4181 | ---- | 0.393 | 7.62 | 0.999 | 1.00 | 10 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Fluorobiphenyl | 1 | 0 | Avg | 1.2920 | 1.2769 | 1.2160 | 1.4009 | 1.2955 | 1.2955 | 1.2921 | 1.3434 | ---- | 1.30 | 7.66 | 0.999 | 0.999 | 4.1 | | 25.00 | 1.00 | 5.00 | 10.00 | 40.00 | 60.00 | 80.00 | 98.00 | |
| 2-Chloronaphthalene | 1 | 0 | Avg | 1.1231 | 1.0676 | 1.0397 | 1.2453 | 1.1088 | 1.0986 | 1.0914 | 1.1420 | ---- | 1.11 | 7.77 | 0.999 | 0.999 | 5.5 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,4-Dimethylnaphthale | 1 | 0 | Avg | 0.8337 | 0.8445 | 0.8206 | 0.9157 | 0.8143 | 0.8143 | 0.7937 | 0.8294 | ---- | 0.833 | 8.05 | 0.999 | 0.999 | 4.4 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Dimethylnaphthalenes | 1 | 0 | Avg | 0.8337 | 0.8445 | 0.8206 | 0.9157 | 0.8143 | 0.8143 | 0.7937 | 0.8294 | ---- | 0.833 | 8.05 | 0.999 | 0.999 | 4.4 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Diphenyl Ether | 1 | 0 | Avg | 0.7916 | 0.7896 | 0.7480 | 0.8583 | 0.7828 | 0.7684 | 0.7782 | 0.7964 | ---- | 0.789 | 7.83 | 0.999 | 1.00 | 4.0 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Nitroaniline | 1 | 0 | Avg | 0.3819 | 0.2761 | 0.3044 | 0.3921 | 0.3775 | 0.3778 | 0.3872 | 0.3964 | ---- | 0.362 | 7.85 | 0.999 | 1.00 | 12 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Coumarin | 1 | 0 | Avg | 0.4137 | 0.3994 | 0.3904 | 0.4582 | 0.4096 | 0.4086 | 0.3994 | 0.4134 | ---- | 0.412 | 8.04 | 0.999 | 0.999 | 5.0 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Acenaphthylene | 1 | 0 | Avg | 1.6340 | 1.5078 | 1.5068 | 1.7766 | 1.6217 | 1.5893 | 1.5671 | 1.6106 | ---- | 1.60 | 8.13 | 0.999 | 0.999 | 5.3 | 0.90 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Dimethylphthalate | 1 | 0 | Avg | 1.2761 | 1.2050 | 1.1862 | 1.3862 | 1.2432 | 1.2404 | 1.2573 | 1.2884 | ---- | 1.26 | 8.00 | 0.999 | 1.00 | 4.8 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,6-Dinitrotoluene | 1 | 0 | Avg | 0.2784 | 0.2208 | 0.2551 | 0.3006 | 0.2760 | 0.2729 | 0.2717 | 0.2797 | ---- | 0.269 | 8.06 | 0.999 | 1.00 | 8.6 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Acenaphthene | 1 | 0 | Avg | 1.0525 | 1.0877 | 1.0025 | 1.1877 | 1.0474 | 1.0432 | 1.0355 | 1.0791 | ---- | 1.07 | 8.28 | 0.999 | 0.999 | 5.2 | 0.90 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 3-Nitroaniline | 1 | 0 | Avg | 0.3076 | 0.2246 | 0.2600 | 0.3319 | 0.3102 | 0.3051 | 0.3056 | 0.3183 | ---- | 0.295 | 8.20 | 0.999 | 0.999 | 12 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4-Dinitrophenol | 1 | 0 | Qua | 0.1432 | ---- | 0.0791 | 0.1286 | 0.1662 | 0.1725 | 0.1827 | 0.1887 | ---- | 0.152 | 8.29 | 0.997 | 1.00 | 25 | 0.20 a | 50.00 | | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Dibenzofuran | 1 | 0 | Avg | 1.5749 | 1.5921 | 1.4855 | 1.7121 | 1.5390 | 1.5245 | 1.5101 | 1.5402 | 1.9131 | 1.60 | 8.43 | 1.00 | 1.00 | 8.4 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| 2,4-Dinitrotoluene | 1 | 0 | Qua | 0.3843 | 0.2556 | 0.3107 | 0.4034 | 0.3969 | 0.3912 | 0.4001 | 0.4065 | ---- | 0.369 | 8.41 | 1.00 | 1.00 | 15 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Nitrophenol | 1 | 0 | Qua | 0.2288 | 0.1226 | 0.1702 | 0.2380 | 0.2432 | 0.2396 | 0.2532 | 0.2615 | ---- | 0.220 | 8.32 | 0.998 | 1.00 | 22 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,3,4,6-Tetrachlorophe | 1 | 0 | Avg | 0.3513 | 0.2576 | 0.2851 | 0.3661 | 0.3436 | 0.3478 | 0.3476 | 0.3678 | ---- | 0.333 | 8.54 | 0.998 | 0.999 | 12 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Fluorene | 1 | 0 | Avg | 1.2450 | 1.2288 | 1.1524 | 1.3672 | 1.2103 | 1.2218 | 1.2059 | 1.2439 | ---- | 1.23 | 8.76 | 0.999 | 1.00 | 4.9 | 0.90 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Chlorophenyl-phenyl | 1 | 0 | Avg | 0.6261 | 0.6184 | 0.5837 | 0.6861 | 0.6238 | 0.6240 | 0.6324 | 0.6600 | ---- | 0.632 | 8.74 | 0.999 | 1.00 | 4.8 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Diethylphthalate | 1 | 0 | Avg | 1.2369 | 1.0911 | 1.0627 | 1.3203 | 1.2208 | 1.2305 | 1.2321 | 1.2759 | ---- | 1.21 | 8.63 | 0.999 | 1.00 | 7.3 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Nitroaniline | 1 | 0 | Avg | 0.3329 | 0.2146 | 0.2715 | 0.3501 | 0.3315 | 0.3319 | 0.3380 | 0.3426 | ---- | 0.314 | 8.77 | 1.00 | 1.00 | 15 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Atrazine | 1 | 0 | Avg | 0.3852 | 0.2856 | 0.3083 | 0.3943 | 0.3848 | 0.3859 | 0.3947 | 0.4034 | ---- | 0.368 | 9.39 | 0.999 | 0.999 | 12 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4,6-Dinitro-2-methylph | 1 | 0 | Qua | 0.1167 | 0.0457 | 0.0741 | 0.1062 | 0.1212 | 0.1258 | 0.1280 | 0.1298 | ---- | 0.106 | 8.79 | 0.998 | 0.999 | 29 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| n-Nitrosodiphenylamin | 1 | 0 | Avg | 0.5546 | 0.4943 | 0.5059 | 0.6144 | 0.5292 | 0.5578 | 0.5405 | 0.5606 | ---- | 0.545 | 8.86 | 0.999 | 0.999 | 6.8 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4,6-Tribromophenol | 1 | 0 | Avg | 0.1022 | 0.0694 | 0.0828 | 0.1063 | 0.0989 | 0.1020 | 0.0988 | 0.1022 | ---- | 0.0954 | 8.99 | 0.999 | 0.999 | 13 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,2-Diphenylhydrazine | 1 | 0 | Avg | 0.6900 | 0.5583 | 0.5718 | 0.6781 | 0.5980 | 0.6858 | 0.6589 | 0.6865 | ---- | 0.641 | 8.90 | 0.998 | 0.998 | 8.7 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Bromophenyl-phenyl | 1 | 0 | Avg | 0.2030 | 0.1755 | 0.1782 | 0.2155 | 0.2016 | 0.2079 | 0.2040 | 0.2124 | ---- | 0.200 | 9.24 | 0.999 | 0.999 | 7.5 | 0.10 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Hexachlorobenzene | 1 | 0 | Avg | 0.2176 | 0.2210 | 0.2059 | 0.2366 | 0.2084 | 0.2162 | 0.2113 | 0.2205 | ---- | 0.217 | 9.30 | 0.999 | 0.999 | 4.4 | 0.10 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| N-Octadecane | 1 | 0 | Avg | 0.3254 | 0.2605 | 0.2878 | 0.3543 | 0.3117 | 0.3272 | 0.2992 | 0.2974 | ---- | 0.308 | 9.56 | 0.997 | 0.999 | 9.2 | 0.05 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Pentachlorophenol | 1 | 0 | Qua | 0.1392 | 0.0660 | 0.0955 | 0.1365 | 0.1396 | 0.1492 | 0.1509 | 0.1551 | ---- | 0.129 | 9.50 | 0.999 | 1.00 | 24 | 0.05 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Phenanthrene | 1 | 0 | Avg | 0.9301 | 0.9651 | 0.8852 | 1.0443 | 0.9116 | 0.9412 | 0.9032 | 0.9468 | ---- | 0.941 | 9.74 | 0.999 | 0.999 | 5.2 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Anthracene | 1 | 0 | Avg | 0.9755 | 0.8840 | 0.8771 | 1.0748 | 0.9357 | 0.9675 | 0.9364 | 0.9541 | ---- | 0.951 | 9.80 | 0.999 | 0.999 | 6.5 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Carbazole | 1 | 0 | Avg | 0.8767 | 0.7631 | 0.7897 | 0.9537 | 0.8695 | 0.8871 | 0.8532 | 0.8767 | ---- | 0.859 | 9.96 | 0.999 | 0.999 | 6.9 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Di-n-butylphthalate | 1 | 0 | Qua | 1.0464 | 0.6986 | 0.8020 | 1.1085 | 1.0186 | 1.0776 | 1.0550 | 1.0757 | 0.6892 | 0.952 | 10.34 | 0.999 | 1.00 | 18 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Fluoranthene | 1 | 0 | Avg | 1.0964 | 0.8941 | 0.9333 | 1.1665 | 1.0408 | 1.0953 | 1.0564 | 1.0729 | ---- | 1.04 | 11.07 | 0.999 | 0.999 | 8.6 | 0.60 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Pyrene | 1 | 0 | Avg | 1.1013 | 1.0044 | 1.0290 | 1.1884 | 1.1180 | 1.1237 | 1.1114 | 1.1783 | ---- | 1.11 | 11.34 | 0.998 | 0.999 | 5.8 | 0.60 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzidine | 1 | 0 | Qua | 0.6561 | 0.3375 | 0.4756 | 0.6737 | 0.6831 | 0.6853 | 0.6637 | 0.7010 | ---- | 0.610 | 11.23 | 0.999 | 0.999 | 22 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Terphenyl-d14 | 1 | 0 | Avg | 0.6072 | 0.5089 | 0.5306 | 0.6331 | 0.6216 | 0.6174 | 0.6288 | 0.6839 | ---- | 0.604 | 11.52 | 0.996 | 0.998 | 9.4 | | 25.00 | 1.00 | 5.00 | 10.00 | 40.00 | 60.00 | 80.00 | 96.00 | |

Avg Rsd: 9.101

***Flags***

***a - failed the min rf criteria***

***c - failed the minimum correlation coeff criteria(if applicable)***

***Note:***

***Corr 1 = Correlation Coefficient for linear Eq.***

***Corr 2 = Correlation Coefficient for quad Eq.***

***Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.***

1091738 1050

Method: EPA 8270E

# Form 6
## Initial Calibration

Instrument: GCMS_5

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 5M117928.D | CAL BNA@50PPM | 09/20/21 11:52 | 2 | 5M117921.D | CAL BNA@2PPM | 09/20/21 09:08 |
| 3 | 5M117920.D | CAL BNA@10PPM | 09/20/21 08:44 | 4 | 5M117929.D | CAL BNA@20PPM | 09/20/21 12:46 |
| 5 | 5M117925.D | CAL BNA@80PPM | 09/20/21 10:41 | 6 | 5M117924.D | CAL BNA@120PPM | 09/20/21 10:17 |
| 7 | 5M117923.D | CAL BNA@160PPM | 09/20/21 09:54 | 8 | 5M117922.D | CAL BNA@196PPM | 09/20/21 09:31 |
| 9 | 5M117927.D | CAL BNA@0.5PPM | 09/20/21 11:28 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | 1 | 0 | Avg | 0.2645 | 0.2318 | 0.2471 | 0.2861 | 0.2814 | 0.2900 | 0.2937 | 0.3200 | ---- | 0.277 | 11.45 | 0.995 | 0.999 | 10 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4,4'-DDD | 1 | 0 | Avg | 0.4531 | 0.3232 | 0.3759 | 0.4746 | 0.4616 | 0.4707 | 0.4711 | 0.4968 | ---- | 0.441 | 11.85 | 0.999 | 0.999 | 13 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Butylbenzylphthalate | 1 | 0 | Qua | 0.4611 | 0.2600 | 0.3427 | 0.4786 | 0.4878 | 0.4955 | 0.4877 | 0.5276 | ---- | 0.443 | 12.11 | 0.997 | 0.999 | 21 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4,4'-DDT | 1 | 0 | Avg | 0.3946 | 0.2625 | 0.3271 | 0.4151 | 0.3952 | 0.4086 | 0.4032 | 0.4311 | ---- | 0.380 | 12.21 | 0.998 | 0.999 | 15 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 3,3'-Dichlorobenzidine | 1 | 0 | Qua | 0.4179 | 0.2352 | 0.3208 | 0.4336 | 0.4300 | 0.4396 | 0.4235 | 0.4434 | ---- | 0.393 | 12.73 | 0.999 | 0.999 | 19 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[a]anthracene | 1 | 0 | Avg | 1.0864 | 0.9627 | 0.9764 | 1.1486 | 1.0945 | 1.0967 | 1.0913 | 1.1792 | ---- | 1.08 | 12.76 | 0.997 | 0.999 | 7.0 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Chrysene | 1 | 0 | Avg | 1.0368 | 1.0501 | 1.0271 | 1.1542 | 1.0414 | 1.0505 | 1.0280 | 1.1015 | ---- | 1.06 | 12.80 | 0.998 | 0.999 | 4.2 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| bis(2-Ethylhexyl)phthal | 1 | 0 | Qua | 0.6449 | 0.3692 | 0.5102 | 0.6620 | 0.6713 | 0.6911 | 0.6878 | 0.7333 | ---- | 0.621 | 12.80 | 0.998 | 0.999 | 19 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Di-n-octylphthalate | 1 | 0 | Qua | 0.9931 | 0.4295 | 0.6310 | 0.9922 | 1.0259 | 1.0385 | 1.0389 | 1.1029 | ---- | 0.907 | 13.55 | 0.998 | 0.999 | 27 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[b]fluoranthene | 1 | 0 | Avg | 1.0112 | 0.7167 | 0.8575 | 1.0458 | 0.9643 | 0.9384 | 0.9921 | 1.0157 | ---- | 0.943 | 13.97 | 0.999 | 0.999 | 11 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[k]fluoranthene | 1 | 0 | Avg | 0.9400 | 0.8946 | 0.9027 | 1.0392 | 0.9635 | 0.9558 | 0.8874 | 1.0167 | ---- | 0.950 | 14.00 | 0.993 | 0.994 | 5.9 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[a]pyrene | 1 | 0 | Avg | 0.9256 | 0.7005 | 0.7672 | 0.9707 | 0.9247 | 0.9133 | 0.9075 | 0.9802 | ---- | 0.886 | 14.32 | 0.998 | 0.999 | 11 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Indeno[1,2,3-cd]pyren | 1 | 0 | Avg | 1.0787 | 0.8701 | 0.9178 | 1.1274 | 1.0781 | 1.0823 | 1.0774 | 1.1711 | ---- | 1.05 | 15.70 | 0.998 | 0.999 | 9.8 | 0.50 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Dibenzo[a,h]anthracen | 1 | 0 | Avg | 0.9248 | 0.7185 | 0.7786 | 0.9706 | 0.9321 | 0.9256 | 0.8999 | 0.9703 | ---- | 0.890 | 15.72 | 0.998 | 0.998 | 10 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[g,h,i]perylene | 1 | 0 | Avg | 0.9093 | 0.7624 | 0.7918 | 0.9480 | 0.9014 | 0.8945 | 0.8987 | 0.9800 | ---- | 0.886 | 16.08 | 0.996 | 0.998 | 8.3 | 0.50 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |

| *Flags* | *Note:* Avg Rsd: 9.101 |
|---|---|
| *a - failed the min rf criteria* | *Corr 1 = Correlation Coefficient for linear Eq.* |
| *c - failed the minimum correlation coeff criteria(if applicable)* | *Corr 2 = Correlation Coefficient for quad Eq.* |
| | *Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.* |

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117928.D Sam Mult : 1 Vial# : 10 Qt On : 09/20/21 12:10
Acq On : 09/20/21 11:52 Misc : A,BNA Qt Upd On: 08/23/21 13:09

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.595 | 96 | 93206 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 115525 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.821 | 136 | 444850 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.253 | 164 | 235369 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.711 | 188 | 459673 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.772 | 240 | 461393 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.386 | 264 | 502985 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.609 | 112 | 167552 | 47.85 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 47.85% | | | |
| 16) Phenol-d5 | 5.496 | 99 | 197049 | 46.98 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 46.98% | | | |
| 32) Nitrobenzene-d5 | 6.266 | 128 | 39079 | 27.43 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 54.86% | | | |
| 55) 2-Fluorobiphenyl | 7.660 | 172 | 190068 | 23.56 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 47.12% | | | |
| 80) 2,4,6-Tribromophenol | 8.990 | 330 | 58742 | 47.01 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 47.01% | | | |
| 94) Terphenyl-d14 | 11.517 | 244 | 175107 | 25.57 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 51.14% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.628 | 88 | 107807m | 47.2448 | ng | |
| 9) Pyridine | 3.082 | 79 | 220853 | 47.3961 | ng | 67 |
| 10) N-Nitrosodimethylamine | 3.034 | 74 | 164686 | 51.4103 | ng | 70 |
| 12) Benzaldehyde | 5.443 | 77 | 157379 | 48.5213 | ng | 79 |
| 13) Aniline | 5.534 | 93 | 251582 | 42.5815 | ng | 61 |
| 14) Pentachloroethane | 5.576 | 117 | 59004 | 39.4065 | ng | 71 |
| 15) bis(2-Chloroethyl)ether | 5.592 | 93 | 173687 | 44.5765 | ng | 79 |
| 17) Phenol | 5.507 | 94 | 237325 | 43.8043 | ng | 86 |
| 18) 2-Chlorophenol | 5.635 | 128 | 176027 | 39.8558 | ng | 78 |
| 19) N-Decane | 5.673 | 57 | 156306 | 46.9601 | ng | 97 |
| 20) 1,3-Dichlorobenzene | 5.769 | 146 | 198603 | 37.8242 | ng | 96 |
| 22) 1,4-Dichlorobenzene | 5.828 | 146 | 206576 | 47.8080 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 5.956 | 146 | 188499 | 46.9775 | ng | 98 |
| 24) Benzyl alcohol | 5.929 | 108 | 110387 | 51.4038 | ng | 78 |
| 25) bis(2-chloroisopropyl)... | 6.041 | 45 | 187246 | 71.9345 | ng | 91 |
| 26) 2-Methylphenol | 6.015 | 108 | 156234 | 52.5245 | ng | 97 |
| 27) Acetophenone | 6.143 | 105 | 237378 | 48.7747 | ng | 78 |
| 28) Hexachloroethane | 6.228 | 117 | 75228 | 50.0944 | ng | 90 |
| 29) N-Nitroso-di-n-propyla... | 6.143 | 70 | 115369 | 54.5288 | ng | 73 |
| 30) 3&4-Methylphenol | 6.137 | 108 | 158039 | 49.9452 | ng | 97 |
| 33) Nitrobenzene | 6.282 | 77 | 184009 | 52.6314 | ng | 82 |
| 34) Isophorone | 6.469 | 82 | 331931 | 52.4879 | ng | 85 |
| 35) 2-Nitrophenol | 6.527 | 139 | 91902 | 46.9613 | ng | 92 |
| 36) 2,4-Dimethylphenol | 6.554 | 107 | 171672 | 46.5750 | ng | 97 |
| 37) Benzoic Acid | 6.624 | 105 | 106799 | 47.1983 | ng | 89 |
| 38) bis(2-Chloroethoxy)met... | 6.629 | 93 | 195878 | 52.9403 | ng | 96 |
| 39) 2,4-Dichlorophenol | 6.709 | 162 | 144955 | 43.2941 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.778 | 180 | 166753 | 40.3398 | ng | 97 |
| 41) Naphthalene | 6.837 | 128 | 519218 | 45.5753 | ng | 100 |
| 42) 4-Chloroaniline | 6.875 | 127 | 201942m | 46.6055 | ng | |
| 43) Hexachlorobutadiene | 6.923 | 225 | 104029 | 36.0402 | ng | 97 |
| 44) Caprolactam | 7.152 | 113 | 53363 | 53.0170 | ng | 70 |
| 45) 4-Chloro-3-methylphenol | 7.233 | 107 | 145972 | 47.2522 | ng | 86 |
| 46) 2-Methylnaphthalene | 7.371 | 142 | 335006 | 42.8487 | ng | 96 |
| 47) 1-Methylnaphthalene | 7.452 | 142 | 314162 | 43.1080 | ng | 91 |
| 48) Methylnaphthalenes (To... | 7.371 | 142 | 648778m | 86.1514 | ng | |
| 49) 1,1'-Biphenyl | 7.745 | 154 | 405330 | 36.8433 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.505 | 216 | 172702 | 37.6740 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.489 | 237 | 95513 | 33.7350 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.590 | 196 | 109502m | 41.1201 | ng | |
| 54) 2,4,5-Trichlorophenol | 7.623 | 196 | 118223m | 42.0837 | ng | |
| 56) 2-Chloronaphthalene | 7.772 | 162 | 330449 | 45.8129 | ng | 90 |
| 57) 1,4-Dimethylnaphthalene | 8.050 | 156 | 245293 | 39.7435 | ng | 92 |
| 58) Dimethylnaphthalenes (... | 8.050 | 156 | 245293 | 39.7435 | ng | 92 |
| 59) Diphenyl Ether | 7.831 | 170 | 232924 | 43.2475 | ng | 80 |
| 60) 2-Nitroaniline | 7.847 | 65 | 112375 | 56.8017 | ng | 62 |
| 61) Coumarin | 8.039 | 146 | 121714 | 41.5096 | ng | 81 |
| 62) Acenaphthylene | 8.130 | 152 | 480754 | 44.6148 | ng | 100 |
| 63) Dimethylphthalate | 7.996 | 163 | 375459 | 45.6027 | ng | 99 |
| 64) 2,6-Dinitrotoluene | 8.055 | 165 | 81914 | 43.6996 | ng | 62 |
| 65) Acenaphthene | 8.280 | 153 | 309661 | 45.0920 | ng | 96 |

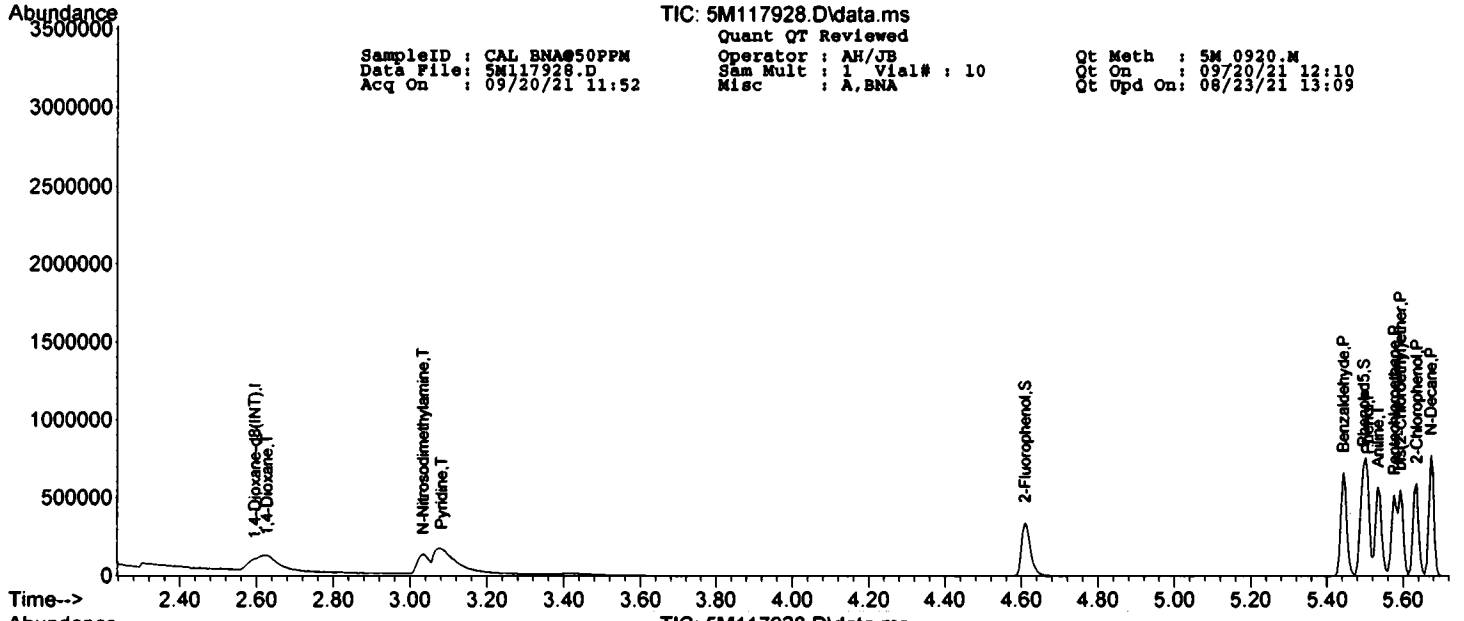
Quantitation Report (QT Reviewed)

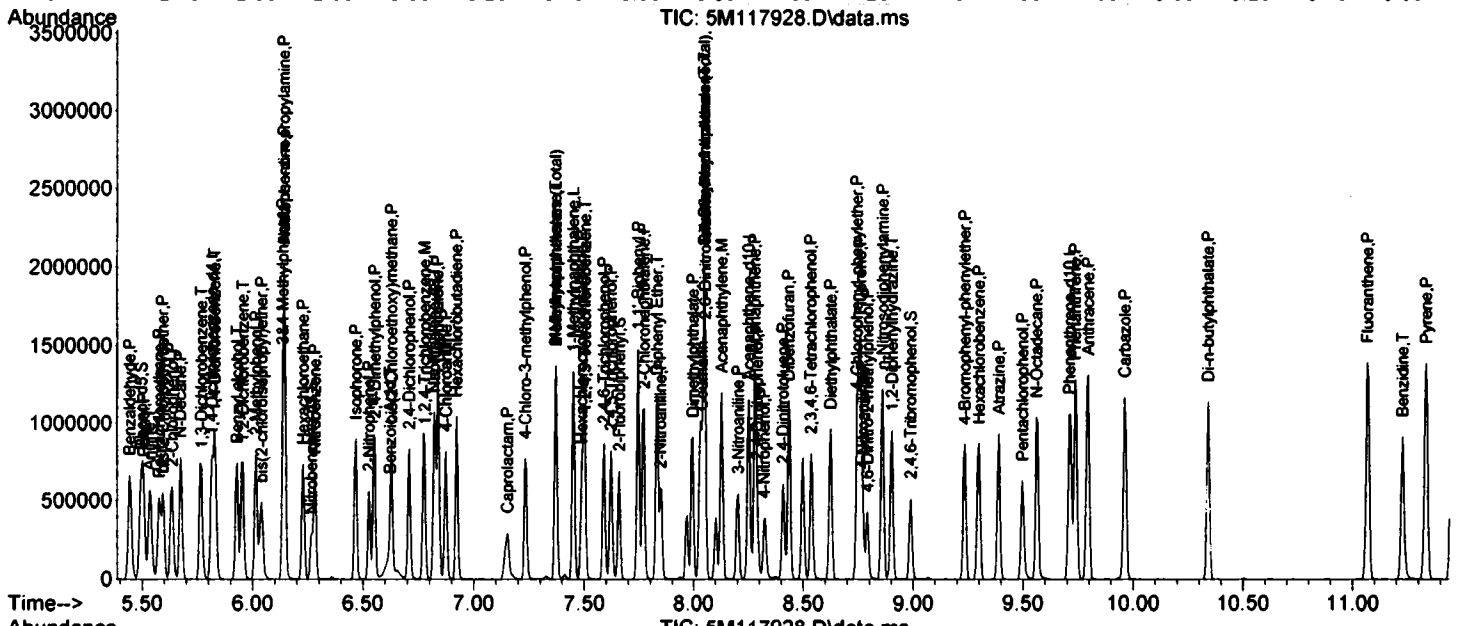
SampleID : CAL BNA@50PPM  Operator : AH/JB  Qt Meth : 5M_0920.M
Data File: 5M117928.D  Sam Mult : 1  Vial# : 10  Qt On : 09/20/21 12:10
Acq On : 09/20/21 11:52  Misc : A,BNA  Qt Upd On: 08/23/21 13:09

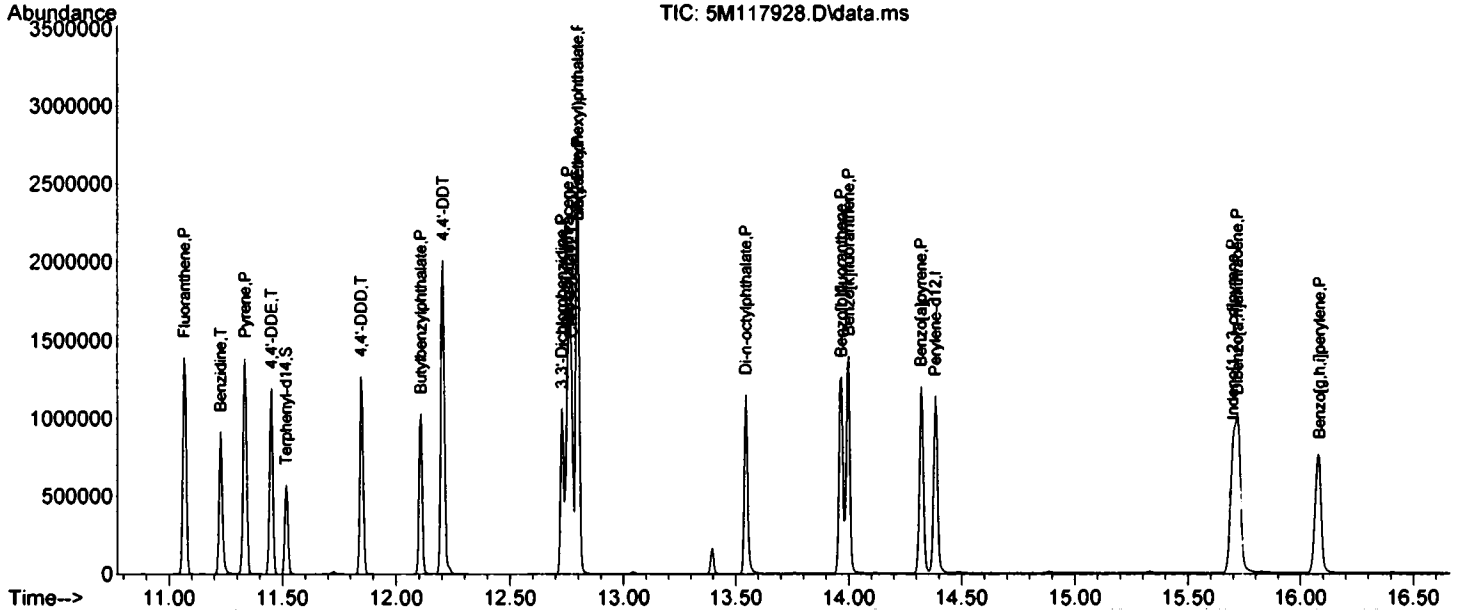
Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.205 | 138 | 90498 | 49.5704 | ng | 78 |
| 67) | 2,4-Dinitrophenol | 8.290 | 184 | 42140 | 37.2033 | ng | 48 |
| 68) | Dibenzofuran | 8.435 | 168 | 463368 | 44.1397 | ng | 89 |
| 69) | 2,4-Dinitrotoluene | 8.408 | 165 | 113082 | 46.7762 | ng | 66 |
| 70) | 4-Nitrophenol | 8.322 | 65 | 67339 | 53.3535 | ng | 82 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.536 | 232 | 103367 | 39.1126 | ng | 83 |
| 72) | Fluorene | 8.760 | 166 | 366308 | 43.3823 | ng | 100 |
| 73) | 4-Chlorophenyl-phenyle... | 8.744 | 204 | 184212 | 38.4582 | ng | 84 |
| 74) | Diethylphthalate | 8.627 | 149 | 363912 | 47.3435 | ng | 96 |
| 75) | 4-Nitroaniline | 8.771 | 138 | 97958 | 48.8074 | ng | 80 |
| 76) | Atrazine | 9.391 | 200 | 113357 | 40.5992 | ng | 97 |
| 78) | 4,6-Dinitro-2-methylph... | 8.792 | 198 | 67060 | 46.2392 | ng | 68 |
| 79) | n-Nitrosodiphenylamine | 8.862 | 169 | 318712 | 48.5983 | ng | 99 |
| 81) | 1,2-Diphenylhydrazine | 8.905 | 77 | 396481 | 65.9920 | ng | 80 |
| 82) | 4-Bromophenyl-phenylether | 9.236 | 248 | 116641 | 41.0945 | ng | 81 |
| 83) | Hexachlorobenzene | 9.300 | 284 | 125032 | 38.3463 | ng | 63 |
| 84) | N-Octadecane | 9.562 | 57 | 186974 | 63.7444 | ng | 74 |
| 85) | Pentachlorophenol | 9.498 | 266 | 80017 | 38.8095 | ng | 97 |
| 86) | Phenanthrene | 9.738 | 178 | 534453 | 45.8372 | ng | 100 |
| 87) | Anthracene | 9.797 | 178 | 560536 | 47.3316 | ng | 100 |
| 88) | Carbazole | 9.962 | 167 | 503785 | 48.9411 | ng | 98 |
| 89) | Di-n-butylphthalate | 10.342 | 149 | 601267 | 54.5130 | ng | 98 |
| 90) | Fluoranthene | 11.068 | 202 | 630022 | 45.2617 | ng | 89 |
| 92) | Pyrene | 11.335 | 202 | 635213 | 51.1868 | ng | 84 |
| 93) | Benzidine | 11.229 | 184 | 378421 | 58.7159 | ng | 84 |
| 95) | 4,4'-DDE | 11.453 | 246 | 152557 | 49.5451 | ng | 95 |
| 96) | 4,4'-DDD | 11.848 | 235 | 261370 | 51.1767 | ng | 96 |
| 97) | Butylbenzylphthalate | 12.110 | 149 | 265968 | 61.6386 | ng | 70 |
| 98) | 4,4'-DDT | 12.206 | 235 | 227597 | 51.9408 | ng | 98 |
| 99) | 3,3'-Dichlorobenzidine | 12.730 | 252 | 241054 | 47.9249 | ng | 95 |
| 100) | Benzo[a]anthracene | 12.756 | 228 | 626614 | 47.3934 | ng | 100 |
| 101) | Chrysene | 12.799 | 228 | 597985 | 45.9660 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.799 | 149 | 371972 | 57.2659 | ng | 93 |
| 104) | Di-n-octylphthalate | 13.547 | 149 | 624406 | 59.0903 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 13.969 | 252 | 635814 | 46.5611 | ng | 95 |
| 106) | Benzo[k]fluoranthene | 14.001 | 252 | 591027 | 45.0131 | ng | 91 |
| 107) | Benzo[a]pyrene | 14.322 | 252 | 581954 | 45.6619 | ng | 91 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.700 | 276 | 678227 | 46.3735 | ng | 73 |
| 109) | Dibenzo[a,h]anthracene | 15.721 | 278 | 581469 | 46.3136 | ng | 92 |
| 110) | Benzo[g,h,i]perylene | 16.085 | 276 | 571722 | 46.7160 | ng | 71 |

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


Abundance
TIC: 5M117928.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 5M117928.D
Acq On : 09/20/21 11:52
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09/20/21 12:10
Qt Upd On: 08/23/21 13:09
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->


Abundance
TIC: 5M117928.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
3-Nitroaniline,P
Acenaphthylene,M
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 5M117928.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA02PPM  Operator : AH/JB  Qt Meth : 5M_0920.M
Data File: 5M117921.D  Sam Mult : 1 Vial# : 3  Qt On : 09/20/21 09:23
Acq On : 09/20/21 09:08  Misc : A,BNA  Qt Upd On: 08/23/21 13:09

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.595 | 96 | 103990 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 135074 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.821 | 136 | 531816 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.247 | 164 | 277631 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.711 | 188 | 544388 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.767 | 240 | 542888 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.386 | 264 | 597404 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.609 | 112 | 6504m | 1.66 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.66% | | | |
| 16) Phenol-d5 | 5.491 | 99 | 8446 | 1.80 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.80% | | | |
| 32) Nitrobenzene-d5 | 6.265 | 128 | 1486 | 0.87 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 1.74% | | | |
| 55) 2-Fluorobiphenyl | 7.660 | 172 | 8863 | 0.93 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 1.86% | | | |
| 80) 2,4,6-Tribromophenol | 8.990 | 330 | 1890 | 1.28 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.28% | | | |
| 94) Terphenyl-d14 | 11.517 | 244 | 6907 | 0.86 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 1.72% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.633 | 88 | 4704m | 1.8477 | ng | |
| 9) Pyridine | 3.124 | 79 | 8425 | 1.6205 | ng | 71 |
| 10) N-Nitrosodimethylamine | 3.044 | 74 | 6606 | 1.8483 | ng | 80 |
| 12) Benzaldehyde | 5.443 | 77 | 6789 | 1.8760 | ng | 81 |
| 13) Aniline | 5.534 | 93 | 11113m | 1.6859 | ng | |
| 14) Pentachloroethane | 5.576 | 117 | 2646 | 1.5839 | ng | 71 |
| 15) bis(2-Chloroethyl)ether | 5.592 | 93 | 8129 | 1.8699 | ng | 75 |
| 17) Phenol | 5.501 | 94 | 10805 | 1.7875 | ng | 84 |
| 18) 2-Chlorophenol | 5.630 | 128 | 7523 | 1.5267 | ng | 79 |
| 19) N-Decane | 5.672 | 57 | 7407 | 1.9946 | ng | 99 |
| 20) 1,3-Dichlorobenzene | 5.763 | 146 | 9629 | 1.6437 | ng | 96 |
| 22) 1,4-Dichlorobenzene | 5.827 | 146 | 9869 | 1.9534 | ng | 98 |
| 23) 1,2-Dichlorobenzene | 5.950 | 146 | 9300 | 1.9823 | ng | 97 |
| 24) Benzyl alcohol | 5.923 | 108 | 4368 | 1.7397 | ng | 74 |
| 25) bis(2-chloroisopropyl)... | 6.036 | 45 | 9499 | 3.1211 | ng | 95 |
| 26) 2-Methylphenol | 6.014 | 108 | 6926 | 1.9915 | ng | 96 |
| 27) Acetophenone | 6.143 | 105 | 11149 | 1.9593 | ng | 65 |
| 28) Hexachloroethane | 6.228 | 117 | 3320 | 1.8908 | ng | 86 |
| 29) N-Nitroso-di-n-propyla... | 6.143 | 70 | 5015 | 2.0273 | ng | 72 |
| 30) 3&4-Methylphenol | 6.137 | 108 | 6880 | 1.8596 | ng | 99 |
| 33) Nitrobenzene | 6.276 | 77 | 7818 | 1.8705 | ng | 90 |
| 34) Isophorone | 6.463 | 82 | 13054 | 1.7267 | ng | 88 |
| 35) 2-Nitrophenol | 6.527 | 139 | 3127 | 1.3366 | ng | 89 |
| 36) 2,4-Dimethylphenol | 6.549 | 107 | 7202 | 1.6344 | ng | 97 |
| 37) Benzoic Acid | 0.000 | | 0 | N.D. d | | |
| 38) bis(2-Chloroethoxy)met... | 6.623 | 93 | 9070 | 2.0505 | ng | 98 |
| 39) 2,4-Dichlorophenol | 6.709 | 162 | 5817 | 1.4533 | ng | 86 |
| 40) 1,2,4-Trichlorobenzene | 6.773 | 180 | 8162 | 1.6516 | ng | 92 |
| 41) Naphthalene | 6.837 | 128 | 25243 | 1.8534 | ng | 99 |
| 42) 4-Chloroaniline | 6.874 | 127 | 8376 | 1.6170 | ng | 95 |
| 43) Hexachlorobutadiene | 6.923 | 225 | 4632 | 1.3423 | ng | 90 |
| 44) Caprolactam | 7.115 | 113 | 1420 | 1.1801 | ng | 54 |
| 45) 4-Chloro-3-methylphenol | 7.227 | 107 | 5411 | 1.4652 | ng | 84 |
| 46) 2-Methylnaphthalene | 7.371 | 142 | 15094 | 1.6149 | ng | 91 |
| 47) 1-Methylnaphthalene | 7.451 | 142 | 15160 | 1.7400 | ng | 94 |
| 48) Methylnaphthalenes (To... | 7.371 | 142 | 30198m | 3.3543 | ng | |
| 49) 1,1'-Biphenyl | 7.745 | 154 | 18652 | 1.4182 | ng | 92 |
| 51) 1,2,4,5-Tetrachloroben... | 7.499 | 216 | 8432 | 1.5594 | ng | 95 |
| 52) Hexachlorocyclopentadiene | 7.489 | 237 | 3397 | 1.0172 | ng | 97 |
| 53) 2,4,6-Trichlorophenol | 7.590 | 196 | 4218 | 1.3428 | ng | 97 |
| 54) 2,4,5-Trichlorophenol | 7.617 | 196 | 4385 | 1.3233 | ng | 92 |
| 56) 2-Chloronaphthalene | 7.767 | 162 | 14821 | 1.7420 | ng | 93 |
| 57) 1,4-Dimethylnaphthalene | 8.044 | 156 | 11723 | 1.6103 | ng | 87 |
| 58) Dimethylnaphthalenes (... | 8.044 | 156 | 11723 | 1.6103 | ng | 87 |
| 59) Diphenyl Ether | 7.831 | 170 | 10962 | 1.7255 | ng | 76 |
| 60) 2-Nitroaniline | 7.847 | 65 | 3833 | 1.6425 | ng | 44 |
| 61) Coumarin | 8.028 | 146 | 5545 | 1.6032 | ng | 88 |
| 62) Acenaphthylene | 8.124 | 152 | 20931 | 1.6467 | ng | 96 |
| 63) Dimethylphthalate | 7.986 | 163 | 16728 | 1.7225 | ng | 97 |
| 64) 2,6-Dinitrotoluene | 8.044 | 165 | 3066 | 1.3867 | ng | 73 |
| 65) Acenaphthene | 8.279 | 153 | 15100 | 1.8641 | ng | 97 |

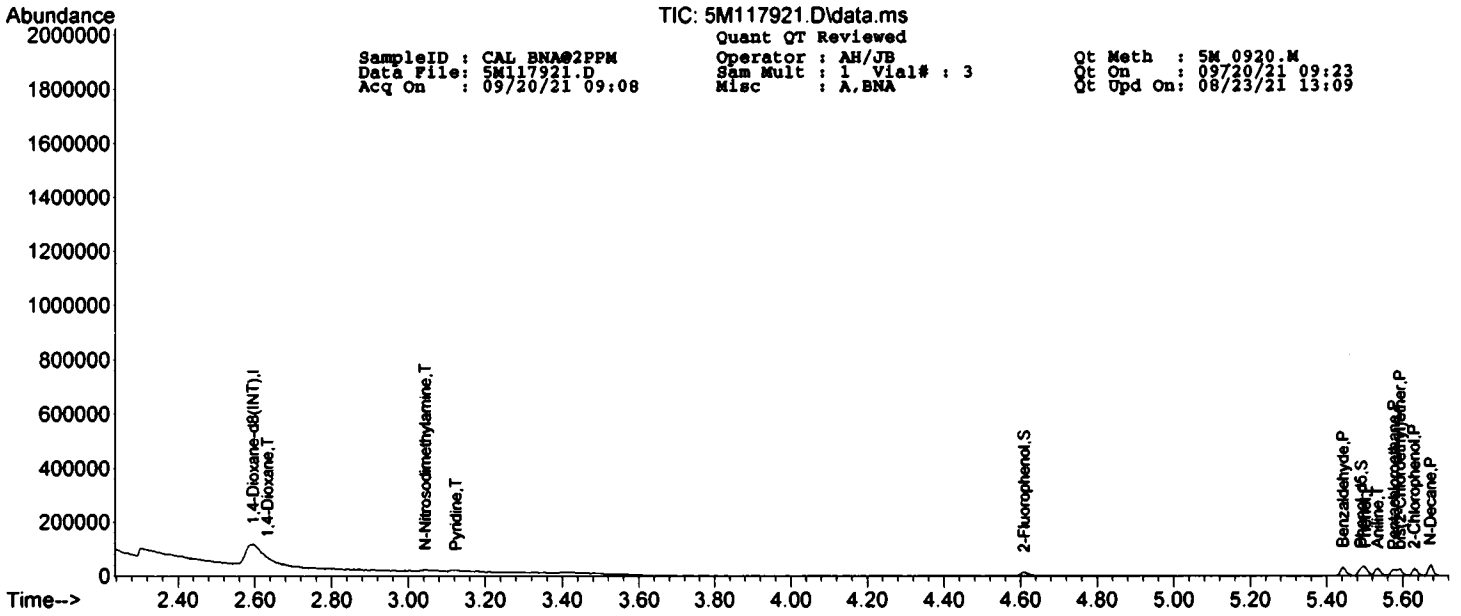
Quantitation Report (QT Reviewed)

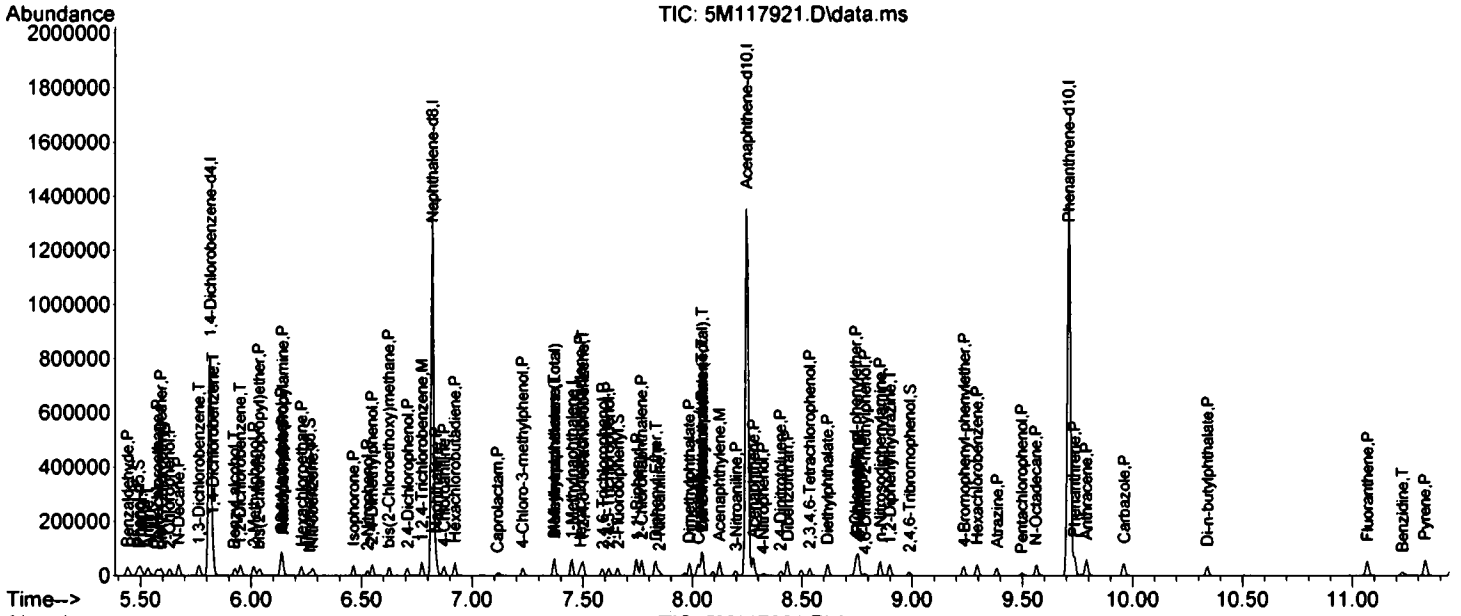
SampleID : CAL BNA@2PPM  Operator : AH/JB  Qt Meth : 5M_0920.M
Data File: 5M117921.D  Sam Mult : 1 Vial# : 3  Qt On : 09/20/21 09:23
Acq On : 09/20/21 09:08  Misc : A,BNA  Qt Upd On: 08/23/21 13:09

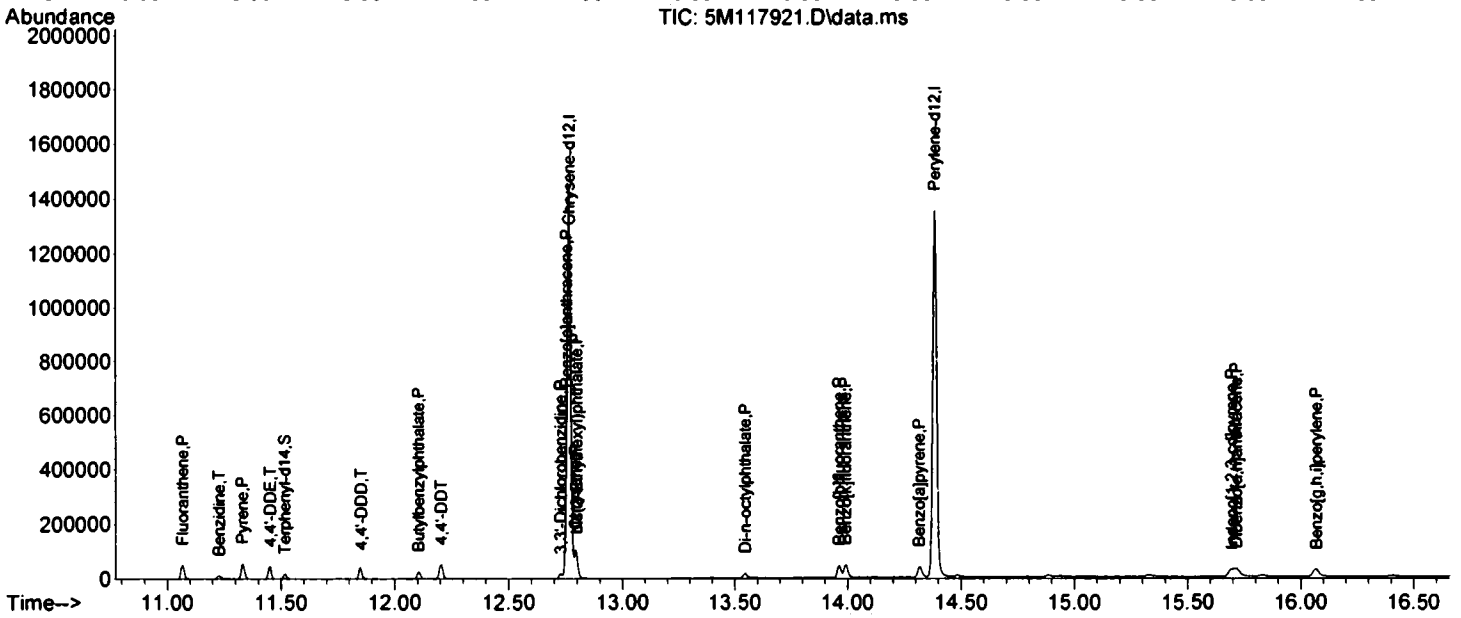
Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.199 | 138 | 3118 | 1.4479 | ng | 79 |
| 67) | 2,4-Dinitrophenol | 0.000 | | 0 | N.D. | | |
| 68) | Dibenzofuran | 8.434 | 168 | 22101 | 1.7848 | ng | 84 |
| 69) | 2,4-Dinitrotoluene | 8.402 | 165 | 3549 | 1.2446 | ng | 63 |
| 70) | 4-Nitrophenol | 8.322 | 65 | 1702 | 1.1432 | ng | 96 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.536 | 232 | 3577 | 1.1475 | ng | 82 |
| 72) | Fluorene | 8.755 | 166 | 17058 | 1.7127 | ng | 98 |
| 73) | 4-Chlorophenyl-phenyle... | 8.744 | 204 | 8585 | 1.5195 | ng | 82 |
| 74) | Diethylphthalate | 8.616 | 149 | 15147 | 1.6706 | ng | 97 |
| 75) | 4-Nitroaniline | 8.760 | 138 | 2980 | 1.2588 | ng | 82 |
| 76) | Atrazine | 9.385 | 200 | 3965 | 1.2039 | ng | 94 |
| 78) | 4,6-Dinitro-2-methylph... | 8.787 | 198 | 1244 | 0.7243 | ng | 82 |
| 79) | n-Nitrosodiphenylamine | 8.856 | 169 | 13457 | 1.7327 | ng | 99 |
| 81) | 1,2-Diphenylhydrazine | 8.899 | 77 | 15198 | 2.1360 | ng | 79 |
| 82) | 4-Bromophenyl-phenylether | 9.236 | 248 | 4777 | 1.4211 | ng | 77 |
| 83) | Hexachlorobenzene | 9.294 | 284 | 6018 | 1.5585 | ng | 60 |
| 84) | N-Octadecane | 9.562 | 57 | 7092 | 2.0416 | ng | 76 |
| 85) | Pentachlorophenol | 9.497 | 266 | 1799 | 0.7368 | ng | 89 |
| 86) | Phenanthrene | 9.738 | 178 | 26271 | 1.9025 | ng | 99 |
| 87) | Anthracene | 9.791 | 178 | 24063 | 1.7157 | ng | 100 |
| 88) | Carbazole | 9.962 | 167 | 20771 | 1.7038 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.342 | 149 | 19016 | 1.4558 | ng | 96 |
| 90) | Fluoranthene | 11.068 | 202 | 24338 | 1.4764 | ng | 86 |
| 92) | Pyrene | 11.330 | 202 | 27266 | 1.8673 | ng | 85 |
| 93) | Benzidine | 11.228 | 184 | 9162 | 1.2082 | ng | 89 |
| 95) | 4,4'-DDE | 11.453 | 246 | 6292 | 1.7367 | ng | 93 |
| 96) | 4,4'-DDD | 11.853 | 235 | 8773 | 1.4599 | ng | 94 |
| 97) | Butylbenzylphthalate | 12.104 | 149 | 7060 | 1.3906 | ng | 75 |
| 98) | 4,4'-DDT | 12.206 | 235 | 7127 | 1.3823 | ng | 99 |
| 99) | 3,3'-Dichlorobenzidine | 12.730 | 252 | 6386 | 1.0790 | ng | 92 |
| 100) | Benzo[a]anthracene | 12.756 | 228 | 26133 | 1.6798 | ng | 96 |
| 101) | Chrysene | 12.794 | 228 | 28506 | 1.8623 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.799 | 149 | 10023 | 1.3114 | ng | 92 |
| 104) | Di-n-octylphthalate | 13.547 | 149 | 12832 | 1.0761 | ng | 98 |
| 105) | Benzo[b]fluoranthene | 13.964 | 252 | 21408 | 1.3199 | ng | 94 |
| 106) | Benzo[k]fluoranthene | 13.990 | 252 | 26723 | 1.7136 | ng | 92 |
| 107) | Benzo[a]pyrene | 14.316 | 252 | 20924 | 1.3823 | ng | 90 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.694 | 276 | 25992 | 1.4963 | ng | 68 |
| 109) | Dibenzo[a,h]anthracene | 15.716 | 278 | 21463 | 1.4393 | ng | 90 |
| 110) | Benzo[g,h,i]perylene | 16.068 | 276 | 22775 | 1.5668 | ng | 71 |

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


Abundance
TIC: 5M117921.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@2PPM
Data File: 5M117921.D
Acq On : 09/20/21 09:08
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09/20/21 09:23
Qt Upd On: 08/23/21 13:09
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 5M117921.D\data.ms
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Time-->


Abundance
TIC: 5M117921.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Chrysene-d12,I
Di-n-octylphthalate,P
Perylene-d12,I
Benzo(a)pyrene,P
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM  Operator : AH/JB  Qt Meth : 5M_0920.M
Data File: 5M117920.D  Sam Mult : 1 Vial# : 2  Qt On : 09/20/21 09:15
Acq On : 09/20/21 08:44  Misc : A,BNA  Qt Upd On: 08/23/21 13:09

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.590 | 96 | 84617 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 106177 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.821 | 136 | 403646 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.247 | 164 | 213499 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.711 | 188 | 416904 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.767 | 240 | 400257 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.386 | 264 | 439744 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.609 | 112 | 25759 | 8.10 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 8.10% | | | |
| 16) Phenol-d5 | 5.491 | 99 | 32861 | 8.63 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 8.63% | | | |
| 32) Nitrobenzene-d5 | 6.265 | 128 | 5995 | 4.64 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 9.28% | | | |
| 55) 2-Fluorobiphenyl | 7.660 | 172 | 32454 | 4.44 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 8.88% | | | |
| 80) 2,4,6-Tribromophenol | 8.990 | 330 | 8638 | 7.62 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 7.62% | | | |
| 94) Terphenyl-d14 | 11.517 | 244 | 26548 | 4.47 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 8.94% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.627 | 88 | 19367m | 9.3488 | ng | |
| 9) Pyridine | 3.092 | 79 | 33494m | 7.9176 | ng | |
| 10) N-Nitrosodimethylamine | 3.039 | 74 | 26506 | 9.1143 | ng | 75 |
| 12) Benzaldehyde | 5.443 | 77 | 26094 | 8.8616 | ng | 79 |
| 13) Aniline | 5.534 | 93 | 43107 | 8.0367 | ng | 59 |
| 14) Pentachloroethane | 5.576 | 117 | 9847 | 7.2440 | ng | 73 |
| 15) bis(2-Chloroethyl)ether | 5.592 | 93 | 30314 | 8.5698 | ng | 77 |
| 17) Phenol | 5.502 | 94 | 40390 | 8.2117 | ng | 82 |
| 18) 2-Chlorophenol | 5.630 | 128 | 28939 | 7.2174 | ng | 82 |
| 19) N-Decane | 5.673 | 57 | 28057 | 9.2850 | ng | 97 |
| 20) 1,3-Dichlorobenzene | 5.763 | 146 | 34683 | 7.2759 | ng | 97 |
| 22) 1,4-Dichlorobenzene | 5.827 | 146 | 35844 | 9.0257 | ng | 95 |
| 23) 1,2-Dichlorobenzene | 5.950 | 146 | 33697 | 9.1373 | ng | 96 |
| 24) Benzyl alcohol | 5.924 | 108 | 18177 | 9.2097 | ng | 75 |
| 25) bis(2-chloroisopropyl)... | 6.036 | 45 | 33544 | 14.0212 | ng | 96 |
| 26) 2-Methylphenol | 6.009 | 108 | 25710 | 9.4045 | ng | 96 |
| 27) Acetophenone | 6.143 | 105 | 40862 | 9.1352 | ng | 65 |
| 28) Hexachloroethane | 6.228 | 117 | 12294 | 8.9073 | ng | 85 |
| 29) N-Nitroso-di-n-propyla... | 6.137 | 70 | 19784 | 10.1741 | ng | 73 |
| 30) 3&4-Methylphenol | 6.132 | 108 | 27076 | 9.3102 | ng | 100 |
| 33) Nitrobenzene | 6.276 | 77 | 29539 | 9.3114 | ng | 86 |
| 34) Isophorone | 6.463 | 82 | 53725 | 9.3627 | ng | 91 |
| 35) 2-Nitrophenol | 6.527 | 139 | 13321 | 7.5018 | ng | 88 |
| 36) 2,4-Dimethylphenol | 6.549 | 107 | 27524 | 8.2296 | ng | 100 |
| 37) Benzoic Acid | 6.581 | 105 | 7591 | 3.9499 | ng | 81 |
| 38) bis(2-Chloroethoxy)met... | 6.623 | 93 | 33977 | 10.1204 | ng | 98 |
| 39) 2,4-Dichlorophenol | 6.704 | 162 | 23605 | 7.7698 | ng | 89 |
| 40) 1,2,4-Trichlorobenzene | 6.773 | 180 | 28480 | 7.5930 | ng | 98 |
| 41) Naphthalene | 6.837 | 128 | 87223 | 8.4377 | ng | 99 |
| 42) 4-Chloroaniline | 6.875 | 127 | 33286m | 8.4661 | ng | |
| 43) Hexachlorobutadiene | 6.923 | 225 | 17048 | 6.5091 | ng | 96 |
| 44) Caprolactam | 7.126 | 113 | 7336 | 8.0324 | ng | 69 |
| 45) 4-Chloro-3-methylphenol | 7.227 | 107 | 22466 | 8.0148 | ng | 80 |
| 46) 2-Methylnaphthalene | 7.371 | 142 | 57783 | 8.1451 | ng | 99 |
| 47) 1-Methylnaphthalene | 7.451 | 142 | 56639 | 8.5651 | ng | 93 |
| 48) Methylnaphthalenes (To... | 7.371 | 142 | 114827m | 16.8044 | ng | |
| 49) 1,1'-Biphenyl | 7.745 | 154 | 68654 | 6.8775 | ng | 93 |
| 51) 1,2,4,5-Tetrachloroben... | 7.500 | 216 | 29378 | 7.0651 | ng | 97 |
| 52) Hexachlorocyclopentadiene | 7.489 | 237 | 14113 | 5.4953 | ng | 97 |
| 53) 2,4,6-Trichlorophenol | 7.585 | 196 | 16926m | 7.0071 | ng | |
| 54) 2,4,5-Trichlorophenol | 7.617 | 196 | 18531m | 7.2722 | ng | |
| 56) 2-Chloronaphthalene | 7.767 | 162 | 55498 | 8.4823 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.050 | 156 | 43804 | 7.8244 | ng | 86 |
| 58) Dimethylnaphthalenes (... | 8.050 | 156 | 43804 | 7.8244 | ng | 86 |
| 59) Diphenyl Ether | 7.831 | 170 | 39927 | 8.1727 | ng | 77 |
| 60) 2-Nitroaniline | 7.847 | 65 | 16252 | 9.0563 | ng | 49 |
| 61) Coumarin | 8.028 | 146 | 20841 | 7.8357 | ng | 84 |
| 62) Acenaphthylene | 8.125 | 152 | 80429 | 8.2285 | ng | 99 |
| 63) Dimethylphthalate | 7.986 | 163 | 63315 | 8.4779 | ng | 98 |
| 64) 2,6-Dinitrotoluene | 8.044 | 165 | 13616 | 8.0080 | ng | 73 |
| 65) Acenaphthene | 8.280 | 153 | 53510 | 8.5902 | ng | 97 |

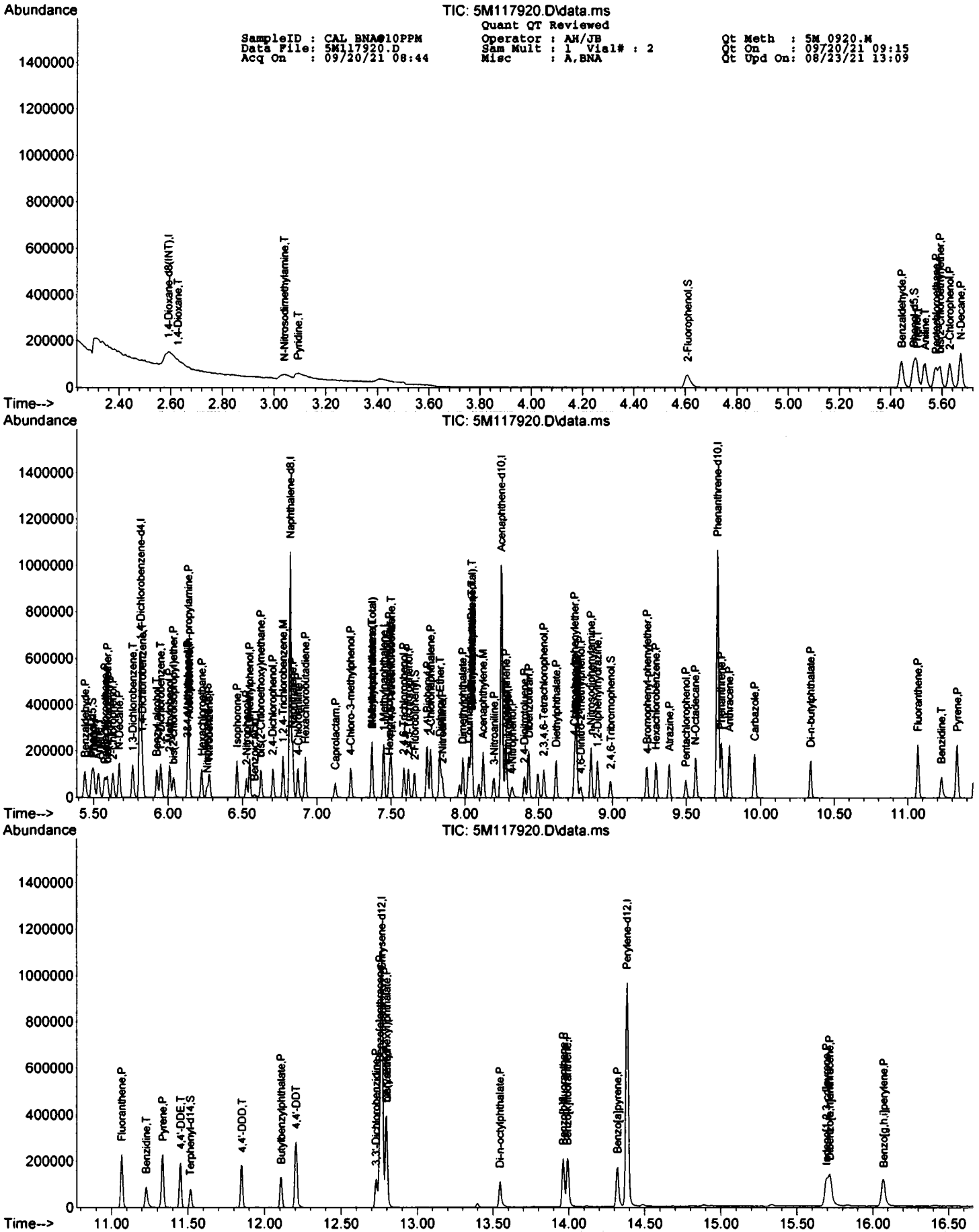
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117920.D Sam Mult : 1 Vial# : 2 Qt On : 09/20/21 09:15
Acq On : 09/20/21 08:44 Misc : A,BNA Qt Upd On: 08/23/21 13:09

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.199 | 138 | 13878 | 8.3804 | ng | 76 |
| 67) | 2,4-Dinitrophenol | 8.290 | 184 | 4227 | 4.1141 | ng | 35 |
| 68) | Dibenzofuran | 8.434 | 168 | 79291 | 8.3268 | ng | 85 |
| 69) | 2,4-Dinitrotoluene | 8.402 | 165 | 16585 | 7.5631 | ng | 68 |
| 70) | 4-Nitrophenol | 8.322 | 65 | 9085 | 7.9355 | ng | 80 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.536 | 232 | 15222 | 6.3498 | ng | 84 |
| 72) | Fluorene | 8.755 | 166 | 61514 | 8.0314 | ng | 100 |
| 73) | 4-Chlorophenyl-phenyle... | 8.744 | 204 | 31156 | 7.1708 | ng | 83 |
| 74) | Diethylphthalate | 8.621 | 149 | 56726 | 8.1358 | ng | 95 |
| 75) | 4-Nitroaniline | 8.760 | 138 | 14493 | 7.9608 | ng | 80 |
| 76) | Atrazine | 9.385 | 200 | 16458 | 6.4983 | ng | 96 |
| 78) | 4,6-Dinitro-2-methylph... | 8.787 | 198 | 7730 | 5.8768 | ng | 64 |
| 79) | n-Nitrosodiphenylamine | 8.856 | 169 | 52728 | 8.8650 | ng | 96 |
| 81) | 1,2-Diphenylhydrazine | 8.899 | 77 | 59598 | 10.9374 | ng | 82 |
| 82) | 4-Bromophenyl-phenylether | 9.236 | 248 | 18578 | 7.2168 | ng | 79 |
| 83) | Hexachlorobenzene | 9.295 | 284 | 21461 | 7.2571 | ng | 65 |
| 84) | N-Octadecane | 9.562 | 57 | 29997 | 11.2759 | ng | 77 |
| 85) | Pentachlorophenol | 9.498 | 266 | 9963 | 5.3279 | ng | 97 |
| 86) | Phenanthrene | 9.738 | 178 | 92264 | 8.7248 | ng | 98 |
| 87) | Anthracene | 9.791 | 178 | 91422 | 8.5116 | ng | 100 |
| 88) | Carbazole | 9.962 | 167 | 82313 | 8.8168 | ng | 96 |
| 89) | Di-n-butylphthalate | 10.342 | 149 | 83596 | 8.3566 | ng | 98 |
| 90) | Fluoranthene | 11.068 | 202 | 97276 | 7.7054 | ng | 86 |
| 92) | Pyrene | 11.335 | 202 | 102972 | 9.5651 | ng | 84 |
| 93) | Benzidine | 11.228 | 184 | 47595 | 8.5128 | ng | 84 |
| 95) | 4,4'-DDE | 11.453 | 246 | 24731 | 9.2585 | ng | 94 |
| 96) | 4,4'-DDD | 11.853 | 235 | 37622 | 8.4916 | ng | 96 |
| 97) | Butylbenzylphthalate | 12.110 | 149 | 34296 | 9.1622 | ng | 68 |
| 98) | 4,4'-DDT | 12.206 | 235 | 32739 | 8.6127 | ng | 99 |
| 99) | 3,3'-Dichlorobenzidine | 12.730 | 252 | 32107 | 7.3583 | ng | 94 |
| 100) | Benzo[a]anthracene | 12.756 | 228 | 97711 | 8.5191 | ng | 99 |
| 101) | Chrysene | 12.799 | 228 | 102777 | 9.1070 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.799 | 149 | 51060 | 9.0615 | ng | 94 |
| 104) | Di-n-octylphthalate | 13.547 | 149 | 69371 | 7.8548 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 13.964 | 252 | 94278m | 7.8969 | ng | |
| 106) | Benzo[k]fluoranthene | 13.990 | 252 | 99248m | 8.6459 | ng | |
| 107) | Benzo[a]pyrene | 14.322 | 252 | 84344 | 7.5696 | ng | 90 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.695 | 276 | 100899 | 7.8911 | ng | 73 |
| 109) | Dibenzo[a,h]anthracene | 15.716 | 278 | 85602 | 7.7987 | ng | 92 |
| 110) | Benzo[g,h,i]perylene | 16.074 | 276 | 87050 | 8.1359 | ng | 71 |

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


Abundance
TIC: 5M117920.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 5M117920.D
Acq On : 09/20/21 08:44
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09720/21 09:15
Qt Upd On: 08/23/21 13:09
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
Abundance
TIC: 5M117920.D\data.ms
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
1,3-Dichlorobenzene-d4,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Hexachlorobutadiene,P
Acenaphthylene,M
3-Nitroaniline,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 5M117920.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo(a)pyrene,P
Benzo(g,h,i)perylene,P
Time-->

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117929.D Sam Mult : 1 Vial# : 8 Qt On : 09/20/21 13:00
Acq On : 09/20/21 12:46 Misc : A,BNA Qt Upd On: 09/20/21 12:21

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.590 | 96 | 87051 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 116400 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.821 | 136 | 453165 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.253 | 164 | 232668 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.711 | 188 | 448988 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.767 | 240 | 452399 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.386 | 264 | 485726 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.609 | 112 | 65960 | 21.13 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 21.13% | | | |
| 16) Phenol-d5 | 5.491 | 99 | 83924 | 22.46 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 22.46% | | | |
| 32) Nitrobenzene-d5 | 6.266 | 128 | 16127 | 10.47 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 20.94% | | | |
| 55) 2-Fluorobiphenyl | 7.660 | 172 | 81489 | 10.81 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 21.62% | | | |
| 80) 2,4,6-Tribromophenol | 8.990 | 330 | 23870 | 22.48 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 22.48% | | | |
| 94) Terphenyl-d14 | 11.517 | 244 | 71604 | 10.60 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 21.20% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.627 | 88 | 42617 | 22.2157 | ng | 91 |
| 9) Pyridine | 3.082 | 79 | 87076 | 21.1072 | ng | 64 |
| 10) N-Nitrosodimethylamine | 3.028 | 74 | 64493 | 21.1133 | ng | 73 |
| 12) Benzaldehyde | 5.443 | 77 | 64828 | 21.9690 | ng | 76 |
| 13) Aniline | 5.534 | 93 | 106535 | 21.7763 | ng | 61 |
| 14) Pentachloroethane | 5.576 | 117 | 24868 | 22.1141 | ng | 71 |
| 15) bis(2-Chloroethyl)ether | 5.592 | 93 | 73284 | 21.6349 | ng | 77 |
| 17) Phenol | 5.502 | 94 | 100598 | 22.1953 | ng | 86 |
| 18) 2-Chlorophenol | 5.630 | 128 | 75060 | 22.3468 | ng | 80 |
| 19) N-Decane | 5.673 | 57 | 67905 | 22.7759 | ng | 97 |
| 20) 1,3-Dichlorobenzene | 5.763 | 146 | 86462 | 22.6069 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.827 | 146 | 86137 | 20.9638 | ng | 96 |
| 23) 1,2-Dichlorobenzene | 5.950 | 146 | 82172 | 21.3717 | ng | 98 |
| 24) Benzyl alcohol | 5.929 | 108 | 46667 | 21.1563 | ng | 77 |
| 25) bis(2-chloroisopropyl)... | 6.036 | 45 | 80186 | 21.3360 | ng | 90 |
| 26) 2-Methylphenol | 6.014 | 108 | 66845 | 21.3811 | ng | 99 |
| 27) Acetophenone | 6.143 | 105 | 105271 | 22.2293 | ng | 68 |
| 28) Hexachloroethane | 6.228 | 117 | 31417 | 20.8848 | ng | 92 |
| 29) N-Nitroso-di-n-propyla... | 6.143 | 70 | 49378 | 21.5773 | ng | 75 |
| 30) 3&4-Methylphenol | 6.137 | 108 | 68973 | 22.2705 | ng | 99 |
| 33) Nitrobenzene | 6.282 | 77 | 76703 | 21.0179 | ng | 80 |
| 34) Isophorone | 6.463 | 82 | 137750 | 21.2203 | ng | 91 |
| 35) 2-Nitrophenol | 6.527 | 139 | 37477 | 21.1681 | ng | 89 |
| 36) 2,4-Dimethylphenol | 6.549 | 107 | 71252 | 21.3738 | ng | 99 |
| 37) Benzoic Acid | 6.597 | 105 | 32591 | 17.2929 | ng | 90 |
| 38) bis(2-Chloroethoxy)met... | 6.629 | 93 | 83243 | 21.2326 | ng | 98 |
| 39) 2,4-Dichlorophenol | 6.709 | 162 | 62643 | 22.1687 | ng | 86 |
| 40) 1,2,4-Trichlorobenzene | 6.773 | 180 | 71240 | 21.0062 | ng | 96 |
| 41) Naphthalene | 6.837 | 128 | 216364 | 20.4967 | ng | 99 |
| 42) 4-Chloroaniline | 6.875 | 127 | 84504m | 21.4750 | ng | |
| 43) Hexachlorobutadiene | 6.923 | 225 | 43756 | 21.1454 | ng | 96 |
| 44) Caprolactam | 7.136 | 113 | 21673 | 22.7961 | ng | 68 |
| 45) 4-Chloro-3-methylphenol | 7.232 | 107 | 62476 | 21.7919 | ng | 81 |
| 46) 2-Methylnaphthalene | 7.371 | 142 | 144644 | 21.1988 | ng | 100 |
| 47) 1-Methylnaphthalene | 7.452 | 142 | 140337 | 21.7263 | ng | 93 |
| 48) Methylnaphthalenes (To... | 7.371 | 142 | 282741m | 42.7253 | ng | |
| 49) 1,1'-Biphenyl | 7.745 | 154 | 175901 | 21.7629 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.500 | 216 | 75165 | 21.6842 | ng | 99 |
| 52) Hexachlorocyclopentadiene | 7.489 | 237 | 39641 | 21.5351 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.590 | 196 | 47334 | 21.9642 | ng | 98 |
| 54) 2,4,5-Trichlorophenol | 7.617 | 196 | 48265 | 21.3067 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.767 | 162 | 144879 | 22.4899 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.050 | 156 | 106536 | 22.0090 | ng | 89 |
| 58) Dimethylnaphthalenes (... | 8.050 | 156 | 106536 | 22.0090 | ng | 89 |
| 59) Diphenyl Ether | 7.831 | 170 | 99858 | 21.8522 | ng | 79 |
| 60) 2-Nitroaniline | 7.847 | 65 | 45619 | 21.8217 | ng | 52 |
| 61) Coumarin | 8.034 | 146 | 53313 | 22.2879 | ng | 86 |
| 62) Acenaphthylene | 8.130 | 152 | 206679 | 22.3093 | ng | 100 |
| 63) Dimethylphthalate | 7.991 | 163 | 161273 | 22.0949 | ng | 99 |
| 64) 2,6-Dinitrotoluene | 8.050 | 165 | 34981 | 22.3394 | ng | 66 |
| 65) Acenaphthene | 8.280 | 153 | 138173 | 22.3612 | ng | 97 |

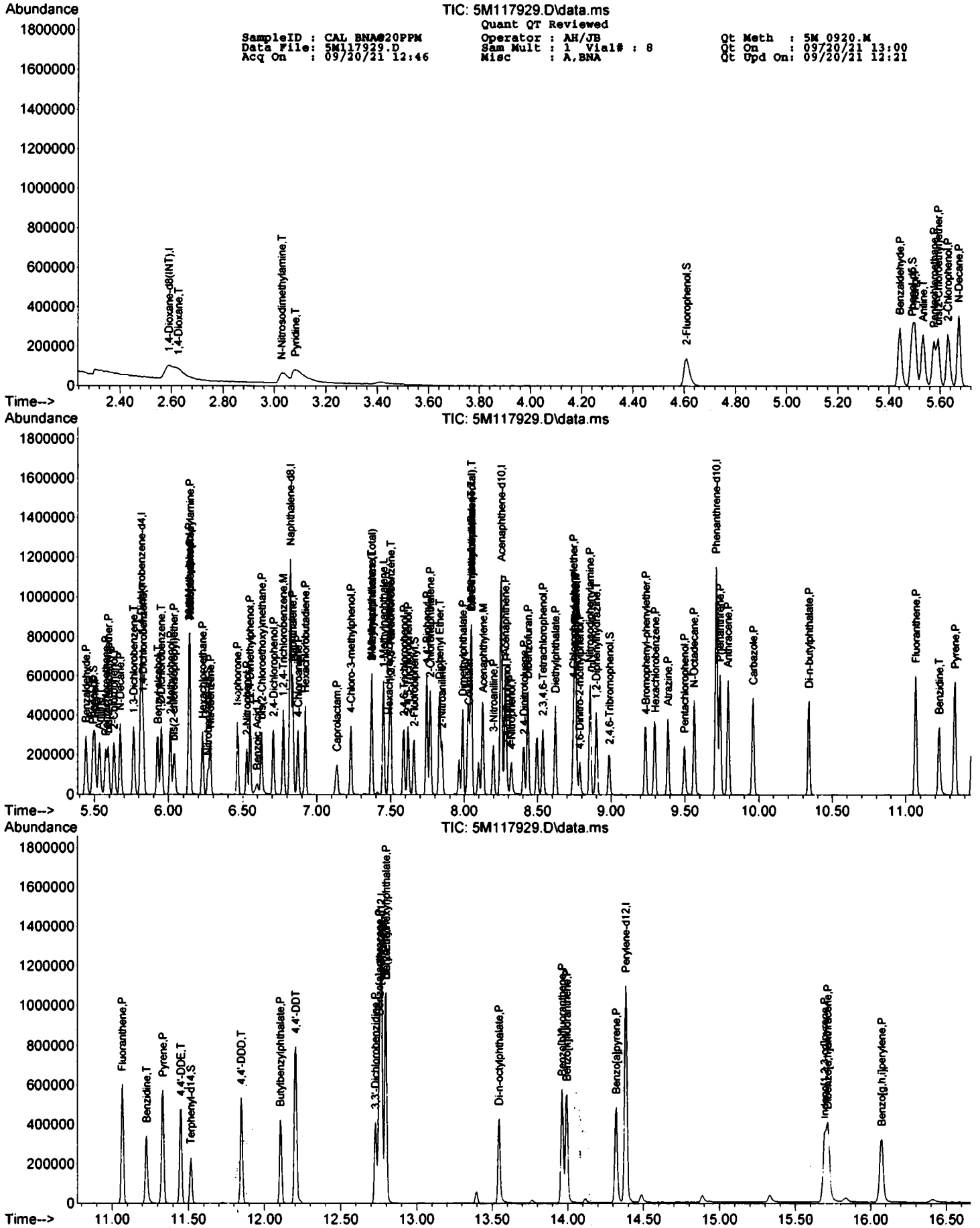
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117929.D Sam Mult : 1 Vial# : 8 Qt On : 09/20/21 13:00
Acq On : 09/20/21 12:46 Misc : A,BNA Qt Upd On: 09/20/21 12:21

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.199 | 138 | 38613 | 22.6309 | ng | 78 |
| 67) | 2,4-Dinitrophenol | 8.290 | 184 | 14960 | 19.6735 | ng | 39 |
| 68) | Dibenzofuran | 8.434 | 168 | 199179 | 21.4435 | ng | 85 |
| 69) | 2,4-Dinitrotoluene | 8.408 | 165 | 46938 | 21.2045 | ng | 58 |
| 70) | 4-Nitrophenol | 8.322 | 65 | 27693 | 21.5480 | ng | 76 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.536 | 232 | 42600 | 22.0239 | ng | 83 |
| 72) | Fluorene | 8.755 | 166 | 159052 | 22.2542 | ng | 97 |
| 73) | 4-Chlorophenyl-phenyle... | 8.744 | 204 | 79819 | 21.8356 | ng | 83 |
| 74) | Diethylphthalate | 8.621 | 149 | 153601 | 21.9514 | ng | 97 |
| 75) | 4-Nitroaniline | 8.760 | 138 | 40734 | 22.5196 | ng | 83 |
| 76) | Atrazine | 9.385 | 200 | 45872 | 21.4914 | ng | 95 |
| 78) | 4,6-Dinitro-2-methylph... | 8.787 | 198 | 23841 | 20.0192 | ng | 60 |
| 79) | n-Nitrosodiphenylamine | 8.857 | 169 | 137936 | 22.7534 | ng | 98 |
| 81) | 1,2-Diphenylhydrazine | 8.899 | 77 | 152239 | 21.2051 | ng | 84 |
| 82) | 4-Bromophenyl-phenylether | 9.236 | 248 | 48384 | 21.6376 | ng | 79 |
| 83) | Hexachlorobenzene | 9.300 | 284 | 53132 | 21.8234 | ng | 60 |
| 84) | N-Octadecane | 9.562 | 57 | 79540 | 23.1637 | ng | 74 |
| 85) | Pentachlorophenol | 9.498 | 266 | 30647 | 20.3114 | ng | 98 |
| 86) | Phenanthrene | 9.738 | 178 | 234444 | 22.2717 | ng | 99 |
| 87) | Anthracene | 9.791 | 178 | 241289 | 22.7883 | ng | 100 |
| 88) | Carbazole | 9.962 | 167 | 214099 | 22.2980 | ng | 98 |
| 89) | Di-n-butylphthalate | 10.342 | 149 | 248862 | 21.6010 | ng | 98 |
| 90) | Fluoranthene | 11.068 | 202 | 261889 | 22.4848 | ng | 87 |
| 92) | Pyrene | 11.335 | 202 | 268834 | 21.6016 | ng | 83 |
| 93) | Benzidine | 11.228 | 184 | 152403 | 21.5139 | ng | 83 |
| 95) | 4,4'-DDE | 11.453 | 246 | 64727 | 20.7772 | ng | 96 |
| 96) | 4,4'-DDD | 11.848 | 235 | 107364 | 21.7673 | ng | 96 |
| 97) | Butylbenzylphthalate | 12.105 | 149 | 108260 | 21.4397 | ng | 74 |
| 98) | 4,4'-DDT | 12.206 | 235 | 93912 | 22.1651 | ng | 99 |
| 99) | 3,3'-Dichlorobenzidine | 12.730 | 252 | 98099 | 20.8232 | ng | 95 |
| 100) | Benzo[a]anthracene | 12.756 | 228 | 259828 | 21.4003 | ng | 100 |
| 101) | Chrysene | 12.799 | 228 | 261093 | 21.8073 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.799 | 149 | 149758 | 21.1997 | ng | 93 |
| 104) | Di-n-octylphthalate | 13.547 | 149 | 240978 | 20.8462 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 13.964 | 252 | 253990m | 22.0596 | ng | |
| 106) | Benzo[k]fluoranthene | 13.996 | 252 | 252385 | 21.9242 | ng | 91 |
| 107) | Benzo[a]pyrene | 14.322 | 252 | 235750 | 21.8900 | ng | 89 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.695 | 276 | 273817 | 21.4704 | ng | 74 |
| 109) | Dibenzo[a,h]anthracene | 15.716 | 278 | 235743 | 21.8186 | ng | 90 |
| 110) | Benzo[g,h,i]perylene | 16.074 | 276 | 230247 | 21.3980 | ng | 70 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 5M117929.D
Acq On : 09/20/21 12:46
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09/20/21 13:00
Qt Upd On: 09/20/21 12:21
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
Abundance
TIC: 5M117929.D\data.ms
1,3-Dichlorobenzene-d4,I
Naphthalene-d8,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthene-d10,I
Phenanthrene-d10,I
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 5M117929.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo(a)pyrene,P
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM  Operator : AH/JB  Qt Meth : 5M_0920.M
Data File: 5M117925.D  Sam Mult : 1 Vial# : 7  Qt On : 09/20/21 11:07
Acq On : 09/20/21 10:41  Misc : A,BNA  Qt Upd On: 08/23/21 13:09

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.590 | 96 | 89227 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 114156 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.826 | 136 | 429312 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.253 | 164 | 225918 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.716 | 188 | 445979 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.772 | 240 | 424859 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.391 | 264 | 467974 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.615 | 112 | 264347 | 78.85 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 78.85% | | | |
| 16) Phenol-d5 | 5.496 | 99 | 307029 | 76.47 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 76.47% | | | |
| 32) Nitrobenzene-d5 | 6.271 | 128 | 63408 | 46.11 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 92.22% | | | |
| 55) 2-Fluorobiphenyl | 7.660 | 172 | 292689 | 37.80 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 75.60% | | | |
| 80) 2,4,6-Tribromophenol | 8.990 | 330 | 88242 | 72.78 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 72.78% | | | |
| 94) Terphenyl-d14 | 11.517 | 244 | 264106 | 41.88 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 83.76% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.622 | 88 | 171549m | 78.5313 | ng | |
| 9) Pyridine | 3.076 | 79 | 346326 | 77.6376 | ng | 66 |
| 10) N-Nitrosodimethylamine | 3.033 | 74 | 251121 | 81.8887 | ng | 71 |
| 12) Benzaldehyde | 5.443 | 77 | 246548 | 79.4026 | ng | 81 |
| 13) Aniline | 5.539 | 93 | 395907 | 69.9975 | ng | 59 |
| 14) Pentachloroethane | 5.576 | 117 | 91965 | 64.1589 | ng | 71 |
| 15) bis(2-Chloroethyl)ether | 5.598 | 93 | 268273 | 71.9222 | ng | 77 |
| 17) Phenol | 5.507 | 94 | 371381 | 71.6045 | ng | 89 |
| 18) 2-Chlorophenol | 5.635 | 128 | 278563 | 65.8845 | ng | 81 |
| 19) N-Decane | 5.672 | 57 | 241293 | 75.7262 | ng | 98 |
| 20) 1,3-Dichlorobenzene | 5.769 | 146 | 312271 | 62.1245 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.833 | 146 | 313999 | 73.5405 | ng | 99 |
| 23) 1,2-Dichlorobenzene | 5.955 | 146 | 295729 | 74.5852 | ng | 99 |
| 24) Benzyl alcohol | 5.929 | 108 | 175889 | 82.8883 | ng | 78 |
| 25) bis(2-chloroisopropyl)... | 6.041 | 45 | 285119 | 110.8481 | ng | 90 |
| 26) 2-Methylphenol | 6.014 | 108 | 248049 | 84.3920 | ng | 99 |
| 27) Acetophenone | 6.148 | 105 | 366423 | 76.1929 | ng | 70 |
| 28) Hexachloroethane | 6.228 | 117 | 118408 | 79.7935 | ng | 89 |
| 29) N-Nitroso-di-n-propyla... | 6.148 | 70 | 178996 | 85.6165 | ng | 73 |
| 30) 3&4-Methylphenol | 6.142 | 108 | 248028 | 79.3245 | ng | 98 |
| 33) Nitrobenzene | 6.287 | 77 | 288895 | 85.6222 | ng | 80 |
| 34) Isophorone | 6.468 | 82 | 504597 | 82.6793 | ng | 89 |
| 35) 2-Nitrophenol | 6.532 | 139 | 147075 | 77.8743 | ng | 87 |
| 36) 2,4-Dimethylphenol | 6.554 | 107 | 262477 | 73.7879 | ng | 98 |
| 37) Benzoic Acid | 6.639 | 105 | 190595 | 82.9007 | ng | 90 |
| 38) bis(2-Chloroethoxy)met... | 6.629 | 93 | 300753 | 84.2270 | ng | 97 |
| 39) 2,4-Dichlorophenol | 6.709 | 162 | 227886 | 70.5267 | ng | 88 |
| 40) 1,2,4-Trichlorobenzene | 6.778 | 180 | 259637 | 65.0829 | ng | 97 |
| 41) Naphthalene | 6.842 | 128 | 781941 | 71.1204 | ng | 99 |
| 42) 4-Chloroaniline | 6.874 | 127 | 306832m | 73.3756 | ng | |
| 43) Hexachlorobutadiene | 6.922 | 225 | 159835 | 57.3779 | ng | 96 |
| 44) Caprolactam | 7.168 | 113 | 83189 | 85.6410 | ng | 62 |
| 45) 4-Chloro-3-methylphenol | 7.238 | 107 | 227966 | 76.4651 | ng | 86 |
| 46) 2-Methylnaphthalene | 7.371 | 142 | 524244 | 69.4799 | ng | 99 |
| 47) 1-Methylnaphthalene | 7.451 | 142 | 495841 | 70.4997 | ng | 93 |
| 48) Methylnaphthalenes (To... | 7.371 | 142 | 1014699m | 139.6188 | ng | |
| 49) 1,1'-Biphenyl | 7.745 | 154 | 613297 | 57.7646 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.505 | 216 | 271365 | 61.6732 | ng | 97 |
| 52) Hexachlorocyclopentadiene | 7.489 | 237 | 154964 | 57.0227 | ng | 98 |
| 53) 2,4,6-Trichlorophenol | 7.590 | 196 | 173553m | 67.8988 | ng | |
| 54) 2,4,5-Trichlorophenol | 7.622 | 196 | 182629m | 67.7298 | ng | |
| 56) 2-Chloronaphthalene | 7.772 | 162 | 501024 | 72.3669 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.055 | 156 | 367928 | 62.1073 | ng | 89 |
| 58) Dimethylnaphthalenes (... | 8.055 | 156 | 367928 | 62.1073 | ng | 89 |
| 59) Diphenyl Ether | 7.831 | 170 | 353733 | 68.4259 | ng | 83 |
| 60) 2-Nitroaniline | 7.852 | 65 | 170610 | 89.8452 | ng | 50 |
| 61) Coumarin | 8.039 | 146 | 185085 | 65.7624 | ng | 64 |
| 62) Acenaphthylene | 8.130 | 152 | 732781 | 70.8481 | ng | 99 |
| 63) Dimethylphthalate | 7.996 | 163 | 561761 | 71.0850 | ng | 99 |
| 64) 2,6-Dinitrotoluene | 8.055 | 165 | 124723 | 69.3209 | ng | 69 |
| 65) Acenaphthene | 8.285 | 153 | 473254 | 71.7969 | ng | 97 |

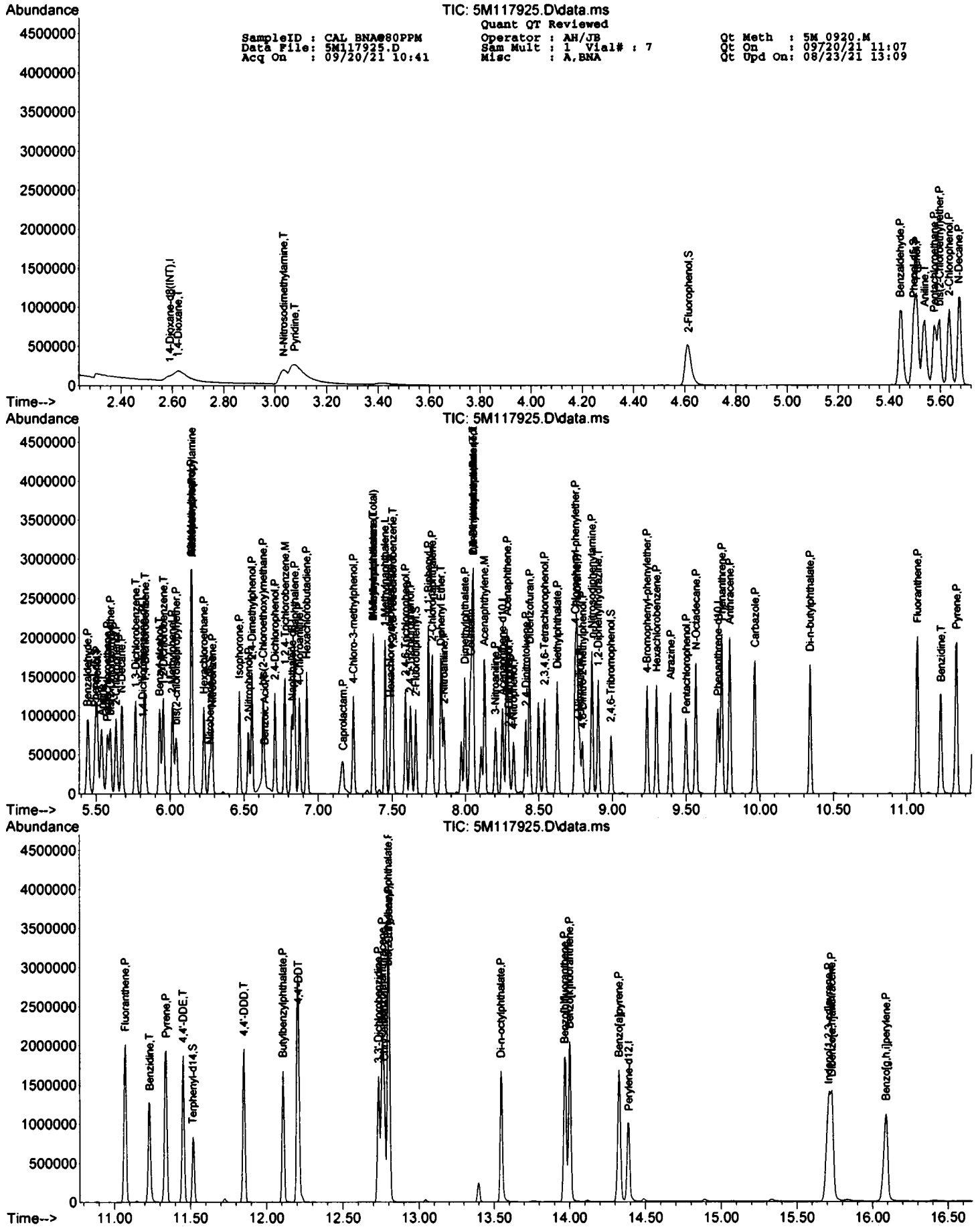
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM  Operator : AH/JB  Qt Meth : 5M_0920.M
Data File: 5M117925.D  Sam Mult : 1  Vial# : 7  Qt On : 09/20/21 11:07
Acq On : 09/20/21 10:41  Misc : A,BNA  Qt Upd On: 08/23/21 13:09

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.205 | 138 | 140187 | 80.0000 | ng | 82 |
| 67) | 2,4-Dinitrophenol | 8.295 | 184 | 75130 | 69.1033 | ng | 37 |
| 68) | Dibenzofuran | 8.440 | 168 | 695393 | 69.0131 | ng | 87 |
| 69) | 2,4-Dinitrotoluene | 8.413 | 165 | 179332 | 77.2837 | ng | 61 |
| 70) | 4-Nitrophenol | 8.327 | 65 | 109898 | 90.7161 | ng | 82 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.541 | 232 | 155259 | 61.2055 | ng | 84 |
| 72) | Fluorene | 8.760 | 166 | 546890 | 67.4784 | ng | 99 |
| 73) | 4-Chlorophenyl-phenyle... | 8.749 | 204 | 281898 | 61.3142 | ng | 81 |
| 74) | Diethylphthalate | 8.627 | 149 | 551607 | 74.7639 | ng | 98 |
| 75) | 4-Nitroaniline | 8.776 | 138 | 149818 | 77.7694 | ng | 83 |
| 76) | Atrazine | 9.396 | 200 | 173880 | 64.8810 | ng | 97 |
| 78) | 4,6-Dinitro-2-methylph... | 8.798 | 198 | 108138 | 76.8529 | ng | 67 |
| 79) | n-Nitrosodiphenylamine | 8.862 | 169 | 472049 | 74.1899 | ng | 100 |
| 81) | 1,2-Diphenylhydrazine | 8.904 | 77 | 533397 | 91.5070 | ng | 84 |
| 82) | 4-Bromophenyl-phenylether | 9.236 | 248 | 179858 | 65.3126 | ng | 84 |
| 83) | Hexachlorobenzene | 9.300 | 284 | 185896 | 58.7634 | ng | 68 |
| 84) | N-Octadecane | 9.567 | 57 | 278059 | 97.7086 | ng | 70 |
| 85) | Pentachlorophenol | 9.503 | 266 | 124569 | 62.2731 | ng | 96 |
| 86) | Phenanthrene | 9.743 | 178 | 813184 | 71.8839 | ng | 100 |
| 87) | Anthracene | 9.797 | 178 | 834611 | 72.6385 | ng | 99 |
| 88) | Carbazole | 9.968 | 167 | 775572 | 77.6579 | ng | 98 |
| 89) | Di-n-butylphthalate | 10.341 | 149 | 908611 | 84.9073 | ng | 98 |
| 90) | Fluoranthene | 11.073 | 202 | 928424 | 68.7474 | ng | 87 |
| 92) | Pyrene | 11.340 | 202 | 950020 | 83.1376 | ng | 83 |
| 93) | Benzidine | 11.234 | 184 | 580509 | 97.8172 | ng | 83 |
| 95) | 4,4'-DDE | 11.453 | 246 | 239184 | 84.3580 | ng | 96 |
| 96) | 4,4'-DDD | 11.853 | 235 | 392261 | 83.4100 | ng | 96 |
| 97) | Butylbenzylphthalate | 12.110 | 149 | 414568 | 104.3387 | ng | 72 |
| 98) | 4,4'-DDT | 12.211 | 235 | 335860 | 83.2390 | ng | 99 |
| 99) | 3,3'-Dichlorobenzidine | 12.735 | 252 | 365438 | 78.9017 | ng | 95 |
| 100) | Benzo[a]anthracene | 12.762 | 228 | 930055 | 76.3929 | ng | 99 |
| 101) | Chrysene | 12.804 | 228 | 884942 | 73.8732 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.799 | 149 | 570488 | 95.3802 | ng | 94 |
| 104) | Di-n-octylphthalate | 13.547 | 149 | 960199 | 94.7618 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 13.969 | 252 | 902594m | 71.0426 | ng | |
| 106) | Benzo[k]fluoranthene | 14.001 | 252 | 901848m | 73.8241 | ng | |
| 107) | Benzo[a]pyrene | 14.327 | 252 | 865471 | 72.9879 | ng | 91 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.710 | 276 | 1009121 | 74.1604 | ng | 73 |
| 109) | Dibenzo[a,h]anthracene | 15.732 | 278 | 872475 | 74.6909 | ng | 91 |
| 110) | Benzo[g,h,i]perylene | 16.090 | 276 | 843745 | 74.1012 | ng | 71 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL BNA@80PPM
Data File: 5M117925.D
Acq On : 09/20/21 10:41
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09/20/21 11:07
Qt Upd On: 08/23/21 13:09
Abundance
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM  Operator : AH/JB  Qt Meth : 5M_0920.M
Data File: 5M117924.D  Sam Mult : 1 Vial# : 6  Qt On : 09/20/21 11:06
Acq On : 09/20/21 10:17  Misc : A,BNA  Qt Upd On: 08/23/21 13:09

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.585 | 96 | 65672 | 40.00 | ng | -0.01 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 85746 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.826 | 136 | 337247 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.253 | 164 | 176687 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.717 | 188 | 333907 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.772 | 240 | 327550 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.386 | 264 | 372469 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.615 | 112 | 298448 | 120.95 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 120.95% | | | |
| 16) Phenol-d5 | 5.496 | 99 | 353034 | 119.46 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 119.46% | | | |
| 32) Nitrobenzene-d5 | 6.271 | 128 | 70391 | 65.17 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 130.34% | | | |
| 55) 2-Fluorobiphenyl | 7.660 | 172 | 343362 | 56.70 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 113.40% | | | |
| 80) 2,4,6-Tribromophenol | 8.995 | 330 | 102180 | 112.56 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 112.56% | | | |
| 94) Terphenyl-d14 | 11.522 | 244 | 303369 | 62.40 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 124.80% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.633 | 88 | 182235m | 113.3450 | ng | |
| 9) Pyridine | 3.081 | 79 | 399584 | 121.7057 | ng | 65 |
| 10) N-Nitrosodimethylamine | 3.028 | 74 | 286468 | 126.9209 | ng | 74 |
| 12) Benzaldehyde | 5.443 | 77 | 279379 | 122.2484 | ng | 82 |
| 13) Aniline | 5.539 | 93 | 453012 | 108.8216 | ng | 59 |
| 14) Pentachloroethane | 5.576 | 117 | 105610 | 100.1049 | ng | 71 |
| 15) bis(2-Chloroethyl)ether | 5.598 | 93 | 304633 | 110.9633 | ng | 78 |
| 17) Phenol | 5.512 | 94 | 423633 | 110.9753 | ng | 86 |
| 18) 2-Chlorophenol | 5.635 | 128 | 323269 | 103.8819 | ng | 80 |
| 19) N-Decane | 5.678 | 57 | 276232 | 117.7853 | ng | 98 |
| 20) 1,3-Dichlorobenzene | 5.769 | 146 | 349577 | 94.4909 | ng | 96 |
| 22) 1,4-Dichlorobenzene | 5.833 | 146 | 359943 | 112.2320 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 5.956 | 146 | 333691 | 112.0438 | ng | 98 |
| 24) Benzyl alcohol | 5.934 | 108 | 202826 | 127.2516 | ng | 78 |
| 25) bis(2-chloroisopropyl)... | 6.041 | 45 | 324716 | 168.0701 | ng | 91 |
| 26) 2-Methylphenol | 6.020 | 108 | 283684 | 128.4941 | ng | 98 |
| 27) Acetophenone | 6.148 | 105 | 410774 | 113.7154 | ng | 72 |
| 28) Hexachloroethane | 6.228 | 117 | 134753 | 120.8954 | ng | 88 |
| 29) N-Nitroso-di-n-propyla... | 6.148 | 70 | 199286 | 126.9042 | ng | 74 |
| 30) 3&4-Methylphenol | 6.143 | 108 | 276320 | 117.6532 | ng | 97 |
| 33) Nitrobenzene | 6.287 | 77 | 324865 | 122.5671 | ng | 81 |
| 34) Isophorone | 6.468 | 82 | 588989 | 122.8525 | ng | 90 |
| 35) 2-Nitrophenol | 6.533 | 139 | 166648 | 112.3261 | ng | 87 |
| 36) 2,4-Dimethylphenol | 6.554 | 107 | 306516 | 109.6912 | ng | 99 |
| 37) Benzoic Acid | 6.645 | 105 | 233400 | 122.4318 | ng | 89 |
| 38) bis(2-Chloroethoxy)met... | 6.634 | 93 | 340222 | 121.2911 | ng | 97 |
| 39) 2,4-Dichlorophenol | 6.709 | 162 | 262009 | 103.2231 | ng | 89 |
| 40) 1,2,4-Trichlorobenzene | 6.778 | 180 | 297887 | 95.0555 | ng | 97 |
| 41) Naphthalene | 6.842 | 128 | 902198 | 104.4593 | ng | 99 |
| 42) 4-Chloroaniline | 6.874 | 127 | 349955m | 106.5339 | ng | |
| 43) Hexachlorobutadiene | 6.923 | 225 | 183090 | 83.6686 | ng | 96 |
| 44) Caprolactam | 7.168 | 113 | 98547 | 129.1470 | ng | 72 |
| 45) 4-Chloro-3-methylphenol | 7.238 | 107 | 270897 | 115.6704 | ng | 86 |
| 46) 2-Methylnaphthalene | 7.371 | 142 | 596363 | 100.6147 | ng | 99 |
| 47) 1-Methylnaphthalene | 7.451 | 142 | 558737 | 101.1294 | ng | 92 |
| 48) Methylnaphthalenes (To... | 7.371 | 142 | 1148946m | 201.2479 | ng | |
| 49) 1,1'-Biphenyl | 7.745 | 154 | 701261 | 84.0805 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.505 | 216 | 307623 | 89.3938 | ng | 99 |
| 52) Hexachlorocyclopentadiene | 7.494 | 237 | 178069 | 83.7822 | ng | 98 |
| 53) 2,4,6-Trichlorophenol | 7.590 | 196 | 202791m | 101.4437 | ng | |
| 54) 2,4,5-Trichlorophenol | 7.628 | 196 | 220759m | 104.6826 | ng | |
| 56) 2-Chloronaphthalene | 7.772 | 162 | 582358 | 107.5518 | ng | 92 |
| 57) 1,4-Dimethylnaphthalene | 8.055 | 156 | 431664 | 93.1691 | ng | 90 |
| 58) Dimethylnaphthalenes (... | 8.055 | 156 | 431664 | 93.1691 | ng | 90 |
| 59) Diphenyl Ether | 7.831 | 170 | 407298 | 100.7403 | ng | 83 |
| 60) 2-Nitroaniline | 7.852 | 65 | 200289 | 134.8633 | ng | 54 |
| 61) Coumarin | 8.044 | 146 | 216611 | 98.4086 | ng | 63 |
| 62) Acenaphthylene | 8.135 | 152 | 842451 | 104.1466 | ng | 99 |
| 63) Dimethylphthalate | 8.002 | 163 | 657489 | 106.3803 | ng | 99 |
| 64) 2,6-Dinitrotoluene | 8.055 | 165 | 144679 | 102.8181 | ng | 74 |
| 65) Acenaphthene | 8.285 | 153 | 552990 | 107.2691 | ng | 95 |

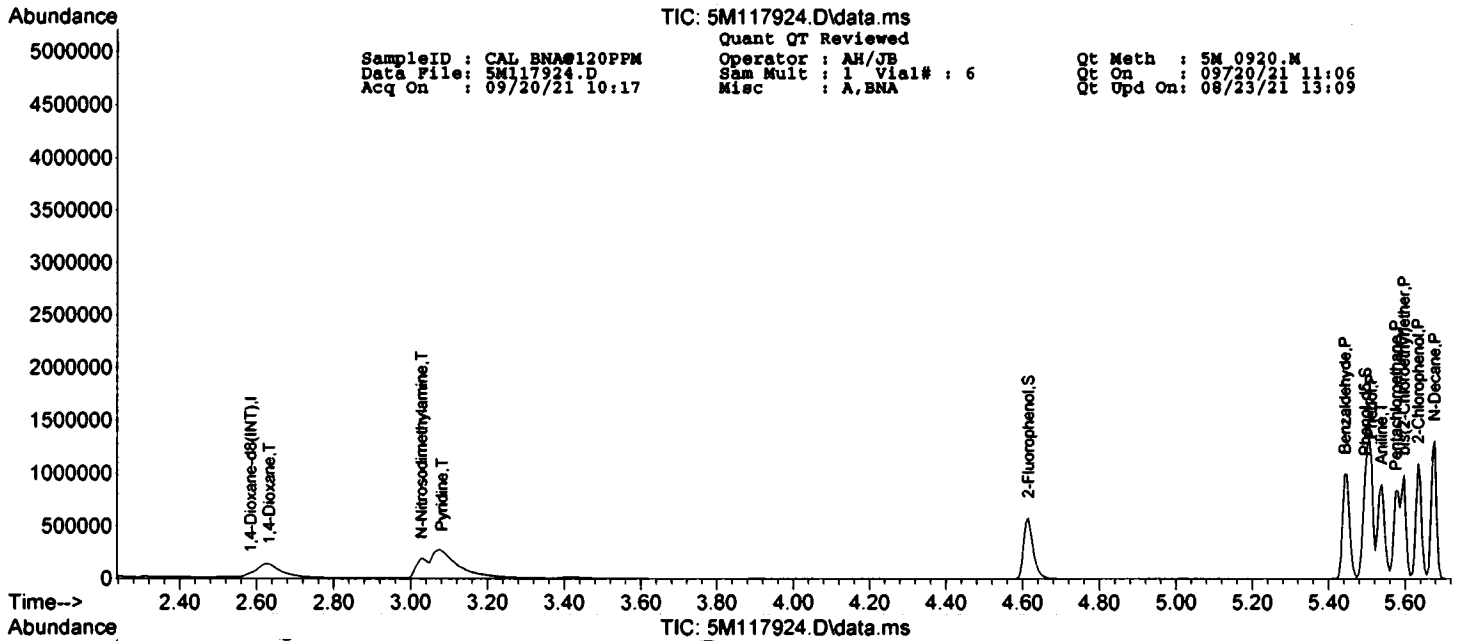
Quantitation Report (QT Reviewed)

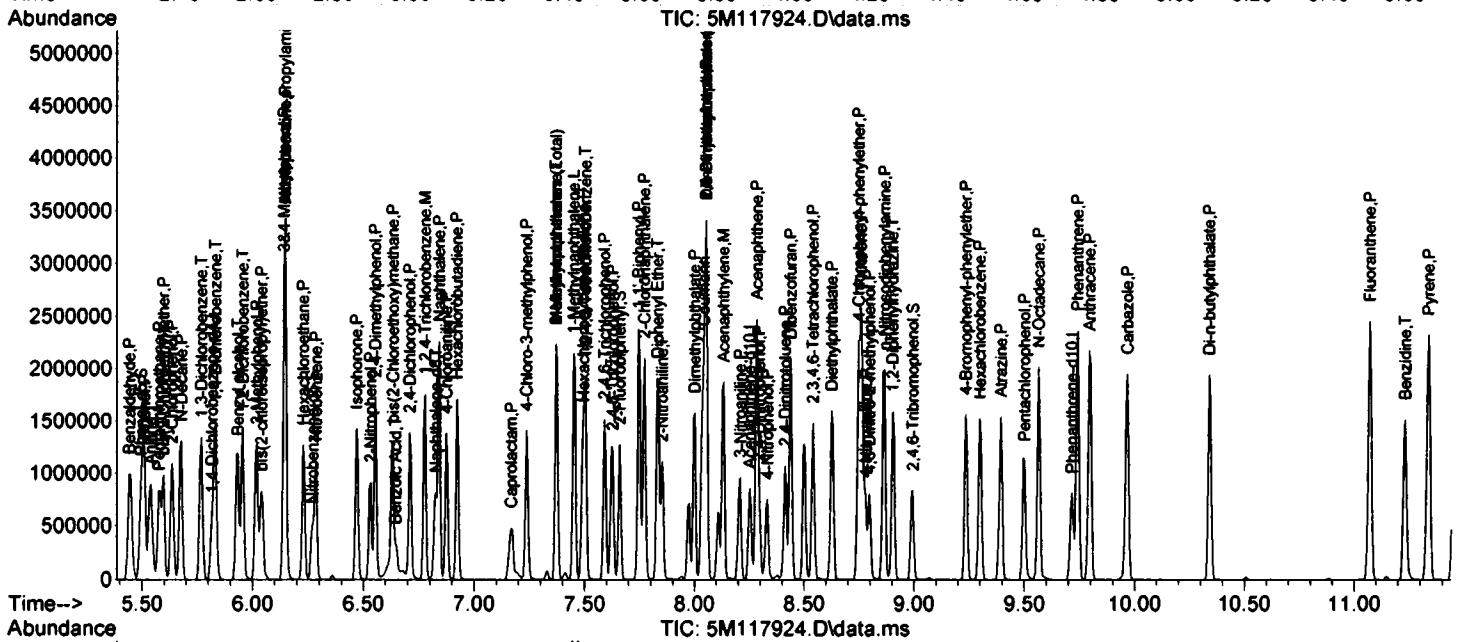
SampleID : CAL BNA@120PPM  Operator : AH/JB  Qt Meth : 5M_0920.M
Data File: 5M117924.D  Sam Mult : 1 Vial# : 6  Qt On : 09/20/21 11:06
Acq On : 09/20/21 10:17  Misc : A,BNA  Qt Upd On: 08/23/21 13:09

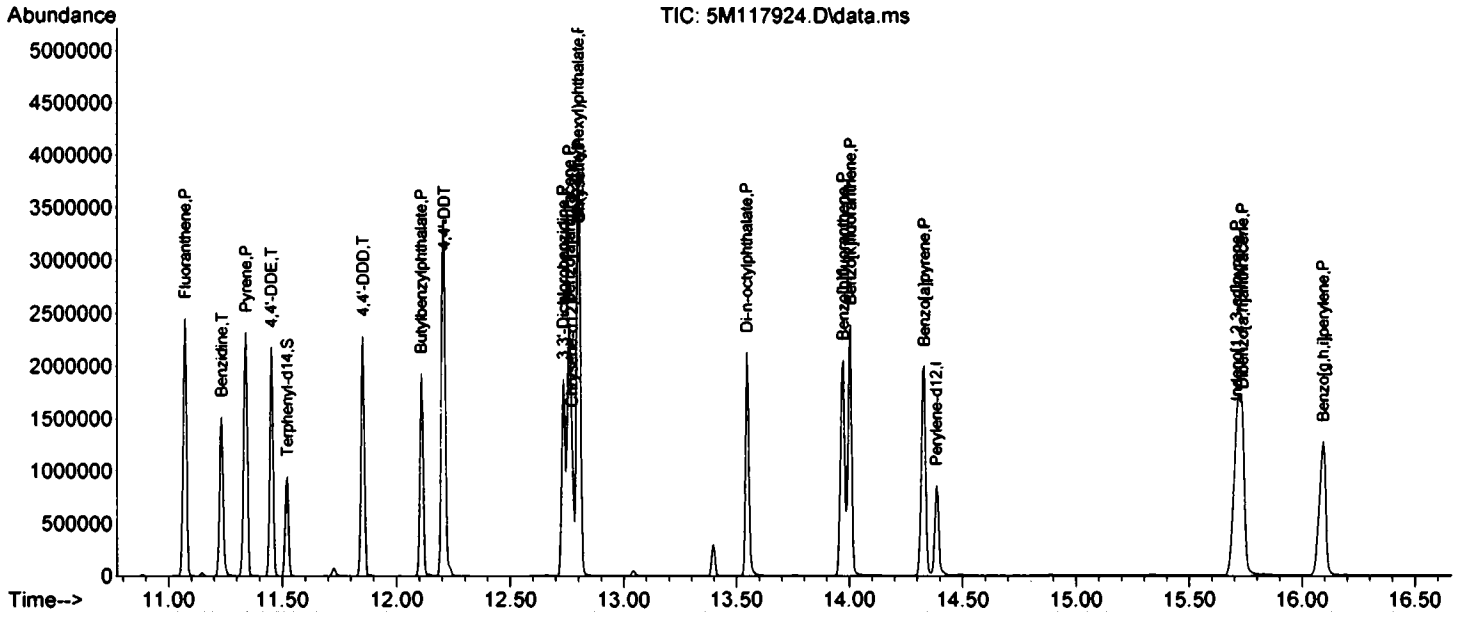
Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.210 | 138 | 161756 | 118.0290 | ng | 76 |
| 67) | 2,4-Dinitrophenol | 8.296 | 184 | 91468 | 107.5724 | ng | 42 |
| 68) | Dibenzofuran | 8.440 | 168 | 808101 | 102.5447 | ng | 88 |
| 69) | 2,4-Dinitrotoluene | 8.413 | 165 | 207365 | 114.2646 | ng | 67 |
| 70) | 4-Nitrophenol | 8.333 | 65 | 127014 | 134.0580 | ng | 78 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.541 | 232 | 184386 | 92.9411 | ng | 83 |
| 72) | Fluorene | 8.760 | 166 | 647666 | 102.1790 | ng | 100 |
| 73) | 4-Chlorophenyl-phenyle... | 8.750 | 204 | 330772 | 91.9908 | ng | 83 |
| 74) | Diethylphthalate | 8.627 | 149 | 652260 | 113.0392 | ng | 98 |
| 75) | 4-Nitroaniline | 8.782 | 138 | 175950 | 116.7831 | ng | 81 |
| 76) | Atrazine | 9.396 | 200 | 204573 | 97.6028 | ng | 96 |
| 78) | 4,6-Dinitro-2-methylph... | 8.798 | 198 | 126074 | 119.6730 | ng | 64 |
| 79) | n-Nitrosodiphenylamine | 8.867 | 169 | 558769 | 117.2948 | ng | 99 |
| 81) | 1,2-Diphenylhydrazine | 8.905 | 77 | 687034 | 157.4240 | ng | 85 |
| 82) | 4-Bromophenyl-phenylether | 9.236 | 248 | 208335 | 101.0458 | ng | 83 |
| 83) | Hexachlorobenzene | 9.300 | 284 | 216652 | 91.4721 | ng | 68 |
| 84) | N-Octadecane | 9.567 | 57 | 327837 | 153.8660 | ng | 69 |
| 85) | Pentachlorophenol | 9.503 | 266 | 149514 | 99.8301 | ng | 97 |
| 86) | Phenanthrene | 9.743 | 178 | 942842 | 111.3193 | ng | 100 |
| 87) | Anthracene | 9.797 | 178 | 969255 | 112.6703 | ng | 99 |
| 88) | Carbazole | 9.968 | 167 | 888640 | 118.8442 | ng | 98 |
| 89) | Di-n-butylphthalate | 10.342 | 149 | 1079538 | 134.7392 | ng | 98 |
| 90) | Fluoranthene | 11.073 | 202 | 1097239 | 108.5175 | ng | 88 |
| 92) | Pyrene | 11.341 | 202 | 1104242 | 125.3418 | ng | 83 |
| 93) | Benzidine | 11.234 | 184 | 673433 | 147.1865 | ng | 83 |
| 95) | 4,4'-DDE | 11.453 | 246 | 285015 | 130.3855 | ng | 96 |
| 96) | 4,4'-DDD | 11.853 | 235 | 462580 | 127.5842 | ng | 96 |
| 97) | Butylbenzylphthalate | 12.110 | 149 | 486987 | 158.9770 | ng | 74 |
| 98) | 4,4'-DDT | 12.211 | 235 | 401540 | 129.0816 | ng | 100 |
| 99) | 3,3'-Dichlorobenzidine | 12.735 | 252 | 432025 | 120.9898 | ng | 95 |
| 100) | Benzo[a]anthracene | 12.762 | 228 | 1077745 | 114.8227 | ng | 99 |
| 101) | Chrysene | 12.804 | 228 | 1032362 | 111.7819 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.799 | 149 | 679122 | 147.2743 | ng | 94 |
| 104) | Di-n-octylphthalate | 13.547 | 149 | 1160526 | 138.8032 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 13.974 | 252 | 1048596 | 103.6971 | ng | 95 |
| 106) | Benzo[k]fluoranthene | 14.006 | 252 | 1068073m | 109.8493 | ng | |
| 107) | Benzo[a]pyrene | 14.332 | 252 | 1020631 | 108.1431 | ng | 89 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.711 | 276 | 1209400 | 111.6684 | ng | 75 |
| 109) | Dibenzo[a,h]anthracene | 15.737 | 278 | 1034274 | 111.2454 | ng | 90 |
| 110) | Benzo[g,h,i]perylene | 16.095 | 276 | 999600 | 110.2991 | ng | 71 |

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


Abundance
TIC: 5M117924.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@120PPM
Data File: 5M117924.D
Acq On : 09/20/21 10:17
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09720/21 11:06
Qt Upd On: 08/23/21 13:09
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 5M117924.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
Acenaphthene,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 5M117924.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM  Operator : AH/JB  Qt Meth : 5M_0920.M
Data File: 5M117923.D  Sam Mult : 1 Vial# : 5  Qt On : 09/20/21 11:06
Acq On : 09/20/21 09:54  Misc : A,BNA  Qt Upd On: 08/23/21 13:09

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.590 | 96 | 87463 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 112004 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.826 | 136 | 433954 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.258 | 164 | 225273 | 40.00 | ng | 0.01 |
| 77) Phenanthrene-d10 | 9.716 | 188 | 443392 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.778 | 240 | 426074 | 40.00 | ng | 0.01 |
| 103) Perylene-d12 | 14.391 | 264 | 483205 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.615 | 112 | 534968 | 162.79 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 162.79% | | | |
| 16) Phenol-d5 | 5.507 | 99 | 602812 | 153.16 | ng | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 153.16% | | | |
| 32) Nitrobenzene-d5 | 6.271 | 128 | 122758 | 88.32 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 176.64% | | | |
| 55) 2-Fluorobiphenyl | 7.665 | 172 | 582170 | 75.40 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 150.80% | | | |
| 80) 2,4,6-Tribromophenol | 9.001 | 330 | 175269 | 145.40 | ng | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 145.40% | | | |
| 94) Terphenyl-d14 | 11.522 | 244 | 535872 | 84.74 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 169.48% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.627 | 88 | 343898m | 160.6039 | ng | |
| 9) Pyridine | 3.076 | 79 | 706820 | 161.6469 | ng | 67 |
| 10) N-Nitrosodimethylamine | 3.039 | 74 | 506619 | 168.5366 | ng | 72 |
| 12) Benzaldehyde | 5.448 | 77 | 470016 | 154.4252 | ng | 80 |
| 13) Aniline | 5.539 | 93 | 784398 | 141.4808 | ng | 59 |
| 14) Pentachloroethane | 5.582 | 117 | 181411 | 129.1130 | ng | 71 |
| 15) bis(2-Chloroethyl)ether | 5.603 | 93 | 511656 | 139.9382 | ng | 77 |
| 17) Phenol | 5.518 | 94 | 723491 | 142.3068 | ng | 89 |
| 18) 2-Chlorophenol | 5.640 | 128 | 551926 | 133.1719 | ng | 80 |
| 19) N-Decane | 5.678 | 57 | 443829 | 142.0983 | ng | 95 |
| 20) 1,3-Dichlorobenzene | 5.769 | 146 | 601001 | 121.9771 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.833 | 146 | 612796 | 146.2781 | ng | 99 |
| 23) 1,2-Dichlorobenzene | 5.956 | 146 | 565823 | 145.4468 | ng | 98 |
| 24) Benzyl alcohol | 5.934 | 108 | 343194 | 164.8389 | ng | 82 |
| 25) bis(2-chloroisopropyl)... | 6.046 | 45 | 537201 | 212.8649 | ng | 87 |
| 26) 2-Methylphenol | 6.020 | 108 | 482875 | 167.4416 | ng | 97 |
| 27) Acetophenone | 6.153 | 105 | 693293 | 146.9311 | ng | 74 |
| 28) Hexachloroethane | 6.228 | 117 | 232994 | 160.0282 | ng | 87 |
| 29) N-Nitroso-di-n-propyla... | 6.159 | 70 | 338521 | 165.0308 | ng | 72 |
| 30) 3&4-Methylphenol | 6.153 | 108 | 462451 | 150.7432 | ng | 100 |
| 33) Nitrobenzene | 6.287 | 77 | 564922 | 165.6395 | ng | 84 |
| 34) Isophorone | 6.479 | 82 | 1008014 | 163.3984 | ng | 86 |
| 35) 2-Nitrophenol | 6.533 | 139 | 292033 | 152.9737 | ng | 91 |
| 36) 2,4-Dimethylphenol | 6.559 | 107 | 516385 | 143.6140 | ng | 99 |
| 37) Benzoic Acid | 6.671 | 105 | 441285 | 169.3240 | ng | 89 |
| 38) bis(2-Chloroethoxy)met... | 6.634 | 93 | 578375 | 160.2435 | ng | 97 |
| 39) 2,4-Dichlorophenol | 6.714 | 162 | 457107 | 139.9532 | ng | 88 |
| 40) 1,2,4-Trichlorobenzene | 6.778 | 180 | 504672 | 125.1524 | ng | 98 |
| 41) Naphthalene | 6.842 | 128 | 1444593 | 129.9856 | ng | 98 |
| 42) 4-Chloroaniline | 6.880 | 127 | 608175m | 143.8828 | ng | |
| 43) Hexachlorobutadiene | 6.928 | 225 | 312630 | 111.0281 | ng | 97 |
| 44) Caprolactam | 7.195 | 113 | 184758m | 188.1692 | ng | |
| 45) 4-Chloro-3-methylphenol | 7.243 | 107 | 462763 | 153.5611 | ng | 88 |
| 46) 2-Methylnaphthalene | 7.377 | 142 | 1037360 | 136.0144 | ng | 100 |
| 47) 1-Methylnaphthalene | 7.457 | 142 | 950175 | 133.6527 | ng | 92 |
| 48) Methylnaphthalenes (To... | 7.377 | 142 | 1975578m | 268.9244 | ng | |
| 49) 1,1'-Biphenyl | 7.751 | 154 | 1201829 | 111.9857 | ng | 92 |
| 51) 1,2,4,5-Tetrachloroben... | 7.505 | 216 | 535784 | 122.1164 | ng | 97 |
| 52) Hexachlorocyclopentadiene | 7.494 | 237 | 312089 | 115.1695 | ng | 100 |
| 53) 2,4,6-Trichlorophenol | 7.596 | 196 | 346135 | 135.8055 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.628 | 196 | 382327 | 142.1957 | ng | 96 |
| 56) 2-Chloronaphthalene | 7.777 | 162 | 983484 | 142.4592 | ng | 92 |
| 57) 1,4-Dimethylnaphthalene | 8.060 | 156 | 715280 | 121.0870 | ng | 90 |
| 58) Dimethylnaphthalenes (... | 8.060 | 156 | 715280 | 121.0870 | ng | 90 |
| 59) Diphenyl Ether | 7.836 | 170 | 701244 | 136.0366 | ng | 80 |
| 60) 2-Nitroaniline | 7.857 | 65 | 348936 | 184.2798 | ng | 58 |
| 61) Coumarin | 8.050 | 146 | 359965 | 128.2650 | ng | 64 |
| 62) Acenaphthylene | 8.141 | 152 | 1412140 | 136.9221 | ng | 98 |
| 63) Dimethylphthalate | 8.007 | 163 | 1133021 | 143.7825 | ng | 99 |
| 64) 2,6-Dinitrotoluene | 8.066 | 165 | 244878 | 136.4927 | ng | 60 |
| 65) Acenaphthene | 8.290 | 153 | 933083 | 141.9623 | ng | 95 |

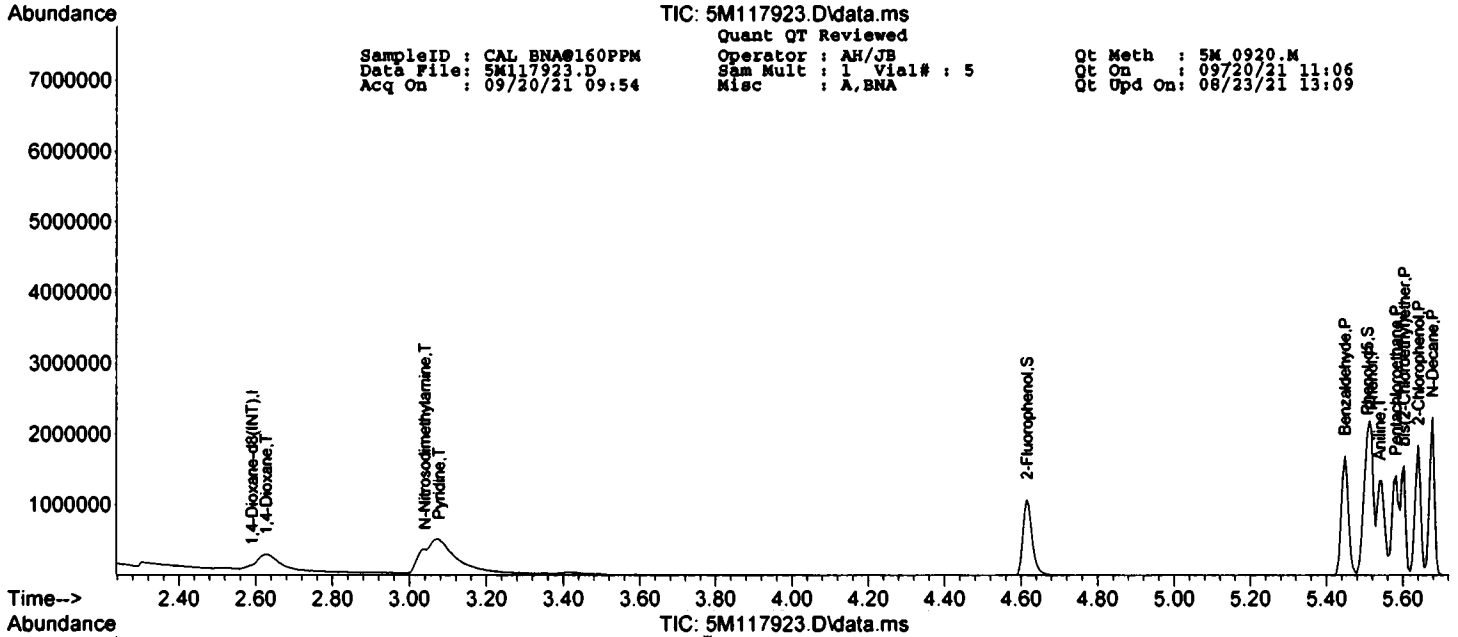
Quantitation Report (QT Reviewed)

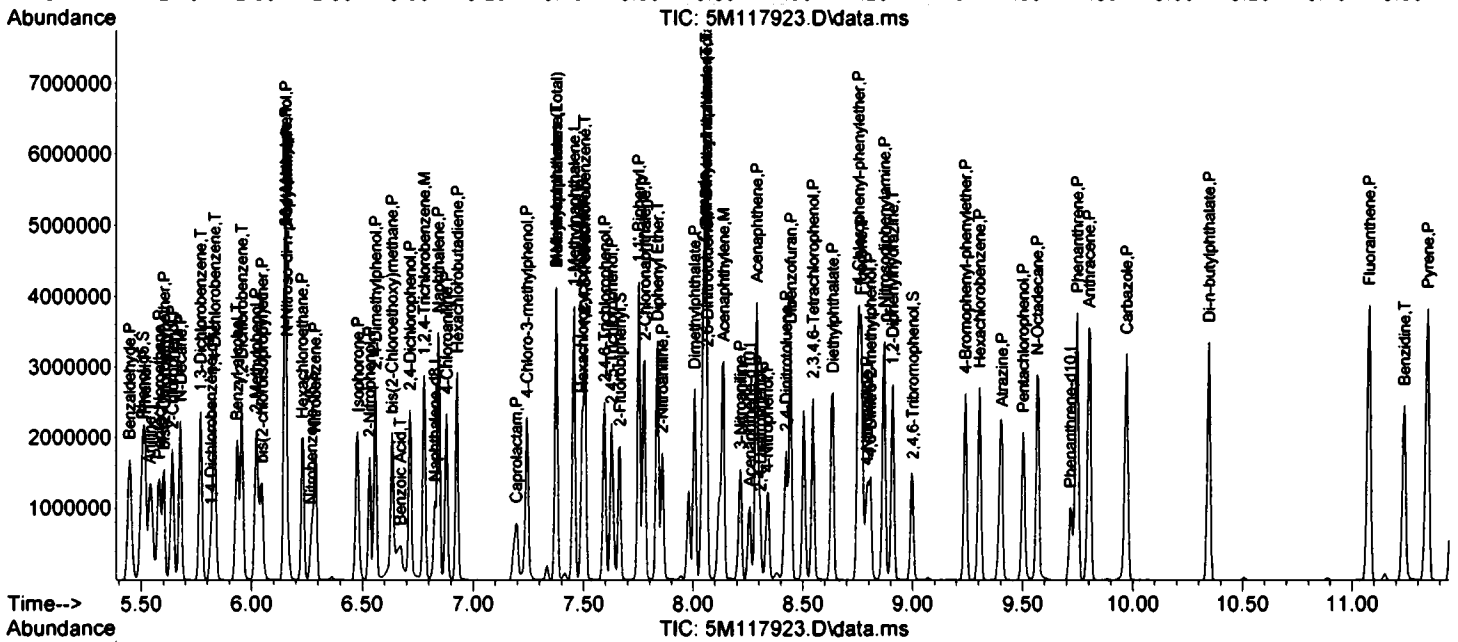
SampleID : CAL BNA@160PPM  Operator : AH/JB  Qt Meth : 5M_0920.M
Data File: 5M117923.D  Sam Mult : 1  Vial# : 5  Qt On : 09/20/21 11:06
Acq On : 09/20/21 09:54  Misc : A,BNA  Qt Upd On: 08/23/21 13:09

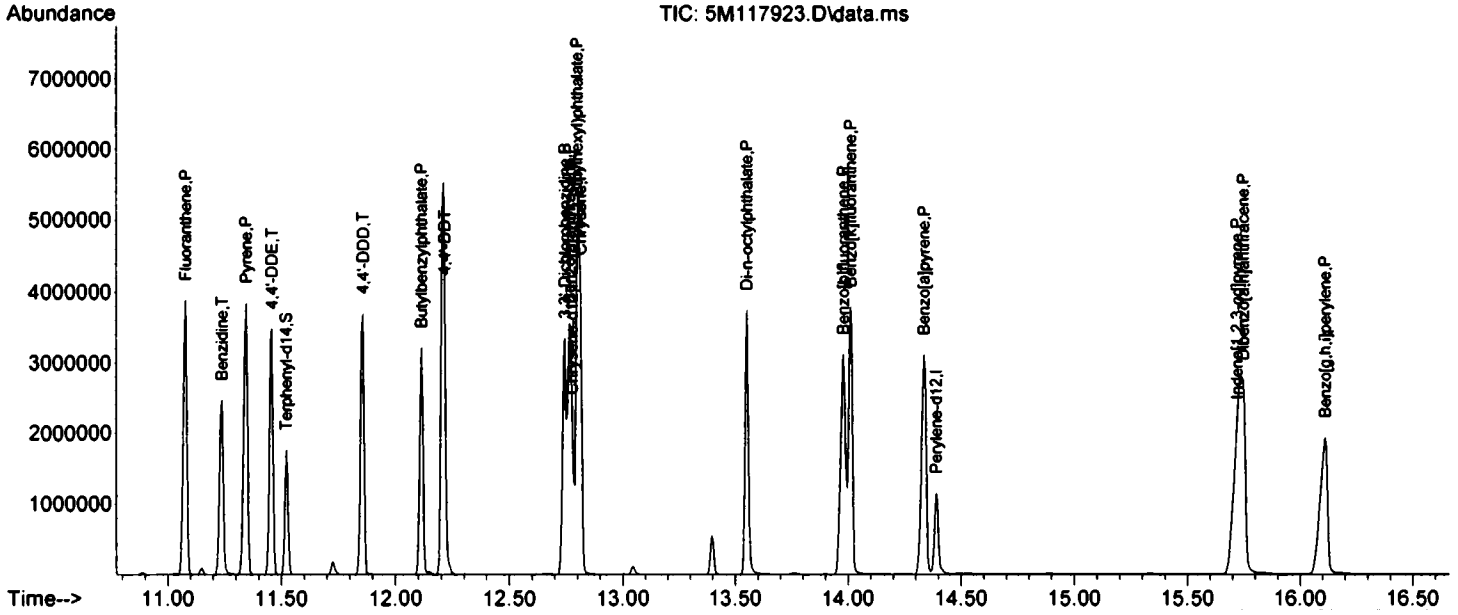
Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.215 | 138 | 275403 | 157.6132 | ng | 80 |
| 67) | 2,4-Dinitrophenol | 8.306 | 184 | 164646 | 151.8722 | ng | 34 |
| 68) | Dibenzofuran | 8.445 | 168 | 1360757 | 135.4327 | ng | 89 |
| 69) | 2,4-Dinitrotoluene | 8.424 | 165 | 360586 | 155.8406 | ng | 62 |
| 70) | 4-Nitrophenol | 8.338 | 65 | 228242 | 188.9435 | ng | 80 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.547 | 232 | 313226 | 123.8320 | ng | 84 |
| 72) | Fluorene | 8.766 | 166 | 1086640 | 134.4596 | ng | 97 |
| 73) | 4-Chlorophenyl-phenyle... | 8.755 | 204 | 569931 | 124.3178 | ng | 80 |
| 74) | Diethylphthalate | 8.637 | 149 | 1110286 | 150.9171 | ng | 96 |
| 75) | 4-Nitroaniline | 8.792 | 138 | 304582 | 158.5588 | ng | 86 |
| 76) | Atrazine | 9.407 | 200 | 355708 | 133.1077 | ng | 95 |
| 78) | 4,6-Dinitro-2-methylph... | 8.808 | 198 | 227173 | 162.3921 | ng | 65 |
| 79) | n-Nitrosodiphenylamine | 8.872 | 169 | 958669 | 151.5489 | ng | 99 |
| 81) | 1,2-Diphenylhydrazine | 8.910 | 77 | 1168759 | 201.6765 | ng | 82 |
| 82) | 4-Bromophenyl-phenylether | 9.241 | 248 | 361809 | 132.1518 | ng | 85 |
| 83) | Hexachlorobenzene | 9.305 | 284 | 374852 | 119.1855 | ng | 68 |
| 84) | N-Octadecane | 9.567 | 57 | 530747 | 187.5900 | ng | 68 |
| 85) | Pentachlorophenol | 9.503 | 266 | 267778 | 134.6456 | ng | 97 |
| 86) | Phenanthrene | 9.749 | 178 | 1602018 | 142.4415 | ng | 99 |
| 87) | Anthracene | 9.802 | 178 | 1660792 | 145.3866 | ng | 99 |
| 88) | Carbazole | 9.973 | 167 | 1513302 | 152.4107 | ng | 98 |
| 89) | Di-n-butylphthalate | 10.347 | 149 | 1871134 | 175.8727 | ng | 98 |
| 90) | Fluoranthene | 11.079 | 202 | 1873662 | 139.5493 | ng | 88 |
| 92) | Pyrene | 11.346 | 202 | 1894160 | 165.2879 | ng | 84 |
| 93) | Benzidine | 11.239 | 184 | 1131238 | 190.0729 | ng | 83 |
| 95) | 4,4'-DDE | 11.458 | 246 | 500619 | 176.0603 | ng | 95 |
| 96) | 4,4'-DDD | 11.859 | 235 | 802918 | 170.2448 | ng | 96 |
| 97) | Butylbenzylphthalate | 12.115 | 149 | 831214 | 208.6039 | ng | 73 |
| 98) | 4,4'-DDT | 12.217 | 235 | 687211 | 169.8315 | ng | 99 |
| 99) | 3,3'-Dichlorobenzidine | 12.746 | 252 | 721913 | 155.4238 | ng | 95 |
| 100) | Benzo[a]anthracene | 12.767 | 228 | 1859896 | 152.3326 | ng | 99 |
| 101) | Chrysene | 12.815 | 228 | 1752149 | 145.8489 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.799 | 149 | 1172223 | 195.4258 | ng | 95 |
| 104) | Di-n-octylphthalate | 13.552 | 149 | 2008077 | 179.2951 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 13.980 | 252 | 1917597m | 146.1754 | ng | |
| 106) | Benzo[k]fluoranthene | 14.012 | 252 | 1715210m | 135.9792 | ng | |
| 107) | Benzo[a]pyrene | 14.338 | 252 | 1754052 | 143.2621 | ng | 91 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.721 | 276 | 2082591 | 148.2255 | ng | 75 |
| 109) | Dibenzo[a,h]anthracene | 15.748 | 278 | 1739415 | 144.2143 | ng | 92 |
| 110) | Benzo[g,h,i]perylene | 16.111 | 276 | 1737172 | 147.7567 | ng | 72 |

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


Abundance
TIC: 5M117923.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 5M117923.D
Acq On : 09/20/21 09:54
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09/20/21 11:06
Qt Upd On: 08/23/21 13:09
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 5M117923.D\data.ms
Benzaldehyde,P
Benzoic Acid,T
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthene,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
Fluoranthene,P
Benzidine,T
Pyrene,P
Di-n-butylphthalate,P
Carbazole,P
Phenanthrene,P
Anthracene,P
Pentachlorophenol,P
N-Octadecane,P
Atrazine,P
Hexachlorobenzene,P
Time-->


Abundance
TIC: 5M117923.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117922.D Sam Mult : 1 Vial# : 4 Qt On : 09/20/21 11:06
Acq On : 09/20/21 09:31 Misc : A,BNA Qt Upd On: 08/23/21 13:09

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.595 | 96 | 87802 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 103083 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.826 | 136 | 408405 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.258 | 164 | 218491 | 40.00 | ng | 0.01 |
| 77) Phenanthrene-d10 | 9.717 | 188 | 427616 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.783 | 240 | 396971 | 40.00 | ng | 0.02 |
| 103) Perylene-d12 | 14.396 | 264 | 446038 | 40.00 | ng | 0.01 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.620 | 112 | 658106 | 199.49 | ng | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 199.49% | | | |
| 16) Phenol-d5 | 5.507 | 99 | 737935 | 186.77 | ng | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 186.77% | | | |
| 32) Nitrobenzene-d5 | 6.276 | 128 | 150235 | 114.85 | ng | 0.01 |
| Spiked Amount 50.000 | | | Recovery = 229.70% | | | |
| 55) 2-Fluorobiphenyl | 7.665 | 172 | 719168 | 96.04 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 192.08% | | | |
| 80) 2,4,6-Tribromophenol | 9.001 | 330 | 214296 | 184.34 | ng | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 184.34% | | | |
| 94) Terphenyl-d14 | 11.522 | 244 | 651632 | 110.60 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 221.20% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.627 | 88 | 438972m | 204.2129 | ng | |
| 9) Pyridine | 3.082 | 79 | 883492 | 201.2710 | ng | 67 |
| 10) N-Nitrosodimethylamine | 3.039 | 74 | 647195 | 214.4707 | ng | 72 |
| 12) Benzaldehyde | 5.448 | 77 | 575774 | 188.4419 | ng | 77 |
| 13) Aniline | 5.544 | 93 | 960684 | 172.6083 | ng | 55 |
| 14) Pentachloroethane | 5.582 | 117 | 223287 | 158.3032 | ng | 72 |
| 15) bis(2-Chloroethyl)ether | 5.603 | 93 | 630569 | 171.7951 | ng | 78 |
| 17) Phenol | 5.523 | 94 | 866107 | 169.7009 | ng | 90 |
| 18) 2-Chlorophenol | 5.646 | 128 | 670413 | 161.1366 | ng | 78 |
| 19) N-Decane | 5.678 | 57 | 543924 | 173.4728 | ng | 95 |
| 20) 1,3-Dichlorobenzene | 5.769 | 146 | 741124 | 149.8353 | ng | 97 |
| 22) 1,4-Dichlorobenzene | 5.833 | 146 | 727100 | 188.5837 | ng | 98 |
| 23) 1,2-Dichlorobenzene | 5.956 | 146 | 692172 | 193.3233 | ng | 98 |
| 24) Benzyl alcohol | 5.940 | 108 | 430500 | 224.6671 | ng | 79 |
| 25) bis(2-chloroisopropyl)... | 6.047 | 45 | 648326 | 279.1304 | ng | 86 |
| 26) 2-Methylphenol | 6.025 | 108 | 592647 | 223.2911 | ng | 98 |
| 27) Acetophenone | 6.153 | 105 | 846838 | 195.0041 | ng | 77 |
| 28) Hexachloroethane | 6.233 | 117 | 283966 | 211.9164 | ng | 90 |
| 29) N-Nitroso-di-n-propyla... | 6.159 | 70 | 411599 | 218.0220 | ng | 75 |
| 30) 3&4-Methylphenol | 6.153 | 108 | 564929 | 200.0840 | ng | 99 |
| 33) Nitrobenzene | 6.292 | 77 | 678019 | 211.2370 | ng | 82 |
| 34) Isophorone | 6.479 | 82 | 1242766 | 214.0540 | ng | 88 |
| 35) 2-Nitrophenol | 6.533 | 139 | 348366 | 193.8979 | ng | 93 |
| 36) 2,4-Dimethylphenol | 6.559 | 107 | 618360 | 182.7331 | ng | 99 |
| 37) Benzoic Acid | 6.682 | 105 | 530707 | 206.6958 | ng | 88 |
| 38) bis(2-Chloroethoxy)met... | 6.640 | 93 | 708786 | 208.6597 | ng | 96 |
| 39) 2,4-Dichlorophenol | 6.720 | 162 | 550434 | 179.0700 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.778 | 180 | 619737 | 163.3014 | ng | 98 |
| 41) Naphthalene | 6.848 | 128 | 1825797 | 174.5641 | ng | 98 |
| 42) 4-Chloroaniline | 6.880 | 127 | 721383m | 181.3421 | ng | |
| 43) Hexachlorobutadiene | 6.928 | 225 | 391762 | 147.8350 | ng | 96 |
| 44) Caprolactam | 7.206 | 113 | 231106 | 250.0973 | ng | 67 |
| 45) 4-Chloro-3-methylphenol | 7.249 | 107 | 567444 | 200.0775 | ng | 84 |
| 46) 2-Methylnaphthalene | 7.377 | 142 | 1267811 | 176.6292 | ng | 97 |
| 47) 1-Methylnaphthalene | 7.457 | 142 | 1158689 | 173.1784 | ng | 93 |
| 48) Methylnaphthalenes (To... | 7.377 | 142 | 2409793m | 348.5527 | ng | |
| 49) 1,1'-Biphenyl | 7.751 | 154 | 1478496 | 146.3837 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.510 | 216 | 663868 | 156.0061 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.494 | 237 | 391946 | 149.1285 | ng | 98 |
| 53) 2,4,6-Trichlorophenol | 7.596 | 196 | 460106 | 186.1252 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.628 | 196 | 447717 | 171.6844 | ng | 98 |
| 56) 2-Chloronaphthalene | 7.777 | 162 | 1222675 | 182.6038 | ng | 93 |
| 57) 1,4-Dimethylnaphthalene | 8.061 | 156 | 888035 | 154.9984 | ng | 90 |
| 58) Dimethylnaphthalenes (... | 8.061 | 156 | 888035 | 154.9984 | ng | 90 |
| 59) Diphenyl Ether | 7.836 | 170 | 852644 | 170.5414 | ng | 80 |
| 60) 2-Nitroaniline | 7.863 | 65 | 424401 | 231.0915 | ng | 50 |
| 61) Coumarin | 8.055 | 146 | 442678 | 162.6341 | ng | 67 |
| 62) Acenaphthylene | 8.141 | 152 | 1724381 | 172.3870 | ng | 98 |
| 63) Dimethylphthalate | 8.012 | 163 | 1379375 | 180.4787 | ng | 98 |
| 64) 2,6-Dinitrotoluene | 8.066 | 165 | 299465 | 172.1001 | ng | 73 |
| 65) Acenaphthene | 8.290 | 153 | 1155350 | 181.2350 | ng | 97 |

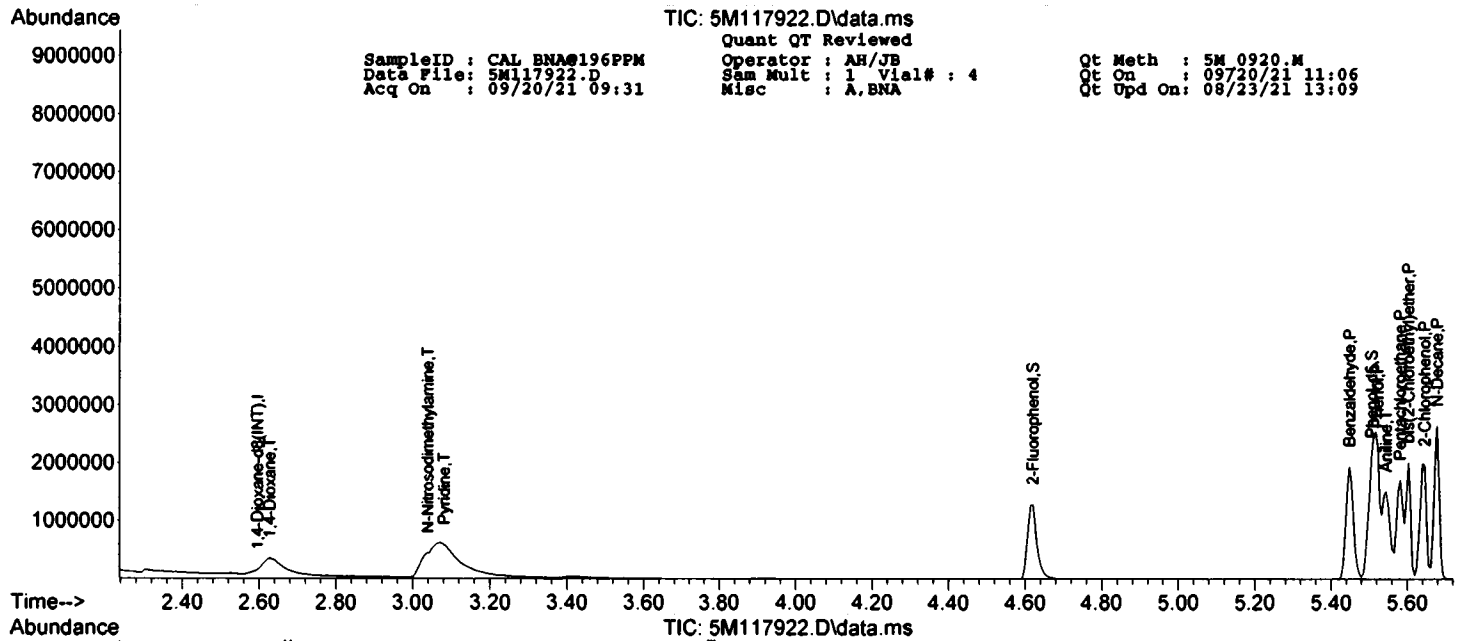
Quantitation Report (QT Reviewed)

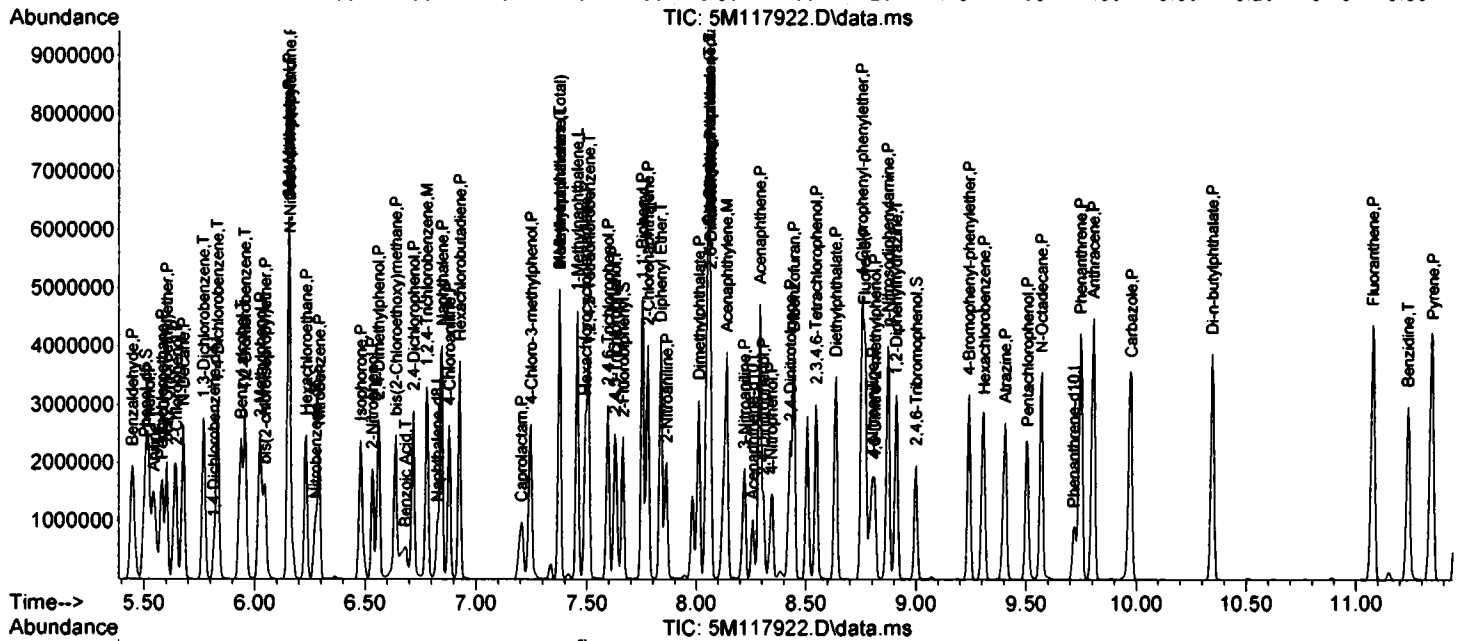
SampleID : CAL BNA@196PPM  Operator : AH/JB  Qt Meth : 5M_0920.M
Data File: 5M117922.D  Sam Mult : 1  Vial# : 4  Qt On : 09/20/21 11:06
Acq On : 09/20/21 09:31  Misc : A,BNA  Qt Upd On: 08/23/21 13:09

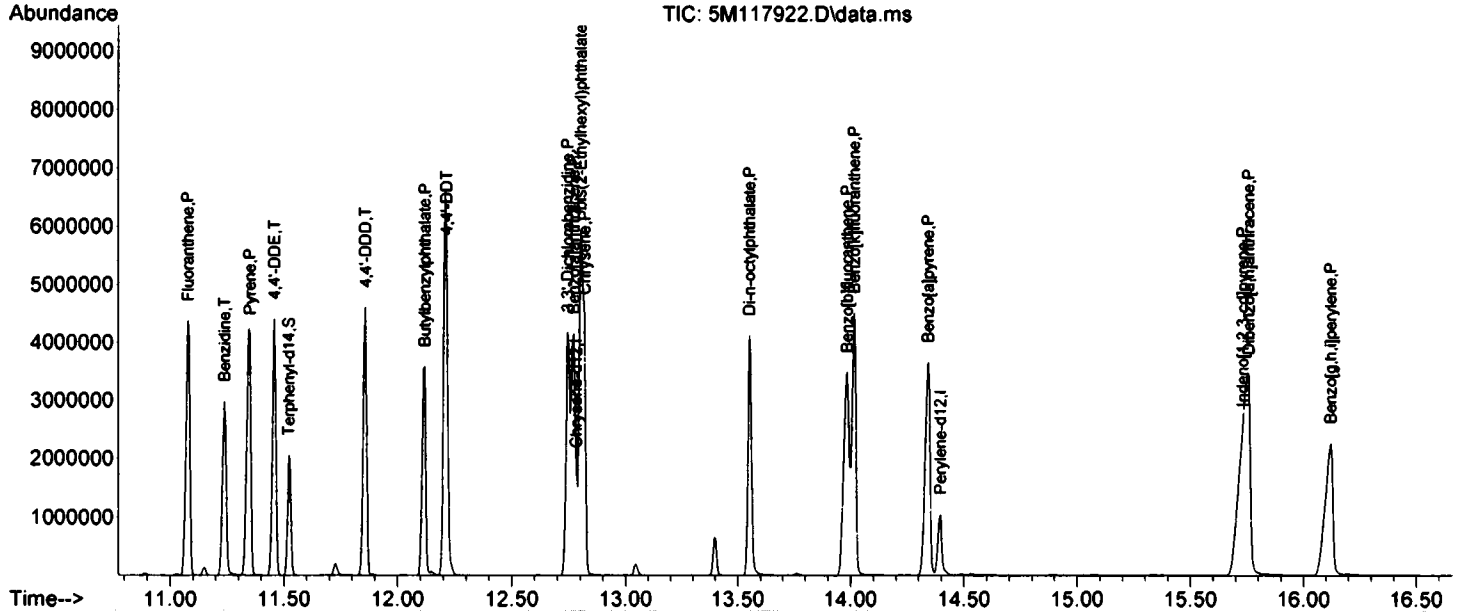
Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.221 | 138 | 340812 | 201.1011 | ng | 79 |
| 67) | 2,4-Dinitrophenol | 8.306 | 184 | 202067 | 192.1756 | ng | 41 |
| 68) | Dibenzofuran | 8.445 | 168 | 1648944 | 169.2094 | ng | 91 |
| 69) | 2,4-Dinitrotoluene | 8.429 | 165 | 435214 | 193.9323 | ng | 65 |
| 70) | 4-Nitrophenol | 8.344 | 65 | 279982 | 238.9693 | ng | 78 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.547 | 232 | 393856 | 160.5418 | ng | 83 |
| 72) | Fluorene | 8.766 | 166 | 1331759 | 169.9055 | ng | 99 |
| 73) | 4-Chlorophenyl-phenyle... | 8.755 | 204 | 706636 | 158.9214 | ng | 82 |
| 74) | Diethylphthalate | 8.637 | 149 | 1366037 | 191.4440 | ng | 96 |
| 75) | 4-Nitroaniline | 8.803 | 138 | 366791 | 196.8704 | ng | 85 |
| 76) | Atrazine | 9.407 | 200 | 431958 | 166.6582 | ng | 96 |
| 78) | 4,6-Dinitro-2-methylph... | 8.814 | 198 | 272079 | 201.6681 | ng | 62 |
| 79) | n-Nitrosodiphenylamine | 8.873 | 169 | 1174802 | 192.5674 | ng | 99 |
| 81) | 1,2-Diphenylhydrazine | 8.910 | 77 | 1438605 | 257.3983 | ng | 82 |
| 82) | 4-Bromophenyl-phenylether | 9.241 | 248 | 445046 | 168.5515 | ng | 83 |
| 83) | Hexachlorobenzene | 9.311 | 284 | 462211 | 152.3835 | ng | 64 |
| 84) | N-Octadecane | 9.572 | 57 | 623253 | 228.4129 | ng | 62 |
| 85) | Pentachlorophenol | 9.508 | 266 | 325076 | 169.4869 | ng | 100 |
| 86) | Phenanthrene | 9.749 | 178 | 1983964 | 182.9098 | ng | 100 |
| 87) | Anthracene | 9.807 | 178 | 1999193 | 181.4670 | ng | 99 |
| 88) | Carbazole | 9.978 | 167 | 1836968 | 191.8339 | ng | 98 |
| 89) | Di-n-butylphthalate | 10.347 | 149 | 2254062 | 219.6815 | ng | 98 |
| 90) | Fluoranthene | 11.079 | 202 | 2248189 | 173.6213 | ng | 89 |
| 92) | Pyrene | 11.351 | 202 | 2292130 | 214.6791 | ng | 82 |
| 93) | Benzidine | 11.239 | 184 | 1363635 | 245.9181 | ng | 85 |
| 95) | 4,4'-DDE | 11.458 | 246 | 622588 | 235.0072 | ng | 94 |
| 96) | 4,4'-DDD | 11.859 | 235 | 966477 | 219.9482 | ng | 96 |
| 97) | Butylbenzylphthalate | 12.121 | 149 | 1026400 | 276.4728 | ng | 70 |
| 98) | 4,4'-DDT | 12.217 | 235 | 838560 | 222.4276 | ng | 97 |
| 99) | 3,3'-Dichlorobenzidine | 12.746 | 252 | 862595 | 199.3268 | ng | 96 |
| 100) | Benzo[a]anthracene | 12.772 | 228 | 2293808 | 201.6450 | ng | 98 |
| 101) | Chrysene | 12.820 | 228 | 2142746 | 191.4384 | ng | 100 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.804 | 149 | 1426439 | 255.2414 | ng | 92 |
| 104) | Di-n-octylphthalate | 13.552 | 149 | 2410555 | 225.1300 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 13.985 | 252 | 2220055 | 183.3328 | ng | 96 |
| 106) | Benzo[k]fluoranthene | 14.017 | 252 | 2222223 | 190.8545 | ng | 92 |
| 107) | Benzo[a]pyrene | 14.343 | 252 | 2142470 | 189.5672 | ng | 91 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.732 | 276 | 2559734 | 197.3664 | ng | 77 |
| 109) | Dibenzo[a,h]anthracene | 15.759 | 278 | 2120829 | 190.4892 | ng | 92 |
| 110) | Benzo[g,h,i]perylene | 16.122 | 276 | 2141921 | 197.3638 | ng | 72 |

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


Abundance
TIC: 5M117922.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@196PPM
Data File: 5M117922.D
Acq On : 09/20/21 09:31
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09/20/21 11:06
Qt Upd On: 08/23/21 13:09
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d6,S
Aniline,T
Bis(2-Chloroethyl)ether,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 5M117922.D\data.ms
Time-->


Abundance
TIC: 5M117922.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM  Operator : AH/JB  Qt Meth : 5M_0920.M
Data File: 5M117927.D  Sam Mult : 1 Vial# : 9  Qt On : 09/20/21 11:43
Acq On : 09/20/21 11:28  Misc : A,BNA  Qt Upd On: 08/23/21 13:09

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.595 | 96 | 70621 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 94622 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.821 | 136 | 367122 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.247 | 164 | 194700 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.711 | 188 | 371753 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.767 | 240 | 369264 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.386 | 264 | 402152 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 0.000 | 112 | 0 | 0.00 | ng | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 16) Phenol-d5 | 0.000 | 99 | 0d | 0.00 | ng | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 32) Nitrobenzene-d5 | 0.000 | 128 | 0 | 0.00 | ng | |
| Spiked Amount 50.000 | | | Recovery = | 0.00% | | |
| 55) 2-Fluorobiphenyl | 0.000 | 172 | 0d | 0.00 | ng | |
| Spiked Amount 50.000 | | | Recovery = | 0.00% | | |
| 80) 2,4,6-Tribromophenol | 0.000 | 330 | 0 | 0.00 | ng | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 94) Terphenyl-d14 | 0.000 | 244 | 0d | 0.00 | ng | |
| Spiked Amount 50.000 | | | Recovery = | 0.00% | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.649 | 88 | 294m | 0.1700 | ng | |
| 9) Pyridine | 0.000 | | 0 | N.D. | d | |
| 10) N-Nitrosodimethylamine | 0.000 | | 0 | N.D. | d | |
| 12) Benzaldehyde | 0.000 | | 0 | N.D. | d | |
| 13) Aniline | 5.534 | 93 | 2154m | 0.4812 | ng | |
| 14) Pentachloroethane | 0.000 | | 0 | N.D. | d | |
| 15) bis(2-Chloroethyl)ether | 5.592 | 93 | 1626 | 0.5508 | ng | 77 |
| 17) Phenol | 0.000 | | 0 | N.D. | d | |
| 18) 2-Chlorophenol | 0.000 | | 0 | N.D. | d | |
| 19) N-Decane | 0.000 | | 0 | N.D. | d | |
| 20) 1,3-Dichlorobenzene | 0.000 | | 0 | N.D. | d | |
| 22) 1,4-Dichlorobenzene | 0.000 | | 0 | N.D. | d | |
| 23) 1,2-Dichlorobenzene | 0.000 | | 0 | N.D. | d | |
| 24) Benzyl alcohol | 0.000 | | 0 | N.D. | d | |
| 25) bis(2-chloroisopropyl)... | 0.000 | | 0 | N.D. | d | |
| 26) 2-Methylphenol | 6.014 | 108 | 1209 | 0.4962 | ng | 87 |
| 27) Acetophenone | 0.000 | | 0 | N.D. | d | |
| 28) Hexachloroethane | 0.000 | | 0 | N.D. | d | |
| 29) N-Nitroso-di-n-propyla... | 6.137 | 70 | 964 | 0.5563 | ng | 79 |
| 30) 3&4-Methylphenol | 6.137 | 108 | 1156 | 0.4460 | ng | 99 |
| 33) Nitrobenzene | 0.000 | | 0 | N.D. | d | |
| 34) Isophorone | 0.000 | | 0 | N.D. | d | |
| 35) 2-Nitrophenol | 0.000 | | 0 | N.D. | d | |
| 36) 2,4-Dimethylphenol | 6.549 | 107 | 1252 | 0.4116 | ng | 96 |
| 37) Benzoic Acid | 0.000 | | 0 | N.D. | | |
| 38) bis(2-Chloroethoxy)met... | 0.000 | | 0 | N.D. | d | |
| 39) 2,4-Dichlorophenol | 6.709 | 162 | 924 | 0.3344 | ng | 85 |
| 40) 1,2,4-Trichlorobenzene | 0.000 | | 0 | N.D. | d | |
| 41) Naphthalene | 6.837 | 128 | 5216 | 0.5548 | ng | 97 |
| 42) 4-Chloroaniline | 6.874 | 127 | 1487 | 0.4158 | ng | 79 |
| 43) Hexachlorobutadiene | 0.000 | | 0 | N.D. | d | |
| 44) Caprolactam | 0.000 | | 0 | N.D. | | |
| 45) 4-Chloro-3-methylphenol | 0.000 | | 0 | N.D. | d | |
| 46) 2-Methylnaphthalene | 0.000 | | 0 | N.D. | d | |
| 47) 1-Methylnaphthalene | 0.000 | | 0 | N.D. | d | |
| 48) Methylnaphthalenes (To... | 0.000 | | 0 | N.D. | d | |
| 49) 1,1'-Biphenyl | 0.000 | | 0 | N.D. | d | |
| 51) 1,2,4,5-Tetrachloroben... | 0.000 | | 0 | N.D. | d | |
| 52) Hexachlorocyclopentadiene | 0.000 | | 0 | N.D. | | |
| 53) 2,4,6-Trichlorophenol | 0.000 | | 0 | N.D. | d | |
| 54) 2,4,5-Trichlorophenol | 0.000 | | 0 | N.D. | d | |
| 56) 2-Chloronaphthalene | 0.000 | | 0 | N.D. | d | |
| 57) 1,4-Dimethylnaphthalene | 0.000 | | 0 | N.D. | d | |
| 58) Dimethylnaphthalenes (... | 0.000 | | 0 | N.D. | d | |
| 59) Diphenyl Ether | 0.000 | | 0 | N.D. | d | |
| 60) 2-Nitroaniline | 0.000 | | 0 | N.D. | d | |
| 61) Coumarin | 0.000 | | 0 | N.D. | d | |
| 62) Acenaphthylene | 0.000 | | 0 | N.D. | d | |
| 63) Dimethylphthalate | 0.000 | | 0 | N.D. | d | |
| 64) 2,6-Dinitrotoluene | 0.000 | | 0 | N.D. | d | |
| 65) Acenaphthene | 0.000 | | 0 | N.D. | d | |

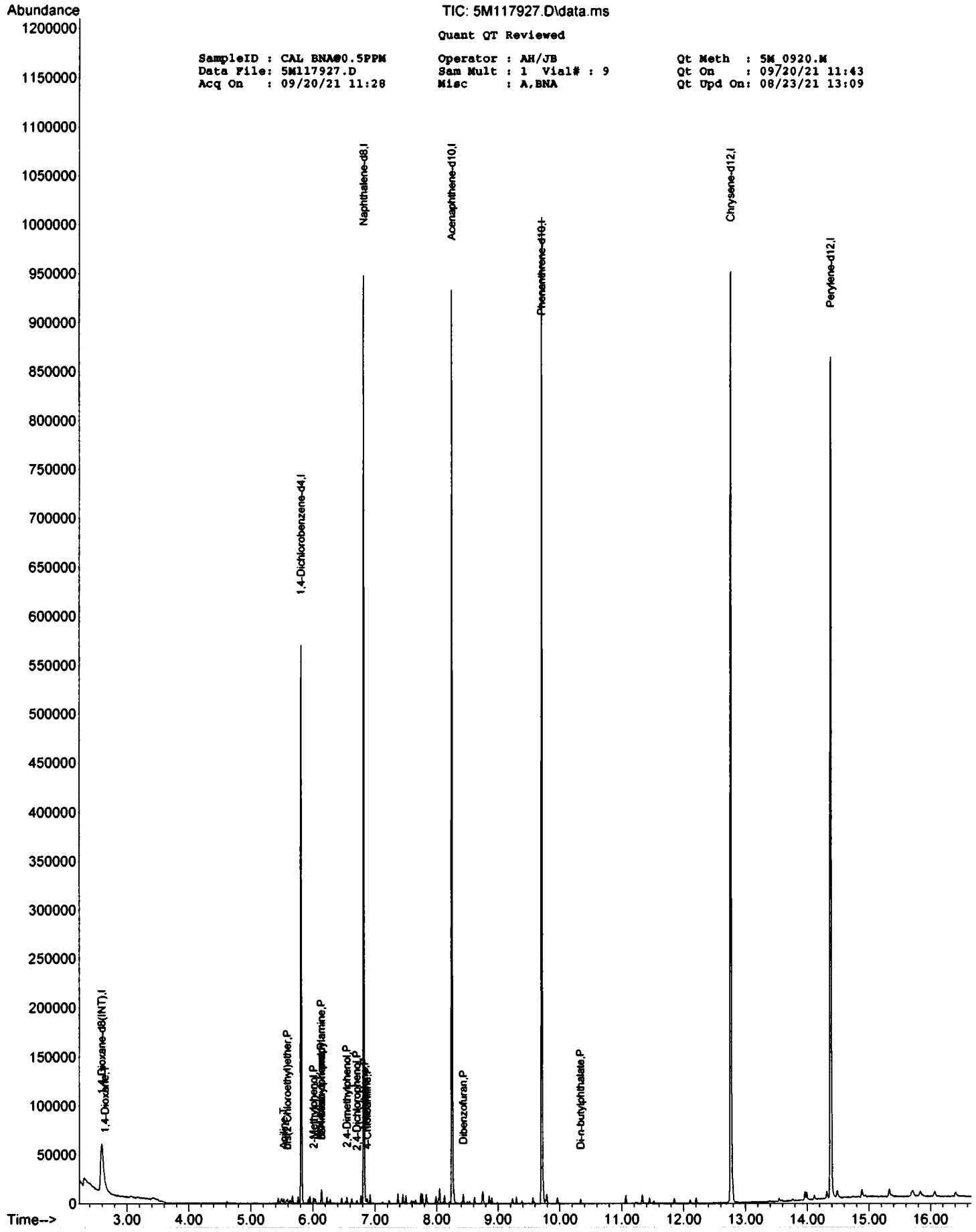
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM  Operator : AH/JB  Qt Meth : 5M_0920.M
Data File: 5M117927.D  Sam Mult : 1  Vial# : 9  Qt On : 09/20/21 11:43
Acq On : 09/20/21 11:28  Misc : A,BNA  Qt Upd On: 08/23/21 13:09

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 0.000 | | 0 | N.D. | | |
| 67) | 2,4-Dinitrophenol | 0.000 | | 0 | N.D. | | |
| 68) | Dibenzofuran | 8.434 | 168 | 4656 | 0.5362 | ng | 79 |
| 69) | 2,4-Dinitrotoluene | 0.000 | | 0 | N.D. d | | |
| 70) | 4-Nitrophenol | 0.000 | | 0 | N.D. d | | |
| 71) | 2,3,4,6-Tetrachlorophenol | 0.000 | | 0 | N.D. | | |
| 72) | Fluorene | 0.000 | | 0 | N.D. d | | |
| 73) | 4-Chlorophenyl-phenyle... | 0.000 | | 0 | N.D. d | | |
| 74) | Diethylphthalate | 0.000 | | 0 | N.D. d | | |
| 75) | 4-Nitroaniline | 0.000 | | 0 | N.D. | | |
| 76) | Atrazine | 0.000 | | 0 | N.D. d | | |
| 78) | 4,6-Dinitro-2-methylph... | 0.000 | | 0 | N.D. | | |
| 79) | n-Nitrosodiphenylamine | 0.000 | | 0 | N.D. d | | |
| 81) | 1,2-Diphenylhydrazine | 0.000 | | 0 | N.D. d | | |
| 82) | 4-Bromophenyl-phenylether | 0.000 | | 0 | N.D. d | | |
| 83) | Hexachlorobenzene | 0.000 | | 0 | N.D. d | | |
| 84) | N-Octadecane | 0.000 | | 0 | N.D. d | | |
| 85) | Pentachlorophenol | 0.000 | | 0 | N.D. d | | |
| 86) | Phenanthrene | 0.000 | | 0 | N.D. d | | |
| 87) | Anthracene | 0.000 | | 0 | N.D. d | | |
| 88) | Carbazole | 0.000 | | 0 | N.D. d | | |
| 89) | Di-n-butylphthalate | 10.336 | 149 | 3203 | 0.3591 | ng | 94 |
| 90) | Fluoranthene | 0.000 | | 0 | N.D. d | | |
| 92) | Pyrene | 0.000 | | 0 | N.D. d | | |
| 93) | Benzidine | 0.000 | | 0 | N.D. d | | |
| 95) | 4,4'-DDE | 0.000 | | 0 | N.D. d | | |
| 96) | 4,4'-DDD | 0.000 | | 0 | N.D. d | | |
| 97) | Butylbenzylphthalate | 0.000 | | 0 | N.D. d | | |
| 98) | 4,4'-DDT | 0.000 | | 0 | N.D. d | | |
| 99) | 3,3'-Dichlorobenzidine | 0.000 | | 0 | N.D. d | | |
| 100) | Benzo[a]anthracene | 0.000 | | 0 | N.D. d | | |
| 101) | Chrysene | 0.000 | | 0 | N.D. d | | |
| 102) | bis(2-Ethylhexyl)phtha... | 0.000 | | 0 | N.D. d | | |
| 104) | Di-n-octylphthalate | 0.000 | | 0 | N.D. d | | |
| 105) | Benzo[b]fluoranthene | 0.000 | | 0 | N.D. d | | |
| 106) | Benzo[k]fluoranthene | 0.000 | | 0 | N.D. d | | |
| 107) | Benzo[a]pyrene | 0.000 | | 0 | N.D. d | | |
| 108) | Indeno[1,2,3-cd]pyrene | 0.000 | | 0 | N.D. d | | |
| 109) | Dibenzo[a,h]anthracene | 0.000 | | 0 | N.D. d | | |
| 110) | Benzo[g,h,i]perylene | 0.000 | | 0 | N.D. d | | |

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


Abundance
TIC: 5M117927.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@0.5PPM
Data File: 5M117927.D
Acq On : 09/20/21 11:28
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09/20/21 11:43
Qt Upd On: 08/23/21 13:09
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
Bis(2-Chloroethyl)ether,P
2-Methylphenol,P
2,4-Dimethylphenol,P
2,4-Dichlorophenol,P
Dibenzofuran,P
Di-n-butylphthalate,P
Time-->

1091738 1078

Method: EPA 8270E

# Form 6
## Initial Calibration

Instrument: GCMS_10

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 10M87373.D | CAL BNA@50PPM | 09/20/21 12:26 | 2 | 10M87366.D | CAL BNA@2PPM | 09/20/21 09:51 |
| 3 | 10M87365.D | CAL BNA@10PPM | 09/20/21 09:29 | 4 | 10M87371.D | CAL BNA@20PPM | 09/20/21 11:42 |
| 5 | 10M87370.D | CAL BNA@80PPM | 09/20/21 11:19 | 6 | 10M87369.D | CAL BNA@120PPM | 09/20/21 10:57 |
| 7 | 10M87368.D | CAL BNA@160PPM | 09/20/21 10:35 | 8 | 10M87367.D | CAL BNA@196PPM | 09/20/21 10:13 |
| 9 | 10M87372.D | CAL BNA@0.5PPM | 09/20/21 12:04 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 0 | Avg | 0.9191 | 1.0877 | 0.8806 | 0.9796 | 0.8844 | 0.8891 | 0.9089 | 1.0130 | 0.8491 | 0.935 | 2.78 | 0.993 | 0.998 | 8.2 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Pyridine | 1 | 0 | Qua | 1.9243 | 0.9166 | 1.4646 | 1.9322 | 1.8929 | 1.9664 | 1.9970 | 2.2087 | ---- | 1.79 | 3.25 | 0.994 | 0.998 | 23 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| N-Nitrosodimethylamin | 1 | 0 | Avg | 1.4129 | 1.1113 | 1.1794 | 1.4513 | 1.4209 | 1.4365 | 1.4601 | 1.6296 | ---- | 1.39 | 3.19 | 0.993 | 0.998 | 12 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Fluorophenol | 1 | 0 | Avg | 2.1960 | 1.9512 | 1.8943 | 2.2361 | 2.2132 | 2.2292 | 2.2661 | 2.4775 | ---- | 2.18 | 4.72 | 0.997 | 0.999 | 8.4 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzaldehyde | 1 | 0 | Avg | 1.9506 | 1.8732 | 1.7109 | 2.0288 | 1.9278 | 1.9076 | 1.9524 | 2.0902 | ---- | 1.93 | 5.53 | 0.997 | 0.999 | 5.8 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Aniline | 1 | 0 | Avg | 3.4386 | 3.1433 | 3.1480 | 3.6312 | 3.4347 | 3.4393 | 3.5438 | 3.8081 | 3.4762 | 3.45 | 5.62 | 0.998 | 0.999 | 6.1 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Pentachloroethane | 1 | 0 | Avg | 0.8007 | 0.7776 | 0.7387 | 0.8401 | 0.8005 | 0.7982 | 0.8138 | 0.8721 | ---- | 0.805 | 5.67 | 0.997 | 0.999 | 4.9 | 0.05 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| bis(2-Chloroethyl)ether | 1 | 0 | Avg | 2.2879 | 2.4673 | 2.2294 | 2.5467 | 2.3473 | 2.2707 | 2.3365 | 2.4790 | 2.6192 | 2.40 | 5.68 | 0.998 | 0.999 | 5.6 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Phenol-d5 | 1 | 0 | Avg | 2.6682 | 2.3348 | 2.3845 | 2.8502 | 2.7029 | 2.7025 | 2.6967 | 2.8989 | ---- | 2.65 | 5.59 | 0.997 | 0.999 | 7.5 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Phenol | 1 | 0 | Avg | 3.2169 | 2.9459 | 2.8764 | 3.3481 | 3.1689 | 3.1647 | 3.2018 | 3.4097 | ---- | 3.17 | 5.60 | 0.998 | 0.999 | 5.7 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Chlorophenol | 1 | 0 | Avg | 2.4886 | 2.2207 | 2.2565 | 2.5864 | 2.4676 | 2.4801 | 2.5132 | 2.6684 | ---- | 2.46 | 5.72 | 0.998 | 0.999 | 6.2 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| N-Decane | 1 | 0 | Avg | 2.8031 | 2.9321 | 2.6793 | 2.9571 | 2.7540 | 2.7539 | 2.7398 | 2.8794 | ---- | 2.81 | 5.76 | 0.999 | 0.999 | 3.5 | 0.05 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,3-Dichlorobenzene | 1 | 0 | Avg | 2.7474 | 2.8423 | 2.6003 | 2.9119 | 2.7177 | 2.6890 | 2.6901 | 2.8503 | ---- | 2.76 | 5.85 | 0.998 | 0.999 | 3.8 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,4-Dichlorobenzene | 1 | 0 | Avg | 1.4294 | 1.4029 | 1.3431 | 1.4770 | 1.4155 | 1.4020 | 1.3837 | 1.4496 | ---- | 1.41 | 5.92 | 0.999 | 0.999 | 2.9 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,2-Dichlorobenzene | 1 | 0 | Avg | 1.3395 | 1.4052 | 1.2705 | 1.4004 | 1.3267 | 1.3187 | 1.3189 | 1.3639 | ---- | 1.34 | 6.04 | 0.999 | 1.00 | 3.4 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzyl alcohol | 1 | 0 | Avg | 0.8270 | 0.5813 | 0.6993 | 0.8398 | 0.8179 | 0.8100 | 0.8310 | 0.8708 | ---- | 0.785 | 6.01 | 0.999 | 0.999 | 12 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| bis(2-chloroisopropyl)e | 1 | 0 | Avg | 1.9476 | 2.0511 | 1.8786 | 2.0732 | 1.9319 | 1.9269 | 1.9317 | 2.0112 | ---- | 1.97 | 6.12 | 0.999 | 1.00 | 3.5 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Methylphenol | 1 | 0 | Avg | 1.1536 | 1.0377 | 1.0511 | 1.2036 | 1.1403 | 1.1582 | 1.1611 | 1.2142 | 1.1191 | 1.14 | 6.10 | 0.999 | 1.00 | 5.3 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Acetophenone | 1 | 0 | Avg | 1.6543 | 1.5996 | 1.5699 | 1.7780 | 1.6150 | 1.5266 | 1.4606 | 1.4693 | ---- | 1.58 | 6.23 | 0.998 | 0.999 | 6.6 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Hexachloroethane | 1 | 0 | Avg | 0.5027 | 0.4969 | 0.4814 | 0.5305 | 0.5053 | 0.5124 | 0.5063 | 0.5304 | ---- | 0.508 | 6.31 | 0.999 | 0.999 | 3.2 | 0.30 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| N-Nitroso-di-n-propyla | 1 | 0 | Avg | 0.8352 | 0.7441 | 0.7419 | 0.8760 | 0.8120 | 0.7686 | 0.7327 | 0.7519 | 0.7660 | 0.781 | 6.23 | 0.998 | 0.999 | 6.3 | 0.50 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| 3&4-Methylphenol | 1 | 0 | Avg | 1.1940 | 1.0842 | 1.0584 | 1.2711 | 1.1676 | 1.1028 | 1.0448 | 1.0487 | 1.0156 | 1.11 | 6.23 | 0.997 | 0.999 | 7.6 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Nitrobenzene-d5 | 1 | 0 | Avg | 0.1390 | 0.1135 | 0.1210 | 0.1437 | 0.1408 | 0.1432 | 0.1453 | 0.1543 | ---- | 0.138 | 6.35 | 0.998 | 0.999 | 9.8 | | 25.00 | 1.00 | 5.00 | 10.00 | 40.00 | 60.00 | 80.00 | 98.00 | |
| Nitrobenzene | 1 | 0 | Avg | 0.2838 | 0.2699 | 0.2662 | 0.3053 | 0.2896 | 0.2886 | 0.2927 | 0.3046 | ---- | 0.288 | 6.37 | 0.999 | 1.00 | 5.0 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Isophorone | 1 | 0 | Avg | 0.5412 | 0.4810 | 0.4750 | 0.5645 | 0.5411 | 0.5439 | 0.5427 | 0.5696 | ---- | 0.532 | 6.55 | 0.999 | 0.999 | 6.6 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Nitrophenol | 1 | 0 | Avg | 0.1662 | 0.1202 | 0.1404 | 0.1684 | 0.1687 | 0.1701 | 0.1730 | 0.1796 | ---- | 0.161 | 6.61 | 0.999 | 1.00 | 12 | 0.10 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4-Dimethylphenol | 1 | 0 | Avg | 0.2779 | 0.2456 | 0.2465 | 0.2871 | 0.2772 | 0.2776 | 0.2737 | 0.2863 | 0.2387 | 0.268 | 6.63 | 0.999 | 0.999 | 7.0 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Benzoic Acid | 1 | 0 | Qua | 0.1608 | ---- | 0.0624 | 0.1345 | 0.1926 | 0.2037 | 0.2142 | 0.2170 | ---- | 0.169 | 6.70 | 0.998 | 0.999 | 33 | | 50.00 | | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| bis(2-Chloroethoxy)me | 1 | 0 | Avg | 0.3394 | 0.3298 | 0.3198 | 0.3559 | 0.3345 | 0.3368 | 0.3340 | 0.3483 | ---- | 0.337 | 6.71 | 0.999 | 1.00 | 3.3 | 0.30 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4-Dichlorophenol | 1 | 0 | Qua | 0.2432 | 0.1940 | 0.2154 | 0.2480 | 0.2452 | 0.2467 | 0.2451 | 0.2526 | 0.1645 | 0.228 | 6.79 | 1.00 | 1.00 | 13 | 0.20 a | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| 1,2,4-Trichlorobenzen | 1 | 0 | Avg | 0.2514 | 0.2558 | 0.2341 | 0.2642 | 0.2502 | 0.2492 | 0.2449 | 0.2565 | ---- | 0.251 | 6.86 | 0.999 | 0.999 | 3.5 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Naphthalene | 1 | 0 | Avg | 0.9304 | 0.9179 | 0.8741 | 0.9733 | 0.9131 | 0.9084 | 0.8906 | 0.9166 | 1.0663 | 0.932 | 6.92 | 1.00 | 1.00 | 6.1 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| 4-Chloroaniline | 1 | 0 | Avg | 0.3613 | 0.3307 | 0.3217 | 0.3739 | 0.3582 | 0.3532 | 0.3466 | 0.3533 | 0.3323 | 0.348 | 6.95 | 1.00 | 1.00 | 4.8 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Hexachlorobutadiene | 1 | 0 | Avg | 0.1176 | 0.1237 | 0.1105 | 0.1243 | 0.1180 | 0.1196 | 0.1159 | 0.1204 | ---- | 0.119 | 7.01 | 0.999 | 0.999 | 3.7 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Caprolactam | 1 | 0 | Qua | 0.0988 | 0.0532 | 0.0733 | 0.0996 | 0.1011 | 0.1015 | 0.1014 | 0.1163 | ---- | 0.0932 | 7.24 | 0.991 | 0.996 | 21 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Chloro-3-methylphe | 1 | 0 | Avg | 0.2490 | 0.2018 | 0.2213 | 0.2591 | 0.2484 | 0.2489 | 0.2513 | 0.2610 | ---- | 0.243 | 7.32 | 0.999 | 1.00 | 8.4 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Methylnaphthalene | 1 | 0 | Avg | 0.6279 | 0.6209 | 0.5965 | 0.6689 | 0.6240 | 0.6110 | 0.5904 | 0.6074 | ---- | 0.618 | 7.46 | 0.999 | 0.999 | 3.9 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1-Methylnaphthalene | 1 | 0 | Avg | 0.5994 | 0.5875 | 0.5627 | 0.6261 | 0.5924 | 0.5764 | 0.5673 | 0.5810 | ---- | 0.587 | 7.54 | 1.00 | 1.00 | 3.4 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Methylnaphthalenes (T | 1 | 0 | Avg | 0.6127 | 0.6042 | 0.5785 | 0.6441 | 0.6033 | 0.5908 | 0.5763 | 0.5917 | ---- | 0.600 | 7.46 | 0.999 | 0.999 | 3.6 | | 100.0 | 4.00 | 20.00 | 40.00 | 160.0 | 240.0 | 320.0 | 392.0 | |
| 1,1'-Biphenyl | 1 | 0 | Avg | 0.7157 | 0.6897 | 0.6747 | 0.7511 | 0.7053 | 0.6882 | 0.6688 | 0.6885 | ---- | 0.698 | 7.83 | 0.999 | 0.999 | 3.8 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,2,4,5-Tetrachloroben | 1 | 0 | Avg | 0.4664 | 0.4493 | 0.4391 | 0.4997 | 0.4700 | 0.4583 | 0.4486 | 0.4516 | ---- | 0.460 | 7.59 | 0.999 | 1.00 | 4.1 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |

*Flags*

*a - failed the min rf criteria*

*c - failed the minimum correlation coeff criteria(if applicable)*

*Note:* Avg Rsd: 8.165

*Corr 1 = Correlation Coefficient for linear Eq.*
*Corr 2 = Correlation Coefficient for quad Eq.*
*Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.*

1091738 1079

Method: EPA 8270E

# Form 6
## Initial Calibration

Instrument: GCMS_10

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 10M87373.D | CAL BNA@50PPM | 09/20/21 12:26 | 2 | 10M87366.D | CAL BNA@2PPM | 09/20/21 09:51 |
| 3 | 10M87365.D | CAL BNA@10PPM | 09/20/21 09:29 | 4 | 10M87371.D | CAL BNA@20PPM | 09/20/21 11:42 |
| 5 | 10M87370.D | CAL BNA@80PPM | 09/20/21 11:19 | 6 | 10M87369.D | CAL BNA@120PPM | 09/20/21 10:57 |
| 7 | 10M87368.D | CAL BNA@160PPM | 09/20/21 10:35 | 8 | 10M87367.D | CAL BNA@196PPM | 09/20/21 10:13 |
| 9 | 10M87372.D | CAL BNA@0.5PPM | 09/20/21 12:04 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorocyclopenta | 1 | 0 | Qua | 0.1953 | 0.0824 | 0.1364 | 0.1862 | 0.2128 | 0.2196 | 0.2180 | 0.2278 | ---- | 0.185 | 7.58 | 0.998 | 0.999 | 27 | 0.05 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4,6-Trichlorophenol | 1 | 0 | Avg | 0.3193 | 0.2305 | 0.2654 | 0.3350 | 0.3252 | 0.3340 | 0.3325 | 0.3360 | ---- | 0.310 | 7.68 | 1.00 | 1.00 | 13 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4,5-Trichlorophenol | 1 | 0 | Avg | 0.3436 | 0.2395 | 0.3009 | 0.3565 | 0.3513 | 0.3538 | 0.3549 | 0.3653 | ---- | 0.333 | 7.71 | 0.999 | 1.00 | 13 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Fluorobiphenyl | 1 | 0 | Avg | 1.2522 | 1.2649 | 1.1763 | 1.3484 | 1.2507 | 1.2623 | 1.2671 | 1.3153 | ---- | 1.27 | 7.75 | 0.999 | 1.00 | 4.0 | | 25.00 | 1.00 | 5.00 | 10.00 | 40.00 | 60.00 | 80.00 | 98.00 | |
| 2-Chloronaphthalene | 1 | 0 | Avg | 1.1111 | 1.0882 | 1.0425 | 1.1797 | 1.1099 | 1.1089 | 1.0810 | 1.1100 | ---- | 1.10 | 7.86 | 1.00 | 1.00 | 3.5 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,4-Dimethylnaphthale | 1 | 0 | Avg | 0.9157 | 0.8972 | 0.8440 | 0.9707 | 0.9021 | 0.8432 | 0.7992 | 0.7715 | ---- | 0.868 | 8.14 | 0.995 | 1.00 | 7.6 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Dimethylnaphthalenes | 1 | 0 | Avg | 0.9157 | 0.8972 | 0.8440 | 0.9707 | 0.9021 | 0.8432 | 0.7992 | 0.7715 | ---- | 0.868 | 8.14 | 0.995 | 1.00 | 7.6 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Diphenyl Ether | 1 | 0 | Avg | 0.7923 | 0.7759 | 0.7449 | 0.8462 | 0.7787 | 0.7758 | 0.7613 | 0.7774 | ---- | 0.782 | 7.92 | 1.00 | 1.00 | 3.8 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2-Nitroaniline | 1 | 0 | Avg | 0.3773 | 0.2818 | 0.3232 | 0.3909 | 0.3728 | 0.3686 | 0.3698 | 0.3861 | ---- | 0.359 | 7.93 | 0.999 | 0.999 | 10 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Coumarin | 1 | 0 | Avg | 0.4464 | 0.3669 | 0.4100 | 0.4740 | 0.4486 | 0.4367 | 0.4153 | 0.4039 | ---- | 0.425 | 8.12 | 0.997 | 1.00 | 7.8 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Acenaphthylene | 1 | 0 | Avg | 1.7304 | 1.5398 | 1.6119 | 1.8350 | 1.7299 | 1.7163 | 1.6826 | 1.7214 | ---- | 1.70 | 8.22 | 1.00 | 1.00 | 5.2 | 0.90 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Dimethylphthalate | 1 | 0 | Avg | 1.2093 | 1.1292 | 1.1230 | 1.2846 | 1.2031 | 1.1990 | 1.2028 | 1.2366 | ---- | 1.20 | 8.08 | 0.999 | 1.00 | 4.4 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,6-Dinitrotoluene | 1 | 0 | Avg | 0.2860 | 0.2184 | 0.2528 | 0.3038 | 0.2825 | 0.2695 | 0.2527 | 0.2486 | ---- | 0.264 | 8.14 | 0.996 | 1.00 | 10 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Acenaphthene | 1 | 0 | Avg | 1.1171 | 1.1225 | 1.0783 | 1.1969 | 1.1285 | 1.1090 | 1.0755 | 1.0913 | ---- | 1.11 | 8.37 | 1.00 | 1.00 | 3.5 | 0.90 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 3-Nitroaniline | 1 | 0 | Avg | 0.3461 | 0.2553 | 0.2983 | 0.3598 | 0.3457 | 0.3431 | 0.3488 | 0.3586 | ---- | 0.332 | 8.29 | 0.999 | 1.00 | 11 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4-Dinitrophenol | 1 | 0 | Qua | 0.1285 | ---- | 0.0671 | 0.1049 | 0.1497 | 0.1614 | 0.1715 | 0.1802 | ---- | 0.138 | 8.38 | 0.996 | 1.00 | 29 | 0.20 a | 50.00 | | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Dibenzofuran | 1 | 0 | Avg | 1.5735 | 1.6040 | 1.4999 | 1.6823 | 1.5687 | 1.5598 | 1.5287 | 1.5449 | 1.8105 | 1.60 | 8.52 | 1.00 | 1.00 | 6.0 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| 2,4-Dinitrotoluene | 1 | 0 | Qua | 0.3725 | 0.2497 | 0.3250 | 0.3837 | 0.3839 | 0.3835 | 0.3914 | 0.4107 | ---- | 0.363 | 8.49 | 0.998 | 1.00 | 14 | 0.20 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Nitrophenol | 1 | 0 | Qua | 0.2047 | 0.1230 | 0.1514 | 0.1976 | 0.2129 | 0.2163 | 0.2345 | 0.2305 | ---- | 0.196 | 8.42 | 0.998 | 0.999 | 20 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,3,4,6-Tetrachlorophe | 1 | 0 | Avg | 0.2595 | 0.1797 | 0.2188 | 0.2713 | 0.2636 | 0.2719 | 0.2724 | 0.2760 | ---- | 0.252 | 8.63 | 0.999 | 1.00 | 14 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Fluorene | 1 | 0 | Avg | 1.2762 | 1.2107 | 1.2139 | 1.3699 | 1.2841 | 1.2608 | 1.2177 | 1.2366 | ---- | 1.26 | 8.84 | 0.999 | 1.00 | 4.2 | 0.90 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Chlorophenyl-phenyl | 1 | 0 | Avg | 0.5381 | 0.5335 | 0.5156 | 0.5813 | 0.5445 | 0.5433 | 0.5356 | 0.5440 | ---- | 0.542 | 8.83 | 1.00 | 1.00 | 3.4 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Diethylphthalate | 1 | 0 | Avg | 1.1986 | 1.0800 | 1.0924 | 1.2728 | 1.2046 | 1.2077 | 1.1959 | 1.2267 | ---- | 1.18 | 8.70 | 1.00 | 1.00 | 5.5 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Nitroaniline | 1 | 0 | Qua | 0.3667 | 0.2361 | 0.2990 | 0.3765 | 0.3729 | 0.3780 | 0.3815 | 0.4001 | ---- | 0.351 | 8.85 | 0.999 | 1.00 | 16 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Atrazine | 1 | 0 | Avg | 0.3187 | 0.2376 | 0.2777 | 0.3329 | 0.3220 | 0.3257 | 0.3246 | 0.3320 | ---- | 0.309 | 9.47 | 1.00 | 1.00 | 11 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4,6-Dinitro-2-methylph | 1 | 0 | Qua | 0.1045 | ---- | 0.0688 | 0.0980 | 0.1145 | 0.1208 | 0.1251 | 0.1328 | ---- | 0.109 | 8.88 | 0.997 | 1.00 | 20 | 0.01 | 50.00 | | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| n-Nitrosodiphenylamin | 1 | 0 | Avg | 0.6199 | 0.5517 | 0.5732 | 0.6584 | 0.6146 | 0.6173 | 0.6042 | 0.6211 | ---- | 0.608 | 8.94 | 1.00 | 1.00 | 5.3 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 2,4,6-Tribromophenol | 1 | 0 | Qua | 0.0770 | 0.0466 | 0.0589 | 0.0755 | 0.0768 | 0.0803 | 0.0815 | 0.0876 | ---- | 0.0731 | 9.08 | 0.997 | 0.999 | 18 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 1,2-Diphenylhydrazine | 1 | 0 | Avg | 0.6920 | 0.6063 | 0.6242 | 0.7272 | 0.6794 | 0.7507 | 0.7403 | 0.7674 | ---- | 0.698 | 8.99 | 0.998 | 0.999 | 8.5 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4-Bromophenyl-phenyl | 1 | 0 | Avg | 0.1631 | 0.1461 | 0.1421 | 0.1692 | 0.1619 | 0.1632 | 0.1611 | 0.1685 | ---- | 0.159 | 9.32 | 0.999 | 0.999 | 6.2 | 0.10 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Hexachlorobenzene | 1 | 0 | Avg | 0.1686 | 0.1627 | 0.1520 | 0.1765 | 0.1671 | 0.1691 | 0.1697 | 0.1745 | ---- | 0.168 | 9.39 | 0.998 | 0.998 | 4.5 | 0.10 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| N-Octadecane | 1 | 0 | Avg | 0.5054 | 0.4197 | 0.4444 | 0.5260 | 0.5024 | 0.4939 | 0.4763 | 0.4799 | ---- | 0.481 | 9.64 | 0.999 | 1.00 | 7.2 | 0.05 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Pentachlorophenol | 1 | 0 | Qua | 0.0966 | ---- | 0.0568 | 0.0826 | 0.1025 | 0.1078 | 0.1125 | 0.1177 | ---- | 0.0967 | 9.59 | 0.998 | 1.00 | 22 | 0.05 | 50.00 | | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Phenanthrene | 1 | 0 | Avg | 1.0112 | 1.0113 | 0.9477 | 1.0850 | 0.9856 | 0.9869 | 0.9607 | 0.9900 | ---- | 0.997 | 9.83 | 0.999 | 0.999 | 4.2 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Anthracene | 1 | 0 | Avg | 1.0467 | 0.9523 | 0.9371 | 1.0994 | 1.0234 | 1.0250 | 0.9967 | 1.0312 | ---- | 1.01 | 9.88 | 0.999 | 0.999 | 5.1 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Carbazole | 1 | 0 | Avg | 0.9929 | 0.8833 | 0.8994 | 1.0527 | 0.9791 | 0.9766 | 0.9667 | 0.9997 | ---- | 0.969 | 10.05 | 0.999 | 1.00 | 5.6 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Di-n-butylphthalate | 1 | 0 | Qua | 1.1647 | 0.8945 | 0.9677 | 1.2077 | 1.1706 | 1.1623 | 1.1653 | 1.1918 | 0.9402 | 1.10 | 10.42 | 1.00 | 1.00 | 11 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | 0.50 |
| Fluoranthene | 1 | 0 | Avg | 1.0114 | 0.9021 | 0.9109 | 1.0582 | 0.9899 | 0.9932 | 0.9715 | 1.0008 | ---- | 0.980 | 11.15 | 1.00 | 1.00 | 5.3 | 0.60 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Pyrene | 1 | 0 | Avg | 1.3665 | 1.2536 | 1.2617 | 1.4206 | 1.3462 | 1.3286 | 1.3486 | 1.3909 | ---- | 1.34 | 11.42 | 0.999 | 1.00 | 4.3 | 0.60 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzidine | 1 | 0 | Avg | 0.8680 | 0.5346 | 0.6937 | 0.8698 | 0.8720 | 0.8551 | 0.8645 | 0.8973 | ---- | 0.807 | 11.31 | 0.999 | 0.999 | 16 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Terphenyl-d14 | 1 | 0 | Avg | 0.6167 | 0.5294 | 0.5525 | 0.6505 | 0.6336 | 0.6377 | 0.6565 | 0.7079 | ---- | 0.623 | 11.60 | 0.997 | 0.999 | 9.2 | | 25.00 | 1.00 | 5.00 | 10.00 | 40.00 | 60.00 | 80.00 | 96.00 | |

***Flags***

***a - failed the min rf criteria***

***c - failed the minimum correlation coeff criteria(if applicable)***

***Note:*** Avg Rsd: 8.165

***Corr 1 = Correlation Coefficient for linear Eq.***

***Corr 2 = Correlation Coefficient for quad Eq.***

***Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.***

1091738 1080

Method: EPA 8270E

# Form 6
## Initial Calibration

Instrument: GCMS_10

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 10M87373.D | CAL BNA@50PPM | 09/20/21 12:26 | 2 | 10M87366.D | CAL BNA@2PPM | 09/20/21 09:51 |
| 3 | 10M87365.D | CAL BNA@10PPM | 09/20/21 09:29 | 4 | 10M87371.D | CAL BNA@20PPM | 09/20/21 11:42 |
| 5 | 10M87370.D | CAL BNA@80PPM | 09/20/21 11:19 | 6 | 10M87369.D | CAL BNA@120PPM | 09/20/21 10:57 |
| 7 | 10M87368.D | CAL BNA@160PPM | 09/20/21 10:35 | 8 | 10M87367.D | CAL BNA@196PPM | 09/20/21 10:13 |
| 9 | 10M87372.D | CAL BNA@0.5PPM | 09/20/21 12:04 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | RF9 | AvgRf | RT | Corr1 | Corr2 | %Rsd | | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 | Lvl9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE | 1 | 0 | Avg | 0.2653 | 0.2443 | 0.2393 | 0.2739 | 0.2626 | 0.2637 | 0.2676 | 0.2783 | ---- | 0.262 | 11.53 | 0.999 | 1.00 | 5.2 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4,4'-DDD | 1 | 0 | Avg | 0.4671 | 0.3718 | 0.4055 | 0.4825 | 0.4699 | 0.4627 | 0.4651 | 0.4824 | ---- | 0.451 | 11.93 | 0.999 | 1.00 | 8.9 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Butylbenzylphthalate | 1 | 0 | Qua | 0.6535 | 0.4364 | 0.5218 | 0.6566 | 0.6594 | 0.6576 | 0.6734 | 0.7049 | ---- | 0.621 | 12.18 | 0.998 | 1.00 | 15 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 4,4'-DDT | 1 | 0 | Avg | 0.4056 | 0.3252 | 0.3593 | 0.4087 | 0.4040 | 0.3992 | 0.4015 | 0.4053 | ---- | 0.389 | 12.29 | 1.00 | 1.00 | 7.8 | | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| 3,3'-Dichlorobenzidine | 1 | 0 | Qua | 0.4314 | 0.3143 | 0.3661 | 0.4471 | 0.4408 | 0.4438 | 0.4280 | 0.4430 | ---- | 0.414 | 12.81 | 0.999 | 0.999 | 12 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[a]anthracene | 1 | 0 | Avg | 1.1246 | 1.0976 | 1.0428 | 1.1531 | 1.1036 | 1.1209 | 1.1351 | 1.1802 | ---- | 1.12 | 12.84 | 0.999 | 1.00 | 3.6 | 0.80 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Chrysene | 1 | 0 | Avg | 1.1295 | 1.0935 | 1.0476 | 1.1862 | 1.1086 | 1.1011 | 1.1282 | 1.1816 | ---- | 1.12 | 12.88 | 0.998 | 0.999 | 4.1 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| bis(2-Ethylhexyl)phthal | 1 | 0 | Avg | 0.9167 | 0.6458 | 0.7524 | 0.9283 | 0.9221 | 0.9201 | 0.9345 | 0.9696 | ---- | 0.874 | 12.86 | 0.999 | 1.00 | 13 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Di-n-octylphthalate | 1 | 0 | Qua | 1.4461 | 0.9507 | 1.1690 | 1.4603 | 1.4832 | 1.4834 | 1.4609 | 1.5213 | ---- | 1.37 | 13.61 | 0.999 | 0.999 | 15 | 0.01 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[b]fluoranthene | 1 | 0 | Avg | 1.0310 | 0.9147 | 0.9196 | 1.0425 | 0.9989 | 1.0236 | 0.9672 | 1.0764 | ---- | 0.997 | 14.05 | 0.998 | 0.998 | 5.9 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[k]fluoranthene | 1 | 0 | Avg | 0.9712 | 0.9013 | 0.9240 | 1.0707 | 1.0113 | 0.9683 | 0.9953 | 1.0133 | ---- | 0.982 | 14.07 | 0.999 | 1.00 | 5.5 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[a]pyrene | 1 | 0 | Avg | 0.9449 | 0.7857 | 0.8295 | 0.9651 | 0.9452 | 0.9445 | 0.9328 | 0.9978 | ---- | 0.918 | 14.41 | 0.998 | 0.999 | 7.8 | 0.70 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Indeno[1,2,3-cd]pyren | 1 | 0 | Avg | 1.0382 | 0.9015 | 0.9115 | 1.0684 | 1.0581 | 1.0498 | 1.0287 | 1.1152 | ---- | 1.02 | 15.82 | 0.999 | 0.999 | 7.4 | 0.50 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Dibenzo[a,h]anthracen | 1 | 0 | Avg | 0.8925 | 0.7623 | 0.7825 | 0.9097 | 0.9140 | 0.9001 | 0.8867 | 0.9564 | ---- | 0.876 | 15.84 | 0.998 | 0.998 | 7.7 | 0.40 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |
| Benzo[g,h,i]perylene | 1 | 0 | Avg | 0.8770 | 0.7604 | 0.7903 | 0.9012 | 0.8770 | 0.8886 | 0.8744 | 0.9484 | ---- | 0.865 | 16.21 | 0.997 | 0.998 | 7.0 | 0.50 | 50.00 | 2.00 | 10.00 | 20.00 | 80.00 | 120.0 | 160.0 | 196.0 | |

*Flags*

*a - failed the min rf criteria*

*c - failed the minimum correlation coeff criteria(if applicable)*

*Note:* Avg Rsd: 8.165

*Corr 1 = Correlation Coefficient for linear Eq.*

*Corr 2 = Correlation Coefficient for quad Eq.*

*Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.*

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87373.D  Sam Mult : 1  Vial# : 10  Qt On : 09/20/21 12:46
Acq On : 09/20/21 12:26  Misc : A,BNA  Qt Upd On: 08/23/21 14:04

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 30033 | 40.00 | ng | -0.02 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 59625 | 40.00 | ng | -0.02 |
| 31) Naphthalene-d8 | 6.906 | 136 | 240432 | 40.00 | ng | -0.01 |
| 50) Acenaphthene-d10 | 8.340 | 164 | 117797 | 40.00 | ng | -0.02 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 206573 | 40.00 | ng | -0.02 |
| 91) Chrysene-d12 | 12.849 | 240 | 157056 | 40.00 | ng | -0.03 |
| 103) Perylene-d12 | 14.475 | 264 | 166354 | 40.00 | ng | -0.03 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 82443 | 48.76 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 48.76% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 100170 | 51.26 | ng | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 51.26% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 20896 | 25.39 | ng | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 50.78% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 92194 | 24.51 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 49.02% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 19886 | 45.67 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 45.67% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 60540 | 24.77 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 49.54% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.782 | 88 | 34505 | 47.7199 | ng | 69 |
| 9) Pyridine | 3.253 | 79 | 72242 | 48.9212 | ng | 82 |
| 10) N-Nitrosodimethylamine | 3.189 | 74 | 53045 | 50.9406 | ng | 86 |
| 12) Benzaldehyde | 5.532 | 77 | 73230 | 48.0168 | ng | 68 |
| 13) Aniline | 5.623 | 93 | 129092 | 44.1141 | ng | 68 |
| 14) Pentachloroethane | 5.665 | 117 | 30060 | 43.8152 | ng | 82 |
| 15) bis(2-Chloroethyl)ether | 5.676 | 93 | 85891 | 45.0185 | ng | 85 |
| 17) Phenol | 5.601 | 94 | 120769 | 47.6374 | ng | 83 |
| 18) 2-Chlorophenol | 5.724 | 128 | 93427 | 45.9060 | ng | 80 |
| 19) N-Decane | 5.762 | 57 | 105232 | 44.5052 | ng | 92 |
| 20) 1,3-Dichlorobenzene | 5.853 | 146 | 103141 | 44.6947 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 106540 | 46.7048 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 99838 | 46.5007 | ng | 99 |
| 24) Benzyl alcohol | 6.013 | 108 | 61637 | 49.3932 | ng | 65 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 145160 | 51.9754 | ng | 93 |
| 26) 2-Methylphenol | 6.104 | 108 | 85982 | 49.2327 | ng | 97 |
| 27) Acetophenone | 6.227 | 105 | 123304 | 46.6934 | ng | 76 |
| 28) Hexachloroethane | 6.312 | 117 | 37467 | 46.2521 | ng | 84 |
| 29) N-Nitroso-di-n-propyla... | 6.227 | 70 | 62251 | 50.1242 | ng | 80 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 88991 | 50.3906 | ng | 99 |
| 33) Nitrobenzene | 6.366 | 77 | 85316 | 45.6077 | ng | 73 |
| 34) Isophorone | 6.548 | 82 | 162663 | 46.2314 | ng | 82 |
| 35) 2-Nitrophenol | 6.612 | 139 | 49949 | 46.8615 | ng | 80 |
| 36) 2,4-Dimethylphenol | 6.633 | 107 | 83538 | 44.6101 | ng | 90 |
| 37) Benzoic Acid | 6.703 | 105 | 48338m | 47.5997 | ng | |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 102021 | 48.1417 | ng | 96 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 73099 | 46.5171 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 75583 | 43.9057 | ng | 98 |
| 41) Naphthalene | 6.922 | 128 | 279630 | 46.3233 | ng | 99 |
| 42) 4-Chloroaniline | 6.954 | 127 | 108586m | 48.2462 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 35344 | 37.7870 | ng | 97 |
| 44) Caprolactam | 7.238 | 113 | 29692 | 46.4685 | ng | 70 |
| 45) 4-Chloro-3-methylphenol | 7.323 | 107 | 74855 | 46.4454 | ng | 77 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 188731 | 46.2332 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 180153 | 46.2033 | ng | 96 |
| 48) Methylnaphthalenes (To... | 7.457 | 142 | 368287m | 93.2941 | ng | |
| 49) 1,1'-Biphenyl | 7.832 | 154 | 215114 | 40.8454 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 68689 | 42.5394 | ng | 95 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 28771 | 35.4522 | ng | 97 |
| 53) 2,4,6-Trichlorophenol | 7.682 | 196 | 47016m | 45.6012 | ng | |
| 54) 2,4,5-Trichlorophenol | 7.714 | 196 | 50605 | 42.4385 | ng | 98 |
| 56) 2-Chloronaphthalene | 7.858 | 162 | 163611 | 47.2536 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 134847 | 45.2805 | ng | 87 |
| 58) Dimethylnaphthalenes (... | 8.136 | 156 | 134847 | 45.2805 | ng | 87 |
| 59) Diphenyl Ether | 7.917 | 170 | 116676 | 45.6479 | ng | 73 |
| 60) 2-Nitroaniline | 7.933 | 65 | 55569 | 49.3031 | ng | 52 |
| 61) Coumarin | 8.120 | 146 | 65737 | 44.1717 | ng | 95 |
| 62) Acenaphthylene | 8.217 | 152 | 254800 | 46.8521 | ng | 99 |
| 63) Dimethylphthalate | 8.078 | 163 | 178066 | 45.5494 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.136 | 165 | 42115 | 48.2660 | ng | 58 |
| 65) Acenaphthene | 8.366 | 153 | 164495 | 48.4247 | ng | 99 |

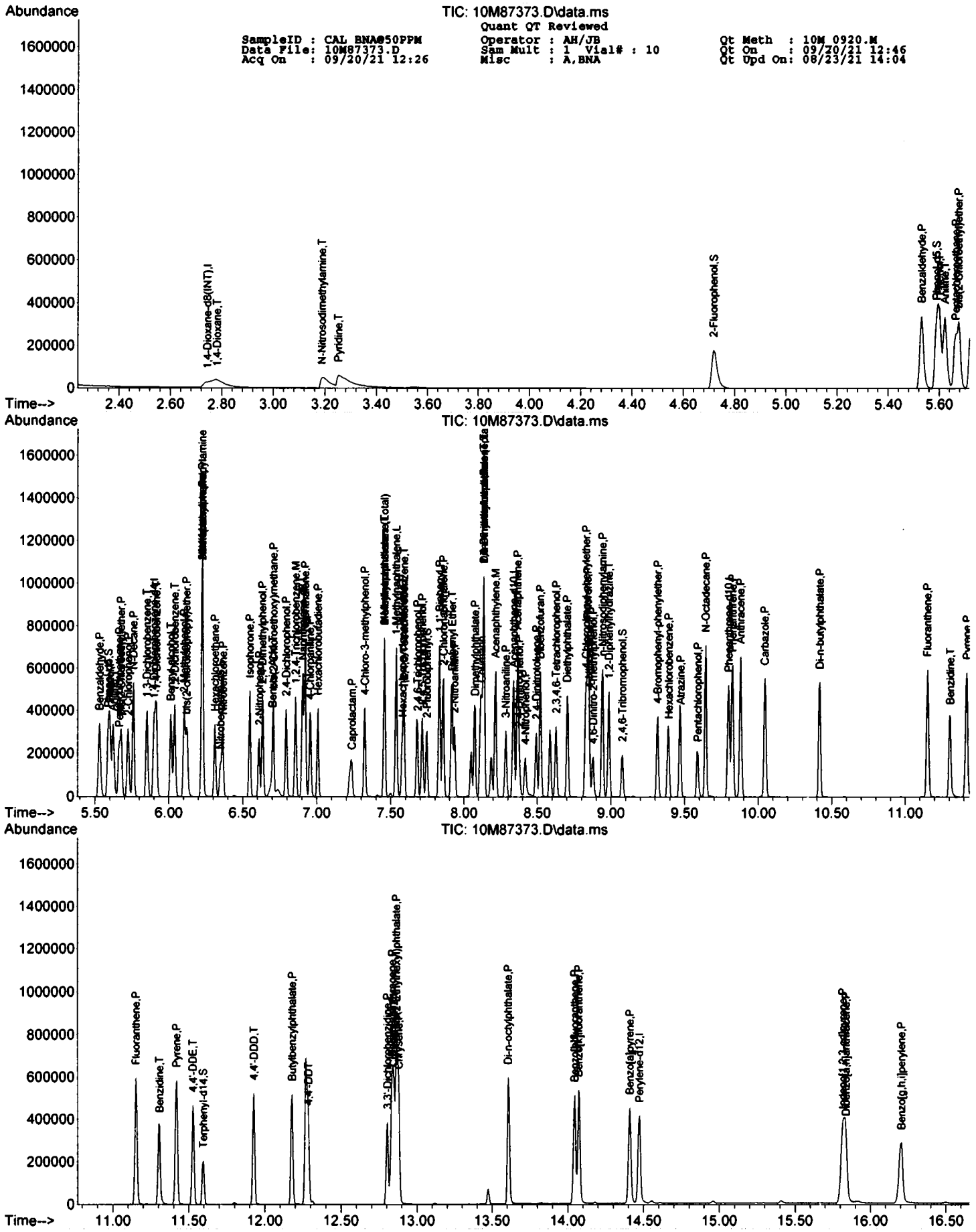
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87373.D Sam Mult : 1 Vial# : 10 Qt On : 09/20/21 12:46
Acq On : 09/20/21 12:26 Misc : A,BNA Qt Upd On: 08/23/21 14:04

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.286 | 138 | 50966 | 50.2630 | ng | 72 |
| 67) | 2,4-Dinitrophenol | 8.377 | 184 | 18935 | 37.9806 | ng | 48 |
| 68) | Dibenzofuran | 8.521 | 168 | 231692 | 45.5841 | ng | 85 |
| 69) | 2,4-Dinitrotoluene | 8.495 | 165 | 54854 | 46.1441 | ng | 59 |
| 70) | 4-Nitrophenol | 8.420 | 65 | 30146 | 43.6616 | ng | 93 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.628 | 232 | 38222 | 43.1898 | ng | 88 |
| 72) | Fluorene | 8.842 | 166 | 187925 | 46.4916 | ng | 99 |
| 73) | 4-Chlorophenyl-phenyle... | 8.832 | 204 | 79235 | 42.3670 | ng | 88 |
| 74) | Diethylphthalate | 8.703 | 149 | 176496 | 47.4440 | ng | 98 |
| 75) | 4-Nitroaniline | 8.853 | 138 | 54007 | 51.1452 | ng | 66 |
| 76) | Atrazine | 9.474 | 200 | 46937 | 42.9901 | ng | 99 |
| 78) | 4,6-Dinitro-2-methylph... | 8.880 | 198 | 27000 | 41.4598 | ng | 63 |
| 79) | n-Nitrosodiphenylamine | 8.944 | 169 | 160087 | 47.9766 | ng | 97 |
| 81) | 1,2-Diphenylhydrazine | 8.987 | 77 | 178701 | 50.7136 | ng | 78 |
| 82) | 4-Bromophenyl-phenylether | 9.318 | 248 | 42128 | 42.9123 | ng | 87 |
| 83) | Hexachlorobenzene | 9.393 | 284 | 43536 | 41.4638 | ng | 67 |
| 84) | N-Octadecane | 9.645 | 57 | 130518 | 51.4800 | ng | 91 |
| 85) | Pentachlorophenol | 9.591 | 266 | 24950 | 41.6647 | ng | 99 |
| 86) | Phenanthrene | 9.827 | 178 | 261130 | 47.0473 | ng | 98 |
| 87) | Anthracene | 9.880 | 178 | 270285 | 48.0162 | ng | 99 |
| 88) | Carbazole | 10.046 | 167 | 256382 | 48.5638 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.420 | 149 | 300751 | 50.7295 | ng | 96 |
| 90) | Fluoranthene | 11.153 | 202 | 261175 | 45.1521 | ng | 97 |
| 92) | Pyrene | 11.420 | 202 | 268287 | 50.1178 | ng | 91 |
| 93) | Benzidine | 11.308 | 184 | 170421 | 55.2879 | ng | 86 |
| 95) | 4,4'-DDE | 11.527 | 246 | 52100 | 49.8958 | ng | 93 |
| 96) | 4,4'-DDD | 11.929 | 235 | 91719 | 51.8610 | ng | 90 |
| 97) | Butylbenzylphthalate | 12.180 | 149 | 128312 | 55.6669 | ng | 69 |
| 98) | 4,4'-DDT | 12.287 | 235 | 79637 | 50.9083 | ng | 93 |
| 99) | 3,3'-Dichlorobenzidine | 12.806 | 252 | 84711 | 49.9787 | ng | 98 |
| 100) | Benzo[a]anthracene | 12.838 | 228 | 220797 | 47.5285 | ng | 98 |
| 101) | Chrysene | 12.881 | 228 | 221762 | 47.2830 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.865 | 149 | 179970 | 54.8496 | ng | 92 |
| 104) | Di-n-octylphthalate | 13.608 | 149 | 300709 | 57.6389 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 14.047 | 252 | 214407 | 49.0584 | ng | 97 |
| 106) | Benzo[k]fluoranthene | 14.073 | 252 | 201958m | 45.1977 | ng | |
| 107) | Benzo[a]pyrene | 14.410 | 252 | 196492 | 46.3311 | ng | 95 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.817 | 276 | 215898 | 46.9240 | ng | 83 |
| 109) | Dibenzo[a,h]anthracene | 15.838 | 278 | 185598 | 46.4842 | ng | 97 |
| 110) | Benzo[g,h,i]perylene | 16.207 | 276 | 182370 | 46.2440 | ng | 88 |

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


Abundance
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Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 10M87373.D
Acq On : 09/20/21 12:26
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 12:46
Qt Upd On: 08/23/21 14:04
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->
Abundance
TIC: 10M87373.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Acenaphthylene,M
3-Nitroaniline,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 10M87373.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Chrysene,P
Bis(2-ethylhexyl)phthalate,P
Di-n-octylphthalate,P
Benzo(b)fluoranthene,P
Benzo(k)fluoranthene,P
Benzo(a)pyrene,P
Perylene-d12,I
Indeno(1,2,3-cd)pyrene,P
Dibenz(a,h)anthracene,P
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87366.D  Sam Mult : 1 Vial# : 3  Qt On : 09/20/21 10:10
Acq On : 09/20/21 09:51  Misc : A,BNA  Qt Upd On: 08/23/21 14:04

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.740 | 96 | 30503 | 40.00 | ng | -0.03 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 60688 | 40.00 | ng | -0.02 |
| 31) Naphthalene-d8 | 6.901 | 136 | 251923 | 40.00 | ng | -0.02 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 125158 | 40.00 | ng | -0.02 |
| 77) Phenanthrene-d10 | 9.794 | 188 | 222724 | 40.00 | ng | -0.03 |
| 91) Chrysene-d12 | 12.843 | 240 | 168784 | 40.00 | ng | -0.03 |
| 103) Perylene-d12 | 14.469 | 264 | 179111 | 40.00 | ng | -0.03 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 2976m | 1.73 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 1.73% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 3561 | 1.79 | ng | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 1.79% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 715 | 0.83 | ng | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 1.66% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 3958 | 0.99 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 1.98% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 519 | 1.11 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 1.11% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 2234 | 0.85 | ng | -0.03 |
| Spiked Amount 50.000 | | | Recovery = 1.70% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.788 | 88 | 1659 | 2.2590 | ng | 74 |
| 9) Pyridine | 3.360 | 79 | 1398 | 0.9321 | ng | 78 |
| 10) N-Nitrosodimethylamine | 3.237 | 74 | 1695 | 1.6027 | ng | 82 |
| 12) Benzaldehyde | 5.532 | 77 | 2857 | 1.8445 | ng | 70 |
| 13) Aniline | 5.622 | 93 | 4794 | 1.6130 | ng | 68 |
| 14) Pentachloroethane | 5.660 | 117 | 1186 | 1.7021 | ng | 87 |
| 15) bis(2-Chloroethyl)ether | 5.676 | 93 | 3763 | 1.9419 | ng | 76 |
| 17) Phenol | 5.601 | 94 | 4493 | 1.7450 | ng | 92 |
| 18) 2-Chlorophenol | 5.724 | 128 | 3387 | 1.6386 | ng | 80 |
| 19) N-Decane | 5.756 | 57 | 4472 | 1.8622 | ng | 94 |
| 20) 1,3-Dichlorobenzene | 5.852 | 146 | 4335 | 1.8496 | ng | 93 |
| 22) 1,4-Dichlorobenzene | 5.911 | 146 | 4257 | 1.8335 | ng | 94 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 4264 | 1.9512 | ng | 96 |
| 24) Benzyl alcohol | 6.013 | 108 | 1764 | 1.3888 | ng | 72 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 6224 | 2.1895 | ng | 96 |
| 26) 2-Methylphenol | 6.104 | 108 | 3149 | 1.7715 | ng | 94 |
| 27) Acetophenone | 6.227 | 105 | 4854 | 1.8059 | ng | 67 |
| 28) Hexachloroethane | 6.312 | 117 | 1508 | 1.8290 | ng | 80 |
| 29) N-Nitroso-di-n-propyla... | 6.222 | 70 | 2258 | 1.7863 | ng | 84 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 3290 | 1.8303 | ng | 95 |
| 33) Nitrobenzene | 6.361 | 77 | 3400 | 1.7346 | ng | 79 |
| 34) Isophorone | 6.548 | 82 | 6059 | 1.6435 | ng | 81 |
| 35) 2-Nitrophenol | 6.612 | 139 | 1514 | 1.3556 | ng | 84 |
| 36) 2,4-Dimethylphenol | 6.633 | 107 | 3094 | 1.5769 | ng | 93 |
| 37) Benzoic Acid | 0.000 | | 0 | N.D. | | |
| 38) bis(2-Chloroethoxy)met... | 6.703 | 93 | 4155 | 1.8712 | ng | 96 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 2444 | 1.4843 | ng | 85 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 3223 | 1.7868 | ng | 96 |
| 41) Naphthalene | 6.917 | 128 | 11562 | 1.8280 | ng | 97 |
| 42) 4-Chloroaniline | 6.960 | 127 | 4166 | 1.7666 | ng | 95 |
| 43) Hexachlorobutadiene | 7.008 | 225 | 1559 | 1.5907 | ng | 87 |
| 44) Caprolactam | 7.206 | 113 | 671 | 1.0016 | ng | 70 |
| 45) 4-Chloro-3-methylphenol | 7.318 | 107 | 2542 | 1.5053 | ng | 93 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 7821 | 1.8285 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 7401 | 1.8115 | ng | 96 |
| 48) Methylnaphthalenes (To... | 7.457 | 142 | 15222m | 3.6801 | ng | |
| 49) 1,1'-Biphenyl | 7.826 | 154 | 8688 | 1.5744 | ng | 95 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 2812 | 1.6391 | ng | 93 |
| 52) Hexachlorocyclopentadiene | 7.575 | 237 | 516 | 0.6169 | ng | 93 |
| 53) 2,4,6-Trichlorophenol | 7.676 | 196 | 1443 | 1.3173 | ng | 92 |
| 54) 2,4,5-Trichlorophenol | 7.714 | 196 | 1499 | 1.1832 | ng | 95 |
| 56) 2-Chloronaphthalene | 7.853 | 162 | 6810 | 1.8512 | ng | 90 |
| 57) 1,4-Dimethylnaphthalene | 8.131 | 156 | 5615 | 1.7746 | ng | 88 |
| 58) Dimethylnaphthalenes (... | 8.131 | 156 | 5615 | 1.7746 | ng | 88 |
| 59) Diphenyl Ether | 7.912 | 170 | 4856 | 1.7881 | ng | 78 |
| 60) 2-Nitroaniline | 7.933 | 65 | 1764 | 1.4730 | ng | 65 |
| 61) Coumarin | 8.115 | 146 | 2296 | 1.4521 | ng | 81 |
| 62) Acenaphthylene | 8.211 | 152 | 9636 | 1.6676 | ng | 99 |
| 63) Dimethylphthalate | 8.067 | 163 | 7067 | 1.7014 | ng | 90 |
| 64) 2,6-Dinitrotoluene | 8.131 | 165 | 1367 | 1.4745 | ng | 65 |
| 65) Acenaphthene | 8.361 | 153 | 7025 | 1.9464 | ng | 94 |

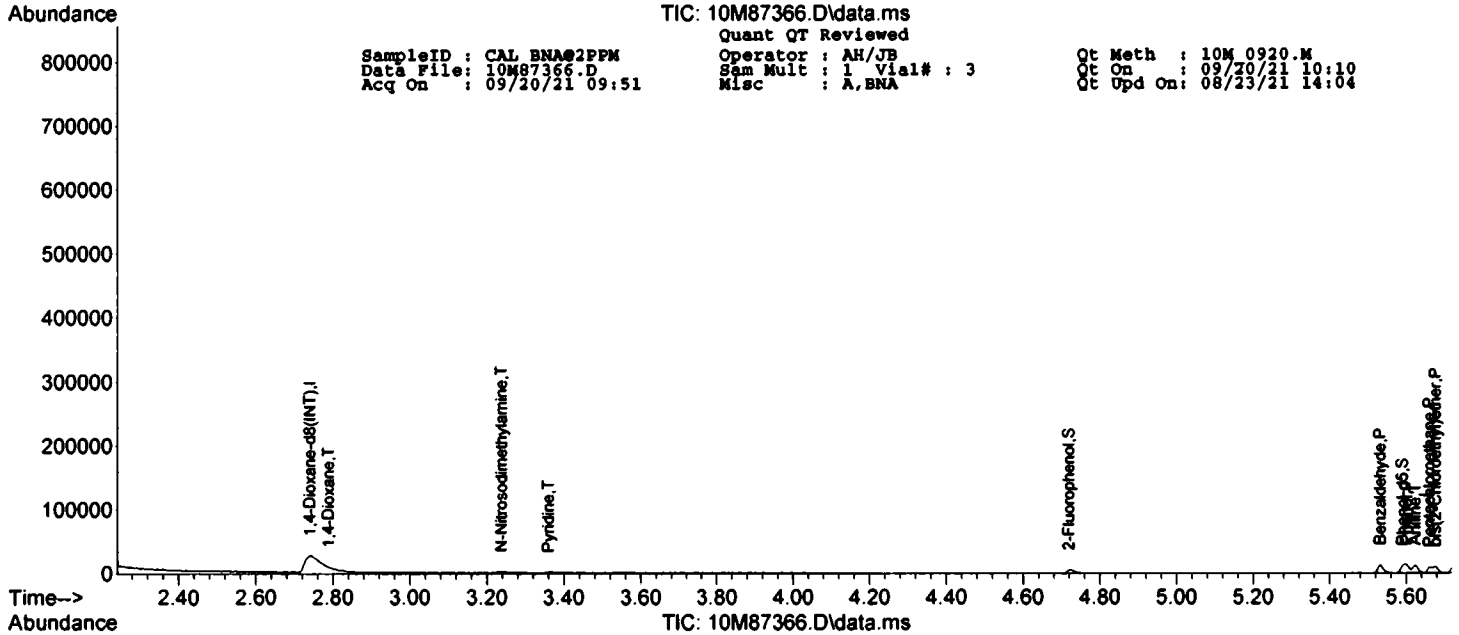
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87366.D Sam Mult : 1 Vial# : 3 Qt On : 09/20/21 10:10
Acq On : 09/20/21 09:51 Misc : A,BNA Qt Upd On: 08/23/21 14:04

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.286 | 138 | 1598 | 1.4833 | ng | 73 |
| 67) | 2,4-Dinitrophenol | 0.000 | | 0 | N.D. | | |
| 68) | Dibenzofuran | 8.516 | 168 | 10038 | 1.8588 | ng | 88 |
| 69) | 2,4-Dinitrotoluene | 8.489 | 165 | 1563 | 1.2375 | ng | 76 |
| 70) | 4-Nitrophenol | 8.340 | 65 | 770 | 1.0673 | ng | 55 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.628 | 232 | 1125 | 1.1965 | ng | 84 |
| 72) | Fluorene | 8.842 | 166 | 7577 | 1.7643 | ng | 99 |
| 73) | 4-Chlorophenyl-phenyle... | 8.826 | 204 | 3339 | 1.6804 | ng | 93 |
| 74) | Diethylphthalate | 8.698 | 149 | 6759 | 1.7100 | ng | 99 |
| 75) | 4-Nitroaniline | 8.848 | 138 | 1478 | 1.3174 | ng | 71 |
| 76) | Atrazine | 9.463 | 200 | 1487 | 1.2819 | ng | 94 |
| 78) | 4,6-Dinitro-2-methylph... | 0.000 | | 0 | N.D. | | |
| 79) | n-Nitrosodiphenylamine | 8.939 | 169 | 6144 | 1.7078 | ng | 97 |
| 81) | 1,2-Diphenylhydrazine | 8.981 | 77 | 6752 | 1.7772 | ng | 86 |
| 82) | 4-Bromophenyl-phenylether | 9.318 | 248 | 1627 | 1.5371 | ng | 85 |
| 83) | Hexachlorobenzene | 9.388 | 284 | 1812 | 1.6006 | ng | 73 |
| 84) | N-Octadecane | 9.639 | 57 | 4674 | 1.7099 | ng | 92 |
| 85) | Pentachlorophenol | 0.000 | | 0 | N.D. d | | |
| 86) | Phenanthrene | 9.821 | 178 | 11262 | 1.8819 | ng | 96 |
| 87) | Anthracene | 9.875 | 178 | 10606 | 1.7475 | ng | 98 |
| 88) | Carbazole | 10.046 | 167 | 9837 | 1.7282 | ng | 96 |
| 89) | Di-n-butylphthalate | 10.415 | 149 | 9962 | 1.5585 | ng | 97 |
| 90) | Fluoranthene | 11.153 | 202 | 10047 | 1.6110 | ng | 91 |
| 92) | Pyrene | 11.415 | 202 | 10580 | 1.8391 | ng | 95 |
| 93) | Benzidine | 11.303 | 184 | 4512 | 1.3621 | ng | 87 |
| 95) | 4,4'-DDE | 11.527 | 246 | 2062 | 1.8375 | ng | 93 |
| 96) | 4,4'-DDD | 11.923 | 235 | 3138 | 1.6510 | ng | 92 |
| 97) | Butylbenzylphthalate | 12.175 | 149 | 3683 | 1.4868 | ng | 75 |
| 98) | 4,4'-DDT | 12.282 | 235 | 2745 | 1.6328 | ng | 94 |
| 99) | 3,3'-Dichlorobenzidine | 12.806 | 252 | 2653 | 1.4565 | ng | 94 |
| 100) | Benzo[a]anthracene | 12.832 | 228 | 9263 | 1.8554 | ng | 98 |
| 101) | Chrysene | 12.870 | 228 | 9229 | 1.8310 | ng | 97 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.865 | 149 | 5450 | 1.5456 | ng | 90 |
| 104) | Di-n-octylphthalate | 13.608 | 149 | 8514 | 1.5157 | ng | 97 |
| 105) | Benzo[b]fluoranthene | 14.041 | 252 | 8192 | 1.7409 | ng | 98 |
| 106) | Benzo[k]fluoranthene | 14.068 | 252 | 8072m | 1.6778 | ng | |
| 107) | Benzo[a]pyrene | 14.405 | 252 | 7037 | 1.5411 | ng | 98 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.817 | 276 | 8074 | 1.6298 | ng | 83 |
| 109) | Dibenzo[a,h]anthracene | 15.833 | 278 | 6827 | 1.5881 | ng | 95 |
| 110) | Benzo[g,h,i]perylene | 16.202 | 276 | 6810 | 1.6038 | ng | 91 |

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


Abundance
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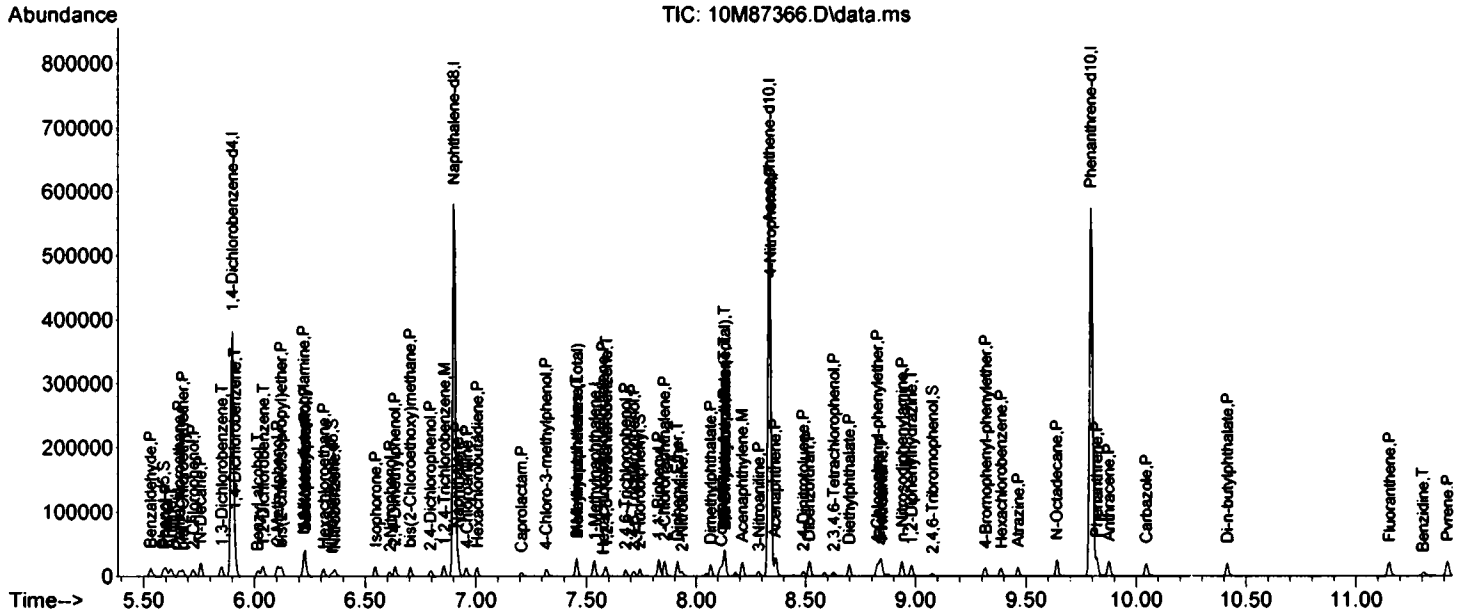
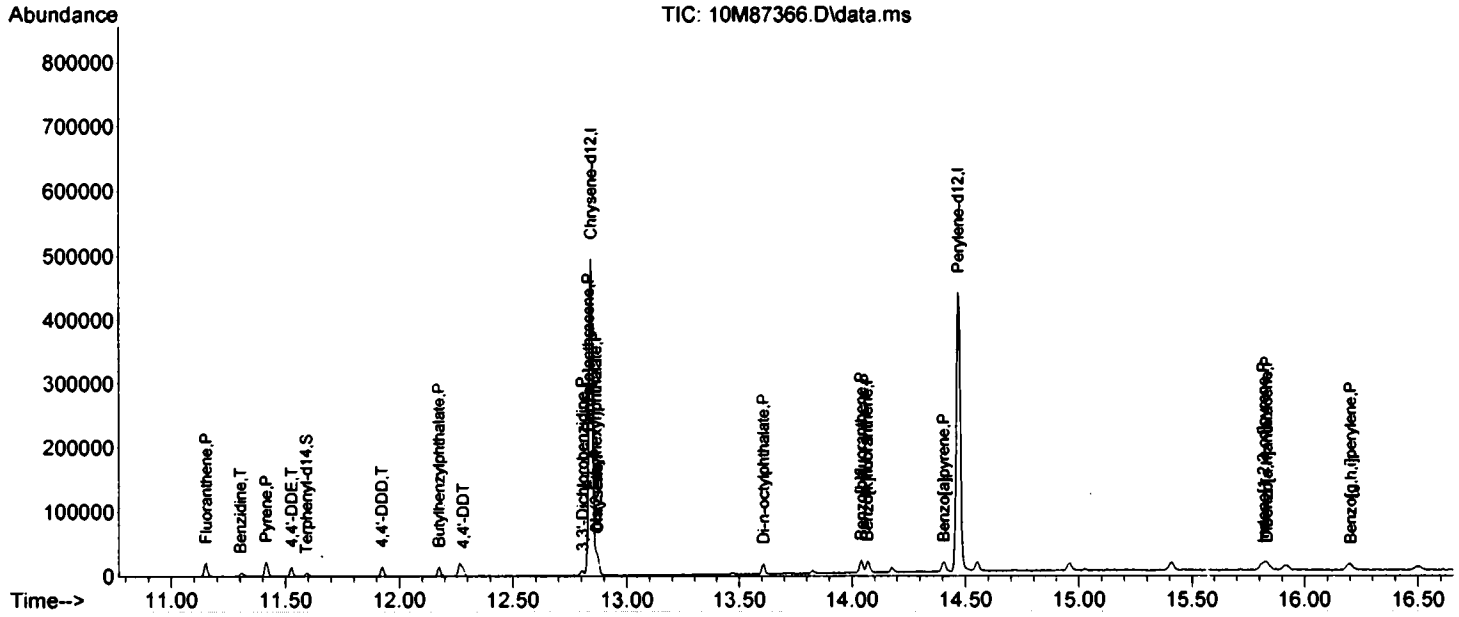
Quant QT Reviewed
SampleID : CAL BNA@2PPM
Data File: 10M87366.D
Acq On : 09/20/21 09:51
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 10:10
Qt Upd On: 08/23/21 14:04
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->


Abundance
TIC: 10M87366.D\data.ms
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Phenanthrene-d10,I
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthrene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M87366.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Chrysene-d12,I
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87365.D  Sam Mult : 1  Vial# : 2  Qt On : 09/20/21 10:03
Acq On : 09/20/21 09:29  Misc : A,BNA  Qt Upd On: 08/23/21 14:04

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.740 | 96 | 25850 | 40.00 | ng | -0.03 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 51290 | 40.00 | ng | -0.02 |
| 31) Naphthalene-d8 | 6.901 | 136 | 207693 | 40.00 | ng | -0.02 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 101517 | 40.00 | ng | -0.02 |
| 77) Phenanthrene-d10 | 9.794 | 188 | 181565 | 40.00 | ng | -0.03 |
| 91) Chrysene-d12 | 12.843 | 240 | 137268 | 40.00 | ng | -0.03 |
| 103) Perylene-d12 | 14.469 | 264 | 144481 | 40.00 | ng | -0.03 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 12242 | 8.41 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 8.41% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 15410 | 9.16 | ng | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 9.16% | | | |
| 32) Nitrobenzene-d5 | 6.345 | 128 | 3142 | 4.42 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 8.84% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 14928 | 4.61 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 9.22% | | | |
| 80) 2,4,6-Tribromophenol | 9.072 | 330 | 2675 | 6.99 | ng | -0.03 |
| Spiked Amount 100.000 | | | Recovery = 6.99% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 9481 | 4.44 | ng | -0.03 |
| Spiked Amount 50.000 | | | Recovery = 8.88% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.777 | 88 | 5691 | 9.1442 | ng | 91 |
| 9) Pyridine | 3.301 | 79 | 9465 | 7.4467 | ng | 97 |
| 10) N-Nitrosodimethylamine | 3.210 | 74 | 7622 | 8.5041 | ng | 91 |
| 12) Benzaldehyde | 5.532 | 77 | 11057 | 8.4232 | ng | 64 |
| 13) Aniline | 5.622 | 93 | 20344 | 8.0771 | ng | 68 |
| 14) Pentachloroethane | 5.660 | 117 | 4774 | 8.0846 | ng | 83 |
| 15) bis(2-Chloroethyl)ether | 5.676 | 93 | 14408 | 8.7738 | ng | 80 |
| 17) Phenol | 5.601 | 94 | 18589 | 8.5190 | ng | 84 |
| 18) 2-Chlorophenol | 5.724 | 128 | 14583 | 8.3250 | ng | 81 |
| 19) N-Decane | 5.756 | 57 | 17315 | 8.5079 | ng | 93 |
| 20) 1,3-Dichlorobenzene | 5.852 | 146 | 16805 | 8.4606 | ng | 95 |
| 22) 1,4-Dichlorobenzene | 5.911 | 146 | 17222 | 8.7766 | ng | 99 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 16292 | 8.8213 | ng | 96 |
| 24) Benzyl alcohol | 6.013 | 108 | 8967 | 8.3535 | ng | 68 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 24089 | 10.0269 | ng | 90 |
| 26) 2-Methylphenol | 6.104 | 108 | 13478 | 8.9715 | ng | 100 |
| 27) Acetophenone | 6.227 | 105 | 20131 | 8.8622 | ng | 72 |
| 28) Hexachloroethane | 6.312 | 117 | 6173 | 8.8588 | ng | 82 |
| 29) N-Nitroso-di-n-propyla... | 6.222 | 70 | 9513 | 8.9046 | ng | 82 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 13572 | 8.9339 | ng | 100 |
| 33) Nitrobenzene | 6.361 | 77 | 13824 | 8.5548 | ng | 77 |
| 34) Isophorone | 6.548 | 82 | 24667 | 8.1159 | ng | 76 |
| 35) 2-Nitrophenol | 6.612 | 139 | 7291 | 7.9186 | ng | 79 |
| 36) 2,4-Dimethylphenol | 6.633 | 107 | 12800 | 7.9128 | ng | 87 |
| 37) Benzoic Acid | 6.682 | 105 | 3240 | 4.1824 | ng | 95 |
| 38) bis(2-Chloroethoxy)met... | 6.703 | 93 | 16608 | 9.0723 | ng | 97 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 11187 | 8.2411 | ng | 85 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 12159 | 8.1765 | ng | 98 |
| 41) Naphthalene | 6.922 | 128 | 45388 | 8.7042 | ng | 99 |
| 42) 4-Chloroaniline | 6.954 | 127 | 16704m | 8.5917 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 5741 | 7.1053 | ng | 94 |
| 44) Caprolactam | 7.211 | 113 | 3806 | 6.8916 | ng | 73 |
| 45) 4-Chloro-3-methylphenol | 7.318 | 107 | 11492 | 8.2544 | ng | 76 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 30976 | 8.7843 | ng | 100 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 29217 | 8.6744 | ng | 96 |
| 48) Methylnaphthalenes (To... | 7.457 | 142 | 60082m | 17.6191 | ng | |
| 49) 1,1'-Biphenyl | 7.826 | 154 | 35034 | 7.7008 | ng | 93 |
| 51) 1,2,4,5-Tetrachloroben... | 7.585 | 216 | 11146 | 8.0097 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.575 | 237 | 3464 | 5.0856 | ng | 96 |
| 53) 2,4,6-Trichlorophenol | 7.676 | 196 | 6738m | 7.5833 | ng | |
| 54) 2,4,5-Trichlorophenol | 7.714 | 196 | 7638m | 7.4326 | ng | |
| 56) 2-Chloronaphthalene | 7.853 | 162 | 26459 | 8.8673 | ng | 89 |
| 57) 1,4-Dimethylnaphthalene | 8.131 | 156 | 21422 | 8.3469 | ng | 90 |
| 58) Dimethylnaphthalenes (... | 8.131 | 156 | 21422 | 8.3469 | ng | 90 |
| 59) Diphenyl Ether | 7.912 | 170 | 18905 | 8.5825 | ng | 76 |
| 60) 2-Nitroaniline | 7.928 | 65 | 8203 | 8.4452 | ng | 56 |
| 61) Coumarin | 8.115 | 146 | 10407 | 8.1144 | ng | 95 |
| 62) Acenaphthylene | 8.211 | 152 | 40911 | 8.7290 | ng | 100 |
| 63) Dimethylphthalate | 8.067 | 163 | 28501 | 8.4598 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.131 | 165 | 6418 | 8.5349 | ng | 60 |
| 65) Acenaphthene | 8.361 | 153 | 27367 | 9.3484 | ng | 97 |

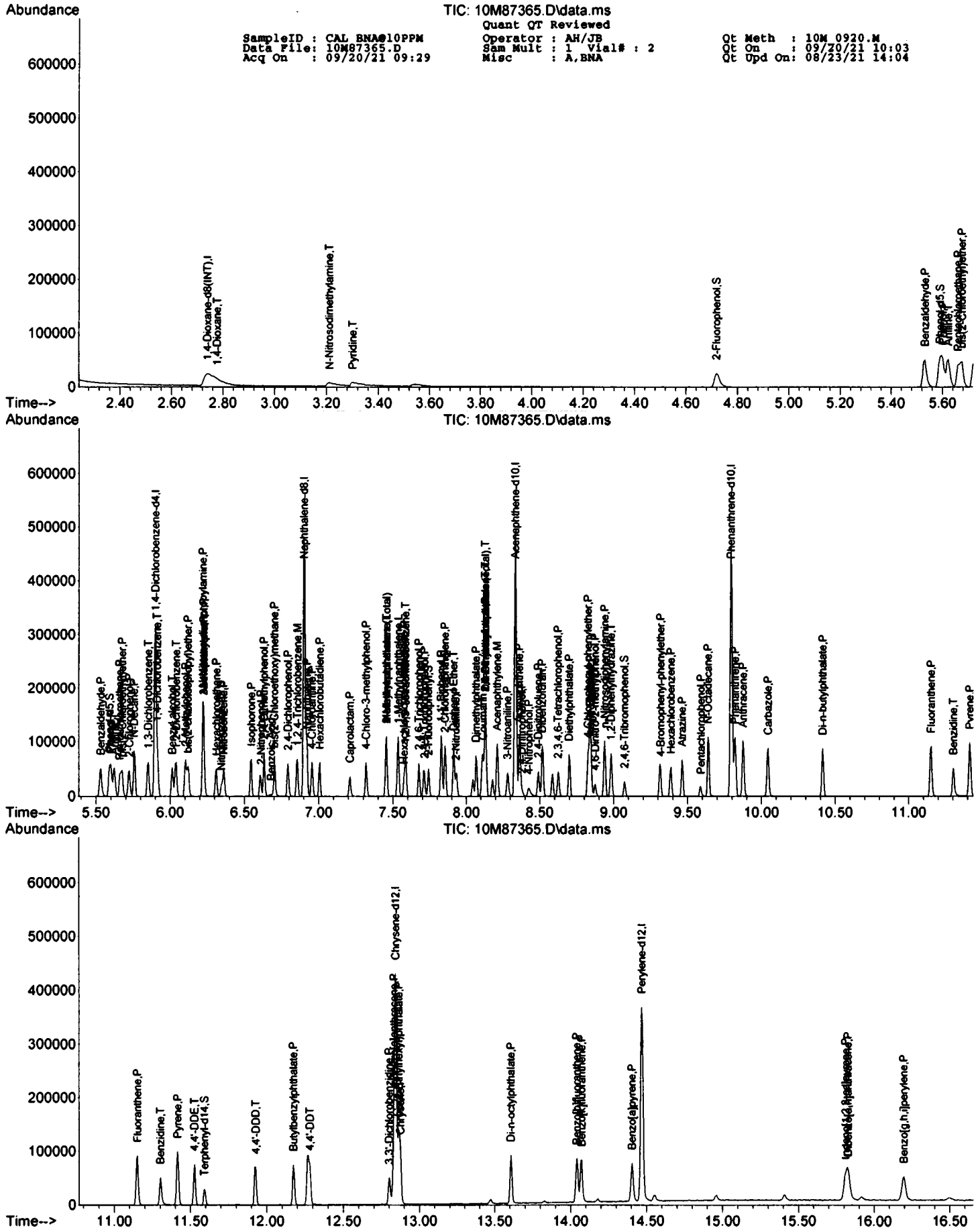
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87365.D Sam Mult : 1 Vial# : 2 Qt On : 09/20/21 10:03
Acq On : 09/20/21 09:29 Misc : A,BNA Qt Upd On: 08/23/21 14:04

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.281 | 138 | 7571 | 8.6640 | ng | 71 |
| 67) | 2,4-Dinitrophenol | 8.377 | 184 | 1705 | 4.1172 | ng | 21 |
| 68) | Dibenzofuran | 8.516 | 168 | 38067 | 8.6905 | ng | 86 |
| 69) | 2,4-Dinitrotoluene | 8.489 | 165 | 8249 | 8.0520 | ng | 60 |
| 70) | 4-Nitrophenol | 8.425 | 65 | 3843 | 6.5530 | ng | 99 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.623 | 232 | 5555 | 7.2836 | ng | 87 |
| 72) | Fluorene | 8.842 | 166 | 30809 | 8.8443 | ng | 97 |
| 73) | 4-Chlorophenyl-phenyle... | 8.826 | 204 | 13087 | 8.1198 | ng | 91 |
| 74) | Diethylphthalate | 8.698 | 149 | 27725 | 8.6479 | ng | 98 |
| 75) | 4-Nitroaniline | 8.848 | 138 | 7590 | 8.3405 | ng | 67 |
| 76) | Atrazine | 9.463 | 200 | 7049 | 7.4916 | ng | 97 |
| 78) | 4,6-Dinitro-2-methylph... | 8.874 | 198 | 3123 | 5.4560 | ng | 72 |
| 79) | n-Nitrosodiphenylamine | 8.939 | 169 | 26019 | 8.8717 | ng | 94 |
| 81) | 1,2-Diphenylhydrazine | 8.981 | 77 | 28334 | 9.1484 | ng | 79 |
| 82) | 4-Bromophenyl-phenylether | 9.318 | 248 | 6450 | 7.4750 | ng | 86 |
| 83) | Hexachlorobenzene | 9.388 | 284 | 6902 | 7.4789 | ng | 71 |
| 84) | N-Octadecane | 9.639 | 57 | 20176 | 9.0541 | ng | 90 |
| 85) | Pentachlorophenol | 9.591 | 266 | 2579 | 5.1056 | ng | 94 |
| 86) | Phenanthrene | 9.821 | 178 | 43021 | 8.8186 | ng | 99 |
| 87) | Anthracene | 9.875 | 178 | 42536 | 8.5973 | ng | 98 |
| 88) | Carbazole | 10.046 | 167 | 40828 | 8.7988 | ng | 95 |
| 89) | Di-n-butylphthalate | 10.415 | 149 | 43929 | 8.4304 | ng | 97 |
| 90) | Fluoranthene | 11.153 | 202 | 41349 | 8.1330 | ng | 93 |
| 92) | Pyrene | 11.415 | 202 | 43298 | 9.2543 | ng | 94 |
| 93) | Benzidine | 11.303 | 184 | 23807 | 8.8368 | ng | 88 |
| 95) | 4,4'-DDE | 11.527 | 246 | 8214 | 9.0005 | ng | 89 |
| 96) | 4,4'-DDD | 11.929 | 235 | 13918 | 9.0042 | ng | 91 |
| 97) | Butylbenzylphthalate | 12.175 | 149 | 17909 | 8.8897 | ng | 72 |
| 98) | 4,4'-DDT | 12.282 | 235 | 12332 | 9.0197 | ng | 90 |
| 99) | 3,3'-Dichlorobenzidine | 12.800 | 252 | 12564 | 8.4812 | ng | 98 |
| 100) | Benzo[a]anthracene | 12.832 | 228 | 35789 | 8.8145 | ng | 99 |
| 101) | Chrysene | 12.875 | 228 | 35951 | 8.7703 | ng | 97 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.865 | 149 | 25821 | 9.0039 | ng | 89 |
| 104) | Di-n-octylphthalate | 13.608 | 149 | 42226 | 9.3190 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.041 | 252 | 33219 | 8.7515 | ng | 99 |
| 106) | Benzo[k]fluoranthene | 14.073 | 252 | 33376m | 8.6003 | ng | |
| 107) | Benzo[a]pyrene | 14.405 | 252 | 29965 | 8.1351 | ng | 98 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.812 | 276 | 32925 | 8.2394 | ng | 97 |
| 109) | Dibenzo[a,h]anthracene | 15.828 | 278 | 28266 | 8.1511 | ng | 96 |
| 110) | Benzo[g,h,i]perylene | 16.197 | 276 | 28548 | 8.3349 | ng | 88 |

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


Abundance
TIC: 10M87365.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 10M87365.D
Acq On : 09/20/21 09:29
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 10:03
Qt Upd On: 08/23/21 14:04
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->
Abundance
TIC: 10M87365.D\data.ms
Nephthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Caprolactam,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 10M87365.D\data.ms
Chrysene-d12,I
Perylene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87371.D  Sam Mult : 1  Vial# : 8  Qt On : 09/20/21 12:24
Acq On : 09/20/21 11:42  Misc : A,BNA  Qt Upd On: 08/23/21 14:04

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 28268 | 40.00 | ng | -0.02 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 56475 | 40.00 | ng | -0.02 |
| 31) Naphthalene-d8 | 6.906 | 136 | 232209 | 40.00 | ng | -0.01 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 112392 | 40.00 | ng | -0.02 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 198015 | 40.00 | ng | -0.02 |
| 91) Chrysene-d12 | 12.843 | 240 | 152298 | 40.00 | ng | -0.03 |
| 103) Perylene-d12 | 14.469 | 264 | 158615 | 40.00 | ng | -0.03 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 31605 | 19.86 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 19.86% | | | |
| 16) Phenol-d5 | 5.591 | 99 | 40286 | 21.90 | ng | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 21.90% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 8347 | 10.50 | ng | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 21.00% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 37890 | 10.56 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 21.12% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 7482 | 17.93 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 17.93% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 24769 | 10.45 | ng | -0.03 |
| Spiked Amount 50.000 | | | Recovery = 20.90% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.783 | 88 | 13846 | 20.3444 | ng | 92 |
| 9) Pyridine | 3.275 | 79 | 27311 | 19.6494 | ng | 83 |
| 10) N-Nitrosodimethylamine | 3.200 | 74 | 20513 | 20.9292 | ng | 83 |
| 12) Benzaldehyde | 5.532 | 77 | 28675 | 19.9761 | ng | 66 |
| 13) Aniline | 5.623 | 93 | 51324 | 18.6339 | ng | 70 |
| 14) Pentachloroethane | 5.665 | 117 | 11874 | 18.3881 | ng | 82 |
| 15) bis(2-Chloroethyl)ether | 5.676 | 93 | 35995 | 20.0442 | ng | 82 |
| 17) Phenol | 5.601 | 94 | 47323 | 19.8321 | ng | 84 |
| 18) 2-Chlorophenol | 5.724 | 128 | 36557 | 19.0841 | ng | 79 |
| 19) N-Decane | 5.762 | 57 | 41796 | 18.7802 | ng | 90 |
| 20) 1,3-Dichlorobenzene | 5.853 | 146 | 41157 | 18.9484 | ng | 97 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 41709 | 19.3042 | ng | 98 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 39546 | 19.4464 | ng | 98 |
| 24) Benzyl alcohol | 6.013 | 108 | 23714 | 20.0633 | ng | 67 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 58544 | 22.1312 | ng | 95 |
| 26) 2-Methylphenol | 6.104 | 108 | 33989 | 20.5474 | ng | 94 |
| 27) Acetophenone | 6.227 | 105 | 50208 | 20.0735 | ng | 72 |
| 28) Hexachloroethane | 6.313 | 117 | 14981 | 19.5252 | ng | 86 |
| 29) N-Nitroso-di-n-propyla... | 6.222 | 70 | 24736 | 21.0282 | ng | 81 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 35893 | 21.4578 | ng | 99 |
| 33) Nitrobenzene | 6.361 | 77 | 35453 | 19.6234 | ng | 78 |
| 34) Isophorone | 6.548 | 82 | 65545 | 19.2886 | ng | 79 |
| 35) 2-Nitrophenol | 6.612 | 139 | 19560 | 19.0008 | ng | 80 |
| 36) 2,4-Dimethylphenol | 6.634 | 107 | 33343 | 18.4360 | ng | 88 |
| 37) Benzoic Acid | 6.682 | 105 | 15626 | 17.3452 | ng | 86 |
| 38) bis(2-Chloroethoxy)met... | 6.703 | 93 | 41329 | 20.1930 | ng | 97 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 28804 | 18.9787 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 30681 | 18.4535 | ng | 98 |
| 41) Naphthalene | 6.922 | 128 | 113011 | 19.3843 | ng | 99 |
| 42) 4-Chloroaniline | 6.954 | 127 | 43415m | 19.9730 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 14434 | 15.9782 | ng | 97 |
| 44) Caprolactam | 7.222 | 113 | 11564 | 18.7315 | ng | 72 |
| 45) 4-Chloro-3-methylphenol | 7.324 | 107 | 30088 | 19.3298 | ng | 74 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 77664 | 19.6990 | ng | 97 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 72701 | 19.3057 | ng | 95 |
| 48) Methylnaphthalenes (To... | 7.457 | 142 | 149567m | 39.2299 | ng | |
| 49) 1,1'-Biphenyl | 7.832 | 154 | 87213 | 17.1462 | ng | 93 |
| 51) 1,2,4,5-Tetrachloroben... | 7.586 | 216 | 28084 | 18.2290 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.575 | 237 | 10469 | 13.7769 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.677 | 196 | 18828 | 19.1396 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.714 | 196 | 20035 | 17.6098 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.853 | 162 | 66296 | 20.0682 | ng | 93 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 54553 | 19.1994 | ng | 88 |
| 58) Dimethylnaphthalenes (... | 8.136 | 156 | 54553 | 19.1994 | ng | 88 |
| 59) Diphenyl Ether | 7.912 | 170 | 47555 | 19.5000 | ng | 77 |
| 60) 2-Nitroaniline | 7.933 | 65 | 21967 | 20.4273 | ng | 42 |
| 61) Coumarin | 8.115 | 146 | 26640 | 18.7615 | ng | 98 |
| 62) Acenaphthylene | 8.211 | 152 | 103123 | 19.8740 | ng | 100 |
| 63) Dimethylphthalate | 8.072 | 163 | 72190 | 19.3543 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.131 | 165 | 17073 | 20.5075 | ng | 63 |
| 65) Acenaphthene | 8.366 | 153 | 67261 | 20.7528 | ng | 96 |

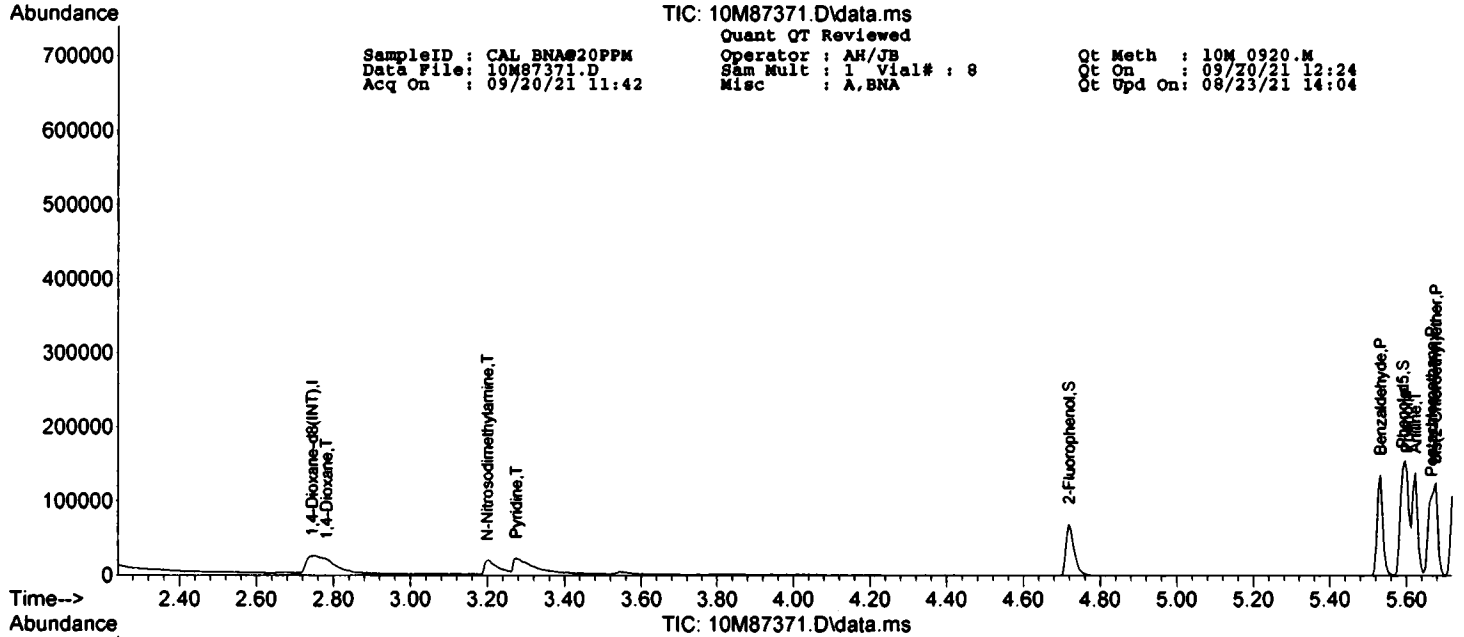
Quantitation Report (QT Reviewed)

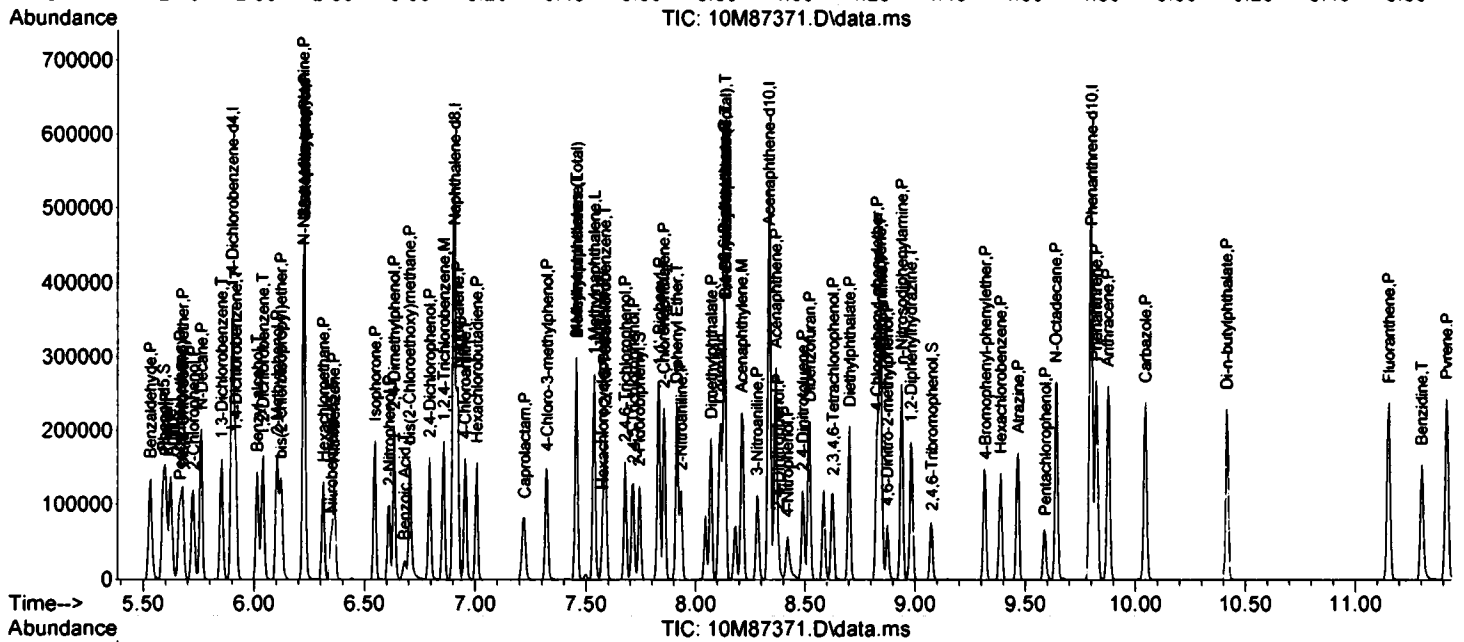
SampleID : CAL BNA@20PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87371.D  Sam Mult : 1 Vial# : 8  Qt On : 09/20/21 12:24
Acq On : 09/20/21 11:42  Misc : A,BNA  Qt Upd On: 08/23/21 14:04

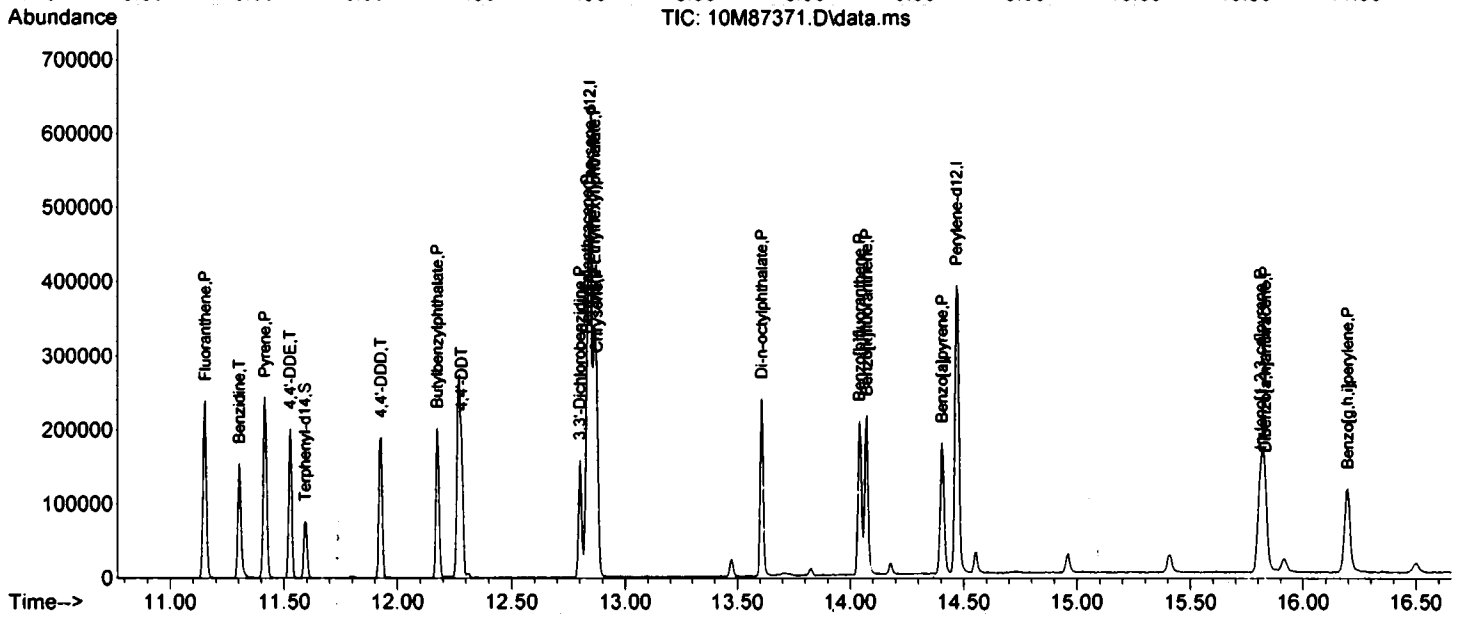
Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.281 | 138 | 20222 | 20.9021 | ng | 69 |
| 67) | 2,4-Dinitrophenol | 8.377 | 184 | 5897 | 12.7404 | ng | 46 |
| 68) | Dibenzofuran | 8.522 | 168 | 94540 | 19.4947 | ng | 82 |
| 69) | 2,4-Dinitrotoluene | 8.489 | 165 | 21565 | 19.0133 | ng | 68 |
| 70) | 4-Nitrophenol | 8.420 | 65 | 11106 | 17.0349 | ng | 91 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.629 | 232 | 15247 | 18.0572 | ng | 87 |
| 72) | Fluorene | 8.843 | 166 | 76986 | 19.9618 | ng | 97 |
| 73) | 4-Chlorophenyl-phenyle... | 8.826 | 204 | 32672 | 18.3099 | ng | 92 |
| 74) | Diethylphthalate | 8.703 | 149 | 71527 | 20.1518 | ng | 96 |
| 75) | 4-Nitroaniline | 8.848 | 138 | 21158 | 21.0004 | ng | 69 |
| 76) | Atrazine | 9.468 | 200 | 18712 | 17.9627 | ng | 95 |
| 78) | 4,6-Dinitro-2-methylph... | 8.875 | 198 | 9705 | 15.5466 | ng | 54 |
| 79) | n-Nitrosodiphenylamine | 8.939 | 169 | 65193 | 20.3822 | ng | 95 |
| 81) | 1,2-Diphenylhydrazine | 8.982 | 77 | 72002 | 21.3166 | ng | 84 |
| 82) | 4-Bromophenyl-phenylether | 9.319 | 248 | 16753 | 17.8024 | ng | 87 |
| 83) | Hexachlorobenzene | 9.388 | 284 | 17481 | 17.3685 | ng | 71 |
| 84) | N-Octadecane | 9.639 | 57 | 52086 | 21.4321 | ng | 92 |
| 85) | Pentachlorophenol | 9.591 | 266 | 8185 | 14.6958 | ng | 96 |
| 86) | Phenanthrene | 9.821 | 178 | 107432 | 20.1923 | ng | 98 |
| 87) | Anthracene | 9.875 | 178 | 108849 | 20.1728 | ng | 99 |
| 88) | Carbazole | 10.046 | 167 | 104229 | 20.5963 | ng | 96 |
| 89) | Di-n-butylphthalate | 10.415 | 149 | 119576 | 21.0413 | ng | 97 |
| 90) | Fluoranthene | 11.153 | 202 | 104775 | 18.8964 | ng | 95 |
| 92) | Pyrene | 11.415 | 202 | 108182 | 20.8405 | ng | 94 |
| 93) | Benzidine | 11.303 | 184 | 66235 | 22.1592 | ng | 89 |
| 95) | 4,4'-DDE | 11.528 | 246 | 20860 | 20.6016 | ng | 92 |
| 96) | 4,4'-DDD | 11.929 | 235 | 36743 | 21.4248 | ng | 90 |
| 97) | Butylbenzylphthalate | 12.175 | 149 | 50002 | 22.3706 | ng | 72 |
| 98) | 4,4'-DDT | 12.282 | 235 | 31122 | 20.5164 | ng | 93 |
| 99) | 3,3'-Dichlorobenzidine | 12.801 | 252 | 34049 | 20.7162 | ng | 96 |
| 100) | Benzo[a]anthracene | 12.833 | 228 | 87808 | 19.4920 | ng | 99 |
| 101) | Chrysene | 12.875 | 228 | 90330 | 19.8614 | ng | 100 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.865 | 149 | 70693 | 22.2183 | ng | 94 |
| 104) | Di-n-octylphthalate | 13.608 | 149 | 115819 | 23.2829 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.041 | 252 | 82684 | 19.8420 | ng | 98 |
| 106) | Benzo[k]fluoranthene | 14.073 | 252 | 84918m | 19.9317 | ng | |
| 107) | Benzo[a]pyrene | 14.405 | 252 | 76540 | 18.9280 | ng | 97 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.812 | 276 | 84733 | 19.3147 | ng | 99 |
| 109) | Dibenzo[a,h]anthracene | 15.833 | 278 | 72147 | 18.9513 | ng | 94 |
| 110) | Benzo[g,h,i]perylene | 16.197 | 276 | 71472 | 19.0076 | ng | 89 |

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


Abundance
TIC: 10M87371.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 10M87371.D
Acq On : 09/20/21 11:42
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 12:24
Qt Upd On: 08/23/21 14:04
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->


Abundance
TIC: 10M87371.D\data.ms
Time-->


Abundance
TIC: 10M87371.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo(a)pyrene,P
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87370.D  Sam Mult : 1  Vial# : 7  Qt On : 09/20/21 12:24
Acq On : 09/20/21 11:19  Misc : A,BNA  Qt Upd On: 08/23/21 14:04

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 30250 | 40.00 | ng | -0.02 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 59217 | 40.00 | ng | -0.02 |
| 31) Naphthalene-d8 | 6.906 | 136 | 240858 | 40.00 | ng | -0.01 |
| 50) Acenaphthene-d10 | 8.339 | 164 | 117382 | 40.00 | ng | -0.02 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 208685 | 40.00 | ng | -0.02 |
| 91) Chrysene-d12 | 12.848 | 240 | 156978 | 40.00 | ng | -0.03 |
| 103) Perylene-d12 | 14.474 | 264 | 165609 | 40.00 | ng | -0.03 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.718 | 112 | 133904 | 78.63 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 78.63% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 163526 | 83.08 | ng | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 83.08% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 33928 | 41.15 | ng | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 82.30% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 146820 | 39.18 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 78.36% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 32055 | 72.88 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 72.88% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 99473 | 40.72 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 81.44% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.782 | 88 | 53508 | 73.4699 | ng | 63 |
| 9) Pyridine | 3.253 | 79 | 114522 | 76.9963 | ng | 82 |
| 10) N-Nitrosodimethylamine | 3.189 | 74 | 85968 | 81.9653 | ng | 82 |
| 12) Benzaldehyde | 5.531 | 77 | 116635 | 75.9288 | ng | 69 |
| 13) Aniline | 5.622 | 93 | 207804 | 70.5027 | ng | 68 |
| 14) Pentachloroethane | 5.665 | 117 | 48435 | 70.0920 | ng | 83 |
| 15) bis(2-Chloroethyl)ether | 5.681 | 93 | 142014 | 73.9006 | ng | 81 |
| 17) Phenol | 5.601 | 94 | 191721 | 75.0820 | ng | 83 |
| 18) 2-Chlorophenol | 5.724 | 128 | 149293 | 72.8299 | ng | 81 |
| 19) N-Decane | 5.761 | 57 | 166621 | 69.9626 | ng | 90 |
| 20) 1,3-Dichlorobenzene | 5.852 | 146 | 164421 | 70.7384 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 167643 | 73.9974 | ng | 96 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 157136 | 73.6922 | ng | 99 |
| 24) Benzyl alcohol | 6.018 | 108 | 96869 | 78.1614 | ng | 63 |
| 25) bis(2-chloroisopropyl)... | 6.125 | 45 | 228806 | 82.4897 | ng | 92 |
| 26) 2-Methylphenol | 6.104 | 108 | 135053 | 77.8632 | ng | 94 |
| 27) Acetophenone | 6.232 | 105 | 191277 | 72.9328 | ng | 71 |
| 28) Hexachloroethane | 6.312 | 117 | 59852 | 74.3949 | ng | 82 |
| 29) N-Nitroso-di-n-propyla... | 6.227 | 70 | 96179 | 77.9764 | ng | 79 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 138290 | 78.8453 | ng | 100 |
| 33) Nitrobenzene | 6.366 | 77 | 139535 | 74.4599 | ng | 74 |
| 34) Isophorone | 6.548 | 82 | 260679 | 73.9580 | ng | 84 |
| 35) 2-Nitrophenol | 6.612 | 139 | 81294 | 76.1341 | ng | 82 |
| 36) 2,4-Dimethylphenol | 6.639 | 107 | 133572 | 71.2026 | ng | 88 |
| 37) Benzoic Acid | 6.719 | 105 | 92813 | 83.2443 | ng | 82 |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 161142 | 75.9052 | ng | 95 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 118131 | 75.0406 | ng | 89 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 120548 | 69.9018 | ng | 99 |
| 41) Naphthalene | 6.922 | 128 | 439886 | 72.7423 | ng | 99 |
| 42) 4-Chloroaniline | 6.960 | 127 | 172563m | 76.5364 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 56859 | 60.6817 | ng | 96 |
| 44) Caprolactam | 7.243 | 113 | 48732 | 76.1631 | ng | 70 |
| 45) 4-Chloro-3-methylphenol | 7.323 | 107 | 119662 | 74.1156 | ng | 81 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 300611 | 73.5100 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 285385 | 73.0624 | ng | 96 |
| 48) Methylnaphthalenes (To... | 7.457 | 142 | 581316m | 146.9979 | ng | |
| 49) 1,1'-Biphenyl | 7.831 | 154 | 339767 | 64.4001 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 110356 | 68.5856 | ng | 96 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 49977 | 60.4989 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.682 | 196 | 76361m | 74.3250 | ng | |
| 54) 2,4,5-Trichlorophenol | 7.714 | 196 | 82482 | 69.4159 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.858 | 162 | 260580 | 75.5259 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 211780 | 71.3654 | ng | 89 |
| 58) Dimethylnaphthalenes (... | 8.136 | 156 | 211780 | 71.3654 | ng | 89 |
| 59) Diphenyl Ether | 7.917 | 170 | 182811 | 71.7752 | ng | 75 |
| 60) 2-Nitroaniline | 7.933 | 65 | 87532 | 77.9365 | ng | 51 |
| 61) Coumarin | 8.126 | 146 | 105330 | 71.0263 | ng | 87 |
| 62) Acenaphthylene | 8.216 | 152 | 406124 | 74.9413 | ng | 100 |
| 63) Dimethylphthalate | 8.077 | 163 | 282452 | 72.5069 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.136 | 165 | 66325 | 76.2806 | ng | 62 |
| 65) Acenaphthene | 8.366 | 153 | 264950 | 78.2727 | ng | 97 |

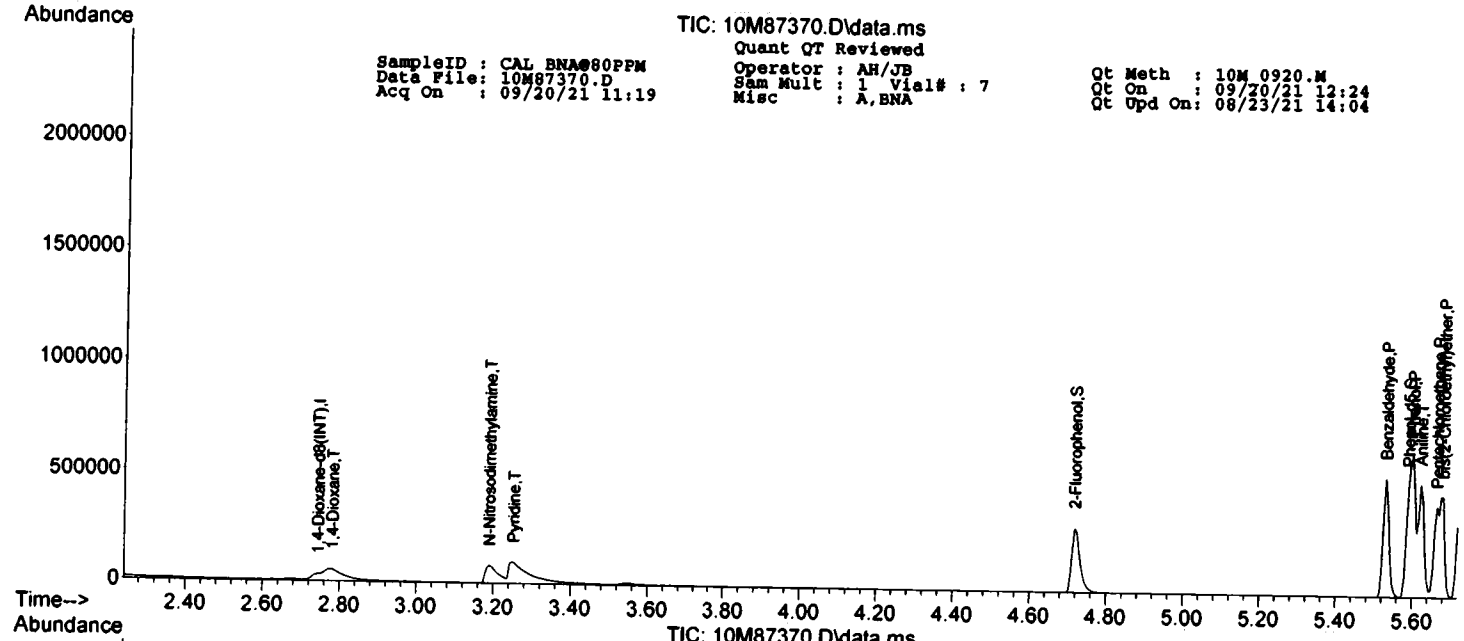
Quantitation Report (QT Reviewed)

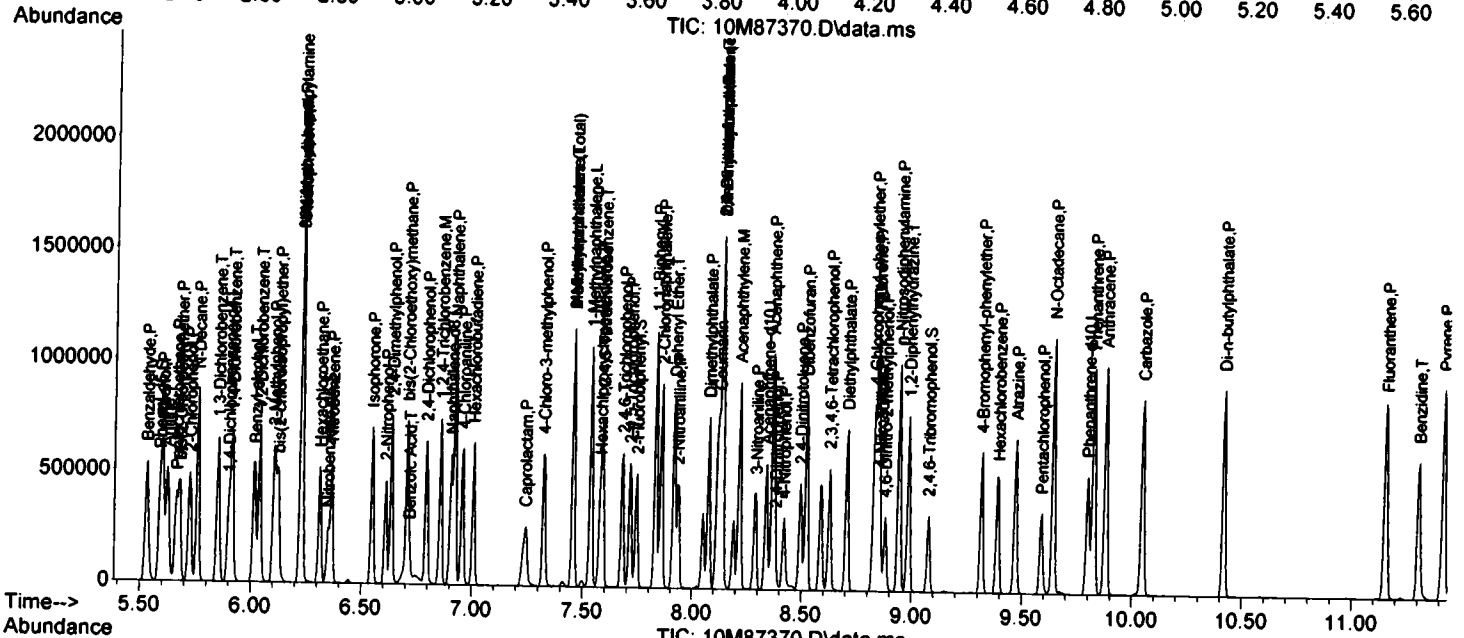
SampleID : CAL BNA@80PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87370.D  Sam Mult : 1  Vial# : 7  Qt On : 09/20/21 12:24
Acq On : 09/20/21 11:19  Misc : A,BNA  Qt Upd On: 08/23/21 14:04

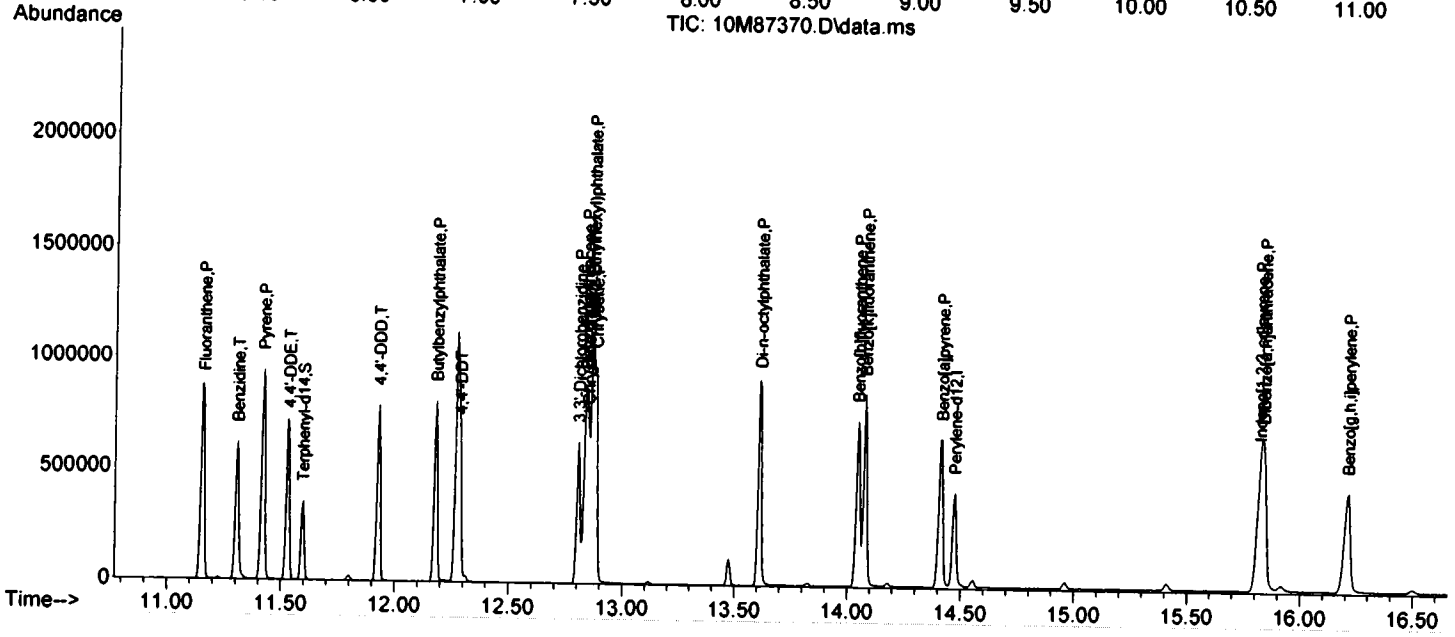
Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.291 | 138 | 81179 | 80.3423 | ng | 68 |
| 67) | 2,4-Dinitrophenol | 8.382 | 184 | 35150 | 68.5220 | ng | 34 |
| 68) | Dibenzofuran | 8.521 | 168 | 368274 | 72.7120 | ng | 84 |
| 69) | 2,4-Dinitrotoluene | 8.495 | 165 | 90140 | 76.0954 | ng | 61 |
| 70) | 4-Nitrophenol | 8.420 | 65 | 49981 | 71.8586 | ng | 92 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.628 | 232 | 61896 | 70.1880 | ng | 88 |
| 72) | Fluorene | 8.848 | 166 | 301478 | 74.8477 | ng | 98 |
| 73) | 4-Chlorophenyl-phenyle... | 8.832 | 204 | 127841 | 68.5983 | ng | 88 |
| 74) | Diethylphthalate | 8.709 | 149 | 282805 | 76.2897 | ng | 97 |
| 75) | 4-Nitroaniline | 8.858 | 138 | 87561 | 83.2144 | ng | 68 |
| 76) | Atrazine | 9.473 | 200 | 75594 | 69.4822 | ng | 97 |
| 78) | 4,6-Dinitro-2-methylph... | 8.880 | 198 | 47823 | 72.6913 | ng | 60 |
| 79) | n-Nitrosodiphenylamine | 8.944 | 169 | 256548 | 76.1070 | ng | 98 |
| 81) | 1,2-Diphenylhydrazine | 8.987 | 77 | 283573 | 79.6608 | ng | 79 |
| 82) | 4-Bromophenyl-phenylether | 9.318 | 248 | 67576 | 68.1374 | ng | 91 |
| 83) | Hexachlorobenzene | 9.393 | 284 | 69774 | 65.7804 | ng | 68 |
| 84) | N-Octadecane | 9.645 | 57 | 209685 | 81.8687 | ng | 89 |
| 85) | Pentachlorophenol | 9.591 | 266 | 42811 | 68.7194 | ng | 96 |
| 86) | Phenanthrene | 9.826 | 178 | 411361 | 73.3640 | ng | 98 |
| 87) | Anthracene | 9.880 | 178 | 427170 | 75.1189 | ng | 99 |
| 88) | Carbazole | 10.051 | 167 | 408668 | 76.6264 | ng | 96 |
| 89) | Di-n-butylphthalate | 10.420 | 149 | 488575 | 81.5770 | ng | 96 |
| 90) | Fluoranthene | 11.158 | 202 | 413185 | 70.7088 | ng | 93 |
| 92) | Pyrene | 11.420 | 202 | 422673 | 78.9973 | ng | 93 |
| 93) | Benzidine | 11.308 | 184 | 273781 | 88.8641 | ng | 86 |
| 95) | 4,4'-DDE | 11.533 | 246 | 82448 | 78.9991 | ng | 92 |
| 96) | 4,4'-DDD | 11.928 | 235 | 147531 | 83.4605 | ng | 91 |
| 97) | Butylbenzylphthalate | 12.180 | 149 | 207043 | 89.8681 | ng | 71 |
| 98) | 4,4'-DDT | 12.287 | 235 | 126842 | 81.1246 | ng | 94 |
| 99) | 3,3'-Dichlorobenzidine | 12.806 | 252 | 138394 | 81.6918 | ng | 98 |
| 100) | Benzo[a]anthracene | 12.838 | 228 | 346490 | 74.6221 | ng | 99 |
| 101) | Chrysene | 12.880 | 228 | 348054 | 74.2472 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.864 | 149 | 289505 | 88.2765 | ng | 92 |
| 104) | Di-n-octylphthalate | 13.613 | 149 | 491270 | 94.5886 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 14.047 | 252 | 330855 | 76.0434 | ng | 98 |
| 106) | Benzo[k]fluoranthene | 14.079 | 252 | 334961m | 75.3007 | ng | |
| 107) | Benzo[a]pyrene | 14.416 | 252 | 313079 | 74.1533 | ng | 96 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.822 | 276 | 350493 | 76.5201 | ng | 99 |
| 109) | Dibenzo[a,h]anthracene | 15.838 | 278 | 302746 | 76.1657 | ng | 97 |
| 110) | Benzo[g,h,i]perylene | 16.213 | 276 | 290483 | 73.9898 | ng | 88 |

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


Abundance
TIC: 10M87370.D\data.ms
SampleID : CAL BNA@80PPM
Data File: 10M87370.D
Acq On : 09/20/21 11:19
Quant QT Reviewed
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 12:24
Qt Upd On: 08/23/21 14:04
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->


Abundance
TIC: 10M87370.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Acenaphthylene,M
Dimethylphthalate,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M87370.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87369.D  Sam Mult : 1  Vial# : 6  Qt On : 09/20/21 12:24
Acq On : 09/20/21 10:57  Misc : A,BNA  Qt Upd On: 08/23/21 14:04

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.740 | 96 | 29811 | 40.00 | ng | -0.03 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 58442 | 40.00 | ng | -0.02 |
| 31) Naphthalene-d8 | 6.906 | 136 | 237090 | 40.00 | ng | -0.01 |
| 50) Acenaphthene-d10 | 8.340 | 164 | 116313 | 40.00 | ng | -0.02 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 205309 | 40.00 | ng | -0.02 |
| 91) Chrysene-d12 | 12.854 | 240 | 157085 | 40.00 | ng | -0.02 |
| 103) Perylene-d12 | 14.474 | 264 | 165294 | 40.00 | ng | -0.03 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 199364 | 118.79 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 118.79% | | | |
| 16) Phenol-d5 | 5.596 | 99 | 241696 | 124.60 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 124.60% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 50951 | 62.78 | ng | -0.01 |
| Spiked Amount 50.000 | | | Recovery = 125.56% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 220248 | 59.31 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 118.62% | | | |
| 80) 2,4,6-Tribromophenol | 9.083 | 330 | 49504 | 114.40 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 114.40% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 150265 | 61.46 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 122.92% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.777 | 88 | 79518 | 110.7911 | ng | 63 |
| 9) Pyridine | 3.242 | 79 | 175861 | 119.9774 | ng | 80 |
| 10) N-Nitrosodimethylamine | 3.189 | 74 | 128477 | 124.2989 | ng | 82 |
| 12) Benzaldehyde | 5.532 | 77 | 170604 | 112.6978 | ng | 71 |
| 13) Aniline | 5.628 | 93 | 307588 | 105.8937 | ng | 68 |
| 14) Pentachloroethane | 5.665 | 117 | 71385 | 104.8251 | ng | 83 |
| 15) bis(2-Chloroethyl)ether | 5.681 | 93 | 203083 | 107.2357 | ng | 82 |
| 17) Phenol | 5.606 | 94 | 283030 | 112.4727 | ng | 83 |
| 18) 2-Chlorophenol | 5.729 | 128 | 221809 | 109.7990 | ng | 78 |
| 19) N-Decane | 5.762 | 57 | 246296 | 104.9404 | ng | 91 |
| 20) 1,3-Dichlorobenzene | 5.852 | 146 | 240485 | 104.9868 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 245816 | 109.9417 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 231219 | 109.8729 | ng | 97 |
| 24) Benzyl alcohol | 6.018 | 108 | 142028 | 116.1189 | ng | 66 |
| 25) bis(2-chloroisopropyl)... | 6.125 | 45 | 337844 | 123.4156 | ng | 92 |
| 26) 2-Methylphenol | 6.109 | 108 | 203062 | 118.6255 | ng | 95 |
| 27) Acetophenone | 6.232 | 105 | 267661 | 103.4110 | ng | 75 |
| 28) Hexachloroethane | 6.312 | 117 | 89845 | 113.1566 | ng | 81 |
| 29) N-Nitroso-di-n-propyla... | 6.232 | 70 | 134767 | 110.7102 | ng | 76 |
| 30) 3&4-Methylphenol | 6.232 | 108 | 193352 | 111.7005 | ng | 100 |
| 33) Nitrobenzene | 6.366 | 77 | 205291 | 111.2902 | ng | 76 |
| 34) Isophorone | 6.553 | 82 | 386867 | 111.5036 | ng | 82 |
| 35) 2-Nitrophenol | 6.612 | 139 | 120992 | 115.1133 | ng | 83 |
| 36) 2,4-Dimethylphenol | 6.639 | 107 | 197494 | 106.9503 | ng | 89 |
| 37) Benzoic Acid | 6.730 | 105 | 144927 | 120.8760 | ng | 85 |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 239613 | 114.6624 | ng | 97 |
| 39) 2,4-Dichlorophenol | 6.799 | 162 | 175482 | 113.2434 | ng | 86 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 177316 | 104.4537 | ng | 99 |
| 41) Naphthalene | 6.922 | 128 | 646165 | 108.5522 | ng | 100 |
| 42) 4-Chloroaniline | 6.960 | 127 | 251228m | 113.1974 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 85129 | 92.2961 | ng | 95 |
| 44) Caprolactam | 7.259 | 113 | 72201 | 114.6978 | ng | 69 |
| 45) 4-Chloro-3-methylphenol | 7.329 | 107 | 177062 | 111.4105 | ng | 73 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 434647 | 107.9757 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 410000 | 106.6337 | ng | 95 |
| 48) Methylnaphthalenes (To... | 7.457 | 142 | 840459m | 215.9053 | ng | |
| 49) 1,1'-Biphenyl | 7.831 | 154 | 489541 | 94.2632 | ng | 95 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 159920 | 100.3028 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 76646 | 91.2736 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.682 | 196 | 116571 | 114.5056 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.719 | 196 | 123457 | 104.8549 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.858 | 162 | 386951 | 113.1838 | ng | 92 |
| 57) 1,4-Dimethylnaphthalene | 8.142 | 156 | 294226 | 100.0592 | ng | 88 |
| 58) Dimethylnaphthalenes (... | 8.142 | 156 | 294226 | 100.0592 | ng | 88 |
| 59) Diphenyl Ether | 7.917 | 170 | 270722 | 107.2676 | ng | 75 |
| 60) 2-Nitroaniline | 7.938 | 65 | 128622 | 115.5747 | ng | 40 |
| 61) Coumarin | 8.126 | 146 | 152395 | 103.7077 | ng | 86 |
| 62) Acenaphthylene | 8.222 | 152 | 598893 | 111.5283 | ng | 100 |
| 63) Dimethylphthalate | 8.083 | 163 | 418403 | 108.3934 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.142 | 165 | 94049 | 109.1602 | ng | 59 |
| 65) Acenaphthene | 8.372 | 153 | 386986 | 115.3759 | ng | 98 |

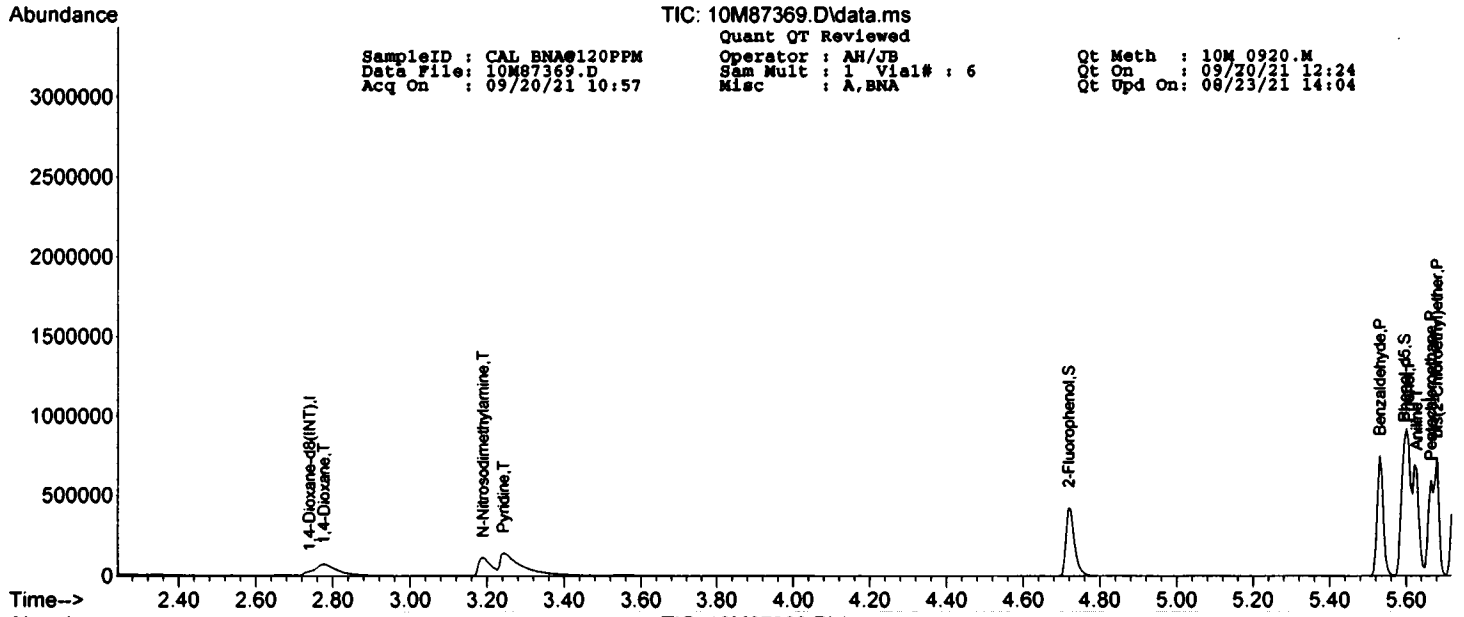
Quantitation Report (QT Reviewed)

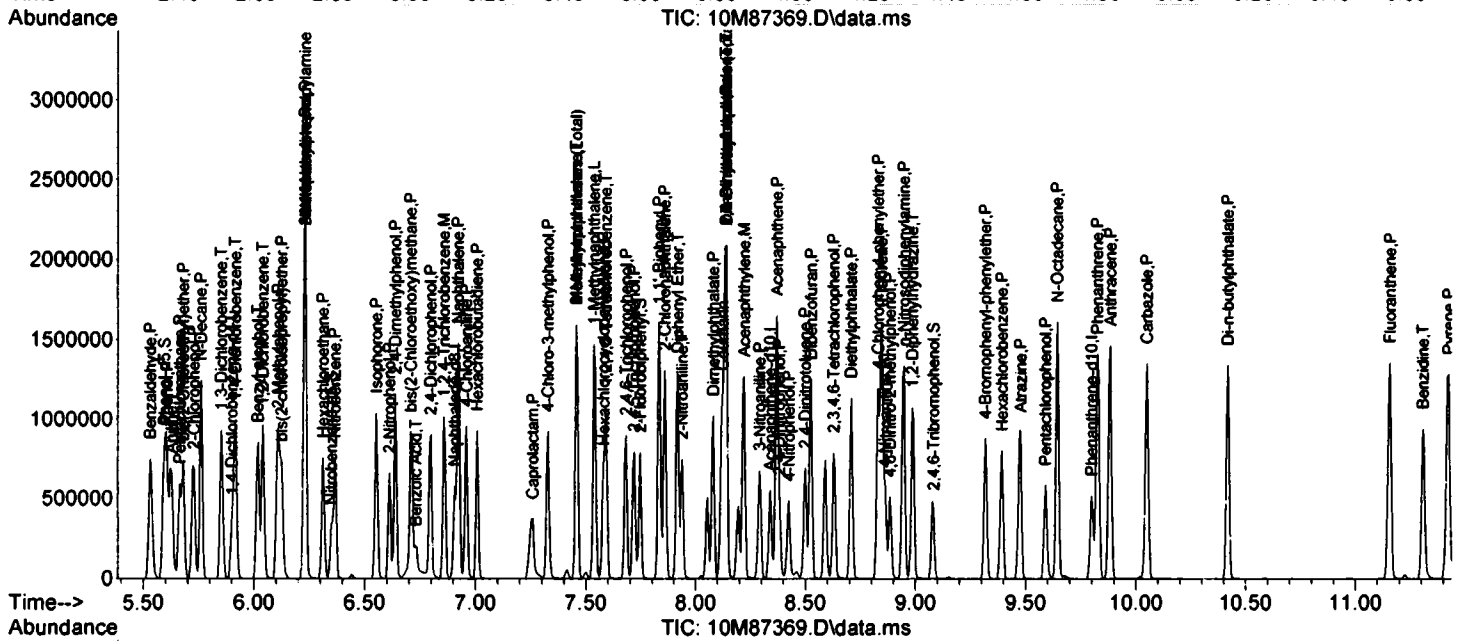
SampleID : CAL BNA@120PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87369.D  Sam Mult : 1  Vial# : 6  Qt On : 09/20/21 12:24
Acq On : 09/20/21 10:57  Misc : A,BNA  Qt Upd On: 08/23/21 14:04

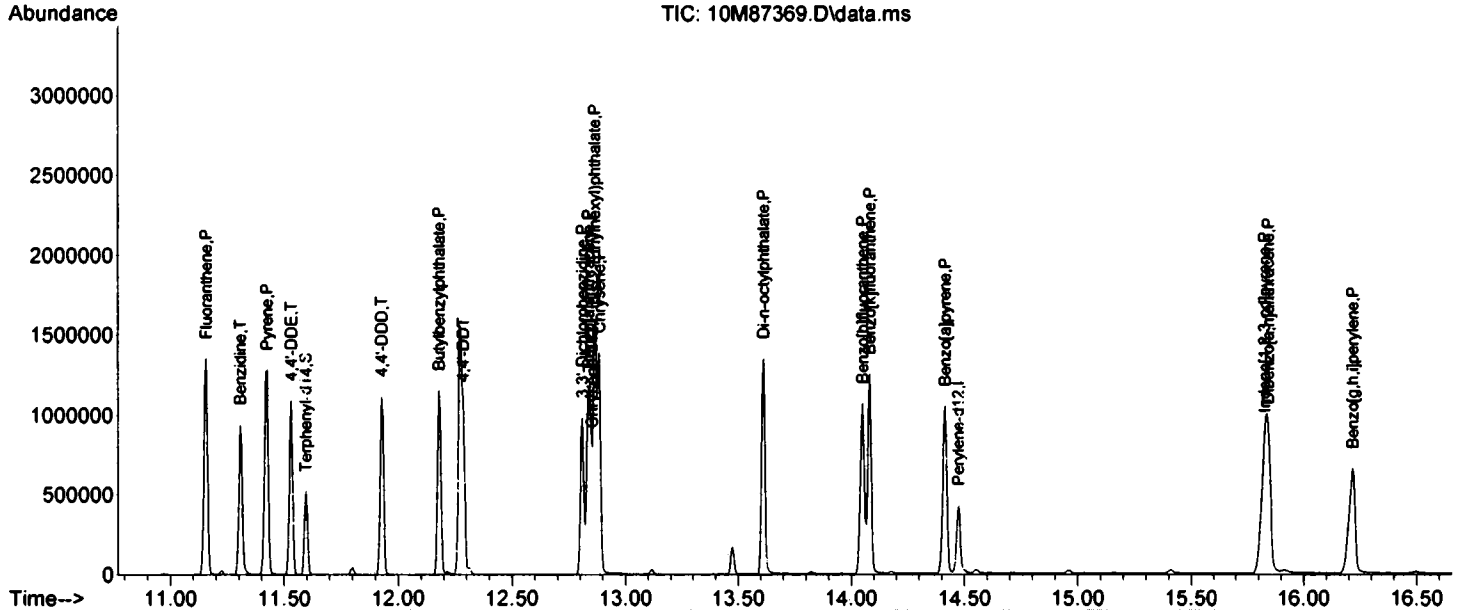
Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.291 | 138 | 119729 | 119.5840 | ng | 70 |
| 67) | 2,4-Dinitrophenol | 8.382 | 184 | 56337 | 106.6346 | ng | 39 |
| 68) | Dibenzofuran | 8.527 | 168 | 544282 | 108.4506 | ng | 83 |
| 69) | 2,4-Dinitrotoluene | 8.500 | 165 | 133847 | 114.0310 | ng | 59 |
| 70) | 4-Nitrophenol | 8.425 | 65 | 75491 | 108.0315 | ng | 91 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.628 | 232 | 94881 | 108.5808 | ng | 88 |
| 72) | Fluorene | 8.848 | 166 | 439962 | 110.2328 | ng | 99 |
| 73) | 4-Chlorophenyl-phenyle... | 8.832 | 204 | 189610 | 102.6781 | ng | 87 |
| 74) | Diethylphthalate | 8.709 | 149 | 421434 | 114.7312 | ng | 97 |
| 75) | 4-Nitroaniline | 8.864 | 138 | 131900 | 126.5045 | ng | 67 |
| 76) | Atrazine | 9.479 | 200 | 113660 | 105.4307 | ng | 97 |
| 78) | 4,6-Dinitro-2-methylph... | 8.885 | 198 | 74439 | 115.0084 | ng | 61 |
| 79) | n-Nitrosodiphenylamine | 8.949 | 169 | 380236 | 114.6548 | ng | 97 |
| 81) | 1,2-Diphenylhydrazine | 8.987 | 77 | 462390 | 132.0297 | ng | 81 |
| 82) | 4-Bromophenyl-phenylether | 9.318 | 248 | 100560 | 103.0627 | ng | 91 |
| 83) | Hexachlorobenzene | 9.393 | 284 | 104171 | 99.8235 | ng | 71 |
| 84) | N-Octadecane | 9.645 | 57 | 304245 | 120.7417 | ng | 89 |
| 85) | Pentachlorophenol | 9.591 | 266 | 66450 | 104.4287 | ng | 96 |
| 86) | Phenanthrene | 9.826 | 178 | 607885 | 110.1957 | ng | 99 |
| 87) | Anthracene | 9.885 | 178 | 631365 | 112.8528 | ng | 100 |
| 88) | Carbazole | 10.051 | 167 | 601564 | 114.6497 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.420 | 149 | 715927 | 121.5033 | ng | 97 |
| 90) | Fluoranthene | 11.158 | 202 | 611756 | 106.4120 | ng | 98 |
| 92) | Pyrene | 11.426 | 202 | 626131 | 116.9438 | ng | 92 |
| 93) | Benzidine | 11.308 | 184 | 403004 | 130.7183 | ng | 89 |
| 95) | 4,4'-DDE | 11.533 | 246 | 124282 | 119.0020 | ng | 92 |
| 96) | 4,4'-DDD | 11.929 | 235 | 218092 | 123.2939 | ng | 92 |
| 97) | Butylbenzylphthalate | 12.180 | 149 | 309898 | 134.4213 | ng | 73 |
| 98) | 4,4'-DDT | 12.287 | 235 | 188162 | 120.2612 | ng | 94 |
| 99) | 3,3'-Dichlorobenzidine | 12.811 | 252 | 209149 | 123.3732 | ng | 97 |
| 100) | Benzo[a]anthracene | 12.838 | 228 | 528230 | 113.6852 | ng | 99 |
| 101) | Chrysene | 12.886 | 228 | 518914 | 110.6198 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.865 | 149 | 433604 | 132.1254 | ng | 93 |
| 104) | Di-n-octylphthalate | 13.613 | 149 | 735615 | 141.9044 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.052 | 252 | 507627m | 116.8948 | ng | |
| 106) | Benzo[k]fluoranthene | 14.084 | 252 | 480200 | 108.1567 | ng | 96 |
| 107) | Benzo[a]pyrene | 14.416 | 252 | 468366 | 111.1447 | ng | 96 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.828 | 276 | 520580 | 113.8703 | ng | 98 |
| 109) | Dibenzo[a,h]anthracene | 15.844 | 278 | 446369 | 112.5128 | ng | 97 |
| 110) | Benzo[g,h,i]perylene | 16.218 | 276 | 440643 | 112.4515 | ng | 89 |

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


Abundance
TIC: 10M87369.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@120PPM
Data File: 10M87369.D
Acq On : 09/20/21 10:57
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 12:24
Qt Upd On: 08/23/21 14:04
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->


Abundance
TIC: 10M87369.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M87369.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo(a)pyrene,P
Benzo(g,h,i)perylene,P
Time-->

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87368.D Sam Mult : 1 Vial# : 5 Qt On : 09/20/21 12:24
Acq On : 09/20/21 10:35 Misc : A,BNA Qt Upd On: 08/23/21 14:04

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.740 | 96 | 29565 | 40.00 | ng | -0.03 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 58009 | 40.00 | ng | -0.02 |
| 31) Naphthalene-d8 | 6.906 | 136 | 237413 | 40.00 | ng | -0.01 |
| 50) Acenaphthene-d10 | 8.340 | 164 | 117125 | 40.00 | ng | -0.02 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 207055 | 40.00 | ng | -0.02 |
| 91) Chrysene-d12 | 12.854 | 240 | 154432 | 40.00 | ng | -0.02 |
| 103) Perylene-d12 | 14.475 | 264 | 169218 | 40.00 | ng | -0.03 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.724 | 112 | 267994 | 161.01 | ng | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 161.01% | | | |
| 16) Phenol-d5 | 5.596 | 99 | 318916 | 165.78 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 165.78% | | | |
| 32) Nitrobenzene-d5 | 6.355 | 128 | 69019 | 84.92 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 169.84% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 296819 | 79.37 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 158.74% | | | |
| 80) 2,4,6-Tribromophenol | 9.083 | 330 | 67551 | 154.79 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 154.79% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 202788 | 84.37 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 168.74% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.777 | 88 | 107493 | 151.0144 | ng | 62 |
| 9) Pyridine | 3.242 | 79 | 236172 | 162.4640 | ng | 84 |
| 10) N-Nitrosodimethylamine | 3.189 | 74 | 172671 | 168.4457 | ng | 84 |
| 12) Benzaldehyde | 5.532 | 77 | 230898 | 153.7960 | ng | 71 |
| 13) Aniline | 5.628 | 93 | 419099 | 145.4842 | ng | 67 |
| 14) Pentachloroethane | 5.665 | 117 | 96246 | 142.5081 | ng | 84 |
| 15) bis(2-Chloroethyl)ether | 5.681 | 93 | 276323 | 147.1233 | ng | 82 |
| 17) Phenol | 5.606 | 94 | 378656 | 151.7254 | ng | 84 |
| 18) 2-Chlorophenol | 5.729 | 128 | 297218 | 148.3519 | ng | 80 |
| 19) N-Decane | 5.762 | 57 | 324011 | 139.2014 | ng | 91 |
| 20) 1,3-Dichlorobenzene | 5.853 | 146 | 318136 | 140.0419 | ng | 97 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 321079 | 144.6751 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 306041 | 146.5131 | ng | 98 |
| 24) Benzyl alcohol | 6.018 | 108 | 192838 | 158.8368 | ng | 66 |
| 25) bis(2-chloroisopropyl)... | 6.125 | 45 | 448229 | 164.9618 | ng | 91 |
| 26) 2-Methylphenol | 6.109 | 108 | 269436 | 158.5750 | ng | 95 |
| 27) Acetophenone | 6.232 | 105 | 338932 | 131.9240 | ng | 76 |
| 28) Hexachloroethane | 6.312 | 117 | 117479 | 149.0651 | ng | 82 |
| 29) N-Nitroso-di-n-propyla... | 6.232 | 70 | 170025 | 140.7170 | ng | 76 |
| 30) 3&4-Methylphenol | 6.232 | 108 | 242453 | 141.1119 | ng | 100 |
| 33) Nitrobenzene | 6.371 | 77 | 278025 | 150.5150 | ng | 73 |
| 34) Isophorone | 6.553 | 82 | 515403 | 148.3484 | ng | 83 |
| 35) 2-Nitrophenol | 6.612 | 139 | 164335 | 156.1376 | ng | 83 |
| 36) 2,4-Dimethylphenol | 6.639 | 107 | 259986 | 140.6004 | ng | 90 |
| 37) Benzoic Acid | 6.746 | 105 | 203501 | 156.8216 | ng | 82 |
| 38) bis(2-Chloroethoxy)met... | 6.714 | 93 | 317221 | 151.5938 | ng | 95 |
| 39) 2,4-Dichlorophenol | 6.799 | 162 | 232795 | 150.0247 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 232641 | 136.8583 | ng | 99 |
| 41) Naphthalene | 6.928 | 128 | 845840 | 141.9031 | ng | 100 |
| 42) 4-Chloroaniline | 6.960 | 127 | 329201m | 148.1284 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 110149 | 119.2601 | ng | 97 |
| 44) Caprolactam | 7.270 | 113 | 96299 | 152.8529 | ng | 70 |
| 45) 4-Chloro-3-methylphenol | 7.329 | 107 | 238717 | 150.0006 | ng | 77 |
| 46) 2-Methylnaphthalene | 7.462 | 142 | 560701 | 139.1007 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.543 | 142 | 538748 | 139.9281 | ng | 95 |
| 48) Methylnaphthalenes (To... | 7.462 | 142 | 1094643m | 280.8200 | ng | |
| 49) 1,1'-Biphenyl | 7.837 | 154 | 635145 | 122.1335 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 210190 | 130.9184 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 102147 | 118.1907 | ng | 98 |
| 53) 2,4,6-Trichlorophenol | 7.682 | 196 | 155807 | 151.9854 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.719 | 196 | 166293 | 140.2574 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.858 | 162 | 506470 | 147.1163 | ng | 92 |
| 57) 1,4-Dimethylnaphthalene | 8.142 | 156 | 374455 | 126.4604 | ng | 90 |
| 58) Dimethylnaphthalenes (... | 8.142 | 156 | 374455 | 126.4604 | ng | 90 |
| 59) Diphenyl Ether | 7.917 | 170 | 356704 | 140.3563 | ng | 76 |
| 60) 2-Nitroaniline | 7.938 | 65 | 173284 | 154.6267 | ng | 46 |
| 61) Coumarin | 8.131 | 146 | 194566 | 131.4880 | ng | 87 |
| 62) Acenaphthylene | 8.222 | 152 | 788310 | 145.7846 | ng | 100 |
| 63) Dimethylphthalate | 8.083 | 163 | 563532 | 144.9790 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.142 | 165 | 118424 | 136.4987 | ng | 71 |
| 65) Acenaphthene | 8.372 | 153 | 503906 | 149.1929 | ng | 98 |

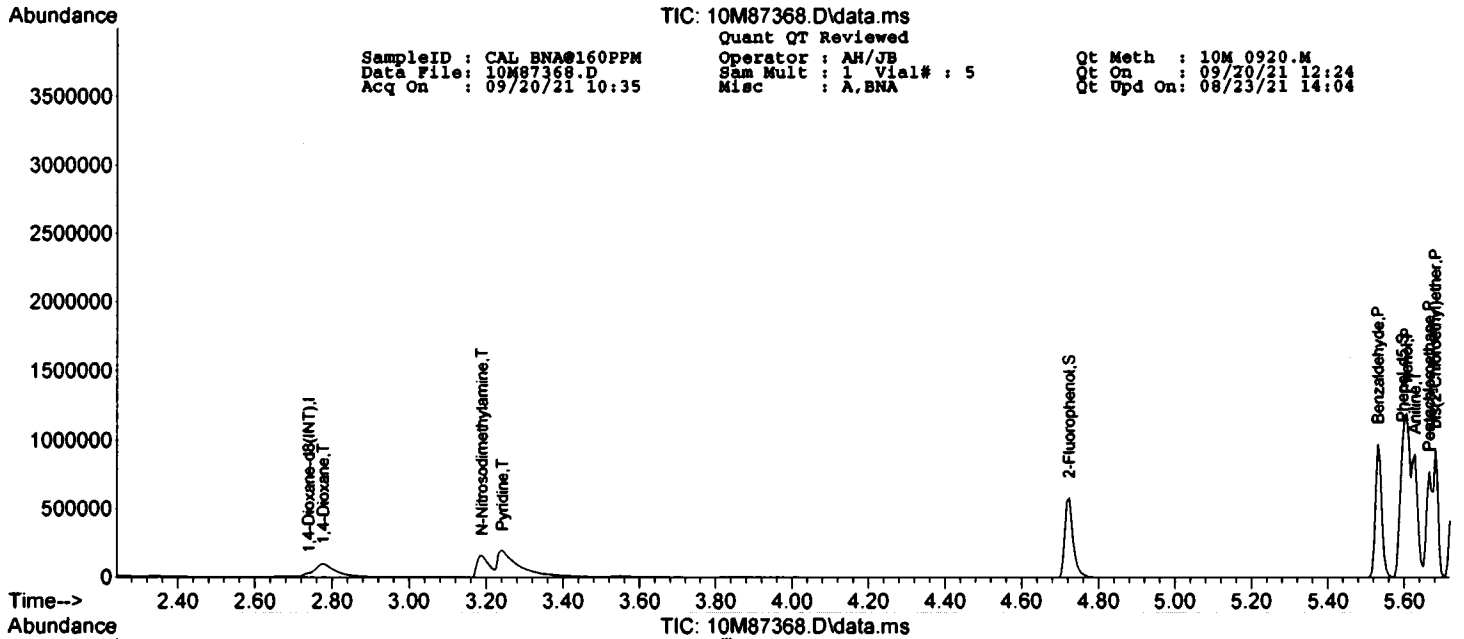
Quantitation Report (QT Reviewed)

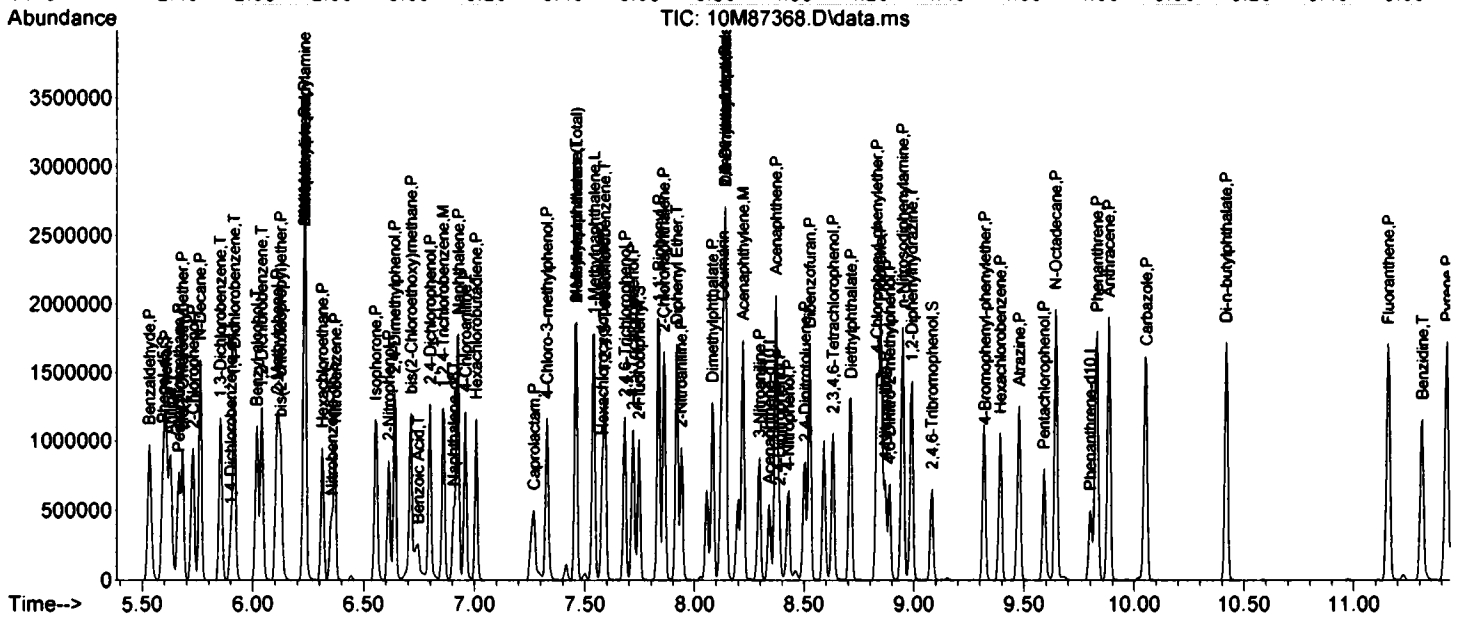
SampleID : CAL BNA@160PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87368.D  Sam Mult : 1  Vial# : 5  Qt On : 09/20/21 12:24
Acq On : 09/20/21 10:35  Misc : A,BNA  Qt Upd On: 08/23/21 14:04

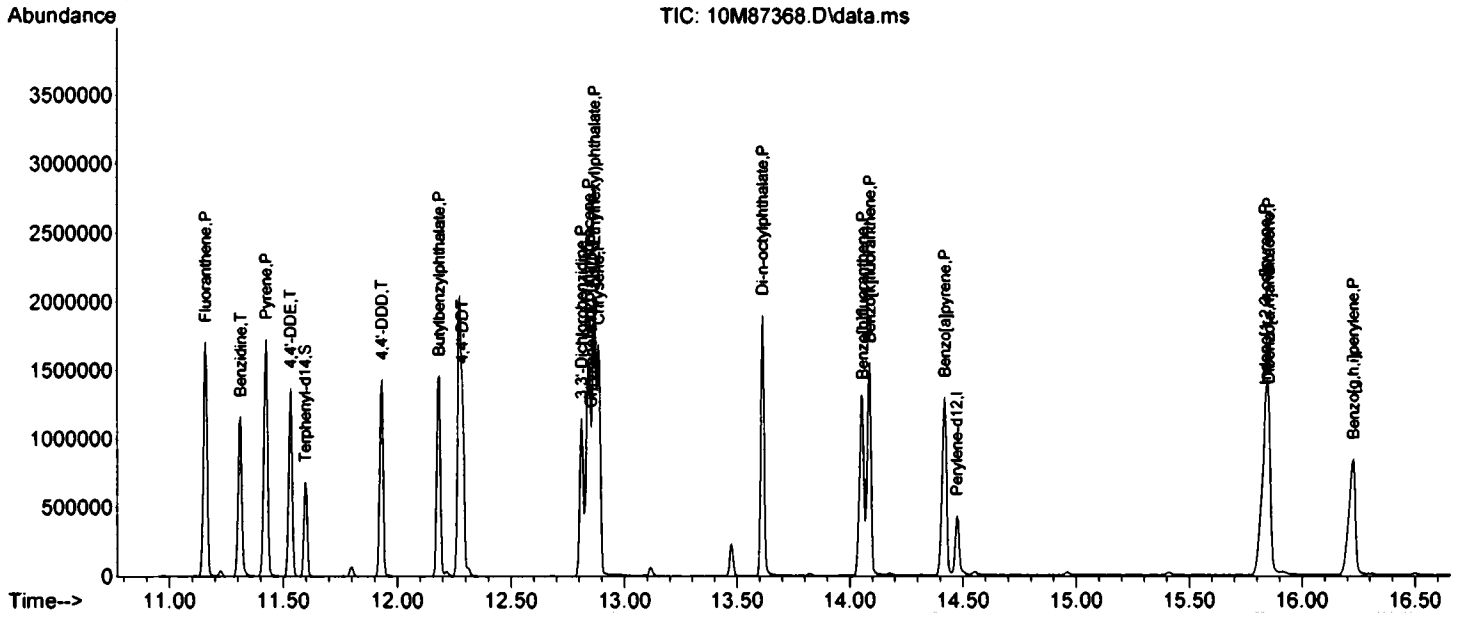
Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.297 | 138 | 163414 | 162.0846 | ng | 68 |
| 67) | 2,4-Dinitrophenol | 8.388 | 184 | 80371 | 145.4579 | ng | 34 |
| 68) | Dibenzofuran | 8.527 | 168 | 716201 | 141.7169 | ng | 85 |
| 69) | 2,4-Dinitrotoluene | 8.505 | 165 | 183402 | 155.1661 | ng | 55 |
| 70) | 4-Nitrophenol | 8.431 | 65 | 109884 | 153.5147 | ng | 89 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.634 | 232 | 127643 | 145.0605 | ng | 88 |
| 72) | Fluorene | 8.848 | 166 | 570532 | 141.9562 | ng | 100 |
| 73) | 4-Chlorophenyl-phenyle... | 8.832 | 204 | 250928 | 134.9411 | ng | 88 |
| 74) | Diethylphthalate | 8.714 | 149 | 560281 | 151.4734 | ng | 97 |
| 75) | 4-Nitroaniline | 8.869 | 138 | 178755 | 170.2542 | ng | 67 |
| 76) | Atrazine | 9.479 | 200 | 152093 | 140.1029 | ng | 96 |
| 78) | 4,6-Dinitro-2-methylph... | 8.891 | 198 | 103615 | 158.7354 | ng | 68 |
| 79) | n-Nitrosodiphenylamine | 8.949 | 169 | 500453 | 149.6321 | ng | 96 |
| 81) | 1,2-Diphenylhydrazine | 8.992 | 77 | 613165 | 173.6053 | ng | 76 |
| 82) | 4-Bromophenyl-phenylether | 9.324 | 248 | 133432 | 135.5996 | ng | 87 |
| 83) | Hexachlorobenzene | 9.393 | 284 | 140545 | 133.5438 | ng | 73 |
| 84) | N-Octadecane | 9.645 | 57 | 394524 | 155.2492 | ng | 87 |
| 85) | Pentachlorophenol | 9.591 | 266 | 93207 | 140.0942 | ng | 97 |
| 86) | Phenanthrene | 9.832 | 178 | 795745 | 143.0340 | ng | 99 |
| 87) | Anthracene | 9.885 | 178 | 825521 | 146.3128 | ng | 99 |
| 88) | Carbazole | 10.057 | 167 | 800671 | 151.3099 | ng | 96 |
| 89) | Di-n-butylphthalate | 10.420 | 149 | 965133 | 162.4160 | ng | 97 |
| 90) | Fluoranthene | 11.158 | 202 | 804612 | 138.7781 | ng | 99 |
| 92) | Pyrene | 11.426 | 202 | 833080 | 158.2691 | ng | 95 |
| 93) | Benzidine | 11.313 | 184 | 534066 | 176.2054 | ng | 87 |
| 95) | 4,4'-DDE | 11.533 | 246 | 165344 | 161.0393 | ng | 91 |
| 96) | 4,4'-DDD | 11.934 | 235 | 287312 | 165.2163 | ng | 92 |
| 97) | Butylbenzylphthalate | 12.185 | 149 | 416033 | 183.5585 | ng | 69 |
| 98) | 4,4'-DDT | 12.287 | 235 | 248063 | 161.2698 | ng | 94 |
| 99) | 3,3'-Dichlorobenzidine | 12.811 | 252 | 264387 | 158.6363 | ng | 98 |
| 100) | Benzo[a]anthracene | 12.843 | 228 | 701221 | 153.5087 | ng | 99 |
| 101) | Chrysene | 12.886 | 228 | 696939 | 151.1228 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.870 | 149 | 577303 | 178.9346 | ng | 91 |
| 104) | Di-n-octylphthalate | 13.613 | 149 | 988871 | 186.3354 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.057 | 252 | 654681m | 147.2620 | ng | |
| 106) | Benzo[k]fluoranthene | 14.089 | 252 | 673747 | 148.2309 | ng | 96 |
| 107) | Benzo[a]pyrene | 14.421 | 252 | 631430 | 146.3657 | ng | 96 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.838 | 276 | 696323 | 148.7798 | ng | 91 |
| 109) | Dibenzo[a,h]anthracene | 15.854 | 278 | 600241 | 147.7896 | ng | 96 |
| 110) | Benzo[g,h,i]perylene | 16.229 | 276 | 591908 | 147.5513 | ng | 87 |

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


Abundance
TIC: 10M87368.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 10M87368.D
Acq On : 09/20/21 10:35
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 12:24
Qt Upd On: 08/23/21 14:04
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->


Abundance
TIC: 10M87368.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Benzoic Acid,T
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M87368.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87367.D Sam Mult : 1 Vial# : 4 Qt On : 09/20/21 11:08
Acq On : 09/20/21 10:13 Misc : A,BNA Qt Upd On: 08/23/21 14:04

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.740 | 96 | 26976 | 40.00 | ng | -0.03 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 53985 | 40.00 | ng | -0.02 |
| 31) Naphthalene-d8 | 6.906 | 136 | 221465 | 40.00 | ng | -0.01 |
| 50) Acenaphthene-d10 | 8.340 | 164 | 110731 | 40.00 | ng | -0.02 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 194880 | 40.00 | ng | -0.02 |
| 91) Chrysene-d12 | 12.854 | 240 | 143694 | 40.00 | ng | -0.02 |
| 103) Perylene-d12 | 14.474 | 264 | 156246 | 40.00 | ng | -0.03 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.724 | 112 | 327484 | 215.64 | ng | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 215.64% | | | |
| 16) Phenol-d5 | 5.596 | 99 | 383184 | 218.30 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 218.30% | | | |
| 32) Nitrobenzene-d5 | 6.355 | 128 | 83720 | 110.43 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 220.86% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 356835 | 100.93 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 201.86% | | | |
| 80) 2,4,6-Tribromophenol | 9.083 | 330 | 83678 | 203.72 | ng | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 203.72% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 244148 | 109.17 | ng | -0.02 |
| Spiked Amount 50.000 | | | Recovery = 218.34% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.777 | 88 | 133902 | 206.1700 | ng | 64 |
| 9) Pyridine | 3.237 | 79 | 291954 | 220.1118 | ng | 82 |
| 10) N-Nitrosodimethylamine | 3.189 | 74 | 215414 | 230.3111 | ng | 83 |
| 12) Benzaldehyde | 5.532 | 77 | 276300 | 201.7001 | ng | 72 |
| 13) Aniline | 5.628 | 93 | 503365 | 191.5061 | ng | 67 |
| 14) Pentachloroethane | 5.665 | 117 | 115277 | 187.0682 | ng | 84 |
| 15) bis(2-Chloroethyl)ether | 5.687 | 93 | 327690 | 191.2176 | ng | 81 |
| 17) Phenol | 5.612 | 94 | 450711 | 197.9302 | ng | 87 |
| 18) 2-Chlorophenol | 5.729 | 128 | 352719 | 192.9510 | ng | 82 |
| 19) N-Decane | 5.762 | 57 | 380609m | 179.2104 | ng | |
| 20) 1,3-Dichlorobenzene | 5.858 | 146 | 376761 | 181.7655 | ng | 96 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 383458 | 185.6615 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 360794 | 185.6002 | ng | 98 |
| 24) Benzyl alcohol | 6.024 | 108 | 230360 | 203.8862 | ng | 64 |
| 25) bis(2-chloroisopropyl)... | 6.125 | 45 | 532032 | 210.3989 | ng | 92 |
| 26) 2-Methylphenol | 6.109 | 108 | 321209 | 203.1370 | ng | 94 |
| 27) Acetophenone | 6.238 | 105 | 388675 | 162.5624 | ng | 74 |
| 28) Hexachloroethane | 6.312 | 117 | 140311 | 191.3065 | ng | 81 |
| 29) N-Nitroso-di-n-propyla... | 6.238 | 70 | 198916 | 176.8991 | ng | 74 |
| 30) 3&4-Methylphenol | 6.238 | 108 | 277420 | 173.4986 | ng | 97 |
| 33) Nitrobenzene | 6.371 | 77 | 330603 | 191.8678 | ng | 76 |
| 34) Isophorone | 6.558 | 82 | 618134 | 190.7295 | ng | 82 |
| 35) 2-Nitrophenol | 6.617 | 139 | 194949 | 198.5628 | ng | 78 |
| 36) 2,4-Dimethylphenol | 6.644 | 107 | 310757 | 180.1594 | ng | 90 |
| 37) Benzoic Acid | 6.751 | 105 | 235584 | 184.1484 | ng | 84 |
| 38) bis(2-Chloroethoxy)met... | 6.714 | 93 | 378065 | 193.6803 | ng | 95 |
| 39) 2,4-Dichlorophenol | 6.799 | 162 | 274170 | 189.4124 | ng | 89 |
| 40) 1,2,4-Trichlorobenzene | 6.863 | 180 | 278449 | 175.6022 | ng | 98 |
| 41) Naphthalene | 6.928 | 128 | 994756 | 178.9039 | ng | 100 |
| 42) 4-Chloroaniline | 6.960 | 127 | 383407m | 184.9424 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 130725 | 151.7305 | ng | 96 |
| 44) Caprolactam | 7.275 | 113 | 126223 | 214.9646 | ng | 70 |
| 45) 4-Chloro-3-methylphenol | 7.334 | 107 | 283302 | 190.8353 | ng | 75 |
| 46) 2-Methylnaphthalene | 7.462 | 142 | 659143 | 175.2981 | ng | 100 |
| 47) 1-Methylnaphthalene | 7.543 | 142 | 630535 | 175.5609 | ng | 95 |
| 48) Methylnaphthalenes (To... | 7.462 | 142 | 1284243m | 353.1849 | ng | |
| 49) 1,1'-Biphenyl | 7.837 | 154 | 747233 | 154.0343 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.596 | 216 | 245047 | 161.4428 | ng | 97 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 123606 | 147.7733 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.682 | 196 | 182340 | 188.1383 | ng | 100 |
| 54) 2,4,5-Trichlorophenol | 7.719 | 196 | 198241m | 176.8584 | ng | |
| 56) 2-Chloronaphthalene | 7.864 | 162 | 602277 | 185.0477 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.142 | 156 | 418612 | 149.5364 | ng | 90 |
| 58) Dimethylnaphthalenes (... | 8.142 | 156 | 418612 | 149.5364 | ng | 90 |
| 59) Diphenyl Ether | 7.917 | 170 | 421839 | 175.5702 | ng | 78 |
| 60) 2-Nitroaniline | 7.944 | 65 | 209542 | 197.7778 | ng | 38 |
| 61) Coumarin | 8.136 | 146 | 219191 | 156.6831 | ng | 87 |
| 62) Acenaphthylene | 8.222 | 152 | 934039 | 182.7090 | ng | 99 |
| 63) Dimethylphthalate | 8.088 | 163 | 670986 | 182.5915 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.147 | 165 | 134914 | 164.4850 | ng | 58 |
| 65) Acenaphthene | 8.372 | 153 | 592152 | 185.4437 | ng | 97 |

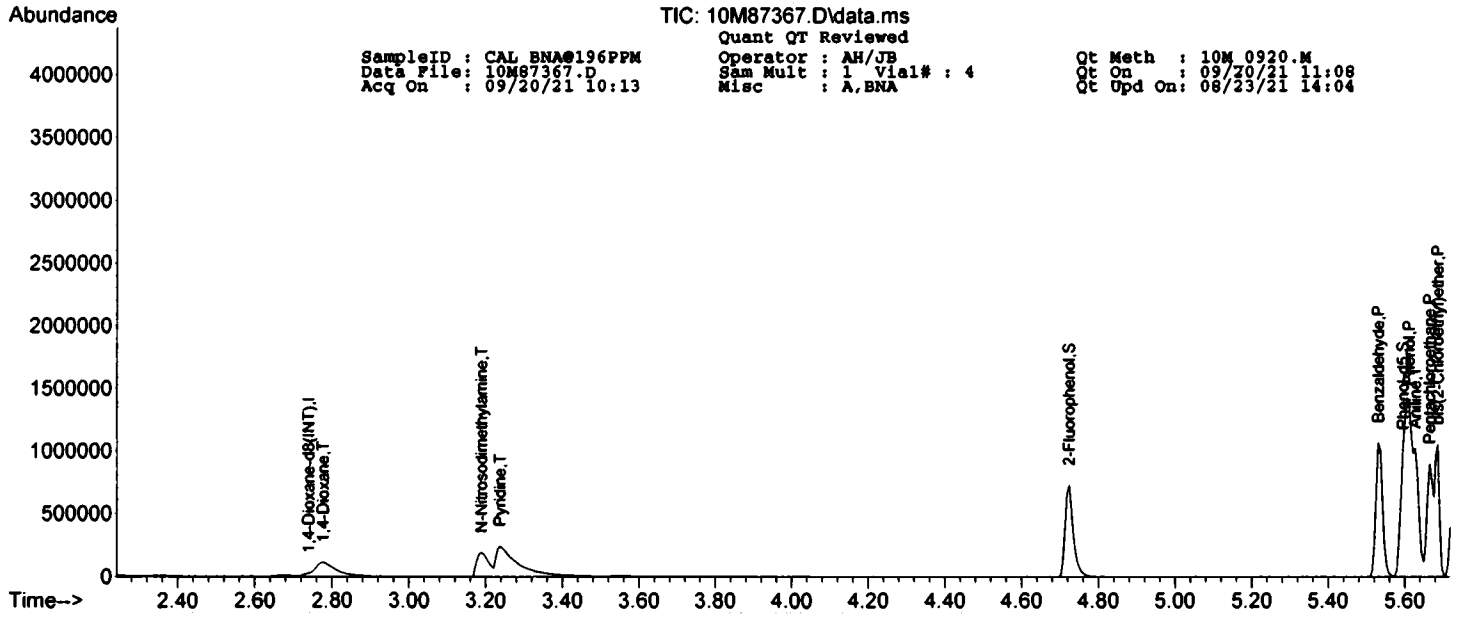
Quantitation Report (QT Reviewed)

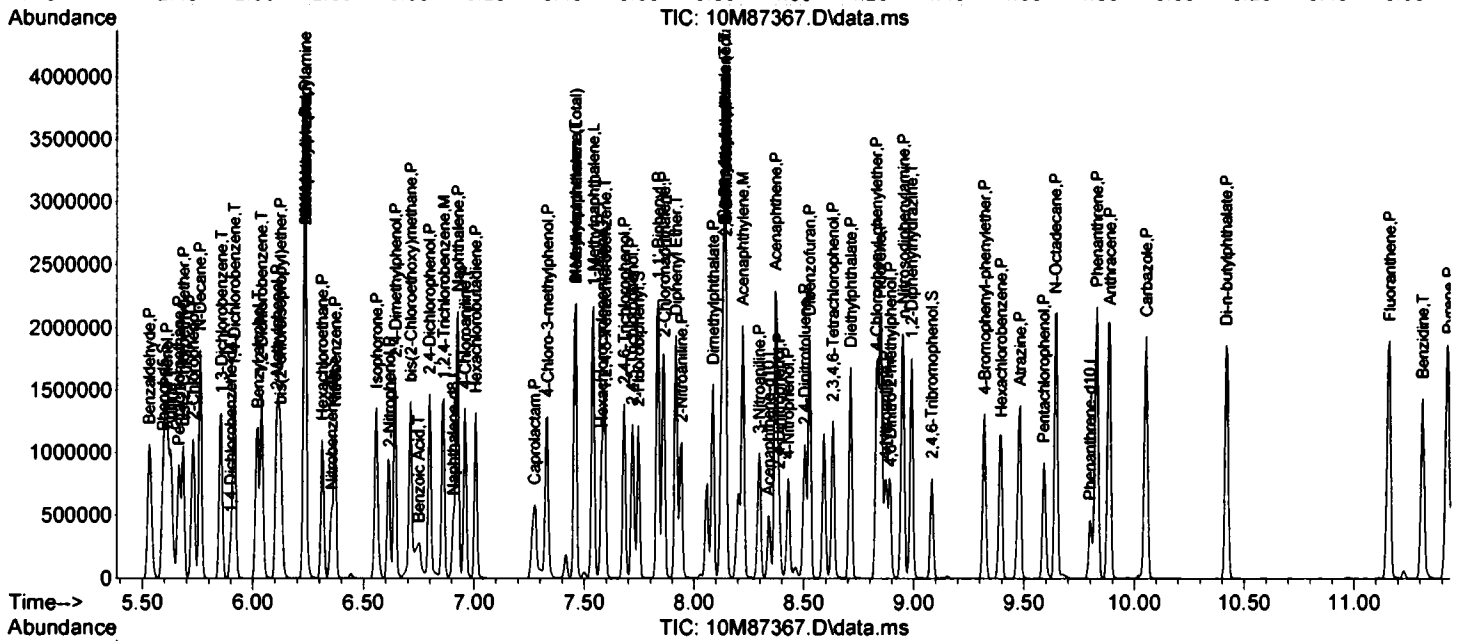
SampleID : CAL BNA@196PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87367.D  Sam Mult : 1  Vial# : 4  Qt On : 09/20/21 11:08
Acq On : 09/20/21 10:13  Misc : A,BNA  Qt Upd On: 08/23/21 14:04

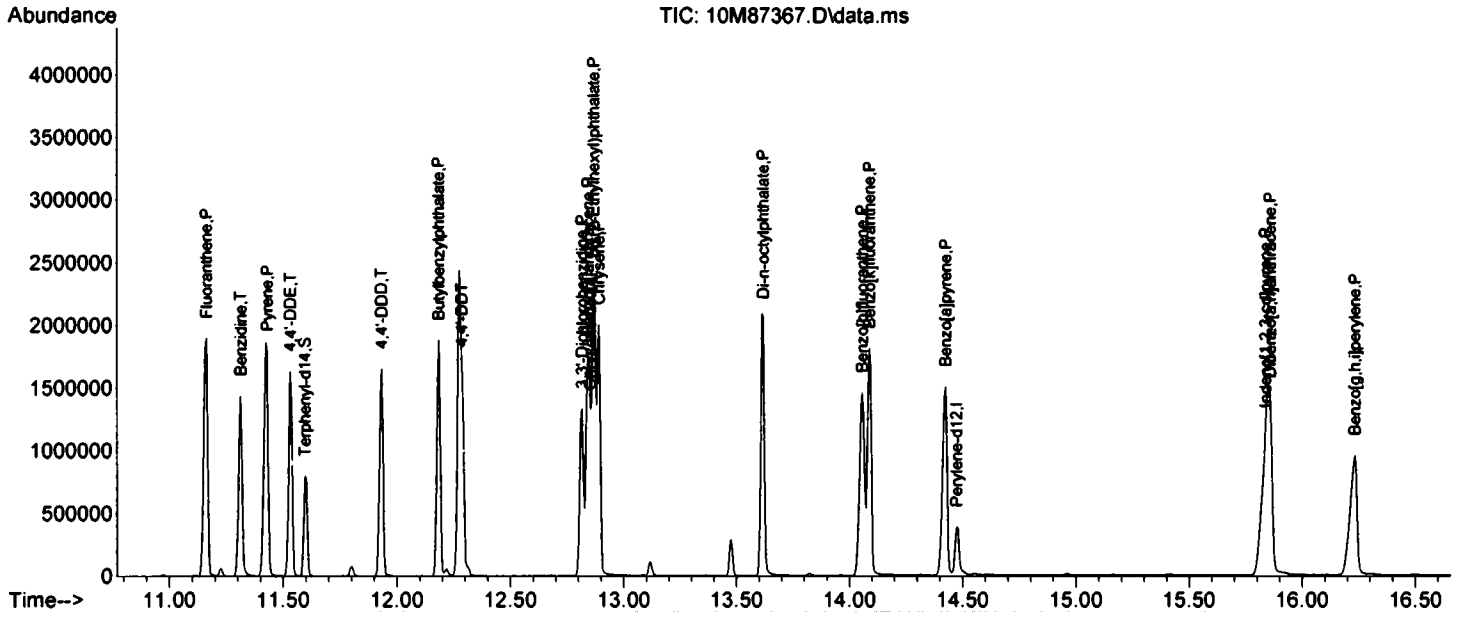
Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.297 | 138 | 194597 | 204.1592 | ng | 72 |
| 67) | 2,4-Dinitrophenol | 8.388 | 184 | 97785 | 181.0299 | ng | 36 |
| 68) | Dibenzofuran | 8.527 | 168 | 838268 | 175.4486 | ng | 87 |
| 69) | 2,4-Dinitrotoluene | 8.505 | 165 | 222847 | 199.4252 | ng | 59 |
| 70) | 4-Nitrophenol | 8.430 | 65 | 125099 | 182.8644 | ng | 94 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.634 | 232 | 149751 | 180.0124 | ng | 88 |
| 72) | Fluorene | 8.848 | 166 | 670992 | 176.5925 | ng | 97 |
| 73) | 4-Chlorophenyl-phenyle... | 8.832 | 204 | 295205 | 167.9188 | ng | 90 |
| 74) | Diethylphthalate | 8.714 | 149 | 665602 | 190.3380 | ng | 97 |
| 75) | 4-Nitroaniline | 8.874 | 138 | 217110 | 218.7258 | ng | 66 |
| 76) | Atrazine | 9.484 | 200 | 180163 | 175.5432 | ng | 96 |
| 78) | 4,6-Dinitro-2-methylph... | 8.896 | 198 | 126896 | 206.5463 | ng | 70 |
| 79) | n-Nitrosodiphenylamine | 8.955 | 169 | 593145 | 188.4260 | ng | 97 |
| 81) | 1,2-Diphenylhydrazine | 8.992 | 77 | 732795 | 220.4380 | ng | 78 |
| 82) | 4-Bromophenyl-phenylether | 9.324 | 248 | 160979 | 173.8145 | ng | 88 |
| 83) | Hexachlorobenzene | 9.399 | 284 | 166703 | 168.2946 | ng | 68 |
| 84) | N-Octadecane | 9.645 | 57 | 458318 | 191.6202 | ng | 86 |
| 85) | Pentachlorophenol | 9.591 | 266 | 112391 | 173.6836 | ng | 97 |
| 86) | Phenanthrene | 9.832 | 178 | 945452 | 180.5607 | ng | 99 |
| 87) | Anthracene | 9.891 | 178 | 984789 | 185.4453 | ng | 100 |
| 88) | Carbazole | 10.056 | 167 | 954637 | 191.6770 | ng | 98 |
| 89) | Di-n-butylphthalate | 10.420 | 149 | 1138153 | 203.4983 | ng | 97 |
| 90) | Fluoranthene | 11.164 | 202 | 955741 | 175.1431 | ng | 97 |
| 92) | Pyrene | 11.431 | 202 | 979376 | 199.9667 | ng | 92 |
| 93) | Benzidine | 11.313 | 184 | 631793 | 224.0257 | ng | 90 |
| 95) | 4,4'-DDE | 11.533 | 246 | 195955 | 205.1154 | ng | 91 |
| 96) | 4,4'-DDD | 11.934 | 235 | 339710 | 209.9453 | ng | 92 |
| 97) | Butylbenzylphthalate | 12.185 | 149 | 496359 | 235.3646 | ng | 72 |
| 98) | 4,4'-DDT | 12.287 | 235 | 285428 | 199.4281 | ng | 95 |
| 99) | 3,3'-Dichlorobenzidine | 12.816 | 252 | 311935 | 201.1524 | ng | 97 |
| 100) | Benzo[a]anthracene | 12.843 | 228 | 831018 | 195.5182 | ng | 99 |
| 101) | Chrysene | 12.891 | 228 | 832021 | 193.8956 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.870 | 149 | 682731 | 227.4253 | ng | 92 |
| 104) | Di-n-octylphthalate | 13.619 | 149 | 1164742 | 237.6967 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 14.057 | 252 | 824095 | 200.7594 | ng | 96 |
| 106) | Benzo[k]fluoranthene | 14.089 | 252 | 775787m | 184.8511 | ng | |
| 107) | Benzo[a]pyrene | 14.426 | 252 | 763982 | 191.7939 | ng | 95 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.838 | 276 | 853812 | 197.5756 | ng | 97 |
| 109) | Dibenzo[a,h]anthracene | 15.860 | 278 | 732272 | 195.2668 | ng | 96 |
| 110) | Benzo[g,h,i]perylene | 16.234 | 276 | 726141 | 196.0412 | ng | 88 |

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


Abundance
TIC: 10M87367.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@196PPM
Data File: 10M87367.D
Acq On : 09/20/21 10:13
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 11:08
Qt Upd On: 08/23/21 14:04
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->


Abundance
TIC: 10M87367.D\data.ms
Benzoic Acid,T
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
Acenaphthene,P
Dimethylphthalate,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->


Abundance
TIC: 10M87367.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(e)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87372.D  Sam Mult : 1 Vial# : 9  Qt On : 09/20/21 12:24
Acq On : 09/20/21 12:04  Misc : A,BNA  Qt Upd On: 08/23/21 14:04

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 30055 | 40.00 | ng | -0.02 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 60258 | 40.00 | ng | -0.02 |
| 31) Naphthalene-d8 | 6.906 | 136 | 248930 | 40.00 | ng | -0.01 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 121026 | 40.00 | ng | -0.02 |
| 77) Phenanthrene-d10 | 9.794 | 188 | 214671 | 40.00 | ng | -0.03 |
| 91) Chrysene-d12 | 12.843 | 240 | 164640 | 40.00 | ng | -0.03 |
| 103) Perylene-d12 | 14.475 | 264 | 171953 | 40.00 | ng | -0.03 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 0.000 | 112 | 0 | 0.00 | ng | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 16) Phenol-d5 | 0.000 | 99 | 0d | 0.00 | ng | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 32) Nitrobenzene-d5 | 0.000 | 128 | 0 | 0.00 | ng | |
| Spiked Amount 50.000 | | | Recovery = | 0.00% | | |
| 55) 2-Fluorobiphenyl | 0.000 | 172 | 0d | 0.00 | ng | |
| Spiked Amount 50.000 | | | Recovery = | 0.00% | | |
| 80) 2,4,6-Tribromophenol | 0.000 | 330 | 0 | 0.00 | ng | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 94) Terphenyl-d14 | 0.000 | 244 | 0d | 0.00 | ng | |
| Spiked Amount 50.000 | | | Recovery = | 0.00% | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.788 | 88 | 319m | 0.4408 | ng | |
| 9) Pyridine | 0.000 | | 0 | N.D. | | |
| 10) N-Nitrosodimethylamine | 0.000 | | 0 | N.D. | | |
| 12) Benzaldehyde | 0.000 | | 0 | N.D. d | | |
| 13) Aniline | 5.628 | 93 | 1306 | 0.4460 | ng | 62 |
| 14) Pentachloroethane | 0.000 | | 0 | N.D. | | |
| 15) bis(2-Chloroethyl)ether | 5.676 | 93 | 984 | 0.5154 | ng | 76 |
| 17) Phenol | 0.000 | | 0 | N.D. d | | |
| 18) 2-Chlorophenol | 0.000 | | 0 | N.D. d | | |
| 19) N-Decane | 0.000 | | 0 | N.D. d | | |
| 20) 1,3-Dichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 22) 1,4-Dichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 23) 1,2-Dichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 24) Benzyl alcohol | 0.000 | | 0 | N.D. d | | |
| 25) bis(2-chloroisopropyl)... | 0.000 | | 0 | N.D. d | | |
| 26) 2-Methylphenol | 6.104 | 108 | 843 | 0.4776 | ng | 85 |
| 27) Acetophenone | 0.000 | | 0 | N.D. d | | |
| 28) Hexachloroethane | 0.000 | | 0 | N.D. | | |
| 29) N-Nitroso-di-n-propyla... | 6.222 | 70 | 577 | 0.4597 | ng | 95 |
| 30) 3&4-Methylphenol | 6.232 | 108 | 765 | 0.4286 | ng | 91 |
| 33) Nitrobenzene | 0.000 | | 0 | N.D. d | | |
| 34) Isophorone | 0.000 | | 0 | N.D. d | | |
| 35) 2-Nitrophenol | 0.000 | | 0 | N.D. | | |
| 36) 2,4-Dimethylphenol | 6.639 | 107 | 743 | 0.3832 | ng | 82 |
| 37) Benzoic Acid | 0.000 | | 0 | N.D. | | |
| 38) bis(2-Chloroethoxy)met... | 0.000 | | 0 | N.D. d | | |
| 39) 2,4-Dichlorophenol | 6.799 | 162 | 512 | 0.3147 | ng | 83 |
| 40) 1,2,4-Trichlorobenzene | 0.000 | | 0 | N.D. d | | |
| 41) Naphthalene | 6.922 | 128 | 3318 | 0.5309 | ng | 100 |
| 42) 4-Chloroaniline | 6.960 | 127 | 1034 | 0.4437 | ng | 93 |
| 43) Hexachlorobutadiene | 0.000 | | 0 | N.D. | | |
| 44) Caprolactam | 0.000 | | 0 | N.D. | | |
| 45) 4-Chloro-3-methylphenol | 0.000 | | 0 | N.D. d | | |
| 46) 2-Methylnaphthalene | 0.000 | | 0 | N.D. d | | |
| 47) 1-Methylnaphthalene | 0.000 | | 0 | N.D. d | | |
| 48) Methylnaphthalenes (To... | 0.000 | | 0 | N.D. d | | |
| 49) 1,1'-Biphenyl | 0.000 | | 0 | N.D. d | | |
| 51) 1,2,4,5-Tetrachloroben... | 0.000 | | 0 | N.D. d | | |
| 52) Hexachlorocyclopentadiene | 0.000 | | 0 | N.D. | | |
| 53) 2,4,6-Trichlorophenol | 0.000 | | 0 | N.D. | | |
| 54) 2,4,5-Trichlorophenol | 0.000 | | 0 | N.D. | | |
| 56) 2-Chloronaphthalene | 0.000 | | 0 | N.D. d | | |
| 57) 1,4-Dimethylnaphthalene | 0.000 | | 0 | N.D. d | | |
| 58) Dimethylnaphthalenes (... | 0.000 | | 0 | N.D. d | | |
| 59) Diphenyl Ether | 0.000 | | 0 | N.D. d | | |
| 60) 2-Nitroaniline | 0.000 | | 0 | N.D. | | |
| 61) Coumarin | 0.000 | | 0 | N.D. d | | |
| 62) Acenaphthylene | 0.000 | | 0 | N.D. d | | |
| 63) Dimethylphthalate | 0.000 | | 0 | N.D. d | | |
| 64) 2,6-Dinitrotoluene | 0.000 | | 0 | N.D. d | | |
| 65) Acenaphthene | 0.000 | | 0 | N.D. d | | |

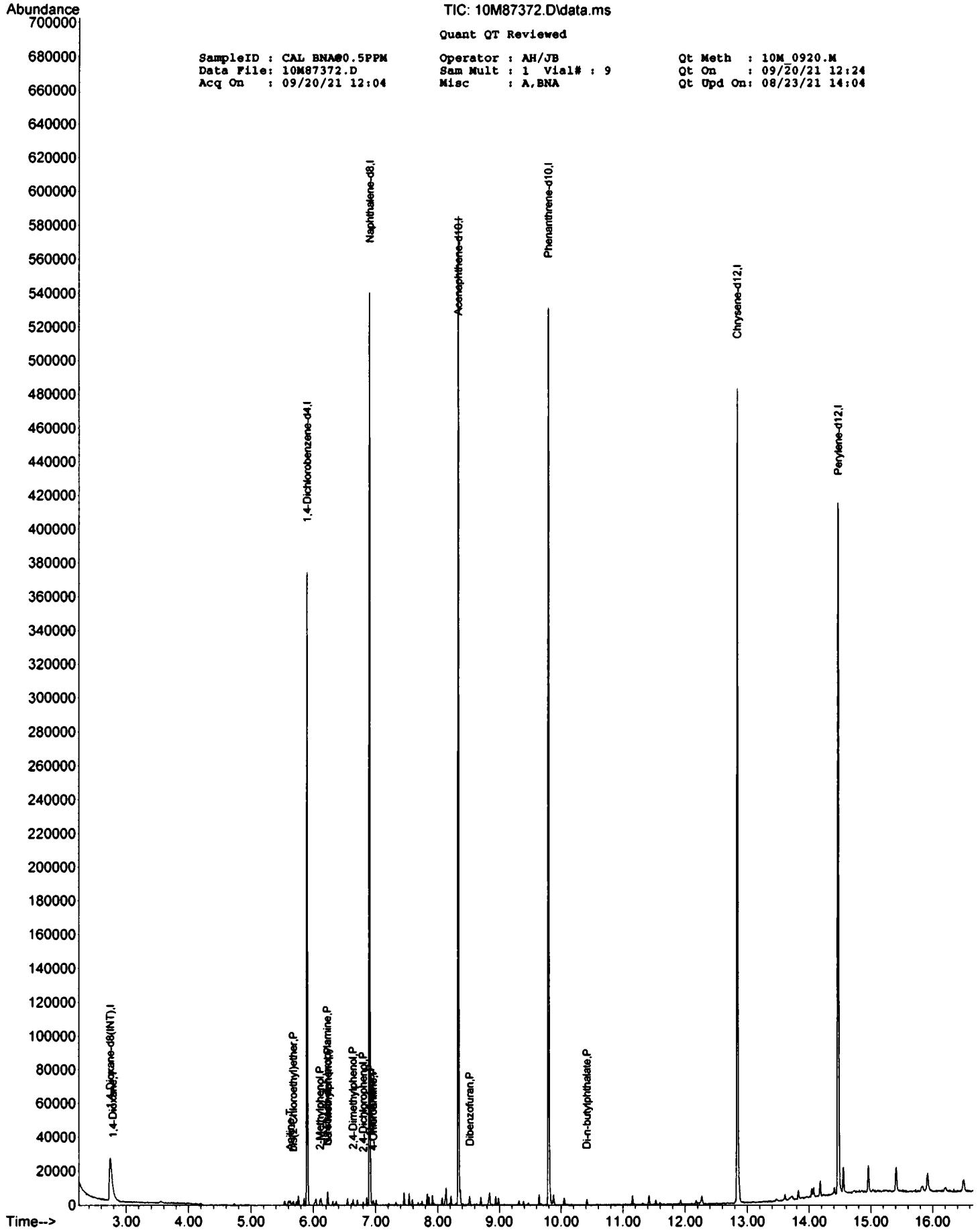
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87372.D  Sam Mult : 1  Vial# : 9  Qt On : 09/20/21 12:24
Acq On : 09/20/21 12:04  Misc : A,BNA  Qt Upd On: 08/23/21 14:04

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 0.000 | | 0 | N.D. | | |
| 67) | 2,4-Dinitrophenol | 0.000 | | 0 | N.D. | | |
| 68) | Dibenzofuran | 8.521 | 168 | 2739 | 0.5245 | ng | 91 |
| 69) | 2,4-Dinitrotoluene | 0.000 | | 0 | N.D. d | | |
| 70) | 4-Nitrophenol | 0.000 | | 0 | N.D. d | | |
| 71) | 2,3,4,6-Tetrachlorophenol | 0.000 | | 0 | N.D. | | |
| 72) | Fluorene | 0.000 | | 0 | N.D. d | | |
| 73) | 4-Chlorophenyl-phenyle... | 0.000 | | 0 | N.D. d | | |
| 74) | Diethylphthalate | 0.000 | | 0 | N.D. d | | |
| 75) | 4-Nitroaniline | 0.000 | | 0 | N.D. | | |
| 76) | Atrazine | 0.000 | | 0 | N.D. | | |
| 78) | 4,6-Dinitro-2-methylph... | 0.000 | | 0 | N.D. | | |
| 79) | n-Nitrosodiphenylamine | 0.000 | | 0 | N.D. d | | |
| 81) | 1,2-Diphenylhydrazine | 0.000 | | 0 | N.D. d | | |
| 82) | 4-Bromophenyl-phenylether | 0.000 | | 0 | N.D. | | |
| 83) | Hexachlorobenzene | 0.000 | | 0 | N.D. | | |
| 84) | N-Octadecane | 0.000 | | 0 | N.D. d | | |
| 85) | Pentachlorophenol | 0.000 | | 0 | N.D. | | |
| 86) | Phenanthrene | 0.000 | | 0 | N.D. d | | |
| 87) | Anthracene | 0.000 | | 0 | N.D. d | | |
| 88) | Carbazole | 0.000 | | 0 | N.D. d | | |
| 89) | Di-n-butylphthalate | 10.415 | 149 | 2523 | 0.4095 | ng | 87 |
| 90) | Fluoranthene | 0.000 | | 0 | N.D. d | | |
| 92) | Pyrene | 0.000 | | 0 | N.D. d | | |
| 93) | Benzidine | 0.000 | | 0 | N.D. d | | |
| 95) | 4,4'-DDE | 0.000 | | 0 | N.D. d | | |
| 96) | 4,4'-DDD | 0.000 | | 0 | N.D. d | | |
| 97) | Butylbenzylphthalate | 0.000 | | 0 | N.D. d | | |
| 98) | 4,4'-DDT | 0.000 | | 0 | N.D. d | | |
| 99) | 3,3'-Dichlorobenzidine | 0.000 | | 0 | N.D. d | | |
| 100) | Benzo[a]anthracene | 0.000 | | 0 | N.D. d | | |
| 101) | Chrysene | 0.000 | | 0 | N.D. d | | |
| 102) | bis(2-Ethylhexyl)phtha... | 0.000 | | 0 | N.D. d | | |
| 104) | Di-n-octylphthalate | 0.000 | | 0 | N.D. d | | |
| 105) | Benzo[b]fluoranthene | 0.000 | | 0 | N.D. d | | |
| 106) | Benzo[k]fluoranthene | 0.000 | | 0 | N.D. d | | |
| 107) | Benzo[a]pyrene | 0.000 | | 0 | N.D. d | | |
| 108) | Indeno[1,2,3-cd]pyrene | 0.000 | | 0 | N.D. d | | |
| 109) | Dibenzo[a,h]anthracene | 0.000 | | 0 | N.D. d | | |
| 110) | Benzo[g,h,i]perylene | 0.000 | | 0 | N.D. d | | |

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


Abundance
TIC: 10M87372.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@0.5PPM
Data File: 10M87372.D
Acq On : 09/20/21 12:04
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 12:24
Qt Upd On: 08/23/21 14:04
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
1,4-Dichlorobenzene-d4,I
1,4-Dioxane-d8(INT),I
2-Methylphenol,P
2,4-Dimethylphenol,P
Dibenzofuran,P
Di-n-butylphthalate,P
Time-->

TxtDfile: 10M87374.D ICV FORM Date/Time: 09/20/21 13:25 1091738 1108

| Compound | bytCol Num: | bytMr Num: | Type | sngConc: | Exp Conc | Rec | Flag | sngLoLim: | sngHiLim: |
|---|---|---|---|---|---|---|---|---|---|
| 1.4-Dioxane | 1 | 0 | | 51.3655 | 50 | 103 | | 70 | 130 |
| Pyridine | 1 | 0 | | 60.3738 | 50 | 121 | | 50 | 150 |
| N-Nitrosodimethylamine | 1 | 0 | | 51.4429 | 50 | 103 | | 70 | 130 |
| Benzaldehyde | 1 | 0 | | 50.4431 | 50 | 101 | | 50 | 150 |
| Aniline | 1 | 0 | | 53.5703 | 50 | 107 | | 50 | 150 |
| Pentachloroethane | 1 | 0 | | 49.425 | 50 | 99 | | 70 | 130 |
| bis(2-Chloroethyl)ether | 1 | 0 | | 52.5697 | 50 | 105 | | 70 | 130 |
| Phenol | 1 | 0 | | 50.0365 | 50 | 100 | | 70 | 130 |
| 2-Chlorophenol | 1 | 0 | | 50.2303 | 50 | 100 | | 70 | 130 |
| 1.3-Dichlorobenzene | 1 | 0 | | 53.2082 | 50 | 106 | | 70 | 130 |
| 1.4-Dichlorobenzene | 1 | 0 | | 54.796 | 50 | 110 | | 70 | 130 |
| 1.2-Dichlorobenzene | 1 | 0 | | 54.4421 | 50 | 109 | | 70 | 130 |
| Benzyl alcohol | 1 | 0 | | 51.4462 | 50 | 103 | | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 0 | | 55.6596 | 50 | 111 | | 70 | 130 |
| 2-Methylphenol | 1 | 0 | | 49.2721 | 50 | 99 | | 70 | 130 |
| Acetophenone | 1 | 0 | | 50.5094 | 50 | 101 | | 70 | 130 |
| Hexachloroethane | 1 | 0 | | 54.1628 | 50 | 108 | | 70 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 0 | | 58.142 | 50 | 116 | | 70 | 130 |
| 3&4-Methylphenol | 1 | 0 | | 53.1959 | 50 | 106 | | 70 | 130 |
| Nitrobenzene | 1 | 0 | | 56.4048 | 50 | 113 | | 70 | 130 |
| Isophorone | 1 | 0 | | 53.8491 | 50 | 108 | | 70 | 130 |
| 2-Nitrophenol | 1 | 0 | | 52.3372 | 50 | 105 | | 70 | 130 |
| 2.4-Dimethylphenol | 1 | 0 | | 54.8882 | 50 | 110 | | 70 | 130 |
| Benzoic Acid | 1 | 0 | | 48.7767 | 50 | 98 | | 70 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 0 | | 56.2218 | 50 | 112 | | 70 | 130 |
| 2.4-Dichlorophenol | 1 | 0 | | 51.9849 | 50 | 104 | | 70 | 130 |
| 1.2.4-Trichlorobenzene | 1 | 0 | | 55.3328 | 50 | 111 | | 70 | 130 |
| Naphthalene | 1 | 0 | | 47.2303 | 50 | 94 | | 70 | 130 |
| 4-Chloroaniline | 1 | 0 | | 52.0542 | 50 | 104 | | 50 | 150 |
| Hexachlorobutadiene | 1 | 0 | | 56.8866 | 50 | 114 | | 70 | 130 |
| Caprolactam | 1 | 0 | | 54.5152 | 50 | 109 | | 70 | 130 |
| 4-Chloro-3-methylphenol | 1 | 0 | | 51.6797 | 50 | 103 | | 70 | 130 |
| 2-Methylnaphthalene | 1 | 0 | | 47.3515 | 50 | 95 | | 70 | 130 |
| 1-Methylnaphthalene | 1 | 0 | | 55.3219 | 50 | 111 | | 70 | 130 |
| 1.1'-Biphenyl | 1 | 0 | | 50.7308 | 50 | 101 | | 70 | 130 |
| 1.2.4.5-Tetrachlorobenzene | 1 | 0 | | 50.7584 | 50 | 102 | | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 0 | | 63.5372 | 50 | 127 | | 70 | 130 |
| 2.4.6-Trichlorophenol | 1 | 0 | | 53.3599 | 50 | 107 | | 70 | 130 |
| 2.4.5-Trichlorophenol | 1 | 0 | | 52.4088 | 50 | 105 | | 70 | 130 |
| 2-Chloronaphthalene | 1 | 0 | | 55.8301 | 50 | 112 | | 70 | 130 |
| 1.4-Dimethylnaphthalene | 1 | 0 | | 53.4277 | 50 | 107 | | 70 | 130 |
| Diphenyl Ether | 1 | 0 | | 49.2109 | 50 | 98 | | 70 | 130 |
| 2-Nitroaniline | 1 | 0 | | 51.5187 | 50 | 103 | | 70 | 130 |
| Acenaphthylene | 1 | 0 | | 54.1729 | 50 | 108 | | 70 | 130 |
| Dimethylphthalate | 1 | 0 | | 55.9461 | 50 | 112 | | 70 | 130 |
| 2.6-Dinitrotoluene | 1 | 0 | | 58.8474 | 50 | 118 | | 70 | 130 |
| Acenaphthene | 1 | 0 | | 48.8766 | 50 | 98 | | 70 | 130 |
| 3-Nitroaniline | 1 | 0 | | 50.5195 | 50 | 101 | | 70 | 130 |
| 2.4-Dinitrophenol | 1 | 0 | | 52.4004 | 50 | 105 | | 70 | 130 |
| Dibenzofuran | 1 | 0 | | 47.8194 | 50 | 96 | | 70 | 130 |
| 2.4-Dinitrotoluene | 1 | 0 | | 57.6017 | 50 | 115 | | 70 | 130 |
| 4-Nitrophenol | 1 | 0 | | 49.9639 | 50 | 100 | | 70 | 130 |
| 2.3.4.6-Tetrachlorophenol | 1 | 0 | | 51.3064 | 50 | 103 | | 70 | 130 |
| Fluorene | 1 | 0 | | 50.8026 | 50 | 102 | | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 0 | | 56.621 | 50 | 113 | | 70 | 130 |
| Diethylphthalate | 1 | 0 | | 56.1137 | 50 | 112 | | 70 | 130 |
| 4-Nitroaniline | 1 | 0 | | 49.544 | 50 | 99 | | 70 | 130 |
| Atrazine | 1 | 0 | | 53.7176 | 50 | 107 | | 70 | 130 |
| 4.6-Dinitro-2-methylphenol | 1 | 0 | | 50.1544 | 50 | 100 | | 70 | 130 |
| n-Nitrosodiphenylamine | 1 | 0 | | 46.4229 | 50 | 93 | | 70 | 130 |
| 1.2-Diphenylhydrazine | 1 | 0 | | 59.2376 | 50 | 118 | | 70 | 130 |
| 4-Bromophenyl-phenylether | 1 | 0 | | 57.4229 | 50 | 115 | | 70 | 130 |
| Hexachlorobenzene | 1 | 0 | | 55.9409 | 50 | 112 | | 70 | 130 |
| Pentachlorophenol | 1 | 0 | | 51.2832 | 50 | 103 | | 70 | 130 |
| Phenanthrene | 1 | 0 | | 48.749 | 50 | 97 | | 70 | 130 |
| Anthracene | 1 | 0 | | 48.9883 | 50 | 98 | | 70 | 130 |
| Carbazole | 1 | 0 | | 56.8149 | 50 | 114 | | 70 | 130 |
| Di-n-butylphthalate | 1 | 0 | | 56.8378 | 50 | 114 | | 70 | 130 |
| Fluoranthene | 1 | 0 | | 49.8291 | 50 | 100 | | 70 | 130 |
| Pyrene | 1 | 0 | | 51.5018 | 50 | 103 | | 70 | 130 |
| Benzidine | 1 | 0 | | 42.275 | 50 | 85 | | 50 | 150 |
| Butylbenzylphthalate | 1 | 0 | | 58.2831 | 50 | 117 | | 70 | 130 |
| 3.3'-Dichlorobenzidine | 1 | 0 | | 50.3006 | 50 | 101 | | 50 | 150 |
| Benzo[a]anthracene | 1 | 0 | | 48.7334 | 50 | 97 | | 70 | 130 |
| Chrysene | 1 | 0 | | 47.3168 | 50 | 95 | | 70 | 130 |
| bis(2-Ethylhexyl)phthalate | 1 | 0 | | 59.7783 | 50 | 120 | | 70 | 130 |
| Di-n-octylphthalate | 1 | 0 | | 58.3718 | 50 | 117 | | 70 | 130 |
| Benzo[b]fluoranthene | 1 | 0 | | 49.5062 | 50 | 99 | | 70 | 130 |
| Benzo[k]fluoranthene | 1 | 0 | | 49.3632 | 50 | 99 | | 70 | 130 |
| Benzo[a]pyrene | 1 | 0 | | 51.9683 | 50 | 104 | | 70 | 130 |
| Indeno[1.2.3-cd]pyrene | 1 | 0 | | 49.6003 | 50 | 99 | | 70 | 130 |
| Dibenzo[a.h]anthracene | 1 | 0 | | 50.0662 | 50 | 100 | | 70 | 130 |
| Benzo[g.h.i]perylene | 1 | 0 | | 50.6516 | 50 | 101 | | 70 | 130 |

TxtDfile: 5M117930.D ICV FORM Date/Time: 09/20/21 13:37 1091738 1109

| Compound | bytCol Num: | bytMr Num: | Type | sngConc: | Exp Conc | Rec | Flag | sngLoLim: | sngHiLim: |
|---|---|---|---|---|---|---|---|---|---|
| 1.4-Dioxane | 1 | 0 | | 52.9435 | 50 | 106 | | 70 | 130 |
| Pyridine | 1 | 0 | | 63.9119 | 50 | 128 | | 50 | 150 |
| N-Nitrosodimethylamine | 1 | 0 | | 54.5684 | 50 | 109 | | 70 | 130 |
| Benzaldehyde | 1 | 0 | | 55.6764 | 50 | 111 | | 50 | 150 |
| Aniline | 1 | 0 | | 58.3244 | 50 | 117 | | 50 | 150 |
| Pentachloroethane | 1 | 0 | | 55.2573 | 50 | 111 | | 70 | 130 |
| bis(2-Chloroethyl)ether | 1 | 0 | | 57.8909 | 50 | 116 | | 70 | 130 |
| Phenol | 1 | 0 | | 56.0893 | 50 | 112 | | 70 | 130 |
| 2-Chlorophenol | 1 | 0 | | 55.2342 | 50 | 110 | | 70 | 130 |
| 1.3-Dichlorobenzene | 1 | 0 | | 58.8697 | 50 | 118 | | 70 | 130 |
| 1.4-Dichlorobenzene | 1 | 0 | | 53.765 | 50 | 108 | | 70 | 130 |
| 1.2-Dichlorobenzene | 1 | 0 | | 55.3313 | 50 | 111 | | 70 | 130 |
| Benzyl alcohol | 1 | 0 | | 53.2308 | 50 | 106 | | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 0 | | 57.6077 | 50 | 115 | | 70 | 130 |
| 2-Methylphenol | 1 | 0 | | 51.077 | 50 | 102 | | 70 | 130 |
| Acetophenone | 1 | 0 | | 49.7547 | 50 | 100 | | 70 | 130 |
| Hexachloroethane | 1 | 0 | | 54.6307 | 50 | 109 | | 70 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 0 | | 57.1226 | 50 | 114 | | 70 | 130 |
| 3&4-Methylphenol | 1 | 0 | | 52.6262 | 50 | 105 | | 70 | 130 |
| Nitrobenzene | 1 | 0 | | 56.3939 | 50 | 113 | | 70 | 130 |
| Isophorone | 1 | 0 | | 55.2742 | 50 | 111 | | 70 | 130 |
| 2-Nitrophenol | 1 | 0 | | 53.0945 | 50 | 106 | | 70 | 130 |
| 2.4-Dimethylphenol | 1 | 0 | | 54.9919 | 50 | 110 | | 70 | 130 |
| Benzoic Acid | 1 | 0 | | 46.6146 | 50 | 93 | | 70 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 0 | | 55.2139 | 50 | 110 | | 70 | 130 |
| 2.4-Dichlorophenol | 1 | 0 | | 54.1067 | 50 | 108 | | 70 | 130 |
| 1.2.4-Trichlorobenzene | 1 | 0 | | 55.9869 | 50 | 112 | | 70 | 130 |
| Naphthalene | 1 | 0 | | 46.6918 | 50 | 93 | | 70 | 130 |
| 4-Chloroaniline | 1 | 0 | | 52.783 | 50 | 106 | | 50 | 150 |
| Hexachlorobutadiene | 1 | 0 | | 57.9658 | 50 | 116 | | 70 | 130 |
| Caprolactam | 1 | 0 | | 52.6055 | 50 | 105 | | 70 | 130 |
| 4-Chloro-3-methylphenol | 1 | 0 | | 52.1126 | 50 | 104 | | 70 | 130 |
| 2-Methylnaphthalene | 1 | 0 | | 47.5879 | 50 | 95 | | 70 | 130 |
| 1-Methylnaphthalene | 1 | 0 | | 54.4674 | 50 | 109 | | 70 | 130 |
| 1.1'-Biphenyl | 1 | 0 | | 51.0071 | 50 | 102 | | 70 | 130 |
| 1.2.4.5-Tetrachlorobenzene | 1 | 0 | | 50.4359 | 50 | 101 | | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 0 | | 64.684 | 50 | 129 | | 70 | 130 |
| 2.4.6-Trichlorophenol | 1 | 0 | | 52.2708 | 50 | 105 | | 70 | 130 |
| 2.4.5-Trichlorophenol | 1 | 0 | | 53.5532 | 50 | 107 | | 70 | 130 |
| 2-Chloronaphthalene | 1 | 0 | | 57.246 | 50 | 114 | | 70 | 130 |
| 1.4-Dimethylnaphthalene | 1 | 0 | | 52.9007 | 50 | 106 | | 70 | 130 |
| Diphenyl Ether | 1 | 0 | | 50.6271 | 50 | 101 | | 70 | 130 |
| 2-Nitroaniline | 1 | 0 | | 51.3977 | 50 | 103 | | 70 | 130 |
| Acenaphthylene | 1 | 0 | | 54.6685 | 50 | 109 | | 70 | 130 |
| Dimethylphthalate | 1 | 0 | | 56.7515 | 50 | 114 | | 70 | 130 |
| 2.6-Dinitrotoluene | 1 | 0 | | 57.2912 | 50 | 115 | | 70 | 130 |
| Acenaphthene | 1 | 0 | | 48.6969 | 50 | 97 | | 70 | 130 |
| 3-Nitroaniline | 1 | 0 | | 51.2249 | 50 | 102 | | 70 | 130 |
| 2.4-Dinitrophenol | 1 | 0 | | 50.0886 | 50 | 100 | | 70 | 130 |
| Dibenzofuran | 1 | 0 | | 48.8844 | 50 | 98 | | 70 | 130 |
| 2.4-Dinitrotoluene | 1 | 0 | | 55.4004 | 50 | 111 | | 70 | 130 |
| 4-Nitrophenol | 1 | 0 | | 54.0651 | 50 | 108 | | 70 | 130 |
| 2.3.4.6-Tetrachlorophenol | 1 | 0 | | 53.5003 | 50 | 107 | | 70 | 130 |
| Fluorene | 1 | 0 | | 51.1022 | 50 | 102 | | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 0 | | 57.9589 | 50 | 116 | | 70 | 130 |
| Diethylphthalate | 1 | 0 | | 58.2042 | 50 | 116 | | 70 | 130 |
| 4-Nitroaniline | 1 | 0 | | 52.003 | 50 | 104 | | 70 | 130 |
| Atrazine | 1 | 0 | | 54.4487 | 50 | 109 | | 70 | 130 |
| 4.6-Dinitro-2-methylphenol | 1 | 0 | | 48.0583 | 50 | 96 | | 70 | 130 |
| n-Nitrosodiphenylamine | 1 | 0 | | 46.957 | 50 | 94 | | 70 | 130 |
| 1.2-Diphenylhydrazine | 1 | 0 | | 59.1195 | 50 | 118 | | 70 | 130 |
| 4-Bromophenyl-phenylether | 1 | 0 | | 56.8127 | 50 | 114 | | 70 | 130 |
| Hexachlorobenzene | 1 | 0 | | 57.6163 | 50 | 115 | | 70 | 130 |
| Pentachlorophenol | 1 | 0 | | 52.0731 | 50 | 104 | | 70 | 130 |
| Phenanthrene | 1 | 0 | | 49.661 | 50 | 99 | | 70 | 130 |
| Anthracene | 1 | 0 | | 50.1984 | 50 | 100 | | 70 | 130 |
| Carbazole | 1 | 0 | | 57.9514 | 50 | 116 | | 70 | 130 |
| Di-n-butylphthalate | 1 | 0 | | 57.5165 | 50 | 115 | | 70 | 130 |
| Fluoranthene | 1 | 0 | | 51.1805 | 50 | 102 | | 70 | 130 |
| Pyrene | 1 | 0 | | 51.4224 | 50 | 103 | | 70 | 130 |
| Benzidine | 1 | 0 | | 42.9931 | 50 | 86 | | 50 | 150 |
| Butylbenzylphthalate | 1 | 0 | | 57.8856 | 50 | 116 | | 70 | 130 |
| 3.3'-Dichlorobenzidine | 1 | 0 | | 50.1523 | 50 | 100 | | 50 | 150 |
| Benzo[a]anthracene | 1 | 0 | | 51.3806 | 50 | 103 | | 70 | 130 |
| Chrysene | 1 | 0 | | 47.7389 | 50 | 95 | | 70 | 130 |
| bis(2-Ethylhexyl)phthalate | 1 | 0 | | 57.6303 | 50 | 115 | | 70 | 130 |
| Di-n-octylphthalate | 1 | 0 | | 58.7625 | 50 | 118 | | 70 | 130 |
| Benzo[b]fluoranthene | 1 | 0 | | 50.0541 | 50 | 100 | | 70 | 130 |
| Benzo[k]fluoranthene | 1 | 0 | | 51.6386 | 50 | 103 | | 70 | 130 |
| Benzo[a]pyrene | 1 | 0 | | 53.1303 | 50 | 106 | | 70 | 130 |
| Indeno[1.2.3-cd]pyrene | 1 | 0 | | 50.2941 | 50 | 101 | | 70 | 130 |
| Dibenzo[a.h]anthracene | 1 | 0 | | 50.3514 | 50 | 101 | | 70 | 130 |
| Benzo[g.h.i]perylene | 1 | 0 | | 50.049 | 50 | 100 | | 70 | 130 |

TxtDfile: 7M116116.D ICV FORM Date/Time: 08/23/21 13:04 1091738 1110

| Compound | bytCol Num: | bytMr Num: | Type | sngConc: | Exp Conc | Rec | Flag | sngLoLim: | sngHiLim: |
|---|---|---|---|---|---|---|---|---|---|
| 1.4-Dioxane | 1 | 0 | | 47.9865 | 50 | 96 | | 70 | 130 |
| Pyridine | 1 | 0 | | 57.9406 | 50 | 116 | | 50 | 150 |
| N-Nitrosodimethylamine | 1 | 0 | | 54.4407 | 50 | 109 | | 70 | 130 |
| Benzaldehyde | 1 | 0 | | 45.5855 | 50 | 91 | | 50 | 150 |
| Aniline | 1 | 0 | | 50.9208 | 50 | 102 | | 50 | 150 |
| Pentachloroethane | 1 | 0 | | 49.6139 | 50 | 99 | | 70 | 130 |
| bis(2-Chloroethyl)ether | 1 | 0 | | 54.7411 | 50 | 109 | | 70 | 130 |
| Phenol | 1 | 0 | | 52.4548 | 50 | 105 | | 70 | 130 |
| 2-Chlorophenol | 1 | 0 | | 50.9559 | 50 | 102 | | 70 | 130 |
| 1.3-Dichlorobenzene | 1 | 0 | | 58.2752 | 50 | 113 | | 70 | 130 |
| 1.4-Dichlorobenzene | 1 | 0 | | 58.0988 | 50 | 116 | | 70 | 130 |
| 1.2-Dichlorobenzene | 1 | 0 | | 58.153 | 50 | 116 | | 70 | 130 |
| Benzyl alcohol | 1 | 0 | | 53.4761 | 50 | 107 | | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 0 | | 60.2718 | 50 | 121 | | 70 | 130 |
| 2-Methylphenol | 1 | 0 | | 52.7691 | 50 | 106 | | 70 | 130 |
| Acetophenone | 1 | 0 | | 45.7816 | 50 | 92 | | 70 | 130 |
| Hexachloroethane | 1 | 0 | | 58.326 | 50 | 117 | | 70 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 0 | | 59.1776 | 50 | 118 | | 70 | 130 |
| 3&4-Methylphenol | 1 | 0 | | 51.8859 | 50 | 104 | | 70 | 130 |
| Nitrobenzene | 1 | 0 | | 59.4126 | 50 | 119 | | 70 | 130 |
| Isophorone | 1 | 0 | | 55.0277 | 50 | 110 | | 70 | 130 |
| 2-Nitrophenol | 1 | 0 | | 54.282 | 50 | 109 | | 70 | 130 |
| 2.4-Dimethylphenol | 1 | 0 | | 50.1021 | 50 | 100 | | 70 | 130 |
| Benzoic Acid | 1 | 0 | | 60.0021 | 50 | 120 | | 70 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 0 | | 58.7993 | 50 | 118 | | 70 | 130 |
| 2.4-Dichlorophenol | 1 | 0 | | 55.1165 | 50 | 110 | | 70 | 130 |
| 1.2.4-Trichlorobenzene | 1 | 0 | | 58.8871 | 50 | 118 | | 70 | 130 |
| Naphthalene | 1 | 0 | | 49.0988 | 50 | 98 | | 70 | 130 |
| 4-Chloroaniline | 1 | 0 | | 51.0465 | 50 | 102 | | 50 | 150 |
| Hexachlorobutadiene | 1 | 0 | | 59.1704 | 50 | 118 | | 70 | 130 |
| Caprolactam | 1 | 0 | | 46.5084 | 50 | 93 | | 70 | 130 |
| 4-Chloro-3-methylphenol | 1 | 0 | | 54.0335 | 50 | 108 | | 70 | 130 |
| 2-Methylnaphthalene | 1 | 0 | | 50.3266 | 50 | 101 | | 70 | 130 |
| 1-Methylnaphthalene | 1 | 0 | | 52.1995 | 50 | 104 | | 70 | 130 |
| 1.1'-Biphenyl | 1 | 0 | | 48.5469 | 50 | 97 | | 70 | 130 |
| 1.2.4.5-Tetrachlorobenzene | 1 | 0 | | 45.8343 | 50 | 92 | | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 0 | | 59.6797 | 50 | 119 | | 70 | 130 |
| 2.4.6-Trichlorophenol | 1 | 0 | | 52.8679 | 50 | 106 | | 70 | 130 |
| 2.4.5-Trichlorophenol | 1 | 0 | | 47.2047 | 50 | 94 | | 70 | 130 |
| 2-Chloronaphthalene | 1 | 0 | | 58.3021 | 50 | 117 | | 70 | 130 |
| 1.4-Dimethylnaphthalene | 1 | 0 | | 48.7933 | 50 | 98 | | 70 | 130 |
| Diphenyl Ether | 1 | 0 | | 45.4748 | 50 | 91 | | 70 | 130 |
| 2-Nitroaniline | 1 | 0 | | 50.7657 | 50 | 102 | | 70 | 130 |
| Acenaphthylene | 1 | 0 | | 51.1865 | 50 | 102 | | 70 | 130 |
| Dimethylphthalate | 1 | 0 | | 57.72 | 50 | 115 | | 70 | 130 |
| 2.6-Dinitrotoluene | 1 | 0 | | 60.256 | 50 | 121 | | 70 | 130 |
| Acenaphthene | 1 | 0 | | 51.3061 | 50 | 103 | | 70 | 130 |
| 3-Nitroaniline | 1 | 0 | | 50.438 | 50 | 101 | | 70 | 130 |
| 2.4-Dinitrophenol | 1 | 0 | | 51.6261 | 50 | 103 | | 70 | 130 |
| Dibenzofuran | 1 | 0 | | 48.8811 | 50 | 98 | | 70 | 130 |
| 2.4-Dinitrotoluene | 1 | 0 | | 60.5927 | 50 | 121 | | 70 | 130 |
| 4-Nitrophenol | 1 | 0 | | 55.8247 | 50 | 112 | | 70 | 130 |
| 2.3.4.6-Tetrachlorophenol | 1 | 0 | | 53.125 | 50 | 106 | | 70 | 130 |
| Fluorene | 1 | 0 | | 52.1693 | 50 | 104 | | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 0 | | 60.3027 | 50 | 121 | | 70 | 130 |
| Diethylphthalate | 1 | 0 | | 59.2228 | 50 | 118 | | 70 | 130 |
| 4-Nitroaniline | 1 | 0 | | 50.9317 | 50 | 102 | | 70 | 130 |
| Atrazine | 1 | 0 | | 47.9492 | 50 | 96 | | 70 | 130 |
| 4.6-Dinitro-2-methylphenol | 1 | 0 | | 52.4975 | 50 | 105 | | 70 | 130 |
| n-Nitrosodiphenylamine | 1 | 0 | | 48.8152 | 50 | 98 | | 70 | 130 |
| 1.2-Diphenylhydrazine | 1 | 0 | | 58.208 | 50 | 116 | | 70 | 130 |
| 4-Bromophenyl-phenylether | 1 | 0 | | 59.2399 | 50 | 118 | | 70 | 130 |
| Hexachlorobenzene | 1 | 0 | | 58.7666 | 50 | 118 | | 70 | 130 |
| Pentachlorophenol | 1 | 0 | | 53.5783 | 50 | 107 | | 70 | 130 |
| Phenanthrene | 1 | 0 | | 50.0832 | 50 | 100 | | 70 | 130 |
| Anthracene | 1 | 0 | | 49.8473 | 50 | 100 | | 70 | 130 |
| Carbazole | 1 | 0 | | 59.0845 | 50 | 118 | | 70 | 130 |
| Di-n-butylphthalate | 1 | 0 | | 58.6483 | 50 | 117 | | 70 | 130 |
| Fluoranthene | 1 | 0 | | 52.6884 | 50 | 105 | | 70 | 130 |
| Pyrene | 1 | 0 | | 52.2361 | 50 | 104 | | 70 | 130 |
| Benzidine | 1 | 0 | | 27.7794 | 50 | 56 | | 50 | 150 |
| Butylbenzylphthalate | 1 | 0 | | 63.06 | 50 | 126 | | 70 | 130 |
| 3.3'-Dichlorobenzidine | 1 | 0 | | 51.8077 | 50 | 104 | | 50 | 150 |
| Benzo[a]anthracene | 1 | 0 | | 50.885 | 50 | 102 | | 70 | 130 |
| Chrysene | 1 | 0 | | 47.9473 | 50 | 96 | | 70 | 130 |
| bis(2-Ethylhexyl)phthalate | 1 | 0 | | 60.9152 | 50 | 122 | | 70 | 130 |
| Di-n-octylphthalate | 1 | 0 | | 62.2818 | 50 | 125 | | 70 | 130 |
| Benzo[b]fluoranthene | 1 | 0 | | 54.7788 | 50 | 110 | | 70 | 130 |
| Benzo[k]fluoranthene | 1 | 0 | | 53.5887 | 50 | 107 | | 70 | 130 |
| Benzo[a]pyrene | 1 | 0 | | 50.9672 | 50 | 102 | | 70 | 130 |
| Indeno[1.2.3-cd]pyrene | 1 | 0 | | 52.1871 | 50 | 104 | | 70 | 130 |
| Dibenzo[a.h]anthracene | 1 | 0 | | 52.6211 | 50 | 105 | | 70 | 130 |
| Benzo[g.h.i]perylene | 1 | 0 | | 51.7593 | 50 | 104 | | 70 | 130 |

# Form7

Continuing Calibration

**Calibration Name:** CAL BNA@50PPM **Data File:** 7M116560.D **Instrument:** GCMS 7

**Cont Calibration Date/Time** 9/19/2021 12:05:00 P Method: EPA 8270E

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane-d8(INT) | 1 | 0 | I | 2.74 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 1,4-Dioxane | 1 | 0 | | 2.78 | 42.06 | 50 | ** | | 1.043 | 0.791 | 15.87 | |
| Pyridine | 1 | 0 | | 3.26 | 47.19 | 50 | ** | | 2.098 | 1.980 | 5.62 | |
| N-Nitrosodimethylamine | 1 | 0 | | 3.20 | 49.75 | 50 | ** | | 1.483 | 1.476 | 0.50 | |
| 2-Fluorophenol | 1 | 0 | S | 4.75 | 54.28 | 50 | ** | | 1.984 | 2.154 | 8.57 | |
| Benzaldehyde | 1 | 0 | | 5.57 | 53.07 | 50 | 20 | 0.01 | 1.752 | 1.859 | 6.14 | |
| Aniline | 1 | 0 | | 5.65 | 50.59 | 50 | ** | | 3.243 | 3.281 | 1.19 | |
| Pentachloroethane | 1 | 0 | | 5.70 | 49.99 | 50 | ** | 0.05 | 0.753 | 0.753 | 0.01 | |
| bis(2-Chloroethyl)ether | 1 | 0 | | 5.71 | 49.29 | 50 | 20 | 0.7 | 2.172 | 2.141 | 1.41 | |
| Phenol-d5 | 1 | 0 | S | 5.62 | 53.69 | 50 | ** | | 2.258 | 2.424 | 7.37 | |
| Phenol | 1 | 0 | | 5.63 | 52.28 | 50 | 20 | 0.8 | 2.849 | 2.979 | 4.57 | |
| 2-Chlorophenol | 1 | 0 | | 5.75 | 52.59 | 50 | 20 | 0.8 | 2.183 | 2.296 | 5.18 | |
| N-Decane | 1 | 0 | | 5.79 | 45.33 | 50 | ** | 0.05 | 1.959 | 1.903 | 9.34 | |
| 1,3-Dichlorobenzene | 1 | 0 | | 5.95 | 51.24 | 50 | ** | | 2.304 | 2.361 | 2.48 | |
| 1,4-Dichlorobenzene-d4 | 1 | 0 | I | 5.93 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 1,4-Dichlorobenzene | 1 | 0 | | 5.95 | 49.98 | 50 | 20 | | 1.409 | 1.408 | 0.03 | |
| 1,2-Dichlorobenzene | 1 | 0 | | 6.07 | 49.95 | 50 | ** | | 1.355 | 1.354 | 0.09 | |
| Benzyl alcohol | 1 | 0 | | 6.05 | 49.33 | 50 | ** | | 0.851 | 0.840 | 1.33 | |
| bis(2-chloroisopropyl)ether | 1 | 0 | | 6.15 | 47.76 | 50 | 20 | 0.01 | 1.408 | 1.345 | 4.49 | |
| 2-Methylphenol | 1 | 0 | | 6.14 | 49.73 | 50 | 20 | 0.7 | 1.176 | 1.170 | 0.54 | |
| Acetophenone | 1 | 0 | | 6.26 | 43.32 | 50 | 20 | 0.01 | 1.615 | 1.432 | 13.36 | |
| Hexachloroethane | 1 | 0 | | 6.34 | 50.99 | 50 | 20 | 0.3 | 0.541 | 0.552 | 1.99 | |
| N-Nitroso-di-n-propylamine | 1 | 0 | | 6.26 | 50.03 | 50 | 20 | 0.5 | 0.805 | 0.794 | 0.07 | |
| 3&4-Methylphenol | 1 | 0 | | 6.26 | 47.10 | 50 | 20 | | 1.102 | 1.112 | 5.80 | |
| Naphthalene-d8 | 1 | 0 | I | 6.94 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| Nitrobenzene-d5 | 1 | 0 | S | 6.38 | 26.12 | 25 | ** | | 0.149 | 0.155 | 4.47 | |
| Nitrobenzene | 1 | 0 | | 6.40 | 49.89 | 50 | 20 | 0.2 | 0.317 | 0.316 | 0.22 | |
| Isophorone | 1 | 0 | | 6.58 | 49.33 | 50 | 20 | 0.4 | 0.609 | 0.601 | 1.35 | |
| 2-Nitrophenol | 1 | 0 | | 6.65 | 53.44 | 50 | 20 | 0.1 | 0.181 | 0.193 | 6.88 | |
| 2,4-Dimethylphenol | 1 | 0 | | 6.67 | 51.39 | 50 | 20 | 0.2 | 0.306 | 0.314 | 2.77 | |
| Benzoic Acid | 1 | 0 | | 6.75 | 52.01 | 50 | ** | | 0.203 | 0.211 | 4.02 | |
| bis(2-Chloroethoxy)methane | 1 | 0 | | 6.74 | 48.13 | 50 | 20 | 0.3 | 0.373 | 0.359 | 3.73 | |
| 2,4-Dichlorophenol | 1 | 0 | | 6.83 | 52.42 | 50 | 20 | 0.2 | 0.251 | 0.264 | 4.85 | |
| 1,2,4-Trichlorobenzene | 1 | 0 | | 6.89 | 49.80 | 50 | ** | | 0.279 | 0.278 | 0.41 | |
| Naphthalene | 1 | 0 | | 6.96 | 49.63 | 50 | 20 | 0.7 | 0.939 | 0.932 | 0.75 | |
| 4-Chloroaniline | 1 | 0 | | 6.99 | 65.68 | 50 | 20 | 0.01 | 0.393 | 0.516 | 31.36 | C1 |
| Hexachlorobutadiene | 1 | 0 | | 7.04 | 50.90 | 50 | 20 | 0.01 | 0.147 | 0.150 | 1.80 | |
| Caprolactam | 1 | 0 | | 7.29 | 44.66 | 50 | 20 | 0.01 | 0.117 | 0.105 | 10.68 | |
| 4-Chloro-3-methylphenol | 1 | 0 | | 7.37 | 53.08 | 50 | 20 | 0.2 | 0.266 | 0.282 | 6.15 | |
| 2-Methylnaphthalene | 1 | 0 | | 7.51 | 51.59 | 50 | ** | 0.4 | 0.632 | 0.652 | 3.19 | |
| 1-Methylnaphthalene | 1 | 0 | | 7.59 | 51.46 | 50 | ** | 0.4 | 0.587 | 0.604 | 2.92 | |
| Methylnaphthalenes | 1 | 0 | | 7.51 | 53.58 | 50 | ** | | | 0.652 | 7.15 | |
| 1,1'-Biphenyl | 1 | 0 | | 7.89 | 46.30 | 50 | 20 | 0.01 | 0.802 | 0.743 | 7.41 | |
| Acenaphthene-d10 | 1 | 0 | I | 8.41 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 1,2,4,5-Tetrachlorobenzene | 1 | 0 | | 7.64 | 43.98 | 50 | 20 | 0.01 | 0.549 | 0.483 | 12.04 | |
| Hexachlorocyclopentadiene | 1 | 0 | | 7.62 | 41.32 | 50 | 20 | 0.05 | 0.299 | 0.247 | 17.36 | |
| 2,4,6-Trichlorophenol | 1 | 0 | | 7.73 | 50.62 | 50 | 20 | 0.2 | 0.374 | 0.379 | 1.24 | |
| 2,4,5-Trichlorophenol | 1 | 0 | | 7.77 | 51.32 | 50 | 20 | 0.2 | 0.396 | 0.406 | 2.64 | |
| 2-Fluorobiphenyl | 1 | 0 | S | 7.80 | 25.75 | 25 | ** | | 1.269 | 1.307 | 3.02 | |
| 2-Chloronaphthalene | 1 | 0 | | 7.92 | 50.00 | 50 | 20 | 0.8 | 1.149 | 1.149 | 0.00 | |
| 1,4-Dimethylnaphthalene | 1 | 0 | | 8.20 | 45.88 | 50 | ** | | 0.921 | 0.868 | 8.24 | |
| Dimethylnaphthalenes | 1 | 0 | | 8.20 | 43.87 | 50 | 20 | | | 0.868 | 12.26 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

# Form7

Continuing Calibration

**Calibration Name:** CAL BNA@50PPM **Data File:** 7M116560.D **Instrument:** GCMS 7

**Cont Calibration Date/Time** 9/19/2021 12:05:00 P **Method:** EPA 8270E

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diphenyl Ether | 1 | 0 | | 7.98 | 44.25 | 50 | ** | | 0.827 | 0.732 | 11.49 | |
| 2-Nitroaniline | 1 | 0 | | 7.99 | 50.57 | 50 | 20 | 0.01 | 0.377 | 0.382 | 1.15 | |
| Coumarin | 1 | 0 | | 8.19 | 42.30 | | ** | | 0.493 | | | |
| Acenaphthylene | 1 | 0 | | 8.28 | 50.34 | 50 | 20 | 0.9 | 1.803 | 1.815 | 0.68 | |
| Dimethylphthalate | 1 | 0 | | 8.14 | 50.79 | 50 | 20 | 0.01 | 1.305 | 1.326 | 1.59 | |
| 2,6-Dinitrotoluene | 1 | 0 | | 8.20 | 53.02 | 50 | 20 | 0.2 | 0.277 | 0.294 | 6.04 | |
| Acenaphthene | 1 | 0 | | 8.44 | 50.84 | 50 | 20 | 0.9 | 1.120 | 1.139 | 1.69 | |
| 3-Nitroaniline | 1 | 0 | | 8.36 | 50.54 | 50 | 20 | 0.01 | 0.376 | 0.380 | 1.08 | |
| 2,4-Dinitrophenol | 1 | 0 | | 8.46 | 53.47 | 50 | 20 | 0.2 | 0.162 | 0.183 | 6.94 | |
| Dibenzofuran | 1 | 0 | | 8.60 | 49.35 | 50 | 20 | 0.8 | 1.661 | 1.639 | 1.31 | |
| 2,4-Dinitrotoluene | 1 | 0 | | 8.57 | 53.50 | 50 | 20 | 0.2 | 0.418 | 0.448 | 6.99 | |
| 4-Nitrophenol | 1 | 0 | | 8.49 | 48.22 | 50 | 20 | 0.01 | 0.226 | 0.218 | 3.56 | |
| 2,3,4,6-Tetrachlorophenol | 1 | 0 | | 8.70 | 52.70 | 50 | 20 | 0.01 | 0.337 | 0.355 | 5.41 | |
| Fluorene | 1 | 0 | | 8.93 | 52.05 | 50 | 20 | 0.9 | 1.272 | 1.324 | 4.09 | |
| 4-Chlorophenyl-phenylether | 1 | 0 | | 8.92 | 52.45 | 50 | 20 | 0.4 | 0.607 | 0.637 | 4.91 | |
| Diethylphthalate | 1 | 0 | | 8.79 | 52.20 | 50 | 20 | 0.01 | 1.290 | 1.347 | 4.40 | |
| 4-Nitroaniline | 1 | 0 | | 8.94 | 51.50 | 50 | 20 | 0.01 | 0.386 | 0.397 | 3.00 | |
| Atrazine | 1 | 0 | | 9.57 | 49.38 | 50 | 20 | 0.01 | 0.372 | 0.367 | 1.23 | |
| Phenanthrene-d10 | 1 | 0 | I | 9.91 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 4,6-Dinitro-2-methylphenol | 1 | 0 | | 8.97 | 53.66 | 50 | 20 | 0.01 | 0.118 | 0.127 | 7.31 | |
| n-Nitrosodiphenylamine | 1 | 0 | | 9.03 | 49.85 | 50 | 20 | 0.01 | 0.608 | 0.606 | 0.30 | |
| 2,4,6-Tribromophenol | 1 | 0 | S | 9.17 | 51.57 | 50 | ** | | 0.102 | 0.105 | 3.14 | |
| 1,2-Diphenylhydrazine | 1 | 0 | | 9.07 | 48.38 | 50 | ** | | 0.724 | 0.701 | 3.24 | |
| 4-Bromophenyl-phenylether | 1 | 0 | | 9.41 | 50.55 | 50 | 20 | 0.1 | 0.207 | 0.210 | 1.10 | |
| Hexachlorobenzene | 1 | 0 | | 9.49 | 49.26 | 50 | 20 | 0.1 | 0.236 | 0.232 | 1.48 | |
| N-Octadecane | 1 | 0 | | 9.74 | 46.26 | 50 | ** | 0.05 | 0.389 | 0.363 | 7.48 | |
| Pentachlorophenol | 1 | 0 | | 9.69 | 45.53 | 50 | 20 | 0.05 | 0.150 | 0.137 | 8.94 | |
| Phenanthrene | 1 | 0 | | 9.93 | 49.61 | 50 | 20 | 0.7 | 0.992 | 0.984 | 0.77 | |
| Anthracene | 1 | 0 | | 9.99 | 50.52 | 50 | 20 | 0.7 | 1.015 | 1.025 | 1.03 | |
| Carbazole | 1 | 0 | | 10.16 | 51.00 | 50 | 20 | 0.01 | 0.965 | 0.984 | 2.00 | |
| Di-n-butylphthalate | 1 | 0 | | 10.54 | 50.47 | 50 | 20 | 0.01 | 1.108 | 1.212 | 0.95 | |
| Fluoranthene | 1 | 0 | | 11.28 | 52.88 | 50 | 20 | 0.6 | 1.042 | 1.102 | 5.76 | |
| Chrysene-d12 | 1 | 0 | I | 13.00 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| Pyrene | 1 | 0 | | 11.55 | 51.79 | 50 | 20 | 0.6 | 1.253 | 1.298 | 3.58 | |
| Benzidine | 1 | 0 | | 11.44 | 59.75 | 50 | ** | | 0.768 | 0.918 | 19.50 | |
| Terphenyl-d14 | 1 | 0 | S | 11.73 | 27.29 | 25 | ** | | 0.652 | 0.712 | 9.15 | |
| 4,4'-DDE | 1 | 0 | | 11.67 | 53.01 | | ** | | 0.274 | | | |
| 4,4'-DDD | 1 | 0 | | 12.07 | 56.24 | | ** | | 0.462 | | | |
| Butylbenzylphthalate | 1 | 0 | | 12.32 | 55.52 | 50 | 20 | 0.01 | 0.575 | 0.638 | 11.04 | |
| 4,4'-DDT | 1 | 0 | | 12.43 | 59.34 | | ** | | 0.366 | | | |
| 3,3'-Dichlorobenzidine | 1 | 0 | | 12.96 | 59.72 | 50 | 20 | 0.01 | 0.448 | 0.535 | 19.45 | |
| Benzo[a]anthracene | 1 | 0 | | 12.99 | 52.35 | 50 | 20 | 0.8 | 1.163 | 1.217 | 4.69 | |
| Chrysene | 1 | 0 | | 13.03 | 51.99 | 50 | 20 | 0.7 | 1.122 | 1.167 | 3.98 | |
| bis(2-Ethylhexyl)phthalate | 1 | 0 | | 13.02 | 56.11 | 50 | 20 | 0.01 | 0.740 | 0.831 | 12.22 | |
| Perylene-d12 | 1 | 0 | I | 14.68 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| Di-n-octylphthalate | 1 | 0 | | 13.77 | 52.82 | 50 | 20 | 0.01 | 1.084 | 1.253 | 5.64 | |
| Benzo[b]fluoranthene | 1 | 0 | | 14.23 | 54.76 | 50 | 20 | 0.7 | 1.004 | 1.099 | 9.52 | |
| Benzo[k]fluoranthene | 1 | 0 | | 14.26 | 48.22 | 50 | 20 | 0.7 | 1.020 | 0.983 | 3.55 | |
| Benzo[a]pyrene | 1 | 0 | | 14.61 | 50.65 | 50 | 20 | 0.7 | 1.007 | 1.020 | 1.29 | |
| Indeno[1,2,3-cd]pyrene | 1 | 0 | | 16.14 | 49.61 | 50 | 20 | 0.5 | 1.116 | 1.107 | 0.79 | |
| Dibenzo[a,h]anthracene | 1 | 0 | | 16.16 | 50.86 | 50 | 20 | 0.4 | 0.930 | 0.946 | 1.71 | |
| Benzo[g,h,i]perylene | 1 | 0 | | 16.56 | 49.48 | 50 | 20 | 0.5 | 0.937 | 0.927 | 1.05 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

# Form7

Continuing Calibration

**Calibration Name:** CAL BNA@50PPM **Data File:** 7M116560.D **Instrument:** GCMS 7

**Cont Calibration Date/Time** 9/19/2021 12:05:00 P Method: EPA 8270E

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methylphenol | 1 | 100 | | 0.00 | 0.00 | 50 | ** | 0.6 | | 0.000 | 100.00 | |
| Methylnaphthalenes (Total) | 1 | 100 | | 0.00 | 0.00 | 100 | ** | | 0.608 | 0.000 | 100.00 | |
| 2,2'-oxybis-(1-Chloropropane) | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| Toluene Diisocyanate | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| 2,4 Diaminotoluene | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| Methoxychlor | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| Heptachlor epoxide | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| Heptachlor | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| gamma-BHC | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| 1,4-Dioxane-d8 | 1 | 100 | | 0.00 | 0.00 | 40 | ** | | | 0.000 | 100.00 | |
| 1,4-Dioxane-d8-Surro | 1 | 100 | | 0.00 | 0.00 | 40 | ** | | | 0.000 | 100.00 | |
| Dimethylnaphthalenes (Total) | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | 0.921 | 0.000 | 100.00 | |
| Diaminotoluene Dihydrochloride | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| Endrin | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0823.M
Data File: 7M116560.D Sam Mult : 1 Vial# : 2 Qt On : 09/20/21 14:33
Acq On : 09/19/21 12:05 Misc : A,BNA Qt Upd On: 08/23/21 13:25

Data Path : G:\GcMsData\2021\GCMS_7\Data\09-19-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.740 | 96 | 149744 | 40.00 | ng | 0.02 |
| 21) 1,4-Dichlorobenzene-d4 | 5.931 | 152 | 251040 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.941 | 136 | 1005411 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.410 | 164 | 519868 | 40.00 | ng | 0.01 |
| 77) Phenanthrene-d10 | 9.908 | 188 | 1015288 | 40.00 | ng | 0.01 |
| 91) Chrysene-d12 | 13.005 | 240 | 861100 | 40.00 | ng | 0.02 |
| 103) Perylene-d12 | 14.679 | 264 | 1015700 | 40.00 | ng | 0.02 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.750 | 112 | 403275 | 54.28 | ng | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 54.28% | | | |
| 16) Phenol-d5 | 5.619 | 99 | 453764 | 53.69 | ng | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 53.69% | | | |
| 32) Nitrobenzene-d5 | 6.383 | 128 | 97642 | 26.12 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 52.24% | | | |
| 55) 2-Fluorobiphenyl | 7.799 | 172 | 424808 | 25.75 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 51.50% | | | |
| 80) 2,4,6-Tribromophenol | 9.168 | 330 | 133467 | 51.57 | ng | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 51.57% | | | |
| 94) Terphenyl-d14 | 11.730 | 244 | 383252 | 27.29 | ng | 0.01 |
| Spiked Amount 50.000 | | | Recovery = 54.58% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.781 | 88 | 148130 | 42.0629 | ng | 96 |
| 9) Pyridine | 3.257 | 79 | 370636 | 47.1904 | ng | 67 |
| 10) N-Nitrosodimethylamine | 3.204 | 74 | 276264 | 49.7475 | ng | 69 |
| 12) Benzaldehyde | 5.566 | 77 | 348007 | 53.0701 | ng | 71 |
| 13) Aniline | 5.654 | 93 | 614147 | 50.5938 | ng | 85 |
| 14) Pentachloroethane | 5.695 | 117 | 140907 | 49.9938 | ng | 82 |
| 15) bis(2-Chloroethyl)ether | 5.713 | 93 | 400834 | 49.2946 | ng | 75 |
| 17) Phenol | 5.631 | 94 | 557700 | 52.2837 | ng | 82 |
| 18) 2-Chlorophenol | 5.754 | 128 | 429835 | 52.5920 | ng | 78 |
| 19) N-Decane | 5.789 | 57 | 356264 | 45.3309 | ng | 86 |
| 20) 1,3-Dichlorobenzene | 5.948 | 146 | 441865 | 51.2381 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.948 | 146 | 441934 | 49.9835 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 6.072 | 146 | 424779 | 49.9534 | ng | 97 |
| 24) Benzyl alcohol | 6.048 | 108 | 263468 | 49.3338 | ng | 70 |
| 25) bis(2-chloroisopropyl)... | 6.154 | 45 | 422038 | 47.7553 | ng | 97 |
| 26) 2-Methylphenol | 6.136 | 108 | 367008 | 49.7312 | ng | 100 |
| 27) Acetophenone | 6.260 | 105 | 449460 | 43.3189 | ng | 76 |
| 28) Hexachloroethane | 6.342 | 117 | 173285 | 50.9928 | ng | 84 |
| 29) N-Nitroso-di-n-propyla... | 6.260 | 70 | 249047 | 50.0331 | ng | 84 |
| 30) 3&4-Methylphenol | 6.260 | 108 | 348864 | 47.0977 | ng | 99 |
| 33) Nitrobenzene | 6.401 | 77 | 397696 | 49.8915 | ng | 72 |
| 34) Isophorone | 6.583 | 82 | 754862 | 49.3260 | ng | 84 |
| 35) 2-Nitrophenol | 6.647 | 139 | 242650 | 53.4417 | ng | 80 |
| 36) 2,4-Dimethylphenol | 6.671 | 107 | 394835 | 51.3865 | ng | 92 |
| 37) Benzoic Acid | 6.747 | 105 | 265513 | 52.0082 | ng | 44 |
| 38) bis(2-Chloroethoxy)met... | 6.741 | 93 | 451511 | 48.1330 | ng | 96 |
| 39) 2,4-Dichlorophenol | 6.829 | 162 | 331283 | 52.4243 | ng | 90 |
| 40) 1,2,4-Trichlorobenzene | 6.894 | 180 | 349821 | 49.7953 | ng | 99 |
| 41) Naphthalene | 6.959 | 128 | 1170704 | 49.6273 | ng | 98 |
| 42) 4-Chloroaniline | 6.994 | 127 | 648618 | 65.6794 | ng | 94 |
| 43) Hexachlorobutadiene | 7.041 | 225 | 188454 | 50.8991 | ng | 95 |
| 44) Caprolactam | 7.288 | 113 | 131498 | 44.6608 | ng | 62 |
| 45) 4-Chloro-3-methylphenol | 7.370 | 107 | 354544 | 53.0765 | ng | 76 |
| 46) 2-Methylnaphthalene | 7.505 | 142 | 819056 | 51.5940 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.587 | 142 | 758581 | 51.4575 | ng | 91 |
| 48) Methylnaphthalenes (To... | 7.505 | 142 | 819056 | 53.5754 | ng | 47 |
| 49) 1,1'-Biphenyl | 7.887 | 154 | 933352 | 46.2951 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.640 | 216 | 314058 | 43.9777 | ng | 97 |
| 52) Hexachlorocyclopentadiene | 7.623 | 237 | 160485 | 41.3193 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.734 | 196 | 246287 | 50.6204 | ng | 98 |
| 54) 2,4,5-Trichlorophenol | 7.770 | 196 | 263804 | 51.3177 | ng | 98 |
| 56) 2-Chloronaphthalene | 7.916 | 162 | 746544 | 49.9988 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.198 | 156 | 564333 | 45.8776 | ng | 88 |
| 58) Dimethylnaphthalenes (... | 8.198 | 156 | 564333 | 43.8688 | ng | 88 |
| 59) Diphenyl Ether | 7.975 | 170 | 475614 | 44.2545 | ng | 73 |
| 60) 2-Nitroaniline | 7.993 | 65 | 247920 | 50.5744 | ng | 47 |
| 61) Coumarin | 8.187 | 146 | 292849 | 42.2954 | ng | 85 |
| 62) Acenaphthylene | 8.281 | 152 | 1179667 | 50.3404 | ng | 99 |
| 63) Dimethylphthalate | 8.140 | 163 | 861429 | 50.7929 | ng | 98 |
| 64) 2,6-Dinitrotoluene | 8.204 | 165 | 190933 | 53.0214 | ng | 58 |
| 65) Acenaphthene | 8.439 | 153 | 739972 | 50.8431 | ng | 94 |

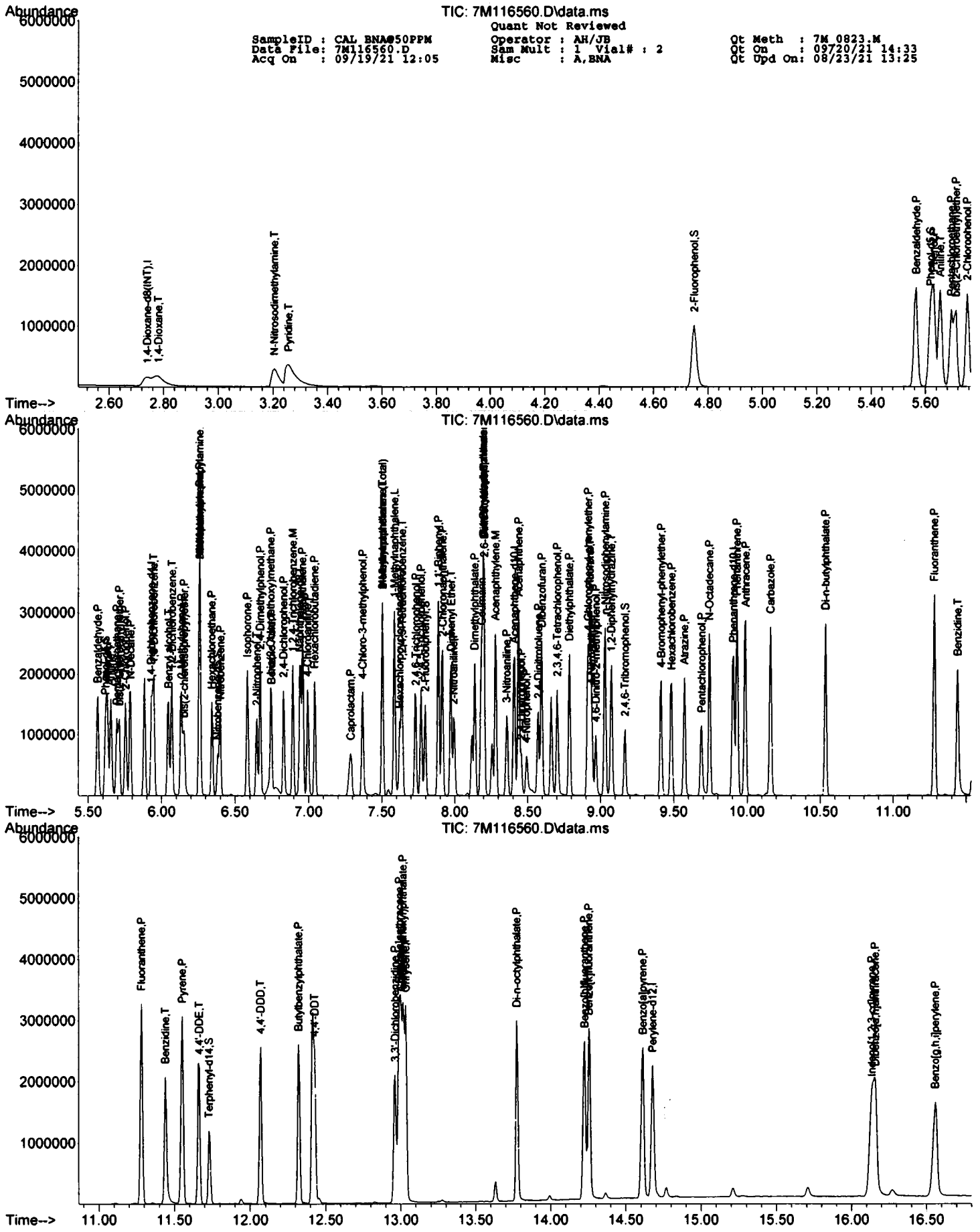
Quantitation Report (Not Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0823.M
Data File: 7M116560.D Sam Mult : 1 Vial# : 2 Qt On : 09/20/21 14:33
Acq On : 09/19/21 12:05 Misc : A,BNA Qt Upd On: 08/23/21 13:25

Data Path : G:\GcMsData\2021\GCMS_7\Data\09-19-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.357 | 138 | 247026 | 50.5389 | ng | 75 |
| 67) | 2,4-Dinitrophenol | 8.457 | 184 | 118655 | 53.4701 | ng | 31 |
| 68) | Dibenzofuran | 8.598 | 168 | 1065400 | 49.3465 | ng | 84 |
| 69) | 2,4-Dinitrotoluene | 8.575 | 165 | 290860 | 53.4957 | ng | 53 |
| 70) | 4-Nitrophenol | 8.492 | 65 | 141692 | 48.2225 | ng | 91 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.704 | 232 | 230913 | 52.7027 | ng | 83 |
| 72) | Fluorene | 8.927 | 166 | 860302 | 52.0463 | ng | 99 |
| 73) | 4-Chlorophenyl-phenyle... | 8.915 | 204 | 413655 | 52.4528 | ng | 82 |
| 74) | Diethylphthalate | 8.786 | 149 | 875402 | 52.2007 | ng | 96 |
| 75) | 4-Nitroaniline | 8.939 | 138 | 258206 | 51.5021 | ng | 69 |
| 76) | Atrazine | 9.573 | 200 | 238436 | 49.3839 | ng | 96 |
| 78) | 4,6-Dinitro-2-methylph... | 8.968 | 198 | 160806 | 53.6572 | ng | 68 |
| 79) | n-Nitrosodiphenylamine | 9.033 | 169 | 769585 | 49.8517 | ng | 100 |
| 81) | 1,2-Diphenylhydrazine | 9.074 | 77 | 889539 | 48.3782 | ng | 78 |
| 82) | 4-Bromophenyl-phenylether | 9.415 | 248 | 266134 | 50.5480 | ng | 80 |
| 83) | Hexachlorobenzene | 9.485 | 284 | 294560 | 49.2622 | ng | 58 |
| 84) | N-Octadecane | 9.744 | 57 | 460734 | 46.2593 | ng | 70 |
| 85) | Pentachlorophenol | 9.691 | 266 | 173833 | 45.5282 | ng | 97 |
| 86) | Phenanthrene | 9.932 | 178 | 1249326 | 49.6143 | ng | 99 |
| 87) | Anthracene | 9.991 | 178 | 1301201 | 50.5161 | ng | 100 |
| 88) | Carbazole | 10.161 | 167 | 1248874 | 51.0024 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.537 | 149 | 1538781 | 50.4729 | ng | 97 |
| 90) | Fluoranthene | 11.283 | 202 | 1398797 | 52.8803 | ng | 94 |
| 92) | Pyrene | 11.553 | 202 | 1397228 | 51.7907 | ng | 91 |
| 93) | Benzidine | 11.442 | 184 | 988001 | 59.7514 | ng | 88 |
| 95) | 4,4'-DDE | 11.665 | 246 | 312644 | 53.0052 | ng | 91 |
| 96) | 4,4'-DDD | 12.070 | 235 | 559422 | 56.2434 | ng | 97 |
| 97) | Butylbenzylphthalate | 12.323 | 149 | 687078 | 55.5190 | ng | 70 |
| 98) | 4,4'-DDT | 12.429 | 235 | 467456 | 59.3388 | ng | 97 |
| 99) | 3,3'-Dichlorobenzidine | 12.964 | 252 | 575376 | 59.7229 | ng | 96 |
| 100) | Benzo[a]anthracene | 12.993 | 228 | 1310150 | 52.3472 | ng | 99 |
| 101) | Chrysene | 13.034 | 228 | 1255692 | 51.9878 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 13.016 | 149 | 894446 | 56.1108 | ng | 91 |
| 104) | Di-n-octylphthalate | 13.774 | 149 | 1591301 | 52.8195 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.227 | 252 | 1395737 | 54.7613 | ng | 94 |
| 106) | Benzo[k]fluoranthene | 14.256 | 252 | 1248651 | 48.2244 | ng | 95 |
| 107) | Benzo[a]pyrene | 14.615 | 252 | 1294575 | 50.6460 | ng | 92 |
| 108) | Indeno[1,2,3-cd]pyrene | 16.136 | 276 | 1405306 | 49.6065 | ng | 83 |
| 109) | Dibenzo[a,h]anthracene | 16.160 | 278 | 1200459 | 50.8574 | ng | 90 |
| 110) | Benzo[g,h,i]perylene | 16.559 | 276 | 1177422 | 49.4773 | ng | 96 |

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


Abundance
TIC: 7M116560.D\data.ms
Quant Not Reviewed
SampleID : CAL BNA@50PPM
Data File: 7M116560.D
Acq On : 09/19/21 12:05
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 09720/21 14:33
Qt Upd On: 08/23/21 13:25
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Di-n-octylphthalate,P
Benzo(b)fluoranthene,P
Benzo(k)fluoranthene,P
Benzo(a)pyrene,P
Perylene-d12,I
Indeno(1,2,3-cd)pyrene,P
Dibenz(a,h)anthracene,P
Benzo(g,h,i)perylene,P

# Form7

Continuing Calibration

**Calibration Name:** CAL BNA@50PPM **Data File:** 10M87376.D **Instrument:** GCMS 10

**Cont Calibration Date/Time** 9/20/2021 2:13:00 P **Method:** EPA 8270E

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane-d8(INT) | 1 | 0 | I | 2.74 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 1,4-Dioxane | 1 | 0 | | 2.78 | 48.36 | 50 | ** | | 0.935 | 0.904 | 3.28 | |
| Pyridine | 1 | 0 | | 3.25 | 51.53 | 50 | ** | | 1.788 | 1.849 | 3.06 | |
| N-Nitrosodimethylamine | 1 | 0 | | 3.19 | 51.23 | 50 | ** | | 1.388 | 1.422 | 2.46 | |
| 2-Fluorophenol | 1 | 0 | S | 4.72 | 50.34 | 50 | ** | | 2.183 | 2.198 | 0.68 | |
| Benzaldehyde | 1 | 0 | | 5.53 | 50.70 | 50 | 20 | 0.01 | 1.930 | 1.957 | 1.40 | |
| Aniline | 1 | 0 | | 5.62 | 49.94 | 50 | ** | | 3.452 | 3.447 | 0.12 | |
| Pentachloroethane | 1 | 0 | | 5.66 | 50.14 | 50 | ** | 0.05 | 0.805 | 0.807 | 0.28 | |
| bis(2-Chloroethyl)ether | 1 | 0 | | 5.68 | 47.61 | 50 | 20 | 0.7 | 2.398 | 2.283 | 4.79 | |
| Phenol-d5 | 1 | 0 | S | 5.59 | 50.54 | 50 | ** | | 2.655 | 2.683 | 1.07 | |
| Phenol | 1 | 0 | | 5.60 | 50.31 | 50 | 20 | 0.8 | 3.167 | 3.186 | 0.63 | |
| 2-Chlorophenol | 1 | 0 | | 5.72 | 49.87 | 50 | 20 | 0.8 | 2.460 | 2.454 | 0.25 | |
| N-Decane | 1 | 0 | | 5.76 | 49.58 | 50 | ** | 0.05 | 2.812 | 2.789 | 0.83 | |
| 1,3-Dichlorobenzene | 1 | 0 | | 5.85 | 49.69 | 50 | ** | | 2.756 | 2.739 | 0.63 | |
| 1,4-Dichlorobenzene-d4 | 1 | 0 | I | 5.90 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 1,4-Dichlorobenzene | 1 | 0 | | 5.92 | 50.47 | 50 | 20 | | 1.413 | 1.426 | 0.93 | |
| 1,2-Dichlorobenzene | 1 | 0 | | 6.04 | 50.28 | 50 | ** | | 1.343 | 1.351 | 0.57 | |
| Benzyl alcohol | 1 | 0 | | 6.01 | 51.73 | 50 | ** | | 0.785 | 0.812 | 3.45 | |
| bis(2-chloroisopropyl)ether | 1 | 0 | | 6.12 | 49.85 | 50 | 20 | 0.01 | 1.969 | 1.963 | 0.29 | |
| 2-Methylphenol | 1 | 0 | | 6.10 | 50.60 | 50 | 20 | 0.7 | 1.138 | 1.151 | 1.20 | |
| Acetophenone | 1 | 0 | | 6.23 | 53.01 | 50 | 20 | 0.01 | 1.584 | 1.680 | 6.02 | |
| Hexachloroethane | 1 | 0 | | 6.31 | 50.36 | 50 | 20 | 0.3 | 0.508 | 0.512 | 0.71 | |
| N-Nitroso-di-n-propylamine | 1 | 0 | | 6.23 | 53.41 | 50 | 20 | 0.5 | 0.781 | 0.834 | 6.82 | |
| 3&4-Methylphenol | 1 | 0 | | 6.23 | 54.82 | 50 | 20 | | 1.110 | 1.217 | 9.64 | |
| Naphthalene-d8 | 1 | 0 | I | 6.91 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| Nitrobenzene-d5 | 1 | 0 | S | 6.35 | 25.42 | 25 | ** | | 0.138 | 0.140 | 1.70 | |
| Nitrobenzene | 1 | 0 | | 6.37 | 50.40 | 50 | 20 | 0.2 | 0.288 | 0.290 | 0.80 | |
| Isophorone | 1 | 0 | | 6.55 | 51.37 | 50 | 20 | 0.4 | 0.532 | 0.547 | 2.74 | |
| 2-Nitrophenol | 1 | 0 | | 6.61 | 51.68 | 50 | 20 | 0.1 | 0.161 | 0.166 | 3.37 | |
| 2,4-Dimethylphenol | 1 | 0 | | 6.63 | 53.09 | 50 | 20 | 0.2 | 0.268 | 0.284 | 6.17 | |
| Benzoic Acid | 1 | 0 | | 6.70 | 45.80 | 50 | ** | | 0.169 | 0.150 | 8.40 | |
| bis(2-Chloroethoxy)methane | 1 | 0 | | 6.71 | 50.81 | 50 | 20 | 0.3 | 0.337 | 0.343 | 1.63 | |
| 2,4-Dichlorophenol | 1 | 0 | | 6.79 | 51.02 | 50 | 20 | 0.2 | 0.228 | 0.246 | 2.05 | |
| 1,2,4-Trichlorobenzene | 1 | 0 | | 6.86 | 51.29 | 50 | ** | | 0.251 | 0.257 | 2.59 | |
| Naphthalene | 1 | 0 | | 6.92 | 49.91 | 50 | 20 | 0.7 | 0.932 | 0.931 | 0.18 | |
| 4-Chloroaniline | 1 | 0 | | 6.96 | 52.65 | 50 | 20 | 0.01 | 0.348 | 0.366 | 5.30 | |
| Hexachlorobutadiene | 1 | 0 | | 7.01 | 50.42 | 50 | 20 | 0.01 | 0.119 | 0.120 | 0.84 | |
| Caprolactam | 1 | 0 | | 7.23 | 55.30 | 50 | 20 | 0.01 | 0.093 | 0.103 | 10.60 | |
| 4-Chloro-3-methylphenol | 1 | 0 | | 7.32 | 51.10 | 50 | 20 | 0.2 | 0.243 | 0.248 | 2.20 | |
| 2-Methylnaphthalene | 1 | 0 | | 7.46 | 51.00 | 50 | ** | 0.4 | 0.618 | 0.631 | 2.00 | |
| 1-Methylnaphthalene | 1 | 0 | | 7.54 | 51.71 | 50 | ** | 0.4 | 0.587 | 0.607 | 3.42 | |
| Methylnaphthalenes | 1 | 0 | | 7.46 | 102.31 | 50 | ** | | | 1.228 | 104.62 | |
| 1,1'-Biphenyl | 1 | 0 | | 7.83 | 51.06 | 50 | 20 | 0.01 | 0.698 | 0.713 | 2.12 | |
| Acenaphthene-d10 | 1 | 0 | I | 8.34 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 1,2,4,5-Tetrachlorobenzene | 1 | 0 | | 7.59 | 50.40 | 50 | 20 | 0.01 | 0.460 | 0.464 | 0.81 | |
| Hexachlorocyclopentadiene | 1 | 0 | | 7.58 | 47.91 | 50 | 20 | 0.05 | 0.185 | 0.195 | 4.19 | |
| 2,4,6-Trichlorophenol | 1 | 0 | | 7.68 | 51.47 | 50 | 20 | 0.2 | 0.310 | 0.319 | 2.95 | |
| 2,4,5-Trichlorophenol | 1 | 0 | | 7.71 | 51.97 | 50 | 20 | 0.2 | 0.333 | 0.346 | 3.94 | |
| 2-Fluorobiphenyl | 1 | 0 | S | 7.75 | 25.19 | 25 | ** | | 1.267 | 1.277 | 0.75 | |
| 2-Chloronaphthalene | 1 | 0 | | 7.86 | 50.39 | 50 | 20 | 0.8 | 1.104 | 1.112 | 0.77 | |
| 1,4-Dimethylnaphthalene | 1 | 0 | | 8.14 | 52.75 | 50 | ** | | 0.868 | 0.916 | 5.50 | |
| Dimethylnaphthalenes | 1 | 0 | | 8.14 | 52.75 | 50 | 20 | | | 0.916 | 5.50 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



Note: **8260/8270 limits are compared against the %DIFF/R.F.** **625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found.** **524.2 limits are compared against the %DIFF**

# Form7

Continuing Calibration

**Calibration Name:** CAL BNA@50PPM **Data File:** 10M87376.D **Instrument:** GCMS 10

**Cont Calibration Date/Time** 9/20/2021 2:13:00 P **Method:** EPA 8270E

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diphenyl Ether | 1 | 0 | | 7.92 | 50.60 | 50 | ** | | 0.782 | 0.791 | 1.19 | |
| 2-Nitroaniline | 1 | 0 | | 7.93 | 51.76 | 50 | 20 | 0.01 | 0.359 | 0.372 | 3.52 | |
| Coumarin | 1 | 0 | | 8.12 | 52.85 | | ** | | 0.425 | | | |
| Acenaphthylene | 1 | 0 | | 8.22 | 51.07 | 50 | 20 | 0.9 | 1.696 | 1.732 | 2.14 | |
| Dimethylphthalate | 1 | 0 | | 8.08 | 50.91 | 50 | 20 | 0.01 | 1.198 | 1.220 | 1.81 | |
| 2,6-Dinitrotoluene | 1 | 0 | | 8.14 | 53.54 | 50 | 20 | 0.2 | 0.264 | 0.283 | 7.07 | |
| Acenaphthene | 1 | 0 | | 8.37 | 50.45 | 50 | 20 | 0.9 | 1.115 | 1.125 | 0.90 | |
| 3-Nitroaniline | 1 | 0 | | 8.29 | 51.91 | 50 | 20 | 0.01 | 0.332 | 0.345 | 3.83 | |
| 2,4-Dinitrophenol | 1 | 0 | | 8.38 | 44.75 | 50 | 20 | 0.2 | 0.138 | 0.122 | 10.49 | |
| Dibenzofuran | 1 | 0 | | 8.52 | 49.68 | 50 | 20 | 0.8 | 1.597 | 1.587 | 0.63 | |
| 2,4-Dinitrotoluene | 1 | 0 | | 8.49 | 51.17 | 50 | 20 | 0.2 | 0.363 | 0.376 | 2.33 | |
| 4-Nitrophenol | 1 | 0 | | 8.42 | 49.23 | 50 | 20 | 0.01 | 0.196 | 0.204 | 1.53 | |
| 2,3,4,6-Tetrachlorophenol | 1 | 0 | | 8.63 | 51.22 | 50 | 20 | 0.01 | 0.252 | 0.258 | 2.44 | |
| Fluorene | 1 | 0 | | 8.84 | 51.07 | 50 | 20 | 0.9 | 1.259 | 1.286 | 2.14 | |
| 4-Chlorophenyl-phenylether | 1 | 0 | | 8.83 | 50.00 | 50 | 20 | 0.4 | 0.542 | 0.542 | 0.00 | |
| Diethylphthalate | 1 | 0 | | 8.70 | 51.32 | 50 | 20 | 0.01 | 1.185 | 1.216 | 2.63 | |
| 4-Nitroaniline | 1 | 0 | | 8.85 | 51.10 | 50 | 20 | 0.01 | 0.351 | 0.369 | 2.20 | |
| Atrazine | 1 | 0 | | 9.47 | 51.38 | 50 | 20 | 0.01 | 0.309 | 0.317 | 2.77 | |
| Phenanthrene-d10 | 1 | 0 | I | 9.80 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 4,6-Dinitro-2-methylphenol | 1 | 0 | | 8.88 | 47.02 | 50 | 20 | 0.01 | 0.109 | 0.100 | 5.96 | |
| n-Nitrosodiphenylamine | 1 | 0 | | 8.94 | 50.37 | 50 | 20 | 0.01 | 0.608 | 0.612 | 0.74 | |
| 2,4,6-Tribromophenol | 1 | 0 | S | 9.08 | 50.90 | 50 | ** | | 0.073 | 0.075 | 1.80 | |
| 1,2-Diphenylhydrazine | 1 | 0 | | 8.99 | 54.00 | 50 | ** | | 0.698 | 0.754 | 7.99 | |
| 4-Bromophenyl-phenylether | 1 | 0 | | 9.32 | 50.35 | 50 | 20 | 0.1 | 0.159 | 0.161 | 0.69 | |
| Hexachlorobenzene | 1 | 0 | | 9.39 | 49.64 | 50 | 20 | 0.1 | 0.168 | 0.166 | 0.72 | |
| N-Octadecane | 1 | 0 | | 9.64 | 50.77 | 50 | ** | 0.05 | 0.481 | 0.488 | 1.54 | |
| Pentachlorophenol | 1 | 0 | | 9.59 | 48.90 | 50 | 20 | 0.05 | 0.097 | 0.095 | 2.21 | |
| Phenanthrene | 1 | 0 | | 9.83 | 50.11 | 50 | 20 | 0.7 | 0.997 | 1.000 | 0.23 | |
| Anthracene | 1 | 0 | | 9.88 | 51.47 | 50 | 20 | 0.7 | 1.014 | 1.044 | 2.94 | |
| Carbazole | 1 | 0 | | 10.05 | 50.86 | 50 | 20 | 0.01 | 0.969 | 0.986 | 1.72 | |
| Di-n-butylphthalate | 1 | 0 | | 10.42 | 50.79 | 50 | 20 | 0.01 | 1.096 | 1.169 | 1.58 | |
| Fluoranthene | 1 | 0 | | 11.15 | 50.87 | 50 | 20 | 0.6 | 0.980 | 0.997 | 1.74 | |
| Chrysene-d12 | 1 | 0 | I | 12.85 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| Pyrene | 1 | 0 | | 11.42 | 50.92 | 50 | 20 | 0.6 | 1.340 | 1.364 | 1.84 | |
| Benzidine | 1 | 0 | | 11.31 | 54.42 | 50 | ** | | 0.807 | 0.878 | 8.85 | |
| Terphenyl-d14 | 1 | 0 | S | 11.60 | 24.65 | 25 | ** | | 0.623 | 0.614 | 1.40 | |
| 4,4'-DDE | 1 | 0 | | 11.53 | 50.50 | | ** | | 0.262 | | | |
| 4,4'-DDD | 1 | 0 | | 11.93 | 52.49 | | ** | | 0.451 | | | |
| Butylbenzylphthalate | 1 | 0 | | 12.18 | 51.24 | 50 | 20 | 0.01 | 0.621 | 0.650 | 2.48 | |
| 4,4'-DDT | 1 | 0 | | 12.29 | 51.44 | | ** | | 0.389 | | | |
| 3,3'-Dichlorobenzidine | 1 | 0 | | 12.81 | 50.49 | 50 | 20 | 0.01 | 0.414 | 0.439 | 0.99 | |
| Benzo[a]anthracene | 1 | 0 | | 12.84 | 50.19 | 50 | 20 | 0.8 | 1.120 | 1.124 | 0.38 | |
| Chrysene | 1 | 0 | | 12.88 | 50.08 | 50 | 20 | 0.7 | 1.122 | 1.124 | 0.15 | |
| bis(2-Ethylhexyl)phthalate | 1 | 0 | | 12.86 | 53.00 | 50 | 20 | 0.01 | 0.874 | 0.926 | 6.01 | |
| Perylene-d12 | 1 | 0 | I | 14.47 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| Di-n-octylphthalate | 1 | 0 | | 13.61 | 51.06 | 50 | 20 | 0.01 | 1.372 | 1.474 | 2.12 | |
| Benzo[b]fluoranthene | 1 | 0 | | 14.05 | 51.45 | 50 | 20 | 0.7 | 0.997 | 1.026 | 2.90 | |
| Benzo[k]fluoranthene | 1 | 0 | | 14.08 | 50.93 | 50 | 20 | 0.7 | 0.982 | 1.000 | 1.87 | |
| Benzo[a]pyrene | 1 | 0 | | 14.41 | 51.32 | 50 | 20 | 0.7 | 0.918 | 0.942 | 2.64 | |
| Indeno[1,2,3-cd]pyrene | 1 | 0 | | 15.82 | 50.84 | 50 | 20 | 0.5 | 1.021 | 1.039 | 1.68 | |
| Dibenzo[a,h]anthracene | 1 | 0 | | 15.84 | 51.30 | 50 | 20 | 0.4 | 0.876 | 0.898 | 2.61 | |
| Benzo[g,h,i]perylene | 1 | 0 | | 16.21 | 50.69 | 50 | 20 | 0.5 | 0.865 | 0.877 | 1.38 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

# Form7

Continuing Calibration

**Calibration Name:** CAL BNA@50PPM **Data File:** 10M87376.D **Instrument:** GCMS 10

**Cont Calibration Date/Time** 9/20/2021 2:13:00 P **Method:** EPA 8270E

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Methylnaphthalenes (Total) | 1 | 100 | | 0.00 | 0.00 | 100 | ** | | 0.600 | 0.000 | 100.00 | |
| 2,2'-oxybis-(1-Chloropropane) | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| 4-Methylphenol | 1 | 100 | | 0.00 | 0.00 | 50 | ** | 0.6 | | 0.000 | 100.00 | |
| 2,4 Diaminotoluene | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| Toluene Diisocyanate | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| Dimethylnaphthalenes (Total) | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | 0.868 | 0.000 | 100.00 | |
| 1,4-Dioxane-d8 | 1 | 100 | | 0.00 | 0.00 | 40 | ** | | | 0.000 | 100.00 | |
| Methoxychlor | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| Diaminotoluene Dihydrochloride | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| Heptachlor epoxide | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| Heptachlor | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| gamma-BHC | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| Endrin | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| 1,4-Dioxane-d8-Surro | 1 | 100 | | 0.00 | 0.00 | 40 | ** | | | 0.000 | 100.00 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87376.D Sam Mult : 1 Vial# : 2 Qt On : 09/20/21 14:31
Acq On : 09/20/21 14:13 Misc : A,BNA Qt Upd On: 09/20/21 13:43

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.740 | 96 | 30563 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 59816 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 242316 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.340 | 164 | 119462 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 212561 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.849 | 240 | 160131 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.475 | 264 | 168483 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 83968 | 50.34 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.34% | | | |
| 16) Phenol-d5 | 5.591 | 99 | 102512 | 50.54 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.54% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 21200 | 25.42 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 50.84% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 95320 | 25.19 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 50.38% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 20002 | 50.90 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.90% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 61495 | 24.65 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 49.30% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.777 | 88 | 34536 | 48.3606 | ng | 66 |
| 9) Pyridine | 3.253 | 79 | 70639 | 51.5281 | ng | 82 |
| 10) N-Nitrosodimethylamine | 3.189 | 74 | 54321 | 51.2278 | ng | 88 |
| 12) Benzaldehyde | 5.532 | 77 | 74773 | 50.6989 | ng | 69 |
| 13) Aniline | 5.623 | 93 | 131697 | 49.9380 | ng | 68 |
| 14) Pentachloroethane | 5.660 | 117 | 30849 | 50.1396 | ng | 83 |
| 15) bis(2-Chloroethyl)ether | 5.676 | 93 | 87234 | 47.6051 | ng | 83 |
| 17) Phenol | 5.601 | 94 | 121736 | 50.3140 | ng | 83 |
| 18) 2-Chlorophenol | 5.724 | 128 | 93754 | 49.8742 | ng | 79 |
| 19) N-Decane | 5.762 | 57 | 106549 | 49.5839 | ng | 90 |
| 20) 1,3-Dichlorobenzene | 5.853 | 146 | 104637 | 49.6874 | ng | 97 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 106632 | 50.4671 | ng | 96 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 100988 | 50.2835 | ng | 97 |
| 24) Benzyl alcohol | 6.013 | 108 | 60694 | 51.7251 | ng | 67 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 146800 | 49.8548 | ng | 95 |
| 26) 2-Methylphenol | 6.104 | 108 | 86085 | 50.5987 | ng | 97 |
| 27) Acetophenone | 6.227 | 105 | 125580 | 53.0086 | ng | 76 |
| 28) Hexachloroethane | 6.313 | 117 | 38275 | 50.3575 | ng | 82 |
| 29) N-Nitroso-di-n-propyla... | 6.227 | 70 | 62377 | 53.4109 | ng | 80 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 90972 | 54.8194 | ng | 100 |
| 33) Nitrobenzene | 6.366 | 77 | 87818 | 50.3983 | ng | 74 |
| 34) Isophorone | 6.548 | 82 | 165683 | 51.3703 | ng | 81 |
| 35) 2-Nitrophenol | 6.612 | 139 | 50363 | 51.6838 | ng | 81 |
| 36) 2,4-Dimethylphenol | 6.634 | 107 | 86157 | 53.0868 | ng | 92 |
| 37) Benzoic Acid | 6.703 | 105 | 45301m | 45.7984 | ng | |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 103852 | 50.8142 | ng | 96 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 74385 | 51.0233 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 77951 | 51.2937 | ng | 96 |
| 41) Naphthalene | 6.922 | 128 | 281895 | 49.9100 | ng | 100 |
| 42) 4-Chloroaniline | 6.960 | 127 | 110972m | 52.6500 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 36288 | 50.4210 | ng | 95 |
| 44) Caprolactam | 7.233 | 113 | 31075 | 55.2986 | ng | 70 |
| 45) 4-Chloro-3-methylphenol | 7.324 | 107 | 75111 | 51.0995 | ng | 77 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 191061 | 50.9999 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 183759 | 51.7081 | ng | 96 |
| 48) Methylnaphthalenes (To... | 7.457 | 142 | 372012m | 102.3092 | ng | |
| 49) 1,1'-Biphenyl | 7.832 | 154 | 215831 | 51.0579 | ng | 93 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 69311 | 50.4047 | ng | 99 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 29107 | 47.9050 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.682 | 196 | 47626 | 51.4748 | ng | 98 |
| 54) 2,4,5-Trichlorophenol | 7.714 | 196 | 51727 | 51.9701 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.858 | 162 | 166126 | 50.3870 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 136741 | 52.7486 | ng | 88 |
| 58) Dimethylnaphthalenes (... | 8.136 | 156 | 136741 | 52.7486 | ng | 88 |
| 59) Diphenyl Ether | 7.917 | 170 | 118105 | 50.5950 | ng | 75 |
| 60) 2-Nitroaniline | 7.933 | 65 | 55476 | 51.7613 | ng | 47 |
| 61) Coumarin | 8.120 | 146 | 67123 | 52.8495 | ng | 87 |
| 62) Acenaphthylene | 8.217 | 152 | 258675 | 51.0705 | ng | 100 |
| 63) Dimethylphthalate | 8.078 | 163 | 182212 | 50.9065 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.136 | 165 | 42264 | 53.5374 | ng | 59 |
| 65) Acenaphthene | 8.367 | 153 | 167987 | 50.4494 | ng | 98 |

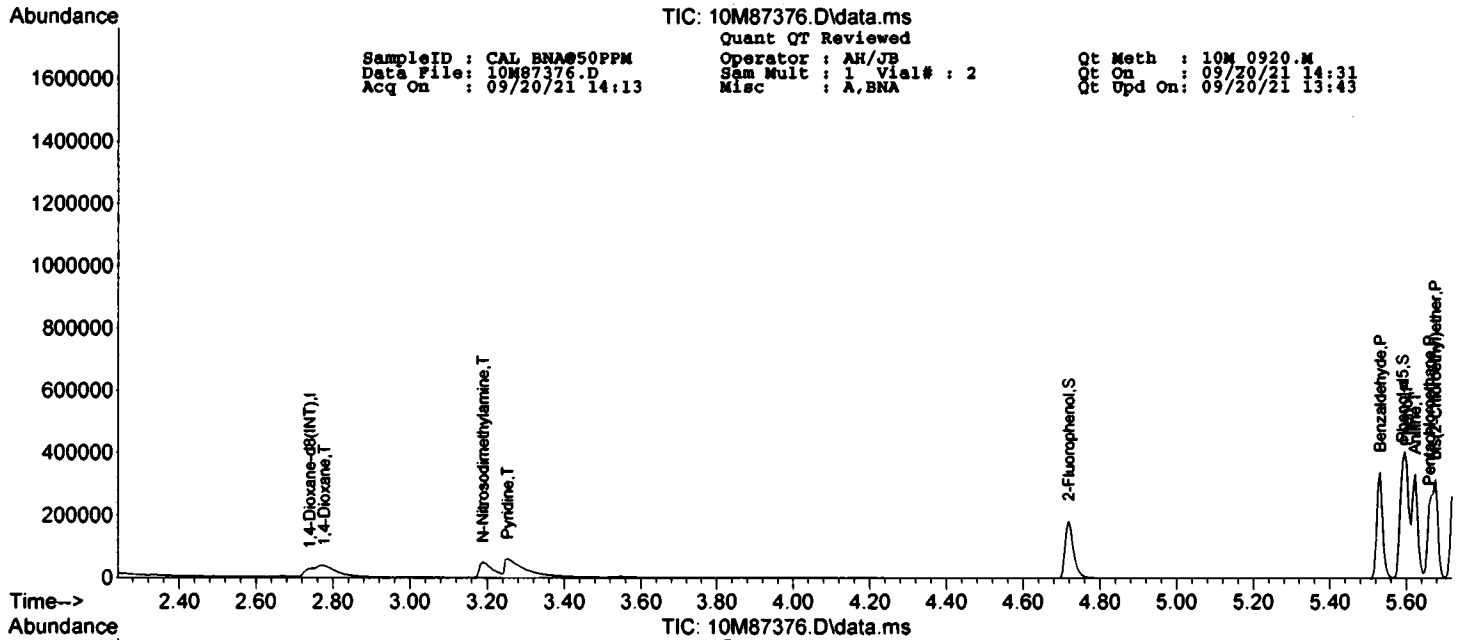
Quantitation Report (QT Reviewed)

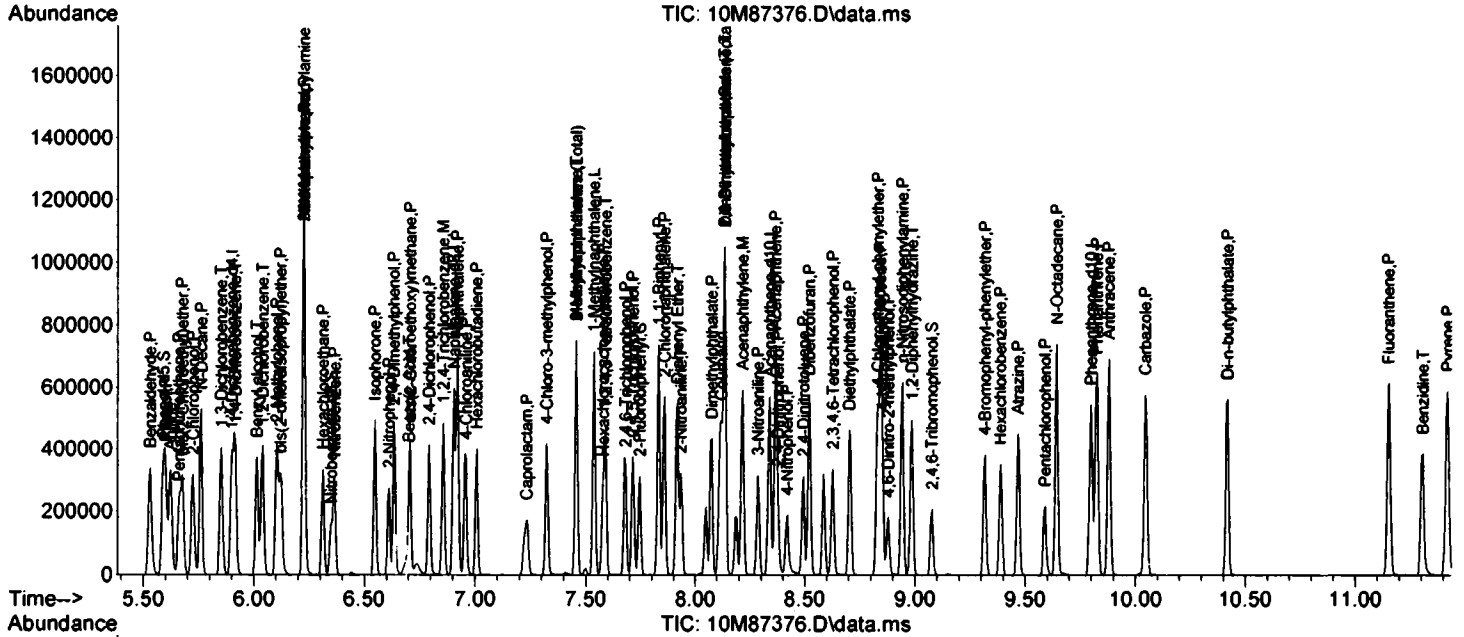
SampleID : CAL BNA@50PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87376.D  Sam Mult : 1  Vial# : 2  Qt On : 09/20/21 14:31
Acq On : 09/20/21 14:13  Misc : A,BNA  Qt Upd On: 09/20/21 13:43

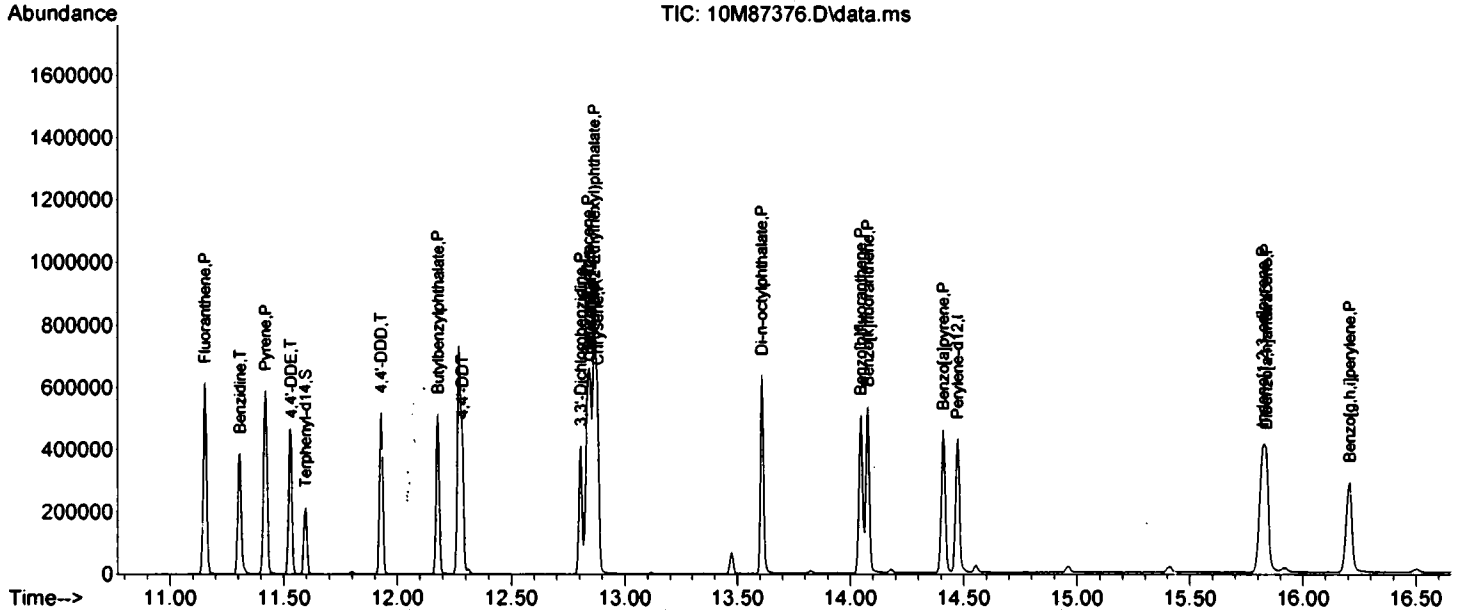
Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.286 | 138 | 51475 | 51.9142 | ng | 72 |
| 67) | 2,4-Dinitrophenol | 8.377 | 184 | 18204 | 44.7541 | ng | 47 |
| 68) | Dibenzofuran | 8.522 | 168 | 236963 | 49.6844 | ng | 84 |
| 69) | 2,4-Dinitrotoluene | 8.495 | 165 | 56217 | 51.1670 | ng | 60 |
| 70) | 4-Nitrophenol | 8.420 | 65 | 30532 | 49.2333 | ng | 89 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.629 | 232 | 38502 | 51.2199 | ng | 89 |
| 72) | Fluorene | 8.843 | 166 | 191996 | 51.0698 | ng | 99 |
| 73) | 4-Chlorophenyl-phenyle... | 8.832 | 204 | 80940 | 49.9988 | ng | 86 |
| 74) | Diethylphthalate | 8.703 | 149 | 181592 | 51.3162 | ng | 97 |
| 75) | 4-Nitroaniline | 8.853 | 138 | 55111 | 51.0976 | ng | 67 |
| 76) | Atrazine | 9.468 | 200 | 47409 | 51.3826 | ng | 96 |
| 78) | 4,6-Dinitro-2-methylph... | 8.880 | 198 | 26691 | 47.0196 | ng | 67 |
| 79) | n-Nitrosodiphenylamine | 8.944 | 169 | 162635 | 50.3702 | ng | 98 |
| 81) | 1,2-Diphenylhydrazine | 8.987 | 77 | 200411 | 53.9950 | ng | 79 |
| 82) | 4-Bromophenyl-phenylether | 9.319 | 248 | 42653 | 50.3458 | ng | 92 |
| 83) | Hexachlorobenzene | 9.388 | 284 | 44199 | 49.6375 | ng | 74 |
| 84) | N-Octadecane | 9.645 | 57 | 129779 | 50.7679 | ng | 88 |
| 85) | Pentachlorophenol | 9.591 | 266 | 25208 | 48.8973 | ng | 97 |
| 86) | Phenanthrene | 9.827 | 178 | 265605 | 50.1142 | ng | 98 |
| 87) | Anthracene | 9.880 | 178 | 277361 | 51.4722 | ng | 99 |
| 88) | Carbazole | 10.046 | 167 | 261861 | 50.8622 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.420 | 149 | 310511 | 50.7877 | ng | 97 |
| 90) | Fluoranthene | 11.153 | 202 | 264869 | 50.8709 | ng | 98 |
| 92) | Pyrene | 11.421 | 202 | 273084 | 50.9205 | ng | 92 |
| 93) | Benzidine | 11.308 | 184 | 175802 | 54.4225 | ng | 86 |
| 95) | 4,4'-DDE | 11.533 | 246 | 52951 | 50.5009 | ng | 91 |
| 96) | 4,4'-DDD | 11.929 | 235 | 94753 | 52.4896 | ng | 90 |
| 97) | Butylbenzylphthalate | 12.180 | 149 | 130112 | 51.2417 | ng | 70 |
| 98) | 4,4'-DDT | 12.287 | 235 | 80037 | 51.4416 | ng | 93 |
| 99) | 3,3'-Dichlorobenzidine | 12.806 | 252 | 87921 | 50.4934 | ng | 97 |
| 100) | Benzo[a]anthracene | 12.838 | 228 | 224991 | 50.1900 | ng | 100 |
| 101) | Chrysene | 12.881 | 228 | 224947 | 50.0771 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.865 | 149 | 185389 | 53.0028 | ng | 92 |
| 104) | Di-n-octylphthalate | 13.608 | 149 | 310362 | 51.0624 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 14.047 | 252 | 216023m | 51.4520 | ng | |
| 106) | Benzo[k]fluoranthene | 14.079 | 252 | 210668m | 50.9341 | ng | |
| 107) | Benzo[a]pyrene | 14.410 | 252 | 198487 | 51.3194 | ng | 97 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.823 | 276 | 218732 | 50.8385 | ng | 99 |
| 109) | Dibenzo[a,h]anthracene | 15.839 | 278 | 189204 | 51.3030 | ng | 97 |
| 110) | Benzo[g,h,i]perylene | 16.208 | 276 | 184613 | 50.6878 | ng | 88 |

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


Abundance
TIC: 10M87376.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 10M87376.D
Acq On : 09/20/21 14:13
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/20/21 14:31
Qt Upd On: 09/20/21 13:43
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->


Abundance
TIC: 10M87376.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Acenaphthylene,M
3-Nitroaniline,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M87376.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

# Form7

Continuing Calibration

**Calibration Name:** CAL BNA@50PPM **Data File:** 10M87404.D **Instrument:** GCMS 10

**Cont Calibration Date/Time** 9/21/2021 10:04:00 **Method:** EPA 8270E

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane-d8(INT) | 1 | 0 | I | 2.75 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 1,4-Dioxane | 1 | 0 | | 2.78 | 48.83 | 50 | ** | | 0.935 | 0.913 | 2.34 | |
| Pyridine | 1 | 0 | | 3.26 | 50.14 | 50 | ** | | 1.788 | 1.796 | 0.29 | |
| N-Nitrosodimethylamine | 1 | 0 | | 3.19 | 52.24 | 50 | ** | | 1.388 | 1.450 | 4.49 | |
| 2-Fluorophenol | 1 | 0 | S | 4.72 | 50.57 | 50 | ** | | 2.183 | 2.208 | 1.15 | |
| Benzaldehyde | 1 | 0 | | 5.53 | 50.62 | 50 | 20 | 0.01 | 1.930 | 1.954 | 1.25 | |
| Aniline | 1 | 0 | | 5.62 | 49.69 | 50 | ** | | 3.452 | 3.430 | 0.61 | |
| Pentachloroethane | 1 | 0 | | 5.67 | 50.16 | 50 | ** | 0.05 | 0.805 | 0.808 | 0.32 | |
| bis(2-Chloroethyl)ether | 1 | 0 | | 5.68 | 48.12 | 50 | 20 | 0.7 | 2.398 | 2.308 | 3.77 | |
| Phenol-d5 | 1 | 0 | S | 5.59 | 50.21 | 50 | ** | | 2.655 | 2.666 | 0.42 | |
| Phenol | 1 | 0 | | 5.60 | 50.38 | 50 | 20 | 0.8 | 3.167 | 3.190 | 0.75 | |
| 2-Chlorophenol | 1 | 0 | | 5.72 | 51.19 | 50 | 20 | 0.8 | 2.460 | 2.519 | 2.37 | |
| N-Decane | 1 | 0 | | 5.76 | 49.63 | 50 | ** | 0.05 | 2.812 | 2.791 | 0.74 | |
| 1,3-Dichlorobenzene | 1 | 0 | | 5.85 | 49.89 | 50 | ** | | 2.756 | 2.750 | 0.23 | |
| 1,4-Dichlorobenzene-d4 | 1 | 0 | I | 5.90 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 1,4-Dichlorobenzene | 1 | 0 | | 5.92 | 51.31 | 50 | 20 | | 1.413 | 1.450 | 2.62 | |
| 1,2-Dichlorobenzene | 1 | 0 | | 6.04 | 50.54 | 50 | ** | | 1.343 | 1.358 | 1.08 | |
| Benzyl alcohol | 1 | 0 | | 6.01 | 52.46 | 50 | ** | | 0.785 | 0.823 | 4.92 | |
| bis(2-chloroisopropyl)ether | 1 | 0 | | 6.12 | 49.79 | 50 | 20 | 0.01 | 1.969 | 1.961 | 0.42 | |
| 2-Methylphenol | 1 | 0 | | 6.10 | 51.36 | 50 | 20 | 0.7 | 1.138 | 1.169 | 2.72 | |
| Acetophenone | 1 | 0 | | 6.23 | 53.40 | 50 | 20 | 0.01 | 1.584 | 1.692 | 6.80 | |
| Hexachloroethane | 1 | 0 | | 6.31 | 51.38 | 50 | 20 | 0.3 | 0.508 | 0.522 | 2.75 | |
| N-Nitroso-di-n-propylamine | 1 | 0 | | 6.23 | 54.92 | 50 | 20 | 0.5 | 0.781 | 0.858 | 9.83 | |
| 3&4-Methylphenol | 1 | 0 | | 6.23 | 55.07 | 50 | 20 | | 1.110 | 1.222 | 10.13 | |
| Naphthalene-d8 | 1 | 0 | I | 6.91 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| Nitrobenzene-d5 | 1 | 0 | S | 6.35 | 25.84 | 25 | ** | | 0.138 | 0.142 | 3.37 | |
| Nitrobenzene | 1 | 0 | | 6.37 | 51.62 | 50 | 20 | 0.2 | 0.288 | 0.297 | 3.24 | |
| Isophorone | 1 | 0 | | 6.55 | 51.76 | 50 | 20 | 0.4 | 0.532 | 0.551 | 3.51 | |
| 2-Nitrophenol | 1 | 0 | | 6.61 | 53.35 | 50 | 20 | 0.1 | 0.161 | 0.172 | 6.69 | |
| 2,4-Dimethylphenol | 1 | 0 | | 6.63 | 53.15 | 50 | 20 | 0.2 | 0.268 | 0.285 | 6.30 | |
| Benzoic Acid | 1 | 0 | | 6.70 | 47.46 | 50 | ** | | 0.169 | 0.156 | 5.09 | |
| bis(2-Chloroethoxy)methane | 1 | 0 | | 6.71 | 51.26 | 50 | 20 | 0.3 | 0.337 | 0.346 | 2.52 | |
| 2,4-Dichlorophenol | 1 | 0 | | 6.79 | 52.23 | 50 | 20 | 0.2 | 0.228 | 0.251 | 4.46 | |
| 1,2,4-Trichlorobenzene | 1 | 0 | | 6.86 | 51.78 | 50 | ** | | 0.251 | 0.260 | 3.55 | |
| Naphthalene | 1 | 0 | | 6.92 | 51.90 | 50 | 20 | 0.7 | 0.932 | 0.968 | 3.80 | |
| 4-Chloroaniline | 1 | 0 | | 6.95 | 52.83 | 50 | 20 | 0.01 | 0.348 | 0.368 | 5.66 | |
| Hexachlorobutadiene | 1 | 0 | | 7.01 | 51.77 | 50 | 20 | 0.01 | 0.119 | 0.123 | 3.54 | |
| Caprolactam | 1 | 0 | | 7.23 | 55.12 | 50 | 20 | 0.01 | 0.093 | 0.102 | 10.24 | |
| 4-Chloro-3-methylphenol | 1 | 0 | | 7.32 | 51.75 | 50 | 20 | 0.2 | 0.243 | 0.251 | 3.49 | |
| 2-Methylnaphthalene | 1 | 0 | | 7.46 | 52.08 | 50 | ** | 0.4 | 0.618 | 0.644 | 4.16 | |
| 1-Methylnaphthalene | 1 | 0 | | 7.54 | 51.99 | 50 | ** | 0.4 | 0.587 | 0.610 | 3.97 | |
| Methylnaphthalenes | 1 | 0 | | 7.46 | 103.73 | 50 | ** | | | 1.245 | 107.47 | |
| 1,1'-Biphenyl | 1 | 0 | | 7.83 | 51.69 | 50 | 20 | 0.01 | 0.698 | 0.721 | 3.39 | |
| Acenaphthene-d10 | 1 | 0 | I | 8.33 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 1,2,4,5-Tetrachlorobenzene | 1 | 0 | | 7.59 | 50.88 | 50 | 20 | 0.01 | 0.460 | 0.469 | 1.76 | |
| Hexachlorocyclopentadiene | 1 | 0 | | 7.57 | 48.87 | 50 | 20 | 0.05 | 0.185 | 0.199 | 2.26 | |
| 2,4,6-Trichlorophenol | 1 | 0 | | 7.68 | 51.87 | 50 | 20 | 0.2 | 0.310 | 0.321 | 3.75 | |
| 2,4,5-Trichlorophenol | 1 | 0 | | 7.71 | 52.43 | 50 | 20 | 0.2 | 0.333 | 0.349 | 4.87 | |
| 2-Fluorobiphenyl | 1 | 0 | S | 7.74 | 25.17 | 25 | ** | | 1.267 | 1.276 | 0.68 | |
| 2-Chloronaphthalene | 1 | 0 | | 7.85 | 49.90 | 50 | 20 | 0.8 | 1.104 | 1.102 | 0.21 | |
| 1,4-Dimethylnaphthalene | 1 | 0 | | 8.14 | 53.18 | 50 | ** | | 0.868 | 0.923 | 6.37 | |
| Dimethylnaphthalenes | 1 | 0 | | 8.14 | 53.18 | 50 | 20 | | | 0.923 | 6.37 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

# Form7

Continuing Calibration

**Calibration Name:** CAL BNA@50PPM **Data File:** 10M87404.D **Instrument:** GCMS 10

**Cont Calibration Date/Time** 9/21/2021 10:04:00 Method: EPA 8270E

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diphenyl Ether | 1 | 0 | | 7.91 | 50.26 | 50 | ** | | 0.782 | 0.786 | 0.52 | |
| 2-Nitroaniline | 1 | 0 | | 7.93 | 52.88 | 50 | 20 | 0.01 | 0.359 | 0.380 | 5.76 | |
| Coumarin | 1 | 0 | | 8.12 | 53.74 | | ** | | 0.425 | | | |
| Acenaphthylene | 1 | 0 | | 8.22 | 51.40 | 50 | 20 | 0.9 | 1.696 | 1.744 | 2.81 | |
| Dimethylphthalate | 1 | 0 | | 8.07 | 51.28 | 50 | 20 | 0.01 | 1.198 | 1.229 | 2.57 | |
| 2,6-Dinitrotoluene | 1 | 0 | | 8.13 | 54.44 | 50 | 20 | 0.2 | 0.264 | 0.288 | 8.88 | |
| Acenaphthene | 1 | 0 | | 8.37 | 51.08 | 50 | 20 | 0.9 | 1.115 | 1.139 | 2.15 | |
| 3-Nitroaniline | 1 | 0 | | 8.29 | 52.84 | 50 | 20 | 0.01 | 0.332 | 0.351 | 5.67 | |
| 2,4-Dinitrophenol | 1 | 0 | | 8.38 | 49.42 | 50 | 20 | 0.2 | 0.138 | 0.136 | 1.17 | |
| Dibenzofuran | 1 | 0 | | 8.52 | 49.18 | 50 | 20 | 0.8 | 1.597 | 1.571 | 1.65 | |
| 2,4-Dinitrotoluene | 1 | 0 | | 8.49 | 51.80 | 50 | 20 | 0.2 | 0.363 | 0.381 | 3.60 | |
| 4-Nitrophenol | 1 | 0 | | 8.42 | 49.71 | 50 | 20 | 0.01 | 0.196 | 0.207 | 0.58 | |
| 2,3,4,6-Tetrachlorophenol | 1 | 0 | | 8.63 | 52.31 | 50 | 20 | 0.01 | 0.252 | 0.263 | 4.62 | |
| Fluorene | 1 | 0 | | 8.84 | 51.46 | 50 | 20 | 0.9 | 1.259 | 1.296 | 2.93 | |
| 4-Chlorophenyl-phenylether | 1 | 0 | | 8.83 | 51.05 | 50 | 20 | 0.4 | 0.542 | 0.553 | 2.10 | |
| Diethylphthalate | 1 | 0 | | 8.70 | 52.33 | 50 | 20 | 0.01 | 1.185 | 1.240 | 4.66 | |
| 4-Nitroaniline | 1 | 0 | | 8.85 | 52.31 | 50 | 20 | 0.01 | 0.351 | 0.378 | 4.61 | |
| Atrazine | 1 | 0 | | 9.47 | 52.43 | 50 | 20 | 0.01 | 0.309 | 0.324 | 4.86 | |
| Phenanthrene-d10 | 1 | 0 | I | 9.80 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 4,6-Dinitro-2-methylphenol | 1 | 0 | | 8.88 | 51.08 | 50 | 20 | 0.01 | 0.109 | 0.110 | 2.16 | |
| n-Nitrosodiphenylamine | 1 | 0 | | 8.94 | 51.50 | 50 | 20 | 0.01 | 0.608 | 0.626 | 3.00 | |
| 2,4,6-Tribromophenol | 1 | 0 | S | 9.08 | 50.89 | 50 | ** | | 0.073 | 0.075 | 1.78 | |
| 1,2-Diphenylhydrazine | 1 | 0 | | 8.99 | 54.00 | 50 | ** | | 0.698 | 0.754 | 8.01 | |
| 4-Bromophenyl-phenylether | 1 | 0 | | 9.32 | 50.28 | 50 | 20 | 0.1 | 0.159 | 0.160 | 0.56 | |
| Hexachlorobenzene | 1 | 0 | | 9.39 | 48.91 | 50 | 20 | 0.1 | 0.168 | 0.164 | 2.17 | |
| N-Octadecane | 1 | 0 | | 9.64 | 51.73 | 50 | ** | 0.05 | 0.481 | 0.498 | 3.47 | |
| Pentachlorophenol | 1 | 0 | | 9.59 | 47.50 | 50 | 20 | 0.05 | 0.097 | 0.092 | 5.01 | |
| Phenanthrene | 1 | 0 | | 9.82 | 50.30 | 50 | 20 | 0.7 | 0.997 | 1.003 | 0.59 | |
| Anthracene | 1 | 0 | | 9.88 | 51.58 | 50 | 20 | 0.7 | 1.014 | 1.046 | 3.17 | |
| Carbazole | 1 | 0 | | 10.05 | 51.21 | 50 | 20 | 0.01 | 0.969 | 0.992 | 2.41 | |
| Di-n-butylphthalate | 1 | 0 | | 10.42 | 51.06 | 50 | 20 | 0.01 | 1.096 | 1.175 | 2.11 | |
| Fluoranthene | 1 | 0 | | 11.15 | 51.51 | 50 | 20 | 0.6 | 0.980 | 1.009 | 3.03 | |
| Chrysene-d12 | 1 | 0 | I | 12.85 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| Pyrene | 1 | 0 | | 11.42 | 50.83 | 50 | 20 | 0.6 | 1.340 | 1.362 | 1.65 | |
| Benzidine | 1 | 0 | | 11.30 | 51.80 | 50 | ** | | 0.807 | 0.836 | 3.60 | |
| Terphenyl-d14 | 1 | 0 | S | 11.59 | 24.67 | 25 | ** | | 0.623 | 0.615 | 1.32 | |
| 4,4'-DDE | 1 | 0 | | 11.53 | 50.69 | | ** | | 0.262 | | | |
| 4,4'-DDD | 1 | 0 | | 11.93 | 51.89 | | ** | | 0.451 | | | |
| Butylbenzylphthalate | 1 | 0 | | 12.17 | 52.11 | 50 | 20 | 0.01 | 0.621 | 0.661 | 4.22 | |
| 4,4'-DDT | 1 | 0 | | 12.28 | 53.38 | | ** | | 0.389 | | | |
| 3,3'-Dichlorobenzidine | 1 | 0 | | 12.81 | 51.37 | 50 | 20 | 0.01 | 0.414 | 0.447 | 2.74 | |
| Benzo[a]anthracene | 1 | 0 | | 12.83 | 49.90 | 50 | 20 | 0.8 | 1.120 | 1.118 | 0.19 | |
| Chrysene | 1 | 0 | | 12.88 | 48.96 | 50 | 20 | 0.7 | 1.122 | 1.099 | 2.09 | |
| bis(2-Ethylhexyl)phthalate | 1 | 0 | | 12.86 | 53.24 | 50 | 20 | 0.01 | 0.874 | 0.930 | 6.47 | |
| Perylene-d12 | 1 | 0 | I | 14.47 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| Di-n-octylphthalate | 1 | 0 | | 13.61 | 52.71 | 50 | 20 | 0.01 | 1.372 | 1.522 | 5.42 | |
| Benzo[b]fluoranthene | 1 | 0 | | 14.05 | 50.04 | 50 | 20 | 0.7 | 0.997 | 0.998 | 0.08 | |
| Benzo[k]fluoranthene | 1 | 0 | | 14.07 | 54.02 | 50 | 20 | 0.7 | 0.982 | 1.061 | 8.04 | |
| Benzo[a]pyrene | 1 | 0 | | 14.41 | 51.77 | 50 | 20 | 0.7 | 0.918 | 0.951 | 3.55 | |
| Indeno[1,2,3-cd]pyrene | 1 | 0 | | 15.82 | 52.19 | 50 | 20 | 0.5 | 1.021 | 1.066 | 4.38 | |
| Dibenzo[a,h]anthracene | 1 | 0 | | 15.83 | 51.96 | 50 | 20 | 0.4 | 0.876 | 0.910 | 3.93 | |
| Benzo[g,h,i]perylene | 1 | 0 | | 16.20 | 51.62 | 50 | 20 | 0.5 | 0.865 | 0.893 | 3.23 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

# Form7

Continuing Calibration

**Calibration Name:** CAL BNA@50PPM **Data File:** 10M87404.D **Instrument:** GCMS 10

**Cont Calibration Date/Time** 9/21/2021 10:04:00 Method: EPA 8270E

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene Diisocyanate | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| 1,4-Dioxane-d8-Surro | 1 | 100 | | 0.00 | 0.00 | 40 | ** | | | 0.000 | 100.00 | |
| 2,2'-oxybis-(1-Chloropropane) | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| 1,4-Dioxane-d8 | 1 | 100 | | 0.00 | 0.00 | 40 | ** | | | 0.000 | 100.00 | |
| Methylnaphthalenes (Total) | 1 | 100 | | 0.00 | 0.00 | 100 | ** | | 0.600 | 0.000 | 100.00 | |
| Methoxychlor | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| Heptachlor epoxide | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| Heptachlor | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| gamma-BHC | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| Dimethylnaphthalenes (Total) | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | 0.868 | 0.000 | 100.00 | |
| Diaminotoluene Dihydrochloride | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| 2,4 Diaminotoluene | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| 4-Methylphenol | 1 | 100 | | 0.00 | 0.00 | 50 | ** | 0.6 | | 0.000 | 100.00 | |
| Endrin | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87404.D  Sam Mult : 1  Vial# : 2  Qt On : 09/21/21 10:22
Acq On : 09/21/21 10:04  Misc : A,BNA  Qt Upd On: 09/20/21 13:43

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 29178 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 56745 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 230351 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 114462 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 204411 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.849 | 240 | 156731 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.475 | 264 | 163078 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 80531 | 50.57 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.57% | | | |
| 16) Phenol-d5 | 5.591 | 99 | 97232 | 50.21 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.21% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 20484 | 25.84 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 51.68% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 91267 | 25.17 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 50.34% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 19230 | 50.89 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.89% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 60235 | 24.67 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 49.34% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.777 | 88 | 33290 | 48.8285 | ng | 66 |
| 9) Pyridine | 3.264 | 79 | 65493 | 50.1425 | ng | 80 |
| 10) N-Nitrosodimethylamine | 3.189 | 74 | 52887 | 52.2429 | ng | 82 |
| 12) Benzaldehyde | 5.532 | 77 | 71279 | 50.6239 | ng | 67 |
| 13) Aniline | 5.623 | 93 | 125117 | 49.6949 | ng | 68 |
| 14) Pentachloroethane | 5.665 | 117 | 29464 | 50.1617 | ng | 81 |
| 15) bis(2-Chloroethyl)ether | 5.676 | 93 | 84173 | 48.1150 | ng | 83 |
| 17) Phenol | 5.601 | 94 | 116361 | 50.3754 | ng | 83 |
| 18) 2-Chlorophenol | 5.724 | 128 | 91858 | 51.1851 | ng | 78 |
| 19) N-Decane | 5.762 | 57 | 101812 | 49.6284 | ng | 91 |
| 20) 1,3-Dichlorobenzene | 5.853 | 146 | 100293 | 49.8853 | ng | 96 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 102848 | 51.3106 | ng | 98 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 96290 | 50.5390 | ng | 98 |
| 24) Benzyl alcohol | 6.013 | 108 | 58396 | 52.4601 | ng | 66 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 139077 | 49.7882 | ng | 95 |
| 26) 2-Methylphenol | 6.104 | 108 | 82891 | 51.3581 | ng | 97 |
| 27) Acetophenone | 6.227 | 105 | 120008 | 53.3981 | ng | 74 |
| 28) Hexachloroethane | 6.313 | 117 | 37044 | 51.3756 | ng | 83 |
| 29) N-Nitroso-di-n-propyla... | 6.227 | 70 | 60842 | 54.9159 | ng | 78 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 86689 | 55.0656 | ng | 97 |
| 33) Nitrobenzene | 6.366 | 77 | 85504 | 51.6192 | ng | 71 |
| 34) Isophorone | 6.548 | 82 | 158682 | 51.7552 | ng | 83 |
| 35) 2-Nitrophenol | 6.612 | 139 | 49416 | 53.3461 | ng | 80 |
| 36) 2,4-Dimethylphenol | 6.634 | 107 | 82004 | 53.1524 | ng | 90 |
| 37) Benzoic Acid | 6.703 | 105 | 44811m | 47.4572 | ng | |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 99592 | 51.2609 | ng | 95 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 72408 | 52.2279 | ng | 86 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 74799 | 51.7762 | ng | 97 |
| 41) Naphthalene | 6.922 | 128 | 278659 | 51.8997 | ng | 99 |
| 42) 4-Chloroaniline | 6.954 | 127 | 105853m | 52.8299 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 35418 | 51.7684 | ng | 96 |
| 44) Caprolactam | 7.233 | 113 | 29436 | 55.1183 | ng | 69 |
| 45) 4-Chloro-3-methylphenol | 7.324 | 107 | 72307 | 51.7470 | ng | 76 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 185482 | 52.0824 | ng | 97 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 175629 | 51.9874 | ng | 96 |
| 48) Methylnaphthalenes (To... | 7.457 | 142 | 358569m | 103.7343 | ng | |
| 49) 1,1'-Biphenyl | 7.832 | 154 | 207729 | 51.6938 | ng | 93 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 67037 | 50.8805 | ng | 97 |
| 52) Hexachlorocyclopentadiene | 7.575 | 237 | 28472 | 48.8698 | ng | 97 |
| 53) 2,4,6-Trichlorophenol | 7.677 | 196 | 45986 | 51.8734 | ng | 98 |
| 54) 2,4,5-Trichlorophenol | 7.714 | 196 | 50005 | 52.4346 | ng | 98 |
| 56) 2-Chloronaphthalene | 7.853 | 162 | 157623 | 49.8963 | ng | 93 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 132100 | 53.1843 | ng | 85 |
| 58) Dimethylnaphthalenes (... | 8.136 | 156 | 132100 | 53.1843 | ng | 85 |
| 59) Diphenyl Ether | 7.912 | 170 | 112411 | 50.2594 | ng | 79 |
| 60) 2-Nitroaniline | 7.933 | 65 | 54301 | 52.8782 | ng | 46 |
| 61) Coumarin | 8.120 | 146 | 65396 | 53.7389 | ng | 86 |
| 62) Acenaphthylene | 8.217 | 152 | 249462 | 51.4030 | ng | 99 |
| 63) Dimethylphthalate | 8.072 | 163 | 175879 | 51.2836 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.131 | 165 | 41177 | 54.4389 | ng | 67 |
| 65) Acenaphthene | 8.367 | 153 | 162952 | 51.0750 | ng | 96 |

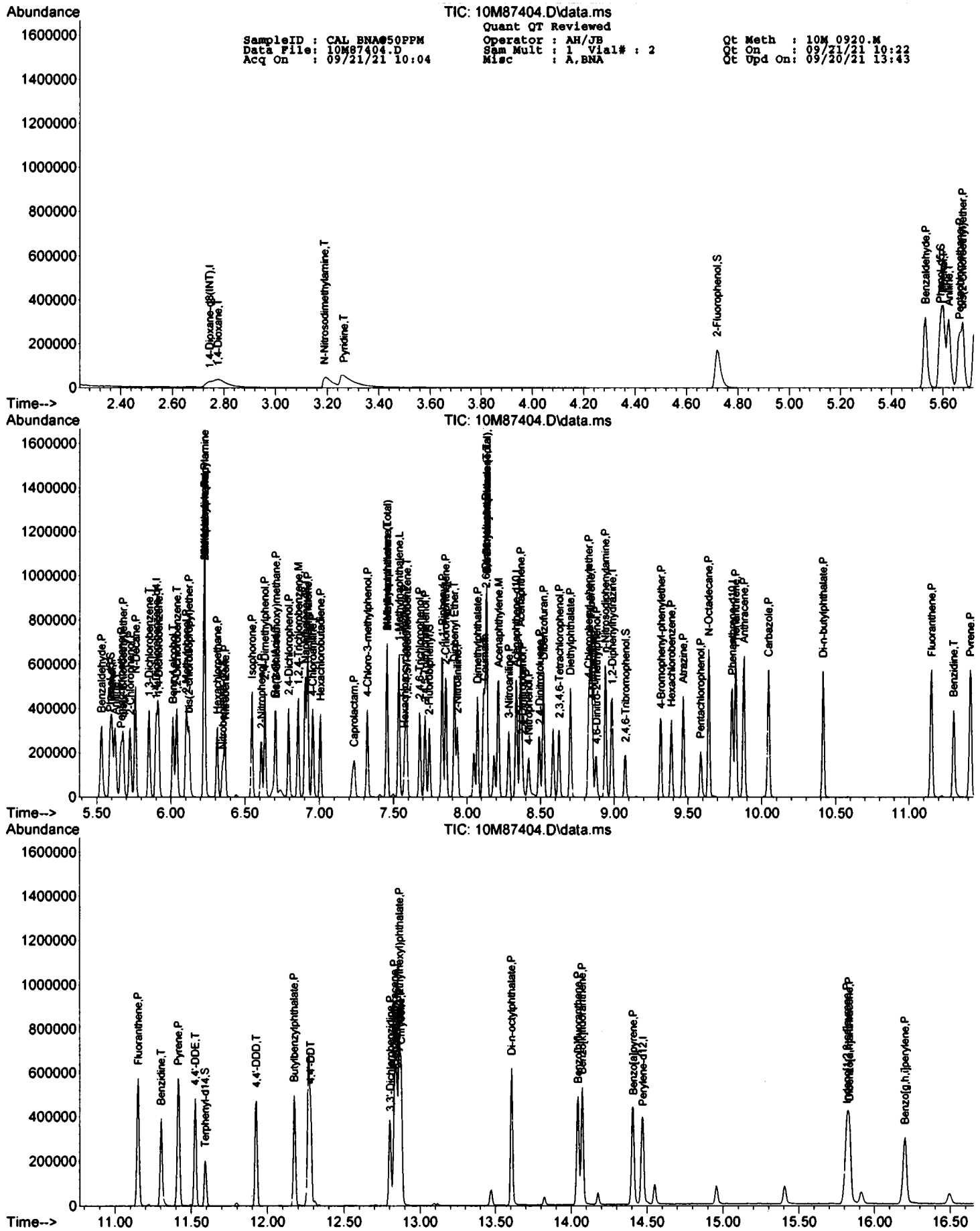
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM  Operator : AH/JB  Qt Meth : 10M_0920.M
Data File: 10M87404.D  Sam Mult : 1 Vial# : 2  Qt On : 09/21/21 10:22
Acq On : 09/21/21 10:04  Misc : A,BNA  Qt Upd On: 09/20/21 13:43

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.286 | 138 | 50197 | 52.8368 | ng | 69 |
| 67) | 2,4-Dinitrophenol | 8.377 | 184 | 19456 | 49.4162 | ng | 43 |
| 68) | Dibenzofuran | 8.522 | 168 | 224726 | 49.1770 | ng | 84 |
| 69) | 2,4-Dinitrotoluene | 8.495 | 165 | 54554 | 51.7982 | ng | 57 |
| 70) | 4-Nitrophenol | 8.420 | 65 | 29550 | 49.7111 | ng | 90 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.629 | 232 | 37676 | 52.3105 | ng | 90 |
| 72) | Fluorene | 8.843 | 166 | 185378 | 51.4634 | ng | 98 |
| 73) | 4-Chlorophenyl-phenyle... | 8.826 | 204 | 79183 | 51.0501 | ng | 91 |
| 74) | Diethylphthalate | 8.703 | 149 | 177435 | 52.3318 | ng | 97 |
| 75) | 4-Nitroaniline | 8.853 | 138 | 54097 | 52.3052 | ng | 67 |
| 76) | Atrazine | 9.468 | 200 | 46350 | 52.4292 | ng | 98 |
| 78) | 4,6-Dinitro-2-methylph... | 8.880 | 198 | 28067 | 51.0790 | ng | 65 |
| 79) | n-Nitrosodiphenylamine | 8.939 | 169 | 159911 | 51.5012 | ng | 97 |
| 81) | 1,2-Diphenylhydrazine | 8.987 | 77 | 192759 | 54.0041 | ng | 76 |
| 82) | 4-Bromophenyl-phenylether | 9.319 | 248 | 40964 | 50.2800 | ng | 90 |
| 83) | Hexachlorobenzene | 9.388 | 284 | 41885 | 48.9142 | ng | 73 |
| 84) | N-Octadecane | 9.639 | 57 | 127180 | 51.7348 | ng | 90 |
| 85) | Pentachlorophenol | 9.586 | 266 | 23499 | 47.4967 | ng | 98 |
| 86) | Phenanthrene | 9.821 | 178 | 256352 | 50.2968 | ng | 98 |
| 87) | Anthracene | 9.880 | 178 | 267305 | 51.5839 | ng | 99 |
| 88) | Carbazole | 10.046 | 167 | 253525 | 51.2064 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.415 | 149 | 300195 | 51.0552 | ng | 97 |
| 90) | Fluoranthene | 11.153 | 202 | 257933 | 51.5139 | ng | 95 |
| 92) | Pyrene | 11.415 | 202 | 266795 | 50.8270 | ng | 94 |
| 93) | Benzidine | 11.303 | 184 | 163784 | 51.8020 | ng | 88 |
| 95) | 4,4'-DDE | 11.528 | 246 | 52025 | 50.6941 | ng | 91 |
| 96) | 4,4'-DDD | 11.929 | 235 | 91682 | 51.8902 | ng | 90 |
| 97) | Butylbenzylphthalate | 12.175 | 149 | 129582 | 52.1081 | ng | 73 |
| 98) | 4,4'-DDT | 12.282 | 235 | 81292 | 53.3817 | ng | 92 |
| 99) | 3,3'-Dichlorobenzidine | 12.806 | 252 | 87554 | 51.3703 | ng | 96 |
| 100) | Benzo[a]anthracene | 12.833 | 228 | 218961 | 49.9044 | ng | 99 |
| 101) | Chrysene | 12.875 | 228 | 215242 | 48.9561 | ng | 97 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.865 | 149 | 182248 | 53.2351 | ng | 92 |
| 104) | Di-n-octylphthalate | 13.608 | 149 | 310261 | 52.7104 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.047 | 252 | 203353 | 50.0396 | ng | 95 |
| 106) | Benzo[k]fluoranthene | 14.073 | 252 | 216255 | 54.0178 | ng | 97 |
| 107) | Benzo[a]pyrene | 14.410 | 252 | 193821 | 51.7739 | ng | 95 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.817 | 276 | 217336 | 52.1883 | ng | 100 |
| 109) | Dibenzo[a,h]anthracene | 15.833 | 278 | 185490 | 51.9629 | ng | 98 |
| 110) | Benzo[g,h,i]perylene | 16.202 | 276 | 181965 | 51.6167 | ng | 87 |

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


Abundance
TIC: 10M87404.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 10M87404.D
Acq On : 09/21/21 10:04
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:22
Qt Upd On: 09/20/21 13:43
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->
Abundance
TIC: 10M87404.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 10M87404.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Di-n-octylphthalate,P
Benzo(b)fluoranthene,P
Benzo(k)fluoranthene,P
Benzo(a)pyrene,P
Perylene-d12,I
Indeno(1,2,3-cd)pyrene,P
Dibenz(a,h)anthracene,P
Benzo(g,h,i)perylene,P
Time-->

# Form7

Continuing Calibration

**Calibration Name:** CAL BNA@50PPM **Data File:** 5M117935.D **Instrument:** GCMS 5

**Cont Calibration Date/Time** 9/21/2021 10:26:00 **Method:** EPA 8270E

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane-d8(INT) | 1 | 0 | I | 2.59 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 1,4-Dioxane | 1 | 0 | | 2.63 | 49.60 | 50 | ** | | 0.883 | 0.898 | 0.80 | |
| Pyridine | 1 | 0 | | 3.08 | 48.82 | 50 | ** | | 1.893 | 1.848 | 2.37 | |
| N-Nitrosodimethylamine | 1 | 0 | | 3.03 | 49.70 | 50 | ** | | 1.404 | 1.396 | 0.61 | |
| 2-Fluorophenol | 1 | 0 | S | 4.61 | 49.17 | 50 | ** | | 1.435 | 1.411 | 1.67 | |
| Benzaldehyde | 1 | 0 | | 5.44 | 48.32 | 50 | 20 | 0.01 | 1.358 | 1.312 | 3.36 | |
| Aniline | 1 | 0 | | 5.53 | 46.31 | 50 | ** | | 2.246 | 2.081 | 7.37 | |
| Pentachloroethane | 1 | 0 | | 5.58 | 47.62 | 50 | ** | 0.05 | 0.518 | 0.493 | 4.75 | |
| bis(2-Chloroethyl)ether | 1 | 0 | | 5.59 | 47.32 | 50 | 20 | 0.7 | 1.555 | 1.471 | 5.37 | |
| Phenol-d5 | 1 | 0 | S | 5.49 | 48.69 | 50 | ** | | 1.718 | 1.674 | 2.61 | |
| Phenol | 1 | 0 | | 5.51 | 48.20 | 50 | 20 | 0.8 | 2.081 | 2.006 | 3.60 | |
| 2-Chlorophenol | 1 | 0 | | 5.64 | 48.02 | 50 | 20 | 0.8 | 1.548 | 1.487 | 3.95 | |
| N-Decane | 1 | 0 | | 5.67 | 47.74 | 50 | ** | 0.05 | 1.367 | 1.306 | 4.51 | |
| 1,3-Dichlorobenzene | 1 | 0 | | 5.76 | 48.14 | 50 | ** | | 1.768 | 1.702 | 3.73 | |
| 1,4-Dichlorobenzene-d4 | 1 | 0 | I | 5.82 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 1,4-Dichlorobenzene | 1 | 0 | | 5.83 | 49.96 | 50 | 20 | | 1.413 | 1.412 | 0.09 | |
| 1,2-Dichlorobenzene | 1 | 0 | | 5.96 | 50.21 | 50 | ** | | 1.324 | 1.329 | 0.43 | |
| Benzyl alcohol | 1 | 0 | | 5.93 | 51.56 | 50 | ** | | 0.759 | 0.783 | 3.11 | |
| bis(2-chloroisopropyl)ether | 1 | 0 | | 6.04 | 49.37 | 50 | 20 | 0.01 | 1.292 | 1.276 | 1.26 | |
| 2-Methylphenol | 1 | 0 | | 6.01 | 51.35 | 50 | 20 | 0.7 | 1.076 | 1.105 | 2.70 | |
| Acetophenone | 1 | 0 | | 6.14 | 50.78 | 50 | 20 | 0.01 | 1.634 | 1.659 | 1.56 | |
| Hexachloroethane | 1 | 0 | | 6.23 | 48.30 | 50 | 20 | 0.3 | 0.518 | 0.500 | 3.41 | |
| N-Nitroso-di-n-propylamine | 1 | 0 | | 6.14 | 50.67 | 50 | 20 | 0.5 | 0.787 | 0.797 | 1.33 | |
| 3&4-Methylphenol | 1 | 0 | | 6.14 | 51.74 | 50 | 20 | | 1.067 | 1.105 | 3.48 | |
| Naphthalene-d8 | 1 | 0 | I | 6.82 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| Nitrobenzene-d5 | 1 | 0 | S | 6.27 | 25.85 | 25 | ** | | 0.136 | 0.141 | 3.41 | |
| Nitrobenzene | 1 | 0 | | 6.28 | 50.42 | 50 | 20 | 0.2 | 0.322 | 0.325 | 0.84 | |
| Isophorone | 1 | 0 | | 6.47 | 51.16 | 50 | 20 | 0.4 | 0.575 | 0.588 | 2.32 | |
| 2-Nitrophenol | 1 | 0 | | 6.53 | 53.27 | 50 | 20 | 0.1 | 0.157 | 0.168 | 6.55 | |
| 2,4-Dimethylphenol | 1 | 0 | | 6.55 | 52.63 | 50 | 20 | 0.2 | 0.295 | 0.310 | 5.26 | |
| Benzoic Acid | 1 | 0 | | 6.61 | 43.90 | 50 | ** | | 0.198 | 0.161 | 12.20 | |
| bis(2-Chloroethoxy)methane | 1 | 0 | | 6.63 | 49.68 | 50 | 20 | 0.3 | 0.346 | 0.344 | 0.64 | |
| 2,4-Dichlorophenol | 1 | 0 | | 6.71 | 53.19 | 50 | 20 | 0.2 | 0.250 | 0.266 | 6.37 | |
| 1,2,4-Trichlorobenzene | 1 | 0 | | 6.78 | 50.78 | 50 | ** | | 0.300 | 0.305 | 1.55 | |
| Naphthalene | 1 | 0 | | 6.84 | 50.76 | 50 | 20 | 0.7 | 0.932 | 0.946 | 1.51 | |
| 4-Chloroaniline | 1 | 0 | | 6.87 | 51.49 | 50 | 20 | 0.01 | 0.347 | 0.357 | 2.98 | |
| Hexachlorobutadiene | 1 | 0 | | 6.92 | 51.67 | 50 | 20 | 0.01 | 0.183 | 0.189 | 3.34 | |
| Caprolactam | 1 | 0 | | 7.15 | 52.63 | 50 | 20 | 0.01 | 0.092 | 0.094 | 5.26 | |
| 4-Chloro-3-methylphenol | 1 | 0 | | 7.23 | 52.51 | 50 | 20 | 0.2 | 0.256 | 0.269 | 5.01 | |
| 2-Methylnaphthalene | 1 | 0 | | 7.37 | 51.34 | 50 | ** | 0.4 | 0.602 | 0.618 | 2.68 | |
| 1-Methylnaphthalene | 1 | 0 | | 7.45 | 50.97 | 50 | ** | 0.4 | 0.571 | 0.583 | 1.95 | |
| Methylnaphthalenes | 1 | 0 | | 7.37 | 102.46 | 50 | ** | | | 1.197 | 104.91 | |
| 1,1'-Biphenyl | 1 | 0 | | 7.75 | 51.60 | 50 | 20 | 0.01 | 0.716 | 0.739 | 3.20 | |
| Acenaphthene-d10 | 1 | 0 | I | 8.25 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 1,2,4,5-Tetrachlorobenzene | 1 | 0 | | 7.50 | 51.86 | 50 | 20 | 0.01 | 0.598 | 0.621 | 3.72 | |
| Hexachlorocyclopentadiene | 1 | 0 | | 7.49 | 51.61 | 50 | 20 | 0.05 | 0.321 | 0.331 | 3.23 | |
| 2,4,6-Trichlorophenol | 1 | 0 | | 7.59 | 51.25 | 50 | 20 | 0.2 | 0.373 | 0.382 | 2.50 | |
| 2,4,5-Trichlorophenol | 1 | 0 | | 7.62 | 51.53 | 50 | 20 | 0.2 | 0.393 | 0.405 | 3.06 | |
| 2-Fluorobiphenyl | 1 | 0 | S | 7.66 | 25.63 | 25 | ** | | 1.302 | 1.334 | 2.51 | |
| 2-Chloronaphthalene | 1 | 0 | | 7.77 | 50.17 | 50 | 20 | 0.8 | 1.115 | 1.118 | 0.34 | |
| 1,4-Dimethylnaphthalene | 1 | 0 | | 8.05 | 50.80 | 50 | ** | | 0.833 | 0.847 | 1.61 | |
| Dimethylnaphthalenes | 1 | 0 | | 8.05 | 50.80 | 50 | 20 | | | 0.847 | 1.61 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

# Form7

Continuing Calibration

**Calibration Name:** CAL BNA@50PPM **Data File:** 5M117935.D **Instrument:** GCMS 5

**Cont Calibration Date/Time** 9/21/2021 10:26:00 Method: EPA 8270E

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diphenyl Ether | 1 | 0 | | 7.83 | 50.73 | 50 | ** | | 0.789 | 0.801 | 1.45 | |
| 2-Nitroaniline | 1 | 0 | | 7.85 | 51.88 | 50 | 20 | 0.01 | 0.362 | 0.375 | 3.76 | |
| Coumarin | 1 | 0 | | 8.04 | 52.33 | | ** | | 0.412 | | | |
| Acenaphthylene | 1 | 0 | | 8.13 | 51.43 | 50 | 20 | 0.9 | 1.602 | 1.647 | 2.85 | |
| Dimethylphthalate | 1 | 0 | | 8.00 | 51.31 | 50 | 20 | 0.01 | 1.260 | 1.293 | 2.62 | |
| 2,6-Dinitrotoluene | 1 | 0 | | 8.06 | 53.73 | 50 | 20 | 0.2 | 0.269 | 0.290 | 7.46 | |
| Acenaphthene | 1 | 0 | | 8.28 | 51.35 | 50 | 20 | 0.9 | 1.067 | 1.096 | 2.70 | |
| 3-Nitroaniline | 1 | 0 | | 8.20 | 53.44 | 50 | 20 | 0.01 | 0.295 | 0.316 | 6.88 | |
| 2,4-Dinitrophenol | 1 | 0 | | 8.30 | 49.55 | 50 | 20 | 0.2 | 0.152 | 0.144 | 0.91 | |
| Dibenzofuran | 1 | 0 | | 8.44 | 50.26 | 50 | 20 | 0.8 | 1.599 | 1.607 | 0.53 | |
| 2,4-Dinitrotoluene | 1 | 0 | | 8.41 | 50.30 | 50 | 20 | 0.2 | 0.369 | 0.388 | 0.61 | |
| 4-Nitrophenol | 1 | 0 | | 8.33 | 51.52 | 50 | 20 | 0.01 | 0.220 | 0.237 | 3.05 | |
| 2,3,4,6-Tetrachlorophenol | 1 | 0 | | 8.54 | 54.08 | 50 | 20 | 0.01 | 0.333 | 0.361 | 8.15 | |
| Fluorene | 1 | 0 | | 8.76 | 51.58 | 50 | 20 | 0.9 | 1.234 | 1.274 | 3.17 | |
| 4-Chlorophenyl-phenylether | 1 | 0 | | 8.75 | 50.58 | 50 | 20 | 0.4 | 0.632 | 0.639 | 1.15 | |
| Diethylphthalate | 1 | 0 | | 8.63 | 51.45 | 50 | 20 | 0.01 | 1.209 | 1.244 | 2.89 | |
| 4-Nitroaniline | 1 | 0 | | 8.77 | 52.68 | 50 | 20 | 0.01 | 0.314 | 0.331 | 5.35 | |
| Atrazine | 1 | 0 | | 9.39 | 53.62 | 50 | 20 | 0.01 | 0.368 | 0.394 | 7.25 | |
| Phenanthrene-d10 | 1 | 0 | I | 9.72 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| 4,6-Dinitro-2-methylphenol | 1 | 0 | | 8.79 | 49.75 | 50 | 20 | 0.01 | 0.106 | 0.113 | 0.50 | |
| n-Nitrosodiphenylamine | 1 | 0 | | 8.86 | 50.78 | 50 | 20 | 0.01 | 0.545 | 0.553 | 1.57 | |
| 2,4,6-Tribromophenol | 1 | 0 | S | 8.99 | 53.10 | 50 | ** | | 0.095 | 0.101 | 6.20 | |
| 1,2-Diphenylhydrazine | 1 | 0 | | 8.90 | 48.35 | 50 | ** | | 0.641 | 0.620 | 3.30 | |
| 4-Bromophenyl-phenylether | 1 | 0 | | 9.24 | 52.10 | 50 | 20 | 0.1 | 0.200 | 0.208 | 4.19 | |
| Hexachlorobenzene | 1 | 0 | | 9.30 | 50.43 | 50 | 20 | 0.1 | 0.217 | 0.219 | 0.87 | |
| N-Octadecane | 1 | 0 | | 9.57 | 52.59 | 50 | ** | 0.05 | 0.308 | 0.324 | 5.17 | |
| Pentachlorophenol | 1 | 0 | | 9.50 | 50.55 | 50 | 20 | 0.05 | 0.129 | 0.140 | 1.10 | |
| Phenanthrene | 1 | 0 | | 9.74 | 50.96 | 50 | 20 | 0.7 | 0.941 | 0.959 | 1.93 | |
| Anthracene | 1 | 0 | | 9.80 | 51.55 | 50 | 20 | 0.7 | 0.951 | 0.980 | 3.09 | |
| Carbazole | 1 | 0 | | 9.97 | 52.18 | 50 | 20 | 0.01 | 0.859 | 0.896 | 4.36 | |
| Di-n-butylphthalate | 1 | 0 | | 10.34 | 50.73 | 50 | 20 | 0.01 | 0.952 | 1.053 | 1.45 | |
| Fluoranthene | 1 | 0 | | 11.07 | 52.60 | 50 | 20 | 0.6 | 1.045 | 1.099 | 5.21 | |
| Chrysene-d12 | 1 | 0 | I | 12.77 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| Pyrene | 1 | 0 | | 11.34 | 51.16 | 50 | 20 | 0.6 | 1.107 | 1.133 | 2.32 | |
| Benzidine | 1 | 0 | | 11.23 | 50.53 | 50 | ** | | 0.610 | 0.656 | 1.07 | |
| Terphenyl-d14 | 1 | 0 | S | 11.52 | 25.55 | 25 | ** | | 0.604 | 0.617 | 2.20 | |
| 4,4'-DDE | 1 | 0 | | 11.45 | 50.75 | | ** | | 0.277 | | | |
| 4,4'-DDD | 1 | 0 | | 11.85 | 53.33 | | ** | | 0.441 | | | |
| Butylbenzylphthalate | 1 | 0 | | 12.11 | 51.53 | 50 | 20 | 0.01 | 0.443 | 0.477 | 3.06 | |
| 4,4'-DDT | 1 | 0 | | 12.21 | 52.54 | | ** | | 0.380 | | | |
| 3,3'-Dichlorobenzidine | 1 | 0 | | 12.73 | 49.20 | 50 | 20 | 0.01 | 0.393 | 0.415 | 1.60 | |
| Benzo[a]anthracene | 1 | 0 | | 12.76 | 51.24 | 50 | 20 | 0.8 | 1.080 | 1.106 | 2.48 | |
| Chrysene | 1 | 0 | | 12.80 | 50.31 | 50 | 20 | 0.7 | 1.061 | 1.068 | 0.62 | |
| bis(2-Ethylhexyl)phthalate | 1 | 0 | | 12.80 | 51.55 | 50 | 20 | 0.01 | 0.621 | 0.665 | 3.11 | |
| Perylene-d12 | 1 | 0 | I | 14.39 | 40.00 | 40 | ** | | | 0.000 | 0.00 | |
| Di-n-octylphthalate | 1 | 0 | | 13.55 | 50.29 | 50 | 20 | 0.01 | 0.907 | 0.986 | 0.58 | |
| Benzo[b]fluoranthene | 1 | 0 | | 13.97 | 52.87 | 50 | 20 | 0.7 | 0.943 | 0.997 | 5.75 | |
| Benzo[k]fluoranthene | 1 | 0 | | 14.00 | 50.04 | 50 | 20 | 0.7 | 0.950 | 0.951 | 0.07 | |
| Benzo[a]pyrene | 1 | 0 | | 14.33 | 52.46 | 50 | 20 | 0.7 | 0.886 | 0.930 | 4.92 | |
| Indeno[1,2,3-cd]pyrene | 1 | 0 | | 15.71 | 51.57 | 50 | 20 | 0.5 | 1.050 | 1.083 | 3.13 | |
| Dibenzo[a,h]anthracene | 1 | 0 | | 15.73 | 51.49 | 50 | 20 | 0.4 | 0.890 | 0.917 | 2.99 | |
| Benzo[g,h,i]perylene | 1 | 0 | | 16.08 | 50.34 | 50 | 20 | 0.5 | 0.886 | 0.892 | 0.67 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

# Form7

Continuing Calibration

**Calibration Name:** CAL BNA@50PPM **Data File:** 5M117935.D **Instrument:** GCMS 5

**Cont Calibration Date/Time** 9/21/2021 10:26:00 Method: EPA 8270E

| TxtCompd: | Col# | Multi Num | Type | RT | Conc | Conc Exp | Lo Lim | MIN RF | Initial RF | RF | %Diff | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane-d8 | 1 | 100 | | 0.00 | 0.00 | 40 | ** | | | 0.000 | 100.00 | |
| Toluene Diisocyanate | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| Endrin | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| 1,4-Dioxane-d8-Surro | 1 | 100 | | 0.00 | 0.00 | 40 | ** | | | 0.000 | 100.00 | |
| Diaminotoluene Dihydrochloride | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| Heptachlor epoxide | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| Dimethylnaphthalenes (Total) | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | 0.833 | 0.000 | 100.00 | |
| gamma-BHC | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| Methylnaphthalenes (Total) | 1 | 100 | | 0.00 | 0.00 | 100 | ** | | 0.584 | 0.000 | 100.00 | |
| Methoxychlor | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| Heptachlor | 1 | 100 | | 0.00 | 0.00 | 10 | ** | | | 0.000 | 100.00 | |
| 4-Methylphenol | 1 | 100 | | 0.00 | 0.00 | 50 | ** | 0.6 | | 0.000 | 100.00 | |
| 2,4 Diaminotoluene | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |
| 2,2'-oxybis-(1-Chloropropane) | 1 | 100 | | 0.00 | 0.00 | 50 | ** | | | 0.000 | 100.00 | |

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method



**Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.**

**624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF**

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117935.D Sam Mult : 1 Vial# : 2 Qt On : 09/21/21 11:03
Acq On : 09/21/21 10:26 Misc : A,BNA Qt Upd On: 09/20/21 13:03

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.590 | 96 | 75639 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 92564 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.821 | 136 | 348451 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.253 | 164 | 183984 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.716 | 188 | 360738 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.772 | 240 | 353050 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.391 | 264 | 390971 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.609 | 112 | 133379 | 49.17 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 49.17% | | | |
| 16) Phenol-d5 | 5.491 | 99 | 158234 | 48.69 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 48.69% | | | |
| 32) Nitrobenzene-d5 | 6.265 | 128 | 30740 | 25.85 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 51.70% | | | |
| 55) 2-Fluorobiphenyl | 7.660 | 172 | 153431 | 25.63 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 51.26% | | | |
| 80) 2,4,6-Tribromophenol | 8.990 | 330 | 45667 | 53.10 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.10% | | | |
| 94) Terphenyl-d14 | 11.522 | 244 | 136200 | 25.55 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 51.10% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.633 | 88 | 84948 | 49.6020 | ng | 87 |
| 9) Pyridine | 3.081 | 79 | 174731 | 48.8172 | ng | 67 |
| 10) N-Nitrosodimethylamine | 3.028 | 74 | 131946 | 49.6968 | ng | 74 |
| 12) Benzaldehyde | 5.443 | 77 | 124041 | 48.3177 | ng | 79 |
| 13) Aniline | 5.534 | 93 | 196711 | 46.3137 | ng | 60 |
| 14) Pentachloroethane | 5.576 | 117 | 46616 | 47.6239 | ng | 67 |
| 15) bis(2-Chloroethyl)ether | 5.592 | 93 | 139088 | 47.3164 | ng | 78 |
| 17) Phenol | 5.507 | 94 | 189665 | 48.1978 | ng | 86 |
| 18) 2-Chlorophenol | 5.635 | 128 | 140622 | 48.0241 | ng | 80 |
| 19) N-Decane | 5.672 | 57 | 123459 | 47.7444 | ng | 96 |
| 20) 1,3-Dichlorobenzene | 5.763 | 146 | 160966 | 48.1355 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.833 | 146 | 163345 | 49.9552 | ng | 98 |
| 23) 1,2-Dichlorobenzene | 5.956 | 146 | 153810 | 50.2131 | ng | 98 |
| 24) Benzyl alcohol | 5.929 | 108 | 90597 | 51.5557 | ng | 78 |
| 25) bis(2-chloroisopropyl)... | 6.041 | 45 | 147643 | 49.3707 | ng | 92 |
| 26) 2-Methylphenol | 6.014 | 108 | 127899 | 51.3493 | ng | 98 |
| 27) Acetophenone | 6.143 | 105 | 191964 | 50.7807 | ng | 75 |
| 28) Hexachloroethane | 6.228 | 117 | 57840 | 48.2963 | ng | 90 |
| 29) N-Nitroso-di-n-propyla... | 6.143 | 70 | 92226 | 50.6658 | ng | 76 |
| 30) 3&4-Methylphenol | 6.137 | 108 | 127807 | 51.7412 | ng | 96 |
| 33) Nitrobenzene | 6.281 | 77 | 141533 | 50.4180 | ng | 83 |
| 34) Isophorone | 6.468 | 82 | 256254 | 51.1615 | ng | 87 |
| 35) 2-Nitrophenol | 6.527 | 139 | 73012 | 53.2738 | ng | 91 |
| 36) 2,4-Dimethylphenol | 6.554 | 107 | 135235 | 52.6290 | ng | 98 |
| 37) Benzoic Acid | 6.613 | 105 | 70061m | 43.8976 | ng | |
| 38) bis(2-Chloroethoxy)met... | 6.629 | 93 | 149917 | 49.6780 | ng | 96 |
| 39) 2,4-Dichlorophenol | 6.709 | 162 | 116032 | 53.1857 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.778 | 180 | 132735 | 50.7754 | ng | 95 |
| 41) Naphthalene | 6.837 | 128 | 411974 | 50.7550 | ng | 99 |
| 42) 4-Chloroaniline | 6.874 | 127 | 155448m | 51.4894 | ng | |
| 43) Hexachlorobutadiene | 6.923 | 225 | 82502 | 51.6707 | ng | 96 |
| 44) Caprolactam | 7.152 | 113 | 40960 | 52.6302 | ng | 64 |
| 45) 4-Chloro-3-methylphenol | 7.232 | 107 | 117080 | 52.5061 | ng | 86 |
| 46) 2-Methylnaphthalene | 7.371 | 142 | 269022 | 51.3392 | ng | 99 |
| 47) 1-Methylnaphthalene | 7.451 | 142 | 253760 | 50.9727 | ng | 93 |
| 48) Methylnaphthalenes (To... | 7.371 | 142 | 521446m | 102.4558 | ng | |
| 49) 1,1'-Biphenyl | 7.745 | 154 | 321723 | 51.6022 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.505 | 216 | 142717 | 51.8587 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.489 | 237 | 76144 | 51.6145 | ng | 100 |
| 53) 2,4,6-Trichlorophenol | 7.590 | 196 | 87824 | 51.2480 | ng | 100 |
| 54) 2,4,5-Trichlorophenol | 7.622 | 196 | 93116 | 51.5297 | ng | 100 |
| 56) 2-Chloronaphthalene | 7.772 | 162 | 257210 | 50.1694 | ng | 89 |
| 57) 1,4-Dimethylnaphthalene | 8.050 | 156 | 194732 | 50.8044 | ng | 90 |
| 58) Dimethylnaphthalenes (... | 8.050 | 156 | 194732 | 50.8044 | ng | 90 |
| 59) Diphenyl Ether | 7.831 | 170 | 184139 | 50.7261 | ng | 81 |
| 60) 2-Nitroaniline | 7.852 | 65 | 86315 | 51.8785 | ng | 50 |
| 61) Coumarin | 8.039 | 146 | 99088 | 52.3338 | ng | 82 |
| 62) Acenaphthylene | 8.130 | 152 | 378877 | 51.4250 | ng | 99 |
| 63) Dimethylphthalate | 7.996 | 163 | 297449 | 51.3078 | ng | 99 |
| 64) 2,6-Dinitrotoluene | 8.055 | 165 | 66589 | 53.7299 | ng | 63 |
| 65) Acenaphthene | 8.285 | 153 | 251998 | 51.3475 | ng | 96 |

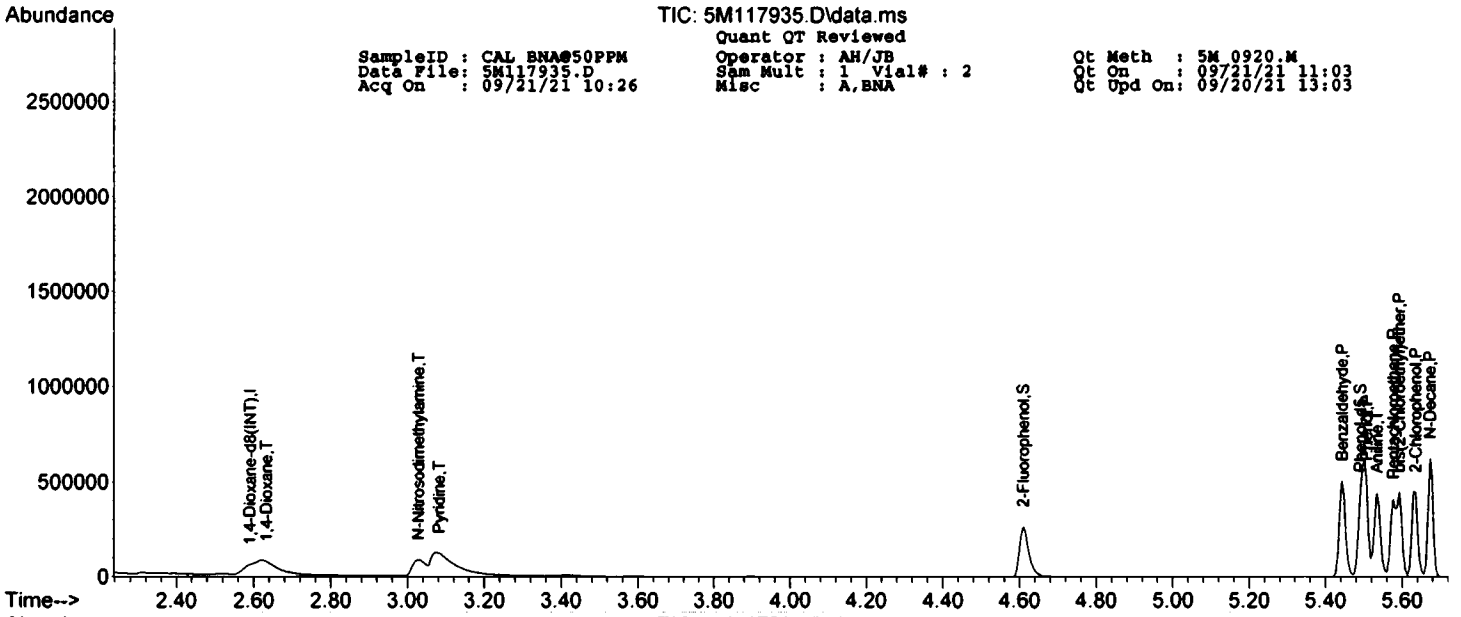
Quantitation Report (QT Reviewed)

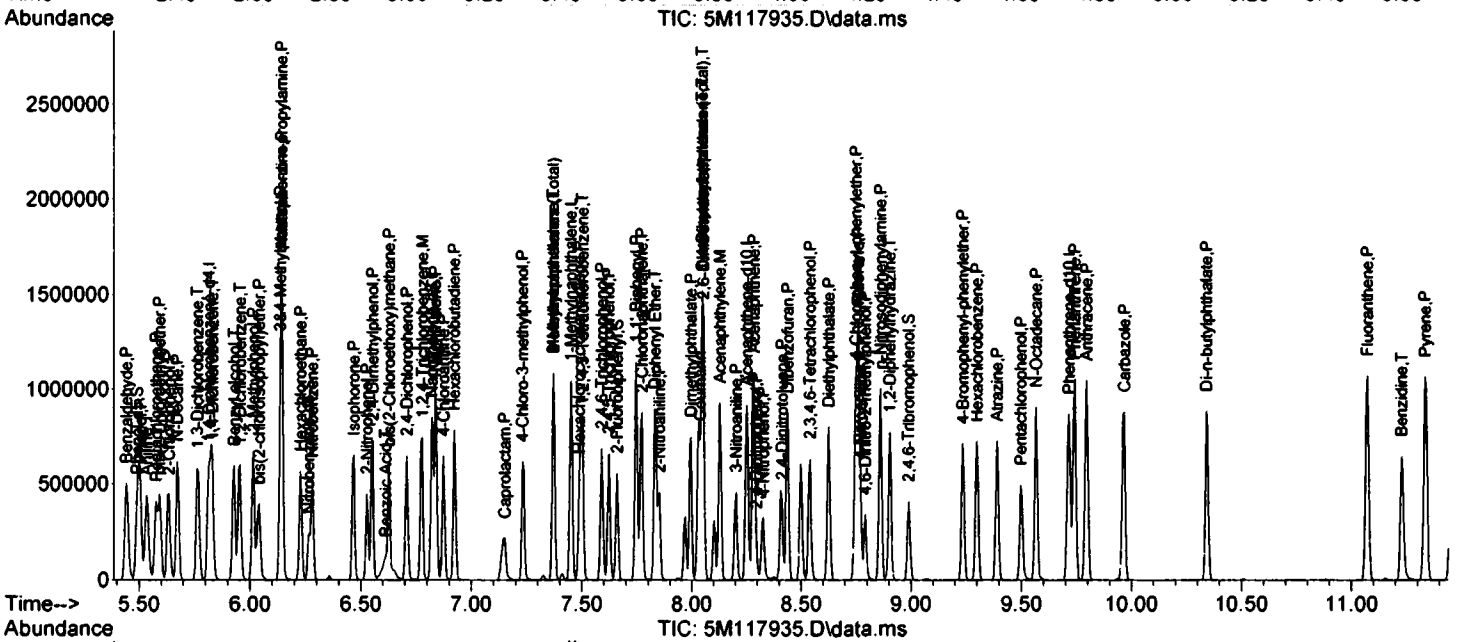
SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117935.D Sam Mult : 1 Vial# : 2 Qt On : 09/21/21 11:03
Acq On : 09/21/21 10:26 Misc : A,BNA Qt Upd On: 09/20/21 13:03

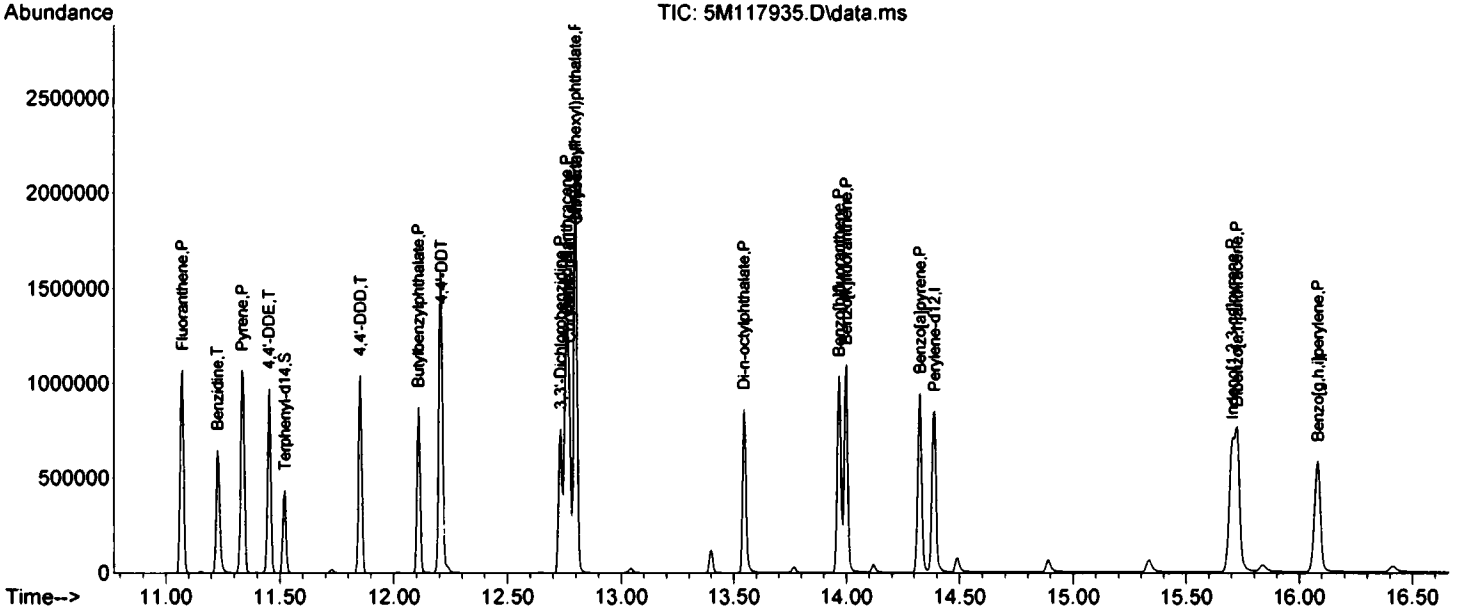
Data Path : G:\GcMsData\2021\GCMS_5\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.205 | 138 | 72618 | 53.4384 | ng | 78 |
| 67) | 2,4-Dinitrophenol | 8.295 | 184 | 33219 | 49.5467 | ng | 35 |
| 68) | Dibenzofuran | 8.440 | 168 | 369689 | 50.2627 | ng | 85 |
| 69) | 2,4-Dinitrotoluene | 8.413 | 165 | 89234 | 50.3033 | ng | 56 |
| 70) | 4-Nitrophenol | 8.328 | 65 | 54451 | 51.5241 | ng | 73 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.541 | 232 | 82933 | 54.0774 | ng | 83 |
| 72) | Fluorene | 8.760 | 166 | 292892 | 51.5836 | ng | 99 |
| 73) | 4-Chlorophenyl-phenyle... | 8.750 | 204 | 146986 | 50.5752 | ng | 82 |
| 74) | Diethylphthalate | 8.627 | 149 | 286052 | 51.4469 | ng | 97 |
| 75) | 4-Nitroaniline | 8.771 | 138 | 76121 | 52.6752 | ng | 83 |
| 76) | Atrazine | 9.391 | 200 | 90721 | 53.6228 | ng | 97 |
| 78) | 4,6-Dinitro-2-methylph... | 8.792 | 198 | 50799 | 49.7524 | ng | 64 |
| 79) | n-Nitrosodiphenylamine | 8.862 | 169 | 249466 | 50.7829 | ng | 100 |
| 81) | 1,2-Diphenylhydrazine | 8.904 | 77 | 279486 | 48.3493 | ng | 82 |
| 82) | 4-Bromophenyl-phenylether | 9.236 | 248 | 93865 | 52.0962 | ng | 82 |
| 83) | Hexachlorobenzene | 9.300 | 284 | 98808 | 50.4337 | ng | 64 |
| 84) | N-Octadecane | 9.567 | 57 | 146054 | 52.5858 | ng | 70 |
| 85) | Pentachlorophenol | 9.497 | 266 | 63317 | 50.5501 | ng | 97 |
| 86) | Phenanthrene | 9.743 | 178 | 432496 | 50.9644 | ng | 100 |
| 87) | Anthracene | 9.797 | 178 | 441944 | 51.5472 | ng | 99 |
| 88) | Carbazole | 9.968 | 167 | 404097 | 52.1787 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.342 | 149 | 474832 | 50.7255 | ng | 98 |
| 90) | Fluoranthene | 11.073 | 202 | 495512 | 52.6025 | ng | 85 |
| 92) | Pyrene | 11.335 | 202 | 499829 | 51.1621 | ng | 84 |
| 93) | Benzidine | 11.228 | 184 | 289359 | 50.5342 | ng | 85 |
| 95) | 4,4'-DDE | 11.453 | 246 | 124019 | 50.7501 | ng | 96 |
| 96) | 4,4'-DDD | 11.853 | 235 | 207528 | 53.3261 | ng | 96 |
| 97) | Butylbenzylphthalate | 12.110 | 149 | 210300 | 51.5320 | ng | 72 |
| 98) | 4,4'-DDT | 12.211 | 235 | 176082 | 52.5383 | ng | 100 |
| 99) | 3,3'-Dichlorobenzidine | 12.735 | 252 | 183323 | 49.1981 | ng | 94 |
| 100) | Benzo[a]anthracene | 12.762 | 228 | 488206 | 51.2381 | ng | 99 |
| 101) | Chrysene | 12.804 | 228 | 471270 | 50.3121 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.799 | 149 | 293502 | 51.5531 | ng | 93 |
| 104) | Di-n-octylphthalate | 13.547 | 149 | 481798 | 50.2913 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 13.969 | 252 | 487218m | 52.8738 | ng | |
| 106) | Benzo[k]fluoranthene | 14.001 | 252 | 464621 | 50.0353 | ng | 90 |
| 107) | Benzo[a]pyrene | 14.327 | 252 | 454417 | 52.4590 | ng | 88 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.705 | 276 | 529433 | 51.5662 | ng | 71 |
| 109) | Dibenzo[a,h]anthracene | 15.727 | 278 | 448004 | 51.4942 | ng | 90 |
| 110) | Benzo[g,h,i]perylene | 16.084 | 276 | 435818 | 50.3358 | ng | 70 |

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


Abundance
TIC: 5M117935.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 5M117935.D
Acq On : 09/21/21 10:26
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09/21/21 11:03
Qt Upd On: 09/20/21 13:03
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 5M117935.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 5M117935.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

# GC/MS Base Neutral/Acid Extractable Data
# Raw QC Data

# Form 5

**Tune Name:** CAL DFTPP **Data File:** 7M116106.D
**Instrument:** GCMS 7 **Analysis Date:** 08/23/21 08:59
**Method:** EPA 8270E

**Tune Scan/Time Range:** Average of 10.208 to 10.214 min

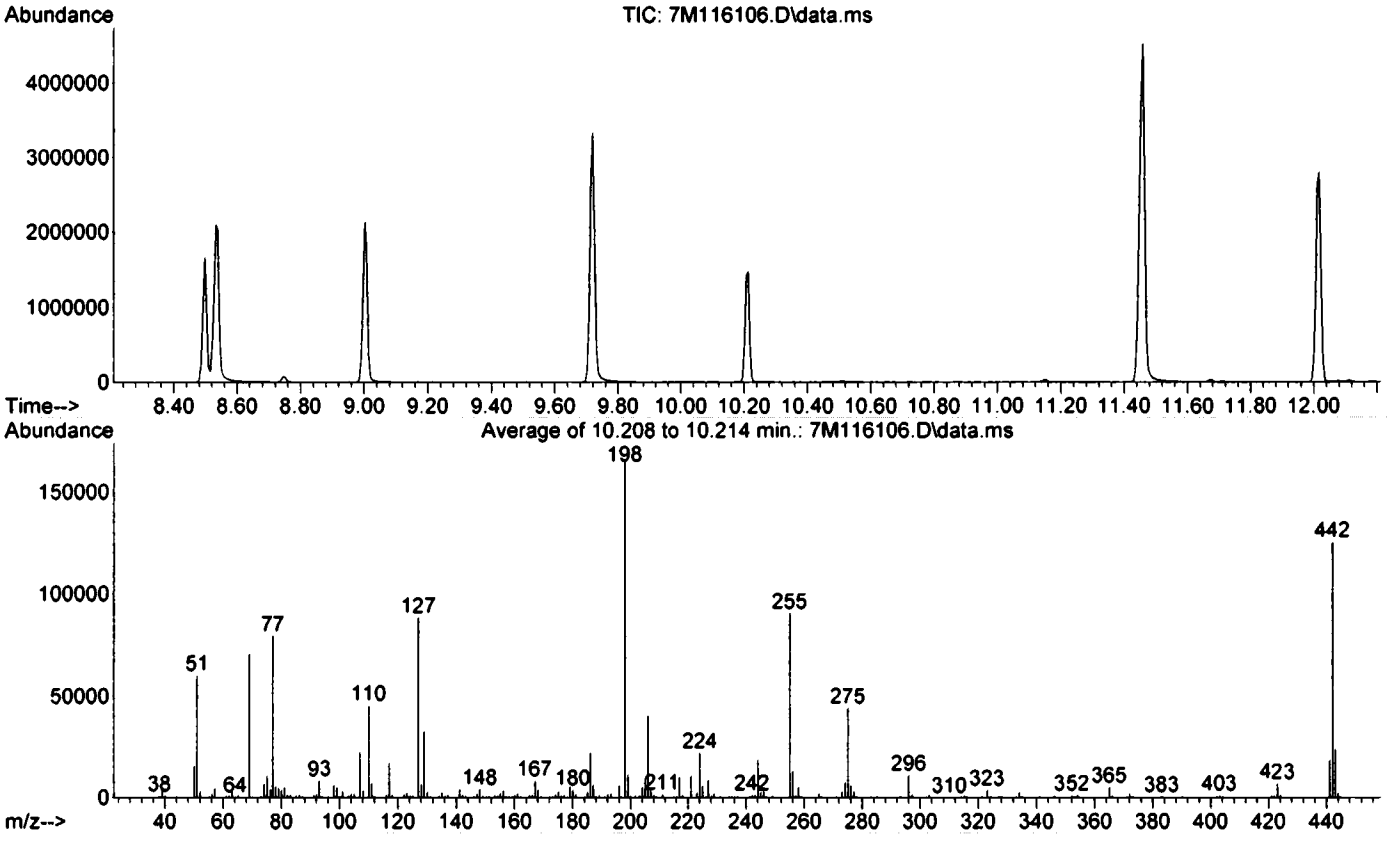
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 36.2 | 60180 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 42.6 | 70856 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 405 | PASS |
| 127 | 198 | 40 | 60 | 53.2 | 88420 | PASS |
| 197 | 198 | 0.00 | 1 | 0.4 | 641 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 166304 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 11345 | PASS |
| 275 | 198 | 10 | 30 | 26.5 | 44008 | PASS |
| 365 | 198 | 1 | 100 | 3.1 | 5109 | PASS |
| 441 | 443 | 0.01 | 100 | 77.1 | 18511 | PASS |
| 442 | 198 | 40 | 100 | 75.3 | 125288 | PASS |
| 443 | 442 | 17 | 23 | 19.2 | 24004 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 7M116107.D | CAL BNA@196PP | 08/23/21 09:26 |
| 7M116108.D | CAL BNA@160PP | 08/23/21 09:50 |
| 7M116109.D | CAL BNA@120PP | 08/23/21 10:14 |
| 7M116110.D | CAL BNA@80PPM | 08/23/21 10:38 |
| 7M116111.D | CAL BNA@20PPM | 08/23/21 11:02 |
| 7M116112.D | CAL BNA@10PPM | 08/23/21 11:26 |
| 7M116113.D | CAL BNA@2PPM | 08/23/21 11:50 |
| 7M116114.D | CAL BNA@0.5PP | 08/23/21 12:13 |
| 7M116115.D | CAL BNA@50PPM | 08/23/21 12:37 |
| 7M116116.D | ICV BNA@50PPM | 08/23/21 13:04 |
| 7M116117.D | WMB94706 | 08/23/21 13:29 |
| 7M116118.D | AD25492-007 | 08/23/21 13:53 |
| 7M116119.D | AD25478-001 | 08/23/21 14:17 |
| 7M116120.D | AD25478-002 | 08/23/21 14:41 |
| 7M116121.D | AD25478-003 | 08/23/21 15:05 |
| 7M116122.D | AD25478-004 | 08/23/21 15:29 |
| 7M116123.D | AD25513-001 | 08/23/21 15:53 |
| 7M116124.D | AD25513-002 | 08/23/21 16:17 |
| 7M116125.D | AD25513-003 | 08/23/21 16:41 |
| 7M116126.D | AD25513-004 | 08/23/21 17:04 |
| 7M116127.D | AD25513-005 | 08/23/21 17:28 |
| 7M116128.D | AD25513-006 | 08/23/21 17:51 |
| 7M116129.D | SMB94710(MS) | 08/23/21 18:15 |
| 7M116130.D | SMB94710 | 08/23/21 18:38 |
| 7M116131.D | AD24958-004 | 08/23/21 19:01 |
| 7M116132.D | AD25541-004 | 08/23/21 19:25 |

Data Path : G:\GcMsData\2021\GCMS_7\Data\08-23-21\
Data File : 7M116106.D
Acq On : 23 Aug 2021 8:59
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_0809.M
Title : @GCMS_7,mg,625,8270
Last Update : Tue Aug 10 09:56:22 2021




Spectrum Information: Average of 10.208 to 10.214 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 36.2 | 60180 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 42.6 | 70856 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 405 | PASS |
| 127 | 198 | 40 | 60 | 53.2 | 88420 | PASS |
| 197 | 198 | 0.00 | 1 | 0.4 | 641 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 166304 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 11345 | PASS |
| 275 | 198 | 10 | 30 | 26.5 | 44008 | PASS |
| 365 | 198 | 1 | 100 | 3.1 | 5109 | PASS |
| 441 | 443 | 0.01 | 100 | 77.1 | 18511 | PASS |
| 442 | 198 | 40 | 100 | 75.3 | 125288 | PASS |
| 443 | 442 | 17 | 23 | 19.2 | 24004 | PASS |

# Form 5

**Tune Name:** CAL DFTPP
**Instrument:** GCMS 7
**Data File:** 7M116559.D
**Analysis Date:** 09/19/21 11:21
**Method:** EPA 8270E

**Tune Scan/Time Range:** Scan 1310

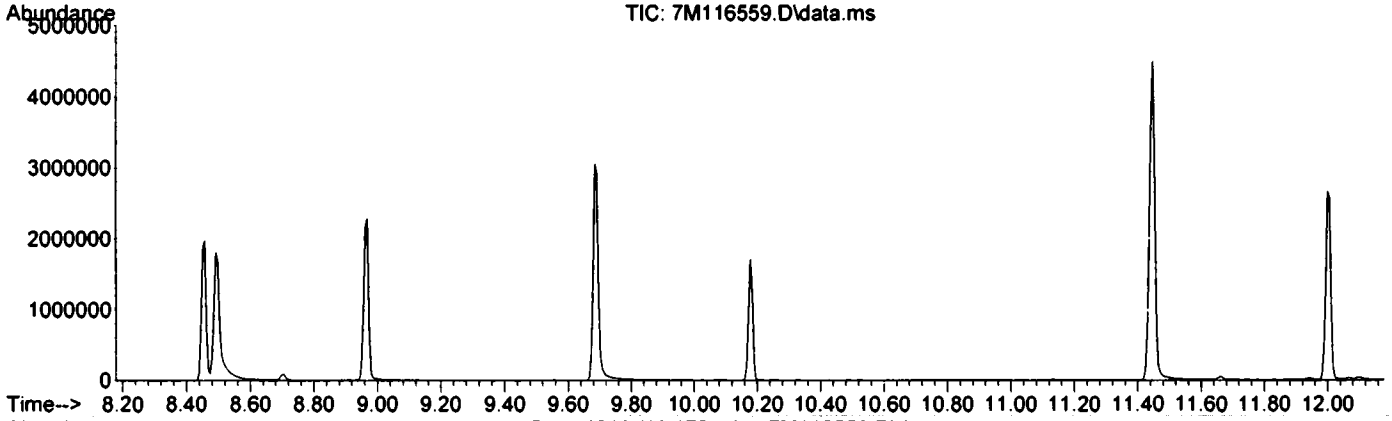
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 35.0 | 70864 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 39.6 | 80336 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 489 | PASS |
| 127 | 198 | 40 | 60 | 51.8 | 104992 | PASS |
| 197 | 198 | 0.00 | 1 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 202752 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 13578 | PASS |
| 275 | 198 | 10 | 30 | 26.3 | 53400 | PASS |
| 365 | 198 | 1 | 100 | 3.0 | 6054 | PASS |
| 441 | 443 | 0.01 | 100 | 80.0 | 22384 | PASS |
| 442 | 198 | 40 | 100 | 71.3 | 144640 | PASS |
| 443 | 442 | 17 | 23 | 19.3 | 27968 | PASS |

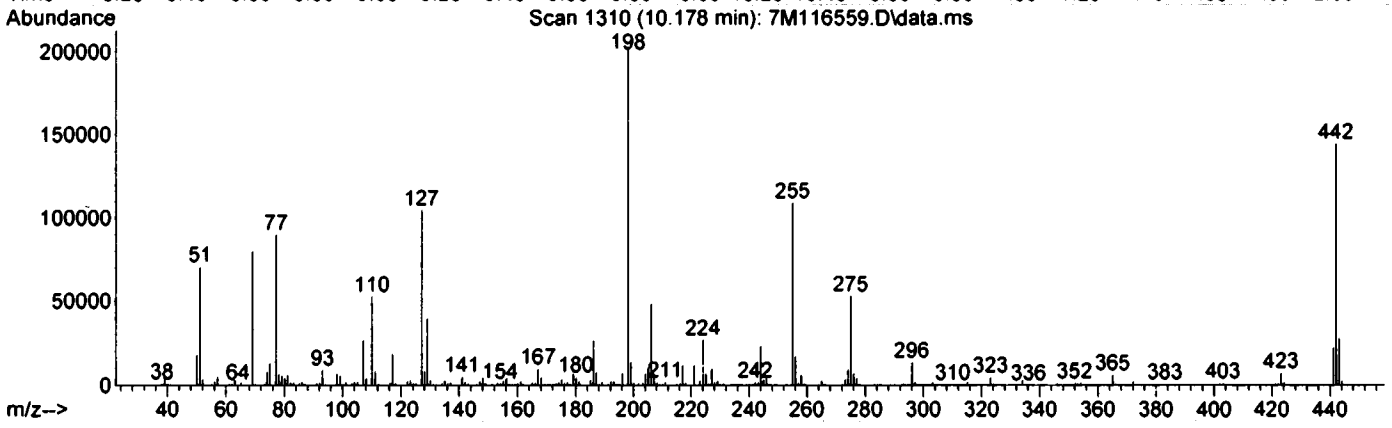
| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 7M116560.D | CAL BNA@50PPM | 09/19/21 12:05 |
| 7M116561.D | SMB94948(MS) | 09/19/21 13:05 |
| 7M116562.D | SMB94958(MS) | 09/19/21 13:28 |
| 7M116563.D | SMB94948 | 09/19/21 13:52 |
| 7M116564.D | SMB94958 | 09/19/21 14:15 |
| 7M116565.D | AD25972-001 | 09/19/21 14:39 |
| 7M116566.D | AD25972-003(MS) | 09/19/21 15:02 |
| 7M116567.D | AD25972-003(MSD | 09/19/21 15:26 |
| 7M116568.D | WMB94959 | 09/19/21 15:50 |
| 7M116569.D | WMB94960 | 09/19/21 16:13 |
| 7M116570.D | AD25972-002 | 09/19/21 16:37 |
| 7M116571.D | AD25972-003 | 09/19/21 17:01 |
| 7M116572.D | AD25972-004 | 09/19/21 17:25 |
| 7M116573.D | AD25972-005 | 09/19/21 17:48 |
| 7M116574.D | AD25862-006 | 09/19/21 18:12 |
| 7M116575.D | AD26041-002 | 09/19/21 18:36 |
| 7M116576.D | AD26041-003 | 09/19/21 18:59 |
| 7M116577.D | AD26041-004 | 09/19/21 19:23 |
| 7M116578.D | AD26041-005 | 09/19/21 19:47 |
| 7M116579.D | AD26041-006 | 09/19/21 20:10 |
| 7M116580.D | AD26041-007 | 09/19/21 20:34 |
| 7M116581.D | AD26041-008 | 09/19/21 20:58 |
| 7M116582.D | AD26041-009 | 09/19/21 21:21 |
| 7M116583.D | AD26041-010 | 09/19/21 21:45 |
| 7M116584.D | AD26083-032 | 09/19/21 22:08 |
| 7M116585.D | AD26083-033 | 09/19/21 22:32 |
| 7M116586.D | AD26083-035 | 09/19/21 22:56 |
| 7M116587.D | AD26083-036 | 09/19/21 23:19 |
| 7M116588.D | AD26083-038 | 09/19/21 23:43 |
| 7M116589.D | AD26083-046 | 09/20/21 00:06 |

Data Path : G:\GcMsData\2021\GCMS_7\Data\09-19-21\
Data File : 7M116559.D
Acq On : 19 Sep 2021 11:21
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_7\METHODQT\7M_0823.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Aug 23 12:58:25 2021




Spectrum Information: Scan 1310

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 35.0 | 70864 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 39.6 | 80336 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 489 | PASS |
| 127 | 198 | 40 | 60 | 51.8 | 104992 | PASS |
| 197 | 198 | 0.00 | 1 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 202752 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 13578 | PASS |
| 275 | 198 | 10 | 30 | 26.3 | 53400 | PASS |
| 365 | 198 | 1 | 100 | 3.0 | 6054 | PASS |
| 441 | 443 | 0.01 | 100 | 80.0 | 22384 | PASS |
| 442 | 198 | 40 | 100 | 71.3 | 144640 | PASS |
| 443 | 442 | 17 | 23 | 19.3 | 27968 | PASS |

# Form 5

**Tune Name:** CAL DFTPP
**Instrument:** GCMS 5
**Data File:** 5M117919.D
**Analysis Date:** 09/20/21 08:21
**Method:** EPA 8270E

**Tune Scan/Time Range:** Average of 9.984 to 9.989 min

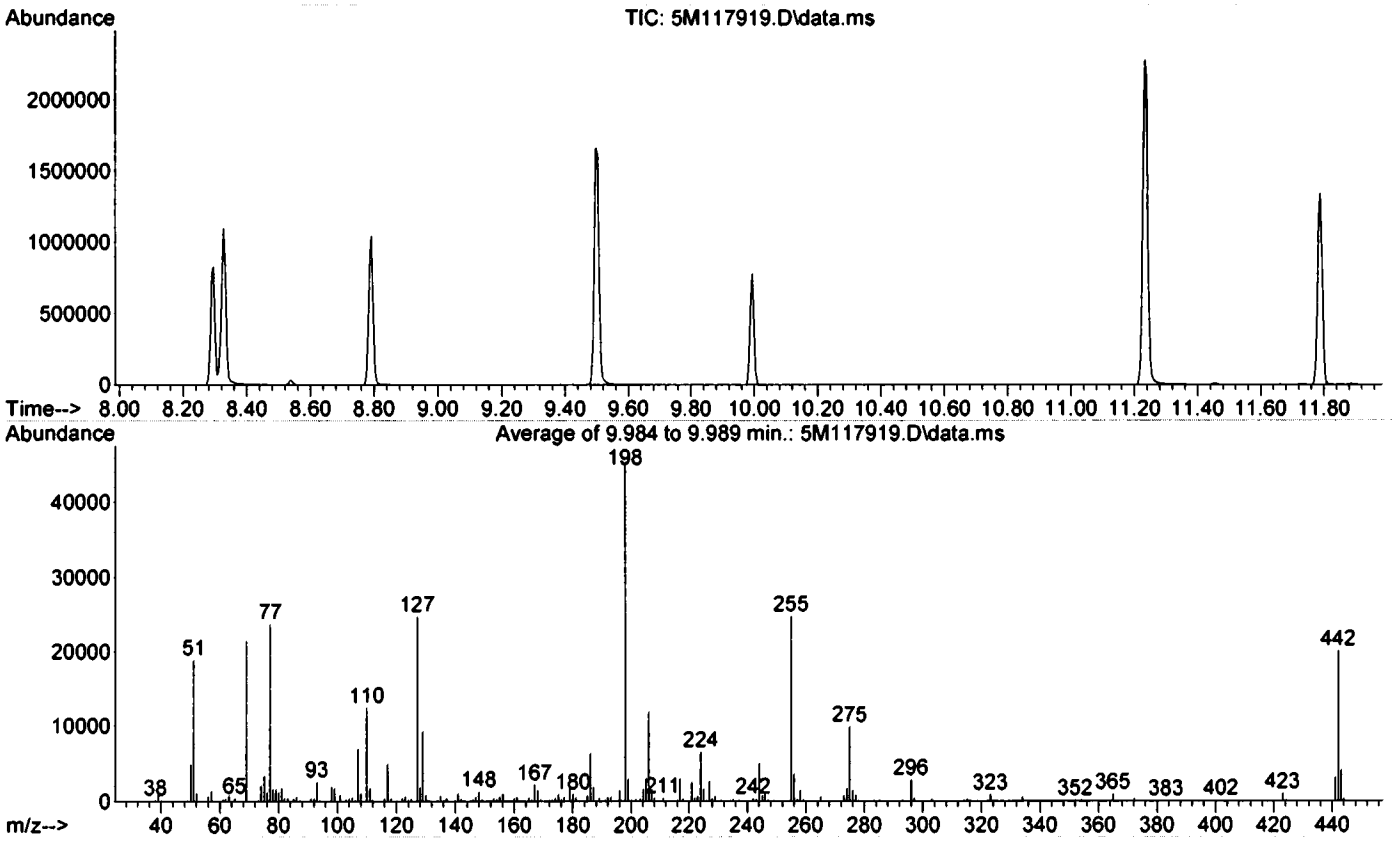
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 41.7 | 18920 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 47.5 | 21543 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 40 | 60 | 54.5 | 24738 | PASS |
| 197 | 198 | 0.00 | 1 | 0.3 | 157 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 45352 | PASS |
| 199 | 198 | 5 | 9 | 6.5 | 2931 | PASS |
| 275 | 198 | 10 | 30 | 21.9 | 9952 | PASS |
| 365 | 198 | 1 | 100 | 2.1 | 945 | PASS |
| 441 | 443 | 0.01 | 100 | 77.0 | 3180 | PASS |
| 442 | 198 | 40 | 100 | 44.5 | 20164 | PASS |
| 443 | 442 | 17 | 23 | 20.5 | 4132 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 5M117920.D | CAL BNA@10PPM | 09/20/21 08:44 |
| 5M117921.D | CAL BNA@2PPM | 09/20/21 09:08 |
| 5M117922.D | CAL BNA@196PP | 09/20/21 09:31 |
| 5M117923.D | CAL BNA@160PP | 09/20/21 09:54 |
| 5M117924.D | CAL BNA@120PP | 09/20/21 10:17 |
| 5M117925.D | CAL BNA@80PPM | 09/20/21 10:41 |
| 5M117926.D | CAL BNA@20PPM | 09/20/21 11:05 |
| 5M117927.D | CAL BNA@0.5PP | 09/20/21 11:28 |
| 5M117928.D | CAL BNA@50PPM | 09/20/21 11:52 |
| 5M117929.D | CAL BNA@20PPM | 09/20/21 12:46 |
| 5M117930.D | ICV BNA@50PPM | 09/20/21 13:37 |
| 5M117931.D | WMB94967 | 09/20/21 14:32 |
| 5M117932.D | WMB94967(MS) | 09/20/21 14:55 |
| 5M117933.D | AD26041-001 | 09/20/21 15:19 |

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-20-21\
Data File : 5M117919.D
Acq On : 20 Sep 2021 8:21
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_5\METHODQT\5M_0823.M
Title : @GCMS_5,mg,625,8270
Last Update : Mon Aug 23 13:05:22 2021




Spectrum Information: Average of 9.984 to 9.989 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 41.7 | 18920 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 47.5 | 21543 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 40 | 60 | 54.5 | 24738 | PASS |
| 197 | 198 | 0.00 | 1 | 0.3 | 157 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 45352 | PASS |
| 199 | 198 | 5 | 9 | 6.5 | 2931 | PASS |
| 275 | 198 | 10 | 30 | 21.9 | 9952 | PASS |
| 365 | 198 | 1 | 100 | 2.1 | 945 | PASS |
| 441 | 443 | 0.01 | 100 | 77.0 | 3180 | PASS |
| 442 | 198 | 40 | 100 | 44.5 | 20164 | PASS |
| 443 | 442 | 17 | 23 | 20.5 | 4132 | PASS |

# Form 5

**Tune Name:** CAL DFTPP **Data File:** 10M87364.D
**Instrument:** GCMS 10 **Analysis Date:** 09/20/21 09:05
**Method:** EPA 8270E

**Tune Scan/Time Range:** Average of 10.067 to 10.078 min

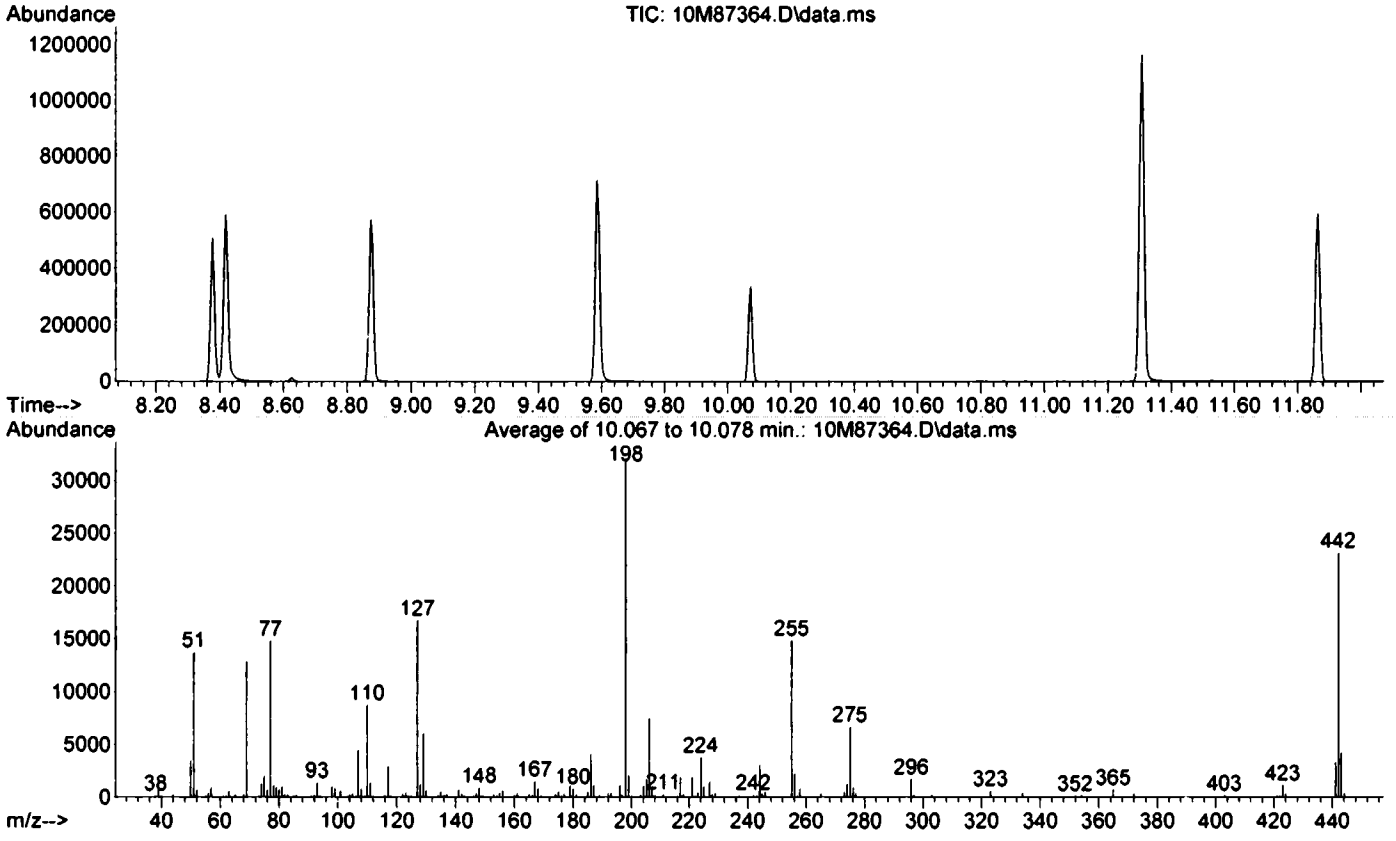
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 42.8 | 13738 | PASS |
| 68 | 69 | 0.00 | 2 | 2.0 | 257 | PASS |
| 69 | 198 | 0.00 | 100 | 40.0 | 12846 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 40 | 60 | 52.1 | 16750 | PASS |
| 197 | 198 | 0.00 | 1 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 32120 | PASS |
| 199 | 198 | 5 | 9 | 6.6 | 2128 | PASS |
| 275 | 198 | 10 | 30 | 20.8 | 6688 | PASS |
| 365 | 198 | 1 | 100 | 2.2 | 716 | PASS |
| 441 | 443 | 0.01 | 100 | 78.2 | 3305 | PASS |
| 442 | 198 | 40 | 100 | 72.3 | 23209 | PASS |
| 443 | 442 | 17 | 23 | 18.2 | 4227 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 10M87365.D | CAL BNA@10PPM | 09/20/21 09:29 |
| 10M87366.D | CAL BNA@2PPM | 09/20/21 09:51 |
| 10M87367.D | CAL BNA@196PP | 09/20/21 10:13 |
| 10M87368.D | CAL BNA@160PP | 09/20/21 10:35 |
| 10M87369.D | CAL BNA@120PP | 09/20/21 10:57 |
| 10M87370.D | CAL BNA@80PPM | 09/20/21 11:19 |
| 10M87371.D | CAL BNA@20PPM | 09/20/21 11:42 |
| 10M87372.D | CAL BNA@0.5PP | 09/20/21 12:04 |
| 10M87373.D | CAL BNA@50PPM | 09/20/21 12:26 |
| 10M87374.D | ICV BNA@50PPM | 09/20/21 13:25 |

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-20-21\
Data File : 10M87364.D
Acq On : 20 Sep 2021 9:05
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_10\METHODQT\10M_0823.M
Title : @GCMS_10,mg,625,8270
Last Update : Mon Aug 23 13:30:22 2021




Spectrum Information: Average of 10.067 to 10.078 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 42.8 | 13738 | PASS |
| 68 | 69 | 0.00 | 2 | 2.0 | 257 | PASS |
| 69 | 198 | 0.00 | 100 | 40.0 | 12846 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 40 | 60 | 52.1 | 16750 | PASS |
| 197 | 198 | 0.00 | 1 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 32120 | PASS |
| 199 | 198 | 5 | 9 | 6.6 | 2128 | PASS |
| 275 | 198 | 10 | 30 | 20.8 | 6688 | PASS |
| 365 | 198 | 1 | 100 | 2.2 | 716 | PASS |
| 441 | 443 | 0.01 | 100 | 78.2 | 3305 | PASS |
| 442 | 198 | 40 | 100 | 72.3 | 23209 | PASS |
| 443 | 442 | 17 | 23 | 18.2 | 4227 | PASS |

# Form 5

**Tune Name:** CAL DFTPP
**Instrument:** GCMS 10
**Data File:** 10M87375.D
**Analysis Date:** 09/20/21 13:47
**Method:** EPA 8270E

**Tune Scan/Time Range:** Scan 1465

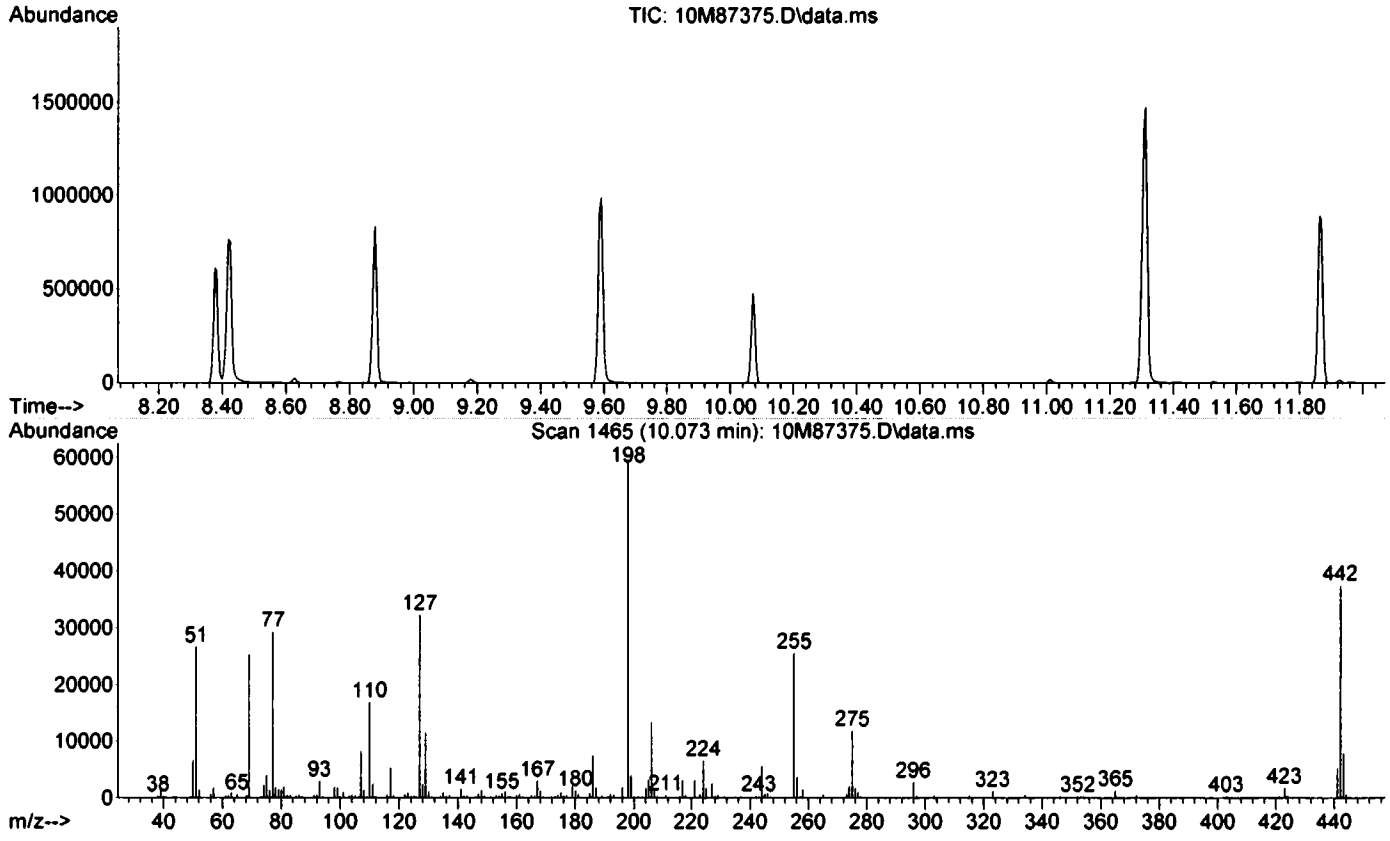
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 44.8 | 26720 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 383 | PASS |
| 69 | 198 | 0.00 | 100 | 42.8 | 25496 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 40 | 60 | 54.2 | 32312 | PASS |
| 197 | 198 | 0.00 | 1 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 59616 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 3997 | PASS |
| 275 | 198 | 10 | 30 | 20.0 | 11901 | PASS |
| 365 | 198 | 1 | 100 | 2.3 | 1345 | PASS |
| 441 | 443 | 0.01 | 100 | 67.0 | 5278 | PASS |
| 442 | 198 | 40 | 100 | 62.9 | 37520 | PASS |
| 443 | 442 | 17 | 23 | 21.0 | 7872 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 10M87376.D | CAL BNA@50PPM | 09/20/21 14:13 |
| 10M87377.D | AD26083-001 | 09/20/21 14:38 |
| 10M87378.D | AD26083-002 | 09/20/21 15:00 |
| 10M87379.D | AD26083-003 | 09/20/21 15:23 |
| 10M87380.D | AD26083-005 | 09/20/21 15:45 |
| 10M87381.D | AD26083-006 | 09/20/21 16:07 |
| 10M87382.D | AD26083-008 | 09/20/21 16:29 |
| 10M87383.D | AD26083-009 | 09/20/21 16:51 |
| 10M87384.D | AD26083-011 | 09/20/21 17:14 |
| 10M87385.D | AD26083-012 | 09/20/21 17:36 |
| 10M87386.D | AD26083-014 | 09/20/21 17:58 |
| 10M87387.D | AD26083-016 | 09/20/21 18:20 |
| 10M87388.D | AD26083-018 | 09/20/21 18:43 |
| 10M87389.D | AD26083-021 | 09/20/21 19:05 |
| 10M87390.D | AD26083-023 | 09/20/21 19:27 |
| 10M87391.D | AD26083-026 | 09/20/21 19:49 |
| 10M87392.D | AD26083-027 | 09/20/21 20:11 |
| 10M87393.D | AD26083-028 | 09/20/21 20:33 |
| 10M87394.D | AD26083-030 | 09/20/21 20:55 |
| 10M87395.D | AD26083-038 | 09/20/21 21:17 |
| 10M87396.D | AD26083-040 | 09/20/21 21:39 |
| 10M87397.D | AD26083-046 | 09/20/21 22:01 |
| 10M87398.D | AD26083-048 | 09/20/21 22:23 |
| 10M87399.D | AD26083-049(MS: | 09/20/21 22:45 |
| 10M87400.D | AD26083-050(MSD | 09/20/21 23:07 |
| 10M87401.D | AD26083-042(MS: | 09/20/21 23:29 |
| 10M87402.D | AD26083-044(MSD | 09/20/21 23:51 |

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Data File : 10M87375.D
Acq On : 20 Sep 2021 13:47
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_10\METHODQT\10M_0920.M
Title : @GCMS_10,mg,625,8270
Last Update : Mon Sep 20 12:52:28 2021




Spectrum Information: Scan 1465

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 44.8 | 26720 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 383 | PASS |
| 69 | 198 | 0.00 | 100 | 42.8 | 25496 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 40 | 60 | 54.2 | 32312 | PASS |
| 197 | 198 | 0.00 | 1 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 59616 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 3997 | PASS |
| 275 | 198 | 10 | 30 | 20.0 | 11901 | PASS |
| 365 | 198 | 1 | 100 | 2.3 | 1345 | PASS |
| 441 | 443 | 0.01 | 100 | 67.0 | 5278 | PASS |
| 442 | 198 | 40 | 100 | 62.9 | 37520 | PASS |
| 443 | 442 | 17 | 23 | 21.0 | 7872 | PASS |

# Form 5

**Tune Name:** CAL DFTPP
**Instrument:** GCMS 5
**Data File:** 5M117934.D
**Analysis Date:** 09/21/21 09:37
**Method:** EPA 8270E

**Tune Scan/Time Range:** Scan 1452

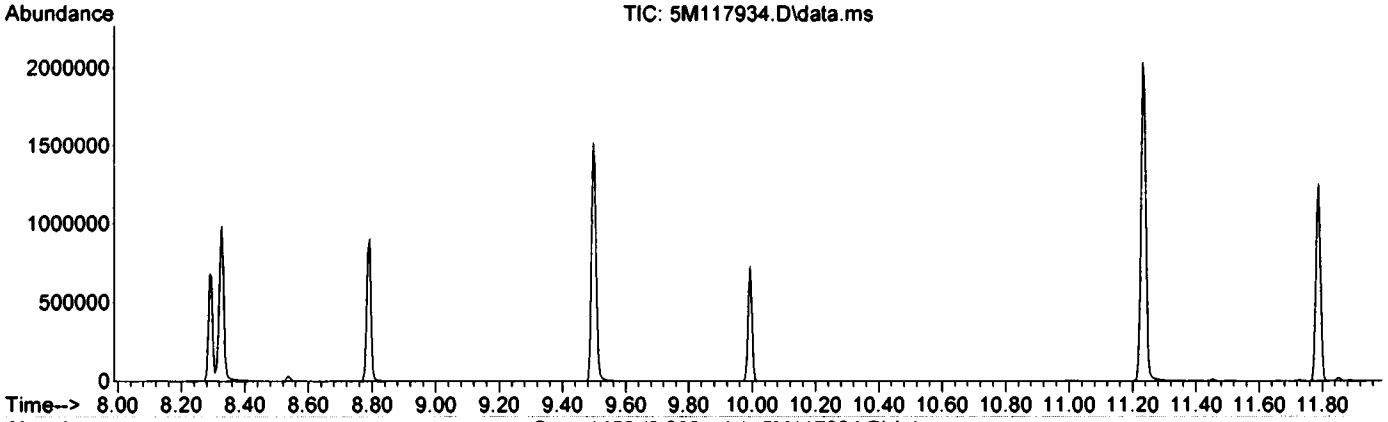
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 37.0 | 23016 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 43.1 | 26872 | PASS |
| 70 | 69 | 0.00 | 2 | 0.7 | 191 | PASS |
| 127 | 198 | 40 | 60 | 48.8 | 30400 | PASS |
| 197 | 198 | 0.00 | 1 | 0.6 | 356 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 62280 | PASS |
| 199 | 198 | 5 | 9 | 7.1 | 4448 | PASS |
| 275 | 198 | 10 | 30 | 23.9 | 14908 | PASS |
| 365 | 198 | 1 | 100 | 2.6 | 1623 | PASS |
| 441 | 443 | 0.01 | 100 | 88.6 | 5478 | PASS |
| 442 | 198 | 40 | 100 | 49.8 | 31024 | PASS |
| 443 | 442 | 17 | 23 | 19.9 | 6186 | PASS |

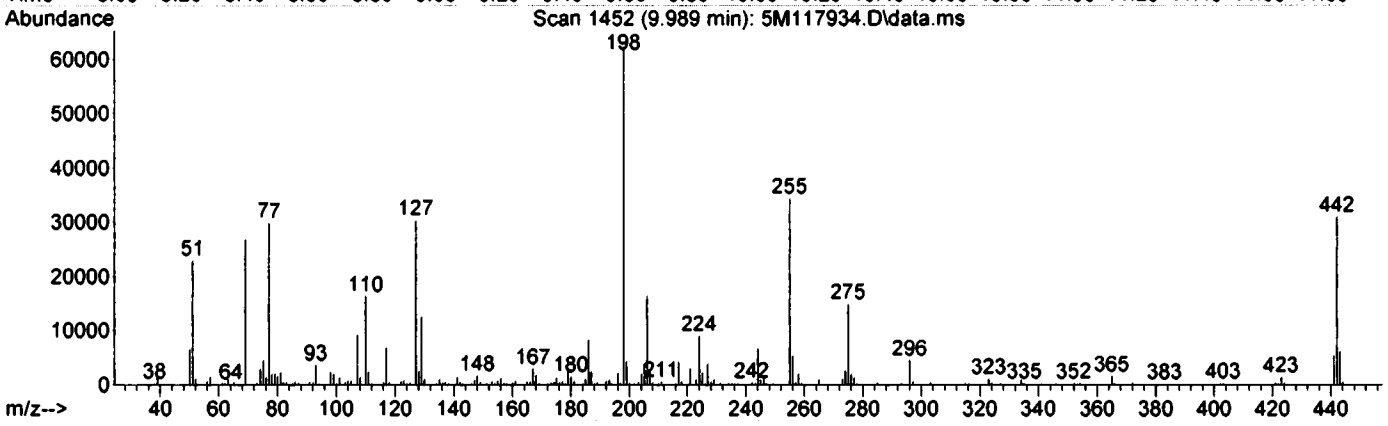
| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 5M117935.D | CAL BNA@50PPM | 09/21/21 10:26 |
| 5M117936.D | WMB94984 | 09/21/21 14:27 |
| 5M117937.D | AD25976-011 | 09/21/21 14:50 |
| 5M117938.D | WMB94984(MS) | 09/21/21 15:14 |
| 5M117939.D | AD25969-001(MS) | 09/21/21 16:45 |
| 5M117940.D | AD25969-001(MSD | 09/21/21 17:09 |
| 5M117941.D | AD25969-001 | 09/21/21 17:32 |
| 5M117942.D | AD25969-002 | 09/21/21 17:56 |
| 5M117943.D | AD25969-003 | 09/21/21 18:20 |
| 5M117944.D | AD25969-004 | 09/21/21 18:44 |
| 5M117945.D | AD25969-005 | 09/21/21 19:08 |
| 5M117946.D | AD25969-006 | 09/21/21 19:31 |
| 5M117947.D | AD25969-007 | 09/21/21 19:55 |
| 5M117948.D | AD26083-019 | 09/21/21 20:18 |
| 5M117949.D | AD25961-001 | 09/21/21 20:42 |
| 5M117950.D | AD25961-002 | 09/21/21 21:05 |
| 5M117951.D | AD25961-003 | 09/21/21 21:29 |

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-21-21\
Data File : 5M117934.D
Acq On : 21 Sep 2021 9:37
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_5\METHODQT\5M_0920.M
Title : @GCMS_5,mg,625,8270
Last Update : Mon Sep 20 13:02:59 2021




Spectrum Information: Scan 1452

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 37.0 | 23016 | PASS |
| 68 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 69 | 198 | 0.00 | 100 | 43.1 | 26872 | PASS |
| 70 | 69 | 0.00 | 2 | 0.7 | 191 | PASS |
| 127 | 198 | 40 | 60 | 48.8 | 30400 | PASS |
| 197 | 198 | 0.00 | 1 | 0.6 | 356 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 62280 | PASS |
| 199 | 198 | 5 | 9 | 7.1 | 4448 | PASS |
| 275 | 198 | 10 | 30 | 23.9 | 14908 | PASS |
| 365 | 198 | 1 | 100 | 2.6 | 1623 | PASS |
| 441 | 443 | 0.01 | 100 | 88.6 | 5478 | PASS |
| 442 | 198 | 40 | 100 | 49.8 | 31024 | PASS |
| 443 | 442 | 17 | 23 | 19.9 | 6186 | PASS |

# Form 5

**Tune Name:** CAL DFTPP
**Instrument:** GCMS 10
**Data File:** 10M87403.D
**Analysis Date:** 09/21/21 09:42
**Method:** EPA 8270E

**Tune Scan/Time Range:** Average of 10.067 to 10.078 min

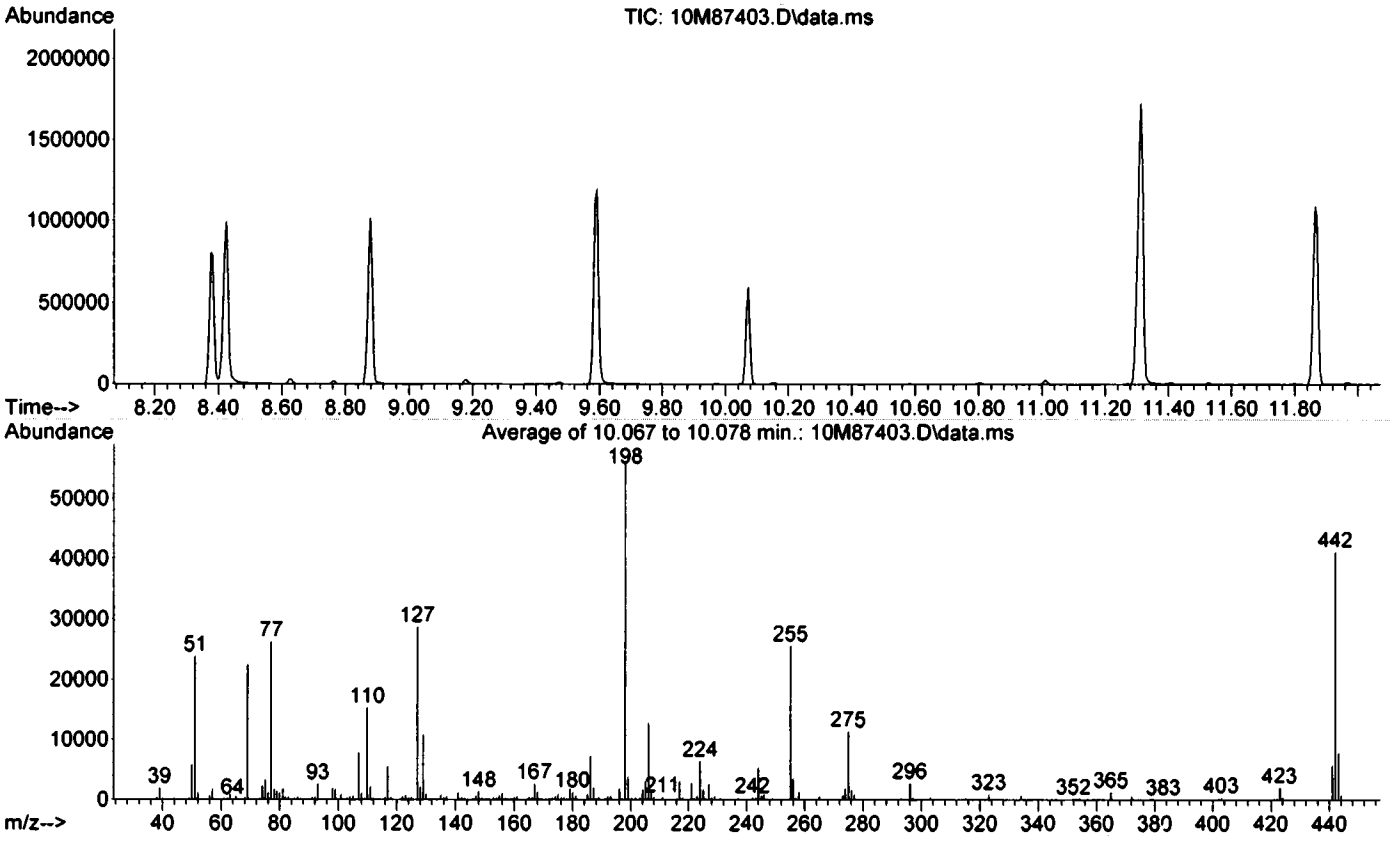
| Tgt Mass | Rel Mass | Lo Lim | Hi Lim | Rel Abund | Raw Abund | Pass/ Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 42.5 | 23899 | PASS |
| 68 | 69 | 0.00 | 2 | 1.8 | 398 | PASS |
| 69 | 198 | 0.00 | 100 | 40.2 | 22628 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 40 | 60 | 51.0 | 28723 | PASS |
| 197 | 198 | 0.00 | 1 | 0.4 | 203 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 56293 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 3811 | PASS |
| 275 | 198 | 10 | 30 | 20.2 | 11359 | PASS |
| 365 | 198 | 1 | 100 | 2.3 | 1279 | PASS |
| 441 | 443 | 0.01 | 100 | 73.9 | 5783 | PASS |
| 442 | 198 | 40 | 100 | 73.3 | 41280 | PASS |
| 443 | 442 | 17 | 23 | 19.0 | 7828 | PASS |

| Data File | Sample Number | Analysis Date: |
|---|---|---|
| 10M87404.D | CAL BNA@50PPM | 09/21/21 10:04 |
| 10M87405.D | 972 | 09/21/21 10:42 |
| 10M87406.D | 72(TEST) | 09/21/21 11:04 |
| 10M87407.D | OMB94977 | 09/21/21 11:39 |
| 10M87408.D | OMB94977(MS) | 09/21/21 12:01 |
| 10M87409.D | WMB94959(MS) | 09/21/21 12:23 |
| 10M87410.D | WMB94960(MS) | 09/21/21 12:45 |
| 10M87411.D | WMB94960 | 09/21/21 13:39 |
| 10M87412.D | WMB94959 | 09/21/21 14:01 |
| 10M87413.D | OMB94972 | 09/21/21 14:46 |
| 10M87414.D | OMB94972(MS) | 09/21/21 15:19 |
| 10M87415.D | WMB94984 | 09/21/21 16:09 |
| 10M87416.D | AD25961-004 | 09/21/21 16:48 |
| 10M87417.D | AD25961-005 | 09/21/21 17:11 |
| 10M87418.D | AD25961-006 | 09/21/21 17:33 |
| 10M87419.D | AD25961-007 | 09/21/21 17:55 |
| 10M87420.D | AD25973-001 | 09/21/21 18:17 |
| 10M87421.D | AD25973-002 | 09/21/21 18:40 |
| 10M87422.D | AD25973-003 | 09/21/21 19:02 |
| 10M87423.D | AD25973-004 | 09/21/21 19:24 |

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-21-21\
Data File : 10M87403.D
Acq On : 21 Sep 2021 9:42
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2021\GCMS_10\METHODQT\10M_0920.M
Title : @GCMS_10,mg,625,8270
Last Update : Mon Sep 20 12:52:28 2021




Spectrum Information: Average of 10.067 to 10.078 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 30 | 60 | 42.5 | 23899 | PASS |
| 68 | 69 | 0.00 | 2 | 1.8 | 398 | PASS |
| 69 | 198 | 0.00 | 100 | 40.2 | 22628 | PASS |
| 70 | 69 | 0.00 | 2 | 0.0 | 0 | PASS |
| 127 | 198 | 40 | 60 | 51.0 | 28723 | PASS |
| 197 | 198 | 0.00 | 1 | 0.4 | 203 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 56293 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 3811 | PASS |
| 275 | 198 | 10 | 30 | 20.2 | 11359 | PASS |
| 365 | 198 | 1 | 100 | 2.3 | 1279 | PASS |
| 441 | 443 | 0.01 | 100 | 73.9 | 5783 | PASS |
| 442 | 198 | 40 | 100 | 73.3 | 41280 | PASS |
| 443 | 442 | 17 | 23 | 19.0 | 7828 | PASS |

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB94984
Client Id:
Data File: 5M117936.D
Analysis Date: 09/21/21 14:27
Date Rec/Extracted: NA-09/21/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.0081 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.0076 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 610483

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

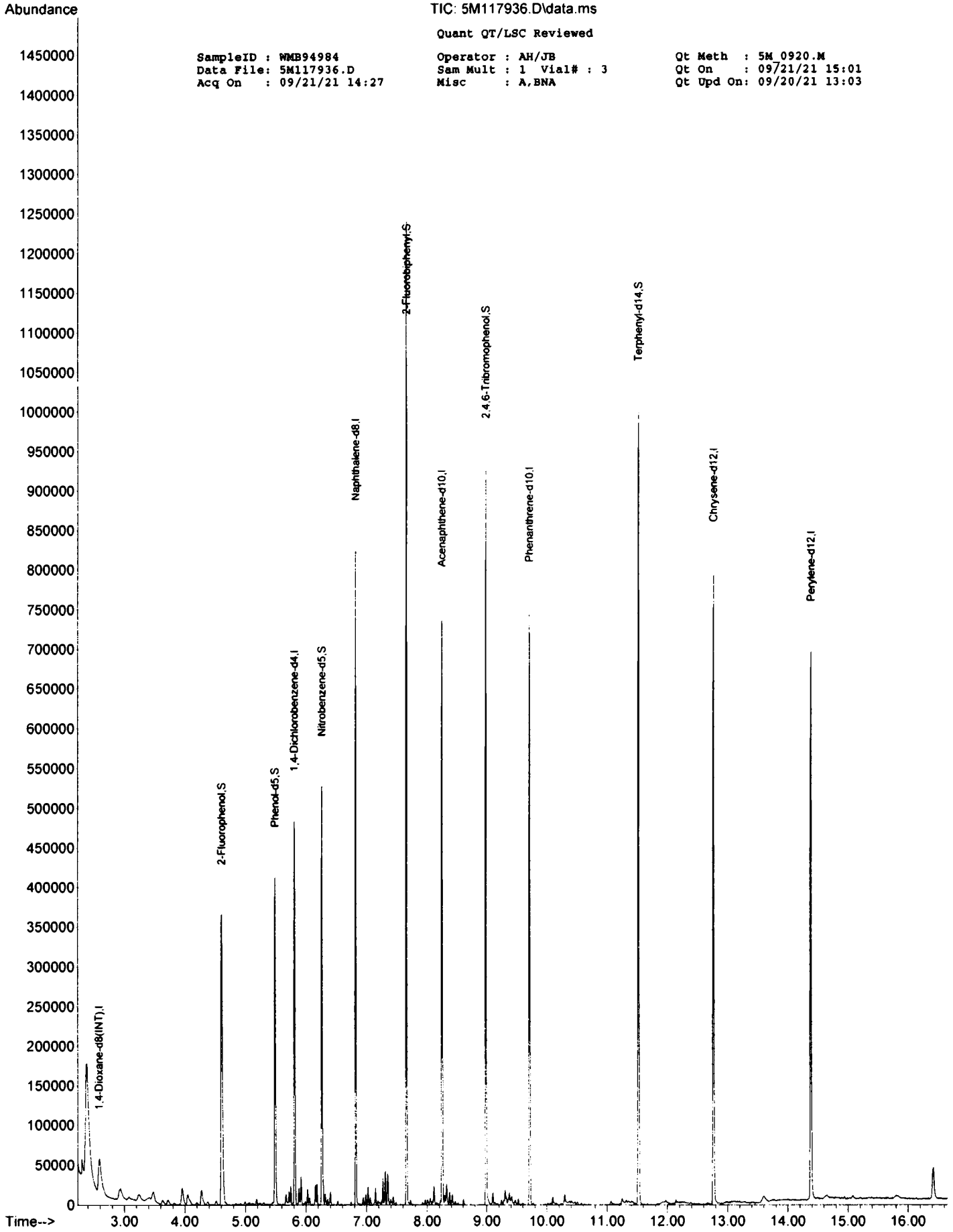
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : WMB94984 Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117936.D Sam Mult : 1 Vial# : 3 Qt On : 09/21/21 15:01
Acq On : 09/21/21 14:27 Misc : A,BNA Qt Upd On: 09/20/21 13:03

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.585 | 96 | 63822 | 40.00 | ng | -0.01 |
| 21) 1,4-Dichlorobenzene-d4 | 5.811 | 152 | 81854 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.821 | 136 | 313750 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.247 | 164 | 157682 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.711 | 188 | 304910 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.767 | 240 | 298082 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.386 | 264 | 319370 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.609 | 112 | 187253 | 81.80 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 81.80% | | | |
| 16) Phenol-d5 | 5.491 | 99 | 156174 | 56.96 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 56.96% | | | |
| 32) Nitrobenzene-d5 | 6.265 | 128 | 69304 | 64.73 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 129.46% | | | |
| 55) 2-Fluorobiphenyl | 7.660 | 172 | 345379 | 67.31 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 134.62% | | | |
| 80) 2,4,6-Tribromophenol | 8.990 | 330 | 103956 | 143.01 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 143.01% | | | |
| 94) Terphenyl-d14 | 11.522 | 244 | 326945 | 72.64 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 145.28% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 5M117936.D\data.ms
Quant QT/LSC Reviewed
SampleID : WMB94984
Data File: 5M117936.D
Acq On : 09/21/21 14:27
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09/21/21 15:01
Qt Upd On: 09/20/21 13:03
1450000
1400000
1350000
1300000
1250000
1200000
1150000
1100000
1050000
1000000
950000
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB94959
Client Id:
Data File: 7M116568.D
Analysis Date: 09/19/21 15:50
Date Rec/Extracted: NA-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 610483

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

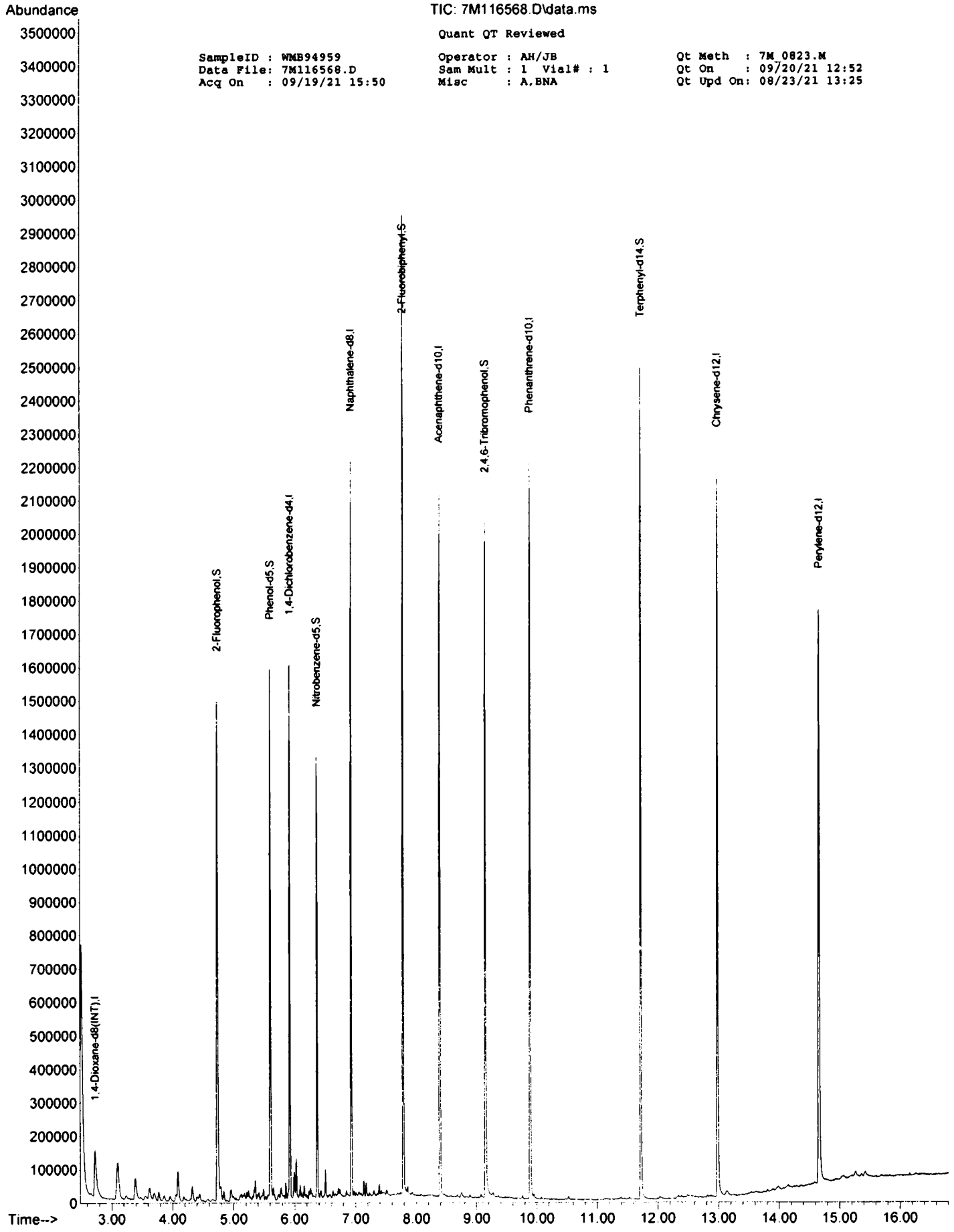
Quantitation Report (QT Reviewed)

SampleID : WMB94959 Operator : AH/JB Qt Meth : 7M_0823.M
Data File: 7M116568.D Sam Mult : 1 Vial# : 1 Qt On : 09/20/21 12:52
Acq On : 09/19/21 15:50 Misc : A,BNA Qt Upd On: 08/23/21 13:25

Data Path : G:\GcMsData\2021\GCMS_7\Data\09-19-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.728 | 96 | 137170 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.924 | 152 | 240891 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.935 | 136 | 939213 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.392 | 164 | 474177 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.890 | 188 | 903515 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.987 | 240 | 796599 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.667 | 264 | 867743 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.738 | 112 | 612054 | 89.94 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 89.94% | | | |
| 16) Phenol-d5 | 5.607 | 99 | 563217 | 72.74 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 72.74% | | | |
| 32) Nitrobenzene-d5 | 6.371 | 128 | 205909 | 58.96 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 117.92% | | | |
| 55) 2-Fluorobiphenyl | 7.787 | 172 | 849530 | 56.47 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 112.94% | | | |
| 80) 2,4,6-Tribromophenol | 9.156 | 330 | 262367 | 113.92 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 113.92% | | | |
| 94) Terphenyl-d14 | 11.724 | 244 | 790350 | 60.83 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 121.66% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 7M116568.D\data.ms
Quant QT Reviewed
SampleID : WMB94959
Data File: 7M116568.D
Acq On : 09/19/21 15:50
Operator : AH/JB
Sam Mult : 1 Vial# : 1
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 09/20/21 12:52
Qt Upd On: 08/23/21 13:25
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB94960
Client Id:
Data File: 7M116569.D
Analysis Date: 09/19/21 16:13
Date Rec/Extracted: NA-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 610483

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

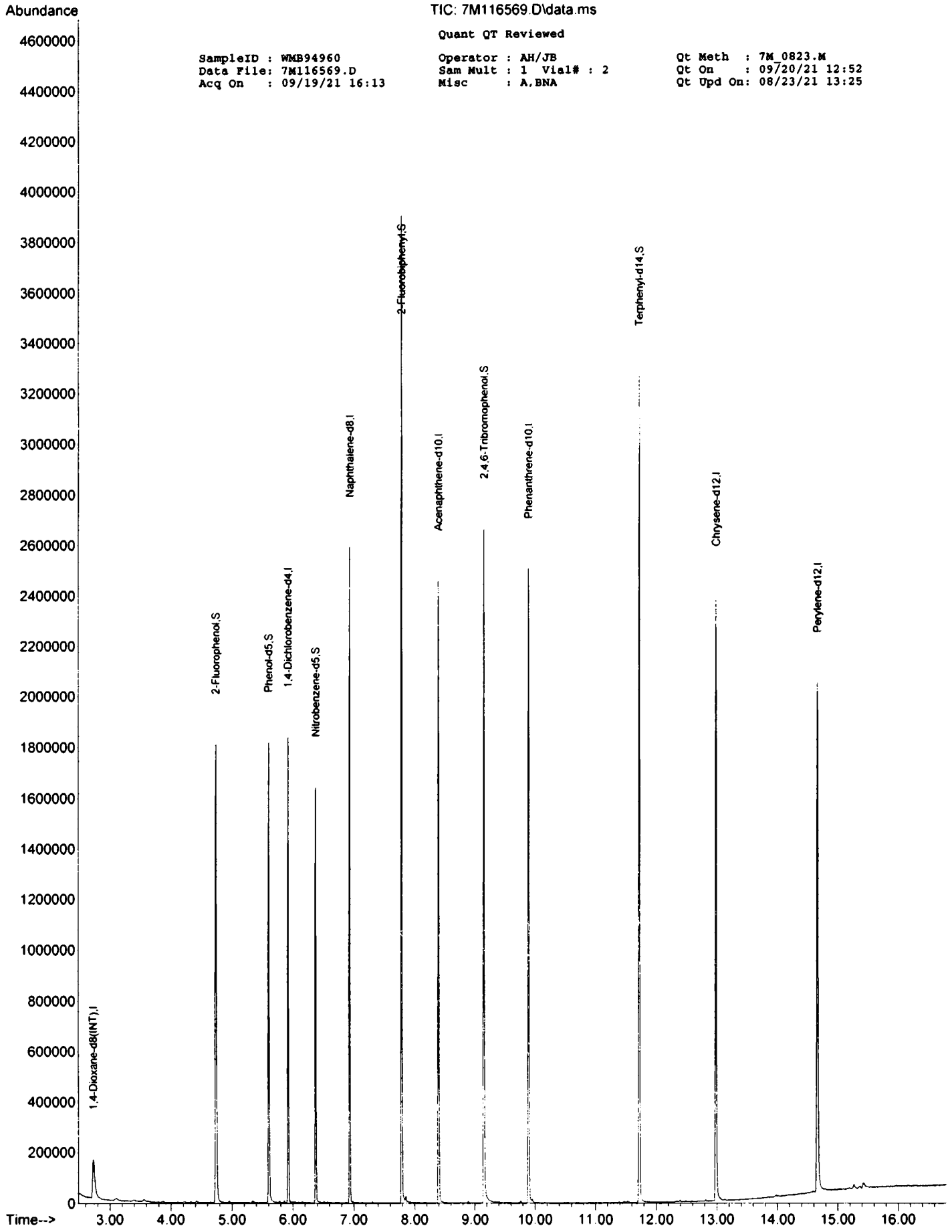
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

SampleID : WMB94960 Operator : AH/JB Qt Meth : 7M_0823.M
Data File: 7M116569.D Sam Mult : 1 Vial# : 2 Qt On : 09/20/21 12:52
Acq On : 09/19/21 16:13 Misc : A,BNA Qt Upd On: 08/23/21 13:25

Data Path : G:\GcMsData\2021\GCMS_7\Data\09-19-21\
Qt Path : G:\GCMSDATA\2021\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.728 | 96 | 161720 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.925 | 152 | 287681 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.935 | 136 | 1109556 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.392 | 164 | 547002 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.891 | 188 | 1030843 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.987 | 240 | 908307 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.662 | 264 | 997815 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.738 | 112 | 761391 | 94.90 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 94.90% | | | |
| 16) Phenol-d5 | 5.607 | 99 | 663208 | 72.66 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 72.66% | | | |
| 32) Nitrobenzene-d5 | 6.377 | 128 | 277199 | 67.19 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 134.38% | | | |
| 55) 2-Fluorobiphenyl | 7.787 | 172 | 1153389 | 66.46 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 132.92% | | | |
| 80) 2,4,6-Tribromophenol | 9.156 | 330 | 362245 | 137.86 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 137.86% | | | |
| 94) Terphenyl-d14 | 11.724 | 244 | 1061637 | 71.66 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 143.32% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 7M116569.D\data.ms
Quant QT Reviewed
SampleID : WMB94960
Data File: 7M116569.D
Acq On : 09/19/21 16:13
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 7M_0823.M
Qt On : 09/20/21 12:52
Qt Upd On: 08/23/21 13:25
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# Form3
## Recovery Data Laboratory Limits
QC Batch: WMB94959

| Data File | Sample ID: | Analysis Date |
|---|---|---|
| Spike or Dup: 10M87409.D | WMB94959(MS) | 9/21/2021 12:23:00 PM |
| Non Spike(If applicable): | | |
| Inst Blank(If applicable): | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **1,4-Dioxane** | 1 | 73.0599 | 0 | 100 | 73 | 20 | 160 |
| Pyridine | 1 | 64.143 | 0 | 100 | 64 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 82.4376 | 0 | 100 | 82 | 50 | 150 |
| **Benzaldehyde** | 1 | 55.21 | 0 | 100 | 55 | 20 | 220 |
| Aniline | 1 | 92.3158 | 0 | 100 | 92 | 20 | 150 |
| Pentachloroethane | 1 | 99.3599 | 0 | 100 | 99 | 50 | 130 |
| **bis(2-Chloroethyl)ether** | 1 | 93.3799 | 0 | 100 | 93 | 50 | 130 |
| **Phenol** | 1 | 68.5023 | 0 | 100 | 69 | 20 | 150 |
| **2-Chlorophenol** | 1 | 103.1899 | 0 | 100 | 103 | 70 | 130 |
| N-Decane | 1 | 95.6803 | 0 | 100 | 96 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 59.1093 | 0 | 100 | 59 | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 64.4333 | 0 | 100 | 64 | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 65.1899 | 0 | 100 | 65 | 50 | 130 |
| Benzyl alcohol | 1 | 109.1171 | 0 | 100 | 109 | 70 | 130 |
| **bis(2-chloroisopropyl)ether** | 1 | 79.3182 | 0 | 100 | 79 | 40 | 130 |
| **2-Methylphenol** | 1 | 100.0359 | 0 | 100 | 100 | 60 | 130 |
| **Acetophenone** | 1 | 107.2266 | 0 | 100 | 107 | 50 | 130 |
| **Hexachloroethane** | 1 | 64.973 | 0 | 100 | 65 | 50 | 130 |
| **N-Nitroso-di-n-propylamine** | 1 | 100.8807 | 0 | 100 | 101 | 50 | 130 |
| **3&4-Methylphenol** | 1 | 103.0956 | 0 | 100 | 103 | 50 | 130 |
| **Nitrobenzene** | 1 | 102.0765 | 0 | 100 | 102 | 70 | 130 |
| **Isophorone** | 1 | 102.7655 | 0 | 100 | 103 | 70 | 130 |
| **2-Nitrophenol** | 1 | 120.3992 | 0 | 100 | 120 | 70 | 130 |
| **2,4-Dimethylphenol** | 1 | 85.4742 | 0 | 100 | 85 | 40 | 130 |
| Benzoic Acid | 1 | 106.9281 | 0 | 100 | 107 | 20 | 130 |
| **bis(2-Chloroethoxy)methane** | 1 | 107.3422 | 0 | 100 | 107 | 70 | 130 |
| **2,4-Dichlorophenol** | 1 | 113.3521 | 0 | 100 | 113 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 94.4399 | 0 | 100 | 94 | 50 | 130 |
| **Naphthalene** | 1 | 94.6766 | 0 | 100 | 95 | 70 | 130 |
| **4-Chloroaniline** | 1 | 119.9974 | 0 | 100 | 120 | 50 | 150 |
| **Hexachlorobutadiene** | 1 | 87.1986 | 0 | 100 | 87 | 70 | 130 |
| **Caprolactam** | 1 | 80.4439 | 0 | 100 | 80 | 20 | 130 |
| **4-Chloro-3-methylphenol** | 1 | 124.4372 | 0 | 100 | 124 | 70 | 130 |
| **2-Methylnaphthalene** | 1 | 111.4019 | 0 | 100 | 111 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 124.3948 | 0 | 100 | 124 | 70 | 130 |
| **1,1'-Biphenyl** | 1 | 118.4125 | 0 | 100 | 118 | 70 | 130 |
| **1,2,4,5-Tetrachlorobenzene** | 1 | 114.9277 | 0 | 100 | 115 | 70 | 130 |
| **Hexachlorocyclopentadiene** | 1 | 107.7909 | 0 | 100 | 108 | 20 | 130 |
| **2,4,6-Trichlorophenol** | 1 | 128.6713 | 0 | 100 | 129 | 70 | 130 |
| **2,4,5-Trichlorophenol** | 1 | 130.3701 | 0 | 100 | 130 | 70 | 130 |
| **2-Chloronaphthalene** | 1 | 108.1158 | 0 | 100 | 108 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 115.5714 | 0 | 100 | 116 | 70 | 130 |
| Diphenyl Ether | 1 | 118.5146 | 0 | 100 | 119 | 70 | 130 |
| **2-Nitroaniline** | 1 | 126.7995 | 0 | 100 | 127 | 50 | 150 |
| Coumarin | 1 | 129.3577 | 0 | 100 | 129 | 70 | 130 |
| **Acenaphthylene** | 1 | 111.254 | 0 | 100 | 111 | 70 | 130 |
| **Dimethylphthalate** | 1 | 114.3701 | 0 | 100 | 114 | 70 | 130 |
| **2,6-Dinitrotoluene** | 1 | 114.4395 | 0 | 100 | 114 | 70 | 130 |
| **Acenaphthene** | 1 | 109.4196 | 0 | 100 | 109 | 70 | 130 |
| **3-Nitroaniline** | 1 | 127.1788 | 0 | 100 | 127 | 50 | 150 |
| **2,4-Dinitrophenol** | 1 | 126.8682 | 0 | 100 | 127 | 20 | 150 |
| **Dibenzofuran** | 1 | 118.4158 | 0 | 100 | 118 | 70 | 130 |
| **2,4-Dinitrotoluene** | 1 | 112.0536 | 0 | 100 | 112 | 40 | 130 |
| **4-Nitrophenol** | 1 | 84.6028 | 0 | 100 | 85 | 20 | 150 |
| **2,3,4,6-Tetrachlorophenol** | 1 | 119.968 | 0 | 100 | 120 | 70 | 130 |
| **Fluorene** | 1 | 111.8445 | 0 | 100 | 112 | 70 | 130 |
| **4-Chlorophenyl-phenylether** | 1 | 114.095 | 0 | 100 | 114 | 70 | 130 |
| **Diethylphthalate** | 1 | 115.0129 | 0 | 100 | 115 | 50 | 130 |
| **4-Nitroaniline** | 1 | 122.8849 | 0 | 100 | 123 | 50 | 150 |
| **Atrazine** | 1 | 93.2692 | 0 | 100 | 93 | 50 | 130 |
| **4,6-Dinitro-2-methylphenol** | 1 | 127.9306 | 0 | 100 | 128 | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **n-Nitrosodiphenylamine** | 1 | 94.4676 | 0 | 100 | 94 | 50 | 130 |
| 1,2-Diphenylhydrazine | 1 | 110.315 | 0 | 100 | 110 | 70 | 130 |
| **4-Bromophenyl-phenylether** | 1 | 116.1164 | 0 | 100 | 116 | 70 | 130 |
| **Hexachlorobenzene** | 1 | 109.9293 | 0 | 100 | 110 | 70 | 130 |
| N-Octadecane | 1 | 127.3217 | 0 | 100 | 127 | 70 | 130 |
| **Pentachlorophenol** | 1 | 136.3506 | 0 | 100 | 136* | 40 | 130 |
| **Phenanthrene** | 1 | 113.7044 | 0 | 100 | 114 | 70 | 130 |
| **Anthracene** | 1 | 113.9685 | 0 | 100 | 114 | 70 | 130 |
| **Carbazole** | 1 | 124.759 | 0 | 100 | 125 | 70 | 130 |
| **Di-n-butylphthalate** | 1 | 117.1419 | 0 | 100 | 117 | 70 | 130 |
| **Fluoranthene** | 1 | 118.3916 | 0 | 100 | 118 | 70 | 130 |
| **Pyrene** | 1 | 114.1592 | 0 | 100 | 114 | 70 | 130 |
| Benzidine | 1 | 5.988 | 0 | 100 | 6 | 0 | 134 |
| **Butylbenzylphthalate** | 1 | 118.7404 | 0 | 100 | 119 | 50 | 130 |
| **3,3'-Dichlorobenzidine** | 1 | 105.5017 | 0 | 100 | 106 | 1 | 150 |
| **Benzo[a]anthracene** | 1 | 107.5222 | 0 | 100 | 106 | 70 | 130 |
| **Chrysene** | 1 | 119.9162 | 0 | 100 | 120 | 50 | 130 |
| **bis(2-Ethylhexyl)phthalate** | 1 | 127.9746 | 0 | 100 | 128 | 70 | 130 |
| **Di-n-octylphthalate** | 1 | 123.4907 | 0 | 100 | 123 | 70 | 130 |
| **Benzo[b]fluoranthene** | 1 | 121.0319 | 0 | 100 | 121 | 70 | 130 |
| **Benzo[k]fluoranthene** | 1 | 123.2451 | 0 | 100 | 123 | 70 | 130 |
| **Benzo[a]pyrene** | 1 | 119.0351 | 0 | 100 | 119 | 70 | 130 |
| **Indeno[1,2,3-cd]pyrene** | 1 | 124.6205 | 0 | 100 | 125 | 70 | 130 |
| **Dibenzo[a,h]anthracene** | 1 | 125.3902 | 0 | 100 | 125 | 70 | 130 |
| **Benzo[g,h,i]perylene** | 1 | 122.8366 | 0 | 100 | 123 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

SampleID : WMB94959(MS) Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87409.D Sam Mult : 1 Vial# : 7 Qt On : 09/21/21 12:45
Acq On : 09/21/21 12:23 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.756 | 96 | 23979 | 40.00 | ng | 0.01 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 47160 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 185924 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 89982 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 159962 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.849 | 240 | 119541 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.475 | 264 | 123776 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.724 | 112 | 54059 | 41.31 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 41.31% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 54032 | 33.95 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 33.95% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 19053 | 29.78 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 59.56% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 73236 | 25.69 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 51.38% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 19125 | 63.70 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 63.70% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 63408 | 34.05 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 68.10% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.782 | 88 | 40935 | 73.0599 | ng | 64 |
| 9) Pyridine | 3.258 | 79 | 70248 | 64.1430 | ng | 84 |
| 10) N-Nitrosodimethylamine | 3.194 | 74 | 68584 | 82.4376 | ng | 85 |
| 12) Benzaldehyde | 5.532 | 77 | 63885 | 55.2100 | ng | 67 |
| 13) Aniline | 5.623 | 93 | 191010 | 92.3158 | ng | 59 |
| 14) Pentachloroethane | 5.665 | 117 | 47963 | 99.3599 | ng | 84 |
| 15) bis(2-Chloroethyl)ether | 5.681 | 93 | 134252 | 93.3799 | ng | 81 |
| 17) Phenol | 5.601 | 94 | 130038 | 68.5023 | ng | 84 |
| 18) 2-Chlorophenol | 5.724 | 128 | 152190 | 103.1899 | ng | 80 |
| 19) N-Decane | 5.762 | 57 | 161312 | 95.6803 | ng | 91 |
| 20) 1,3-Dichlorobenzene | 5.853 | 146 | 97663 | 59.1093 | ng | 95 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 107336 | 64.4333 | ng | 96 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 103224 | 65.1899 | ng | 98 |
| 24) Benzyl alcohol | 6.013 | 108 | 100947 | 109.1171 | ng | 67 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 184140 | 79.3182 | ng | 94 |
| 26) 2-Methylphenol | 6.104 | 108 | 134184 | 100.0359 | ng | 96 |
| 27) Acetophenone | 6.232 | 105 | 200278 | 107.2266 | ng | 66 |
| 28) Hexachloroethane | 6.313 | 117 | 38935 | 64.9730 | ng | 82 |
| 29) N-Nitroso-di-n-propyla... | 6.227 | 70 | 92888 | 100.8807 | ng | 79 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 134887 | 103.0956 | ng | 88 |
| 33) Nitrobenzene | 6.366 | 77 | 136473 | 102.0765 | ng | 74 |
| 34) Isophorone | 6.548 | 82 | 254312 | 102.7655 | ng | 84 |
| 35) 2-Nitrophenol | 6.612 | 139 | 90019 | 120.3992 | ng | 82 |
| 36) 2,4-Dimethylphenol | 6.639 | 107 | 106437 | 85.4742 | ng | 88 |
| 37) Benzoic Acid | 6.724 | 105 | 93687 | 106.9281 | ng | 83 |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 168327 | 107.3422 | ng | 96 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 129205 | 113.3521 | ng | 88 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 110120 | 94.4399 | ng | 98 |
| 41) Naphthalene | 6.922 | 128 | 410295 | 94.6766 | ng | 100 |
| 42) 4-Chloroaniline | 6.960 | 127 | 194062m | 119.9974 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 48152 | 87.1986 | ng | 98 |
| 44) Caprolactam | 7.243 | 113 | 36044 | 80.4439 | ng | 69 |
| 45) 4-Chloro-3-methylphenol | 7.323 | 107 | 140343 | 124.4372 | ng | 78 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 320220 | 111.4019 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 339192 | 124.3948 | ng | 95 |
| 49) 1,1'-Biphenyl | 7.832 | 154 | 384062 | 118.4125 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 119037 | 114.9277 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 50737 | 107.7909 | ng | 98 |
| 53) 2,4,6-Trichlorophenol | 7.682 | 196 | 89672 | 128.6713 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.714 | 196 | 97739 | 130.3701 | ng | 97 |
| 56) 2-Chloronaphthalene | 7.858 | 162 | 268494 | 108.1158 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 225665 | 115.5714 | ng | 88 |
| 59) Diphenyl Ether | 7.917 | 170 | 208381 | 118.5146 | ng | 72 |
| 60) 2-Nitroaniline | 7.939 | 65 | 102363 | 126.7995 | ng | 36 |
| 61) Coumarin | 8.120 | 146 | 123751 | 129.3577 | ng | 88 |
| 62) Acenaphthylene | 8.217 | 152 | 424449 | 111.2540 | ng | 99 |
| 63) Dimethylphthalate | 8.072 | 163 | 308349 | 114.3701 | ng | 93 |
| 64) 2,6-Dinitrotoluene | 8.136 | 165 | 68048 | 114.4395 | ng | 63 |
| 65) Acenaphthene | 8.366 | 153 | 274436 | 109.4196 | ng | 98 |
| 66) 3-Nitroaniline | 8.292 | 138 | 94984 | 127.1788 | ng | 68 |
| 67) 2,4-Dinitrophenol | 8.382 | 184 | 45871 | 126.8682 | ng | 36 |

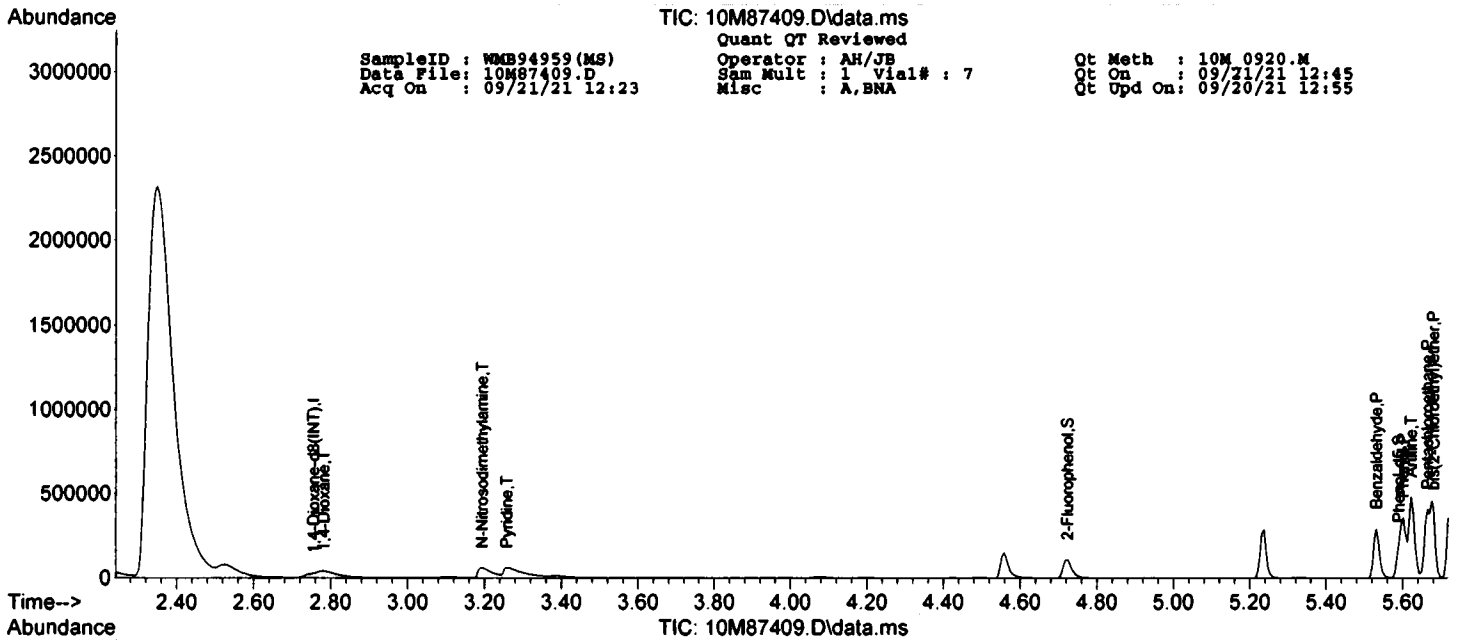
Quantitation Report (QT Reviewed)

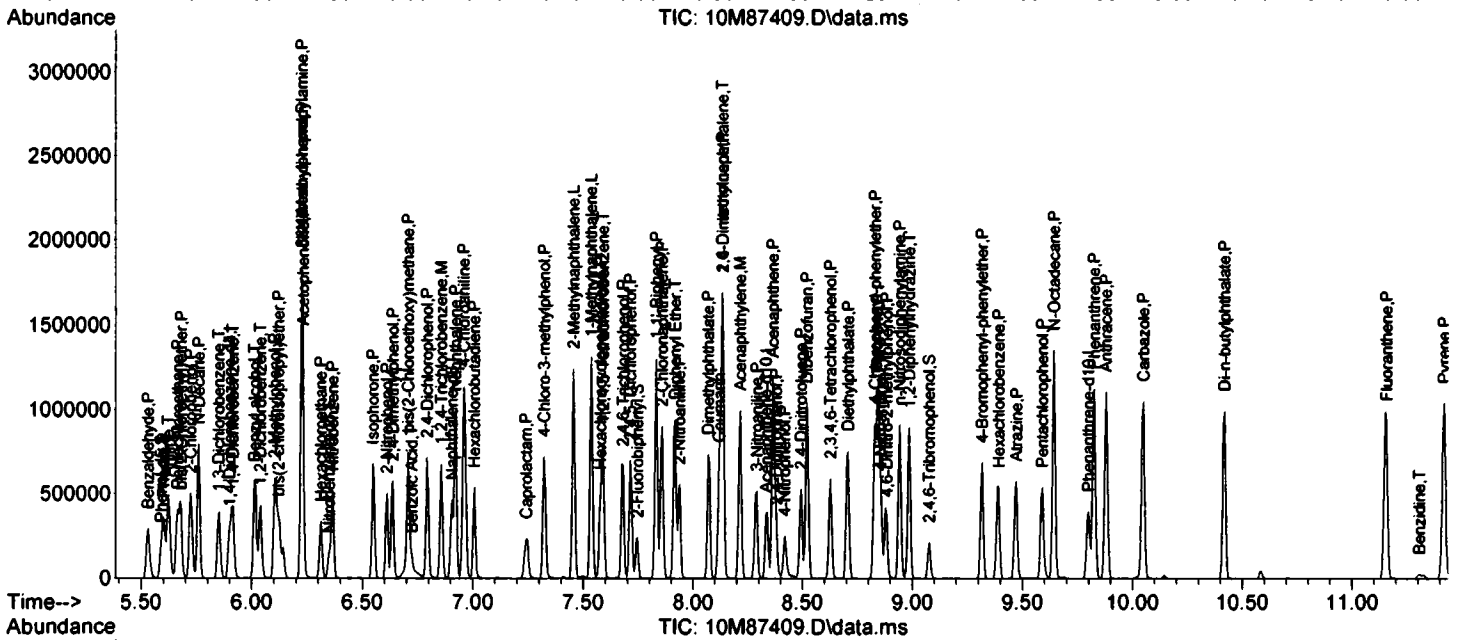
SampleID : WMB94959(MS) Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87409.D Sam Mult : 1 Vial# : 7 Qt On : 09/21/21 12:45
Acq On : 09/21/21 12:23 Misc : A,BNA Qt Upd On: 09/20/21 12:55

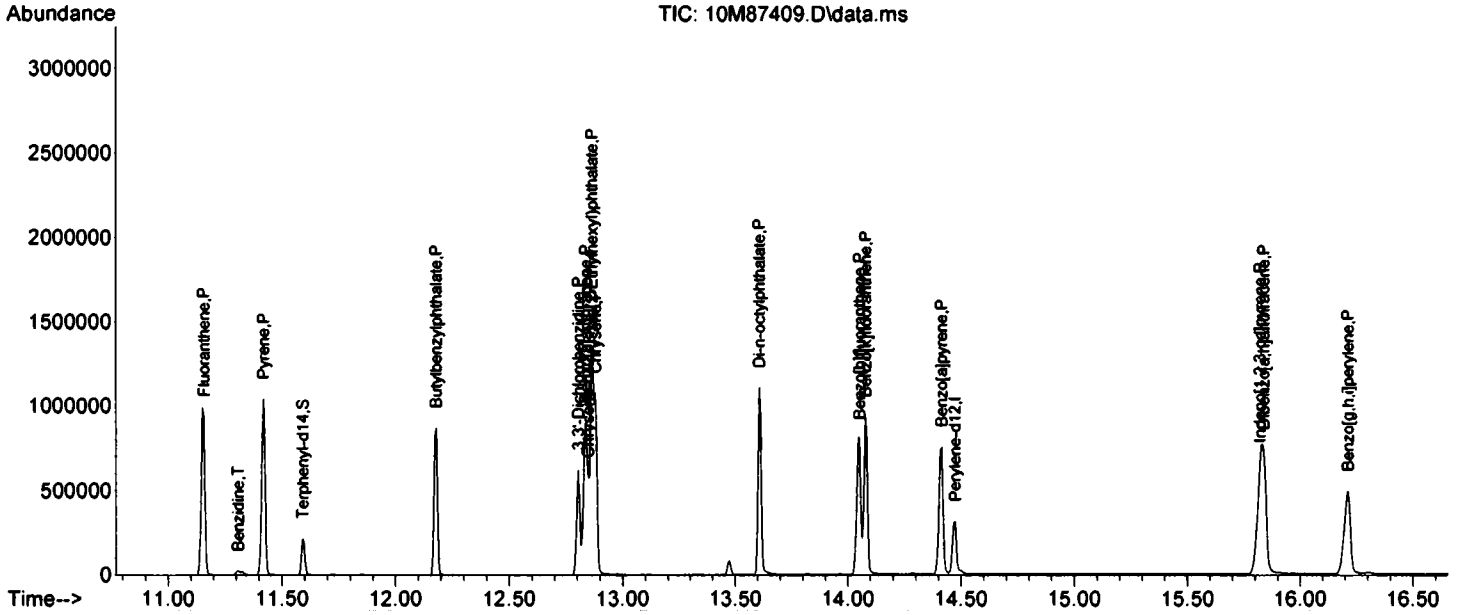
Data Path : G:\GcMsData\2021\GCMS_10\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | Dibenzofuran | 8.522 | 168 | 425398 | 118.4158 | ng | 86 |
| 69) | 2,4-Dinitrotoluene | 8.495 | 165 | 96916 | 112.0536 | ng | 61 |
| 70) | 4-Nitrophenol | 8.420 | 65 | 40709 | 84.6028 | ng | 97 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.629 | 232 | 67926 | 119.9680 | ng | 90 |
| 72) | Fluorene | 8.842 | 166 | 316715 | 111.8445 | ng | 98 |
| 73) | 4-Chlorophenyl-phenyle... | 8.832 | 204 | 139122 | 114.0950 | ng | 86 |
| 74) | Diethylphthalate | 8.709 | 149 | 306559 | 115.0129 | ng | 96 |
| 75) | 4-Nitroaniline | 8.858 | 138 | 104740 | 122.8849 | ng | 68 |
| 76) | Atrazine | 9.474 | 200 | 64820 | 93.2692 | ng | 98 |
| 78) | 4,6-Dinitro-2-methylph... | 8.885 | 198 | 61814 | 127.9306 | ng | 63 |
| 79) | n-Nitrosodiphenylamine | 8.944 | 169 | 229539 | 94.4676 | ng | 97 |
| 81) | 1,2-Diphenylhydrazine | 8.987 | 77 | 308131 | 110.3150 | ng | 80 |
| 82) | 4-Bromophenyl-phenylether | 9.318 | 248 | 74031 | 116.1164 | ng | 90 |
| 83) | Hexachlorobenzene | 9.393 | 284 | 73663 | 109.9293 | ng | 68 |
| 84) | N-Octadecane | 9.645 | 57 | 244935 | 127.3217 | ng | 88 |
| 85) | Pentachlorophenol | 9.591 | 266 | 59647 | 136.3506 | ng | 97 |
| 86) | Phenanthrene | 9.827 | 178 | 453509 | 113.7044 | ng | 98 |
| 87) | Anthracene | 9.880 | 178 | 462158 | 113.9685 | ng | 100 |
| 88) | Carbazole | 10.051 | 167 | 483371 | 124.7590 | ng | 96 |
| 89) | Di-n-butylphthalate | 10.420 | 149 | 546483 | 117.1419 | ng | 96 |
| 90) | Fluoranthene | 11.158 | 202 | 463891 | 118.3916 | ng | 93 |
| 92) | Pyrene | 11.421 | 202 | 457042 | 114.1592 | ng | 93 |
| 93) | Benzidine | 11.308 | 184 | 14440 | 5.9880 | ng | 86 |
| 97) | Butylbenzylphthalate | 12.180 | 149 | 235823 | 118.7404 | ng | 69 |
| 99) | 3,3'-Dichlorobenzidine | 12.806 | 252 | 137657 | 105.5017 | ng | 97 |
| 100) | Benzo[a]anthracene | 12.838 | 228 | 359822 | 107.5222 | ng | 100 |
| 101) | Chrysene | 12.881 | 228 | 402124 | 119.9162 | ng | 97 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.865 | 149 | 334157 | 127.9746 | ng | 92 |
| 104) | Di-n-octylphthalate | 13.608 | 149 | 563905 | 123.4907 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.052 | 252 | 373317m | 121.0319 | ng | |
| 106) | Benzo[k]fluoranthene | 14.079 | 252 | 374490m | 123.2451 | ng | |
| 107) | Benzo[a]pyrene | 14.416 | 252 | 338225 | 119.0351 | ng | 93 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.822 | 276 | 393903 | 124.6205 | ng | 80 |
| 109) | Dibenzo[a,h]anthracene | 15.838 | 278 | 339728 | 125.3902 | ng | 96 |
| 110) | Benzo[g,h,i]perylene | 16.213 | 276 | 328675 | 122.8366 | ng | 89 |

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


Abundance
TIC: 10M87409.D\data.ms
Quant QT Reviewed
SampleID : WMB94959(MS)
Data File: 10M87409.D
Acq On : 09/21/21 12:23
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 12:45
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->


Abundance
TIC: 10M87409.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
1-Methylnaphthalene,L
2-Fluorobiphenyl,S
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M87409.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94960

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87410.D | WMB94960(MS) | 9/21/2021 12:45:00 PM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8270E  Matrix: Aqueous  Units: ug/L  QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 68.8249 | 0 | 100 | 69 | 20 | 160 |
| Pyridine | 1 | 4.0309 | 0 | 100 | 4* | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 80.3477 | 0 | 100 | 80 | 50 | 150 |
| Benzaldehyde | 1 | 57.2379 | 0 | 100 | 57 | 20 | 220 |
| Aniline | 1 | 5.5196 | 0 | 100 | 5.5* | 20 | 150 |
| Pentachloroethane | 1 | 93.4671 | 0 | 100 | 93 | 50 | 130 |
| bis(2-Chloroethyl)ether | 1 | 93.9702 | 0 | 100 | 94 | 50 | 130 |
| Phenol | 1 | 74.6416 | 0 | 100 | 75 | 20 | 150 |
| 2-Chlorophenol | 1 | 103.3518 | 0 | 100 | 103 | 70 | 130 |
| N-Decane | 1 | 89.6028 | 0 | 100 | 90 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 88.6743 | 0 | 100 | 89 | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 90.1773 | 0 | 100 | 90 | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 87.6116 | 0 | 100 | 88 | 50 | 130 |
| Benzyl alcohol | 1 | 87.7778 | 0 | 100 | 88 | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 82.0628 | 0 | 100 | 82 | 40 | 130 |
| 2-Methylphenol | 1 | 104.1581 | 0 | 100 | 104 | 60 | 130 |
| Acetophenone | 1 | 104.4009 | 0 | 100 | 104 | 50 | 130 |
| Hexachloroethane | 1 | 91.6216 | 0 | 100 | 92 | 50 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 98.5965 | 0 | 100 | 99 | 50 | 130 |
| 3&4-Methylphenol | 1 | 109.5896 | 0 | 100 | 110 | 50 | 130 |
| Nitrobenzene | 1 | 100.0809 | 0 | 100 | 100 | 70 | 130 |
| Isophorone | 1 | 98.0541 | 0 | 100 | 98 | 70 | 130 |
| 2-Nitrophenol | 1 | 116.821 | 0 | 100 | 117 | 70 | 130 |
| 2,4-Dimethylphenol | 1 | 119.3364 | 0 | 100 | 119 | 40 | 130 |
| Benzoic Acid | 1 | 133.351 | 0 | 100 | 133* | 20 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 100.6173 | 0 | 100 | 101 | 70 | 130 |
| 2,4-Dichlorophenol | 1 | 109.6273 | 0 | 100 | 110 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 98.5096 | 0 | 100 | 99 | 50 | 130 |
| Naphthalene | 1 | 92.5097 | 0 | 100 | 93 | 70 | 130 |
| 4-Chloroaniline | 1 | 13.9796 | 0 | 100 | 14* | 50 | 150 |
| Hexachlorobutadiene | 1 | 96.1965 | 0 | 100 | 96 | 70 | 130 |
| Caprolactam | 1 | 79.1343 | 0 | 100 | 79 | 20 | 130 |
| 4-Chloro-3-methylphenol | 1 | 123.9146 | 0 | 100 | 124 | 70 | 130 |
| 2-Methylnaphthalene | 1 | 105.4529 | 0 | 100 | 105 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 118.372 | 0 | 100 | 118 | 70 | 130 |
| 1,1'-Biphenyl | 1 | 115.1679 | 0 | 100 | 115 | 70 | 130 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 110.1135 | 0 | 100 | 110 | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 110.8273 | 0 | 100 | 111 | 20 | 130 |
| 2,4,6-Trichlorophenol | 1 | 128.7848 | 0 | 100 | 129 | 70 | 130 |
| 2,4,5-Trichlorophenol | 1 | 131.4864 | 0 | 100 | 131* | 70 | 130 |
| 2-Chloronaphthalene | 1 | 106.9247 | 0 | 100 | 107 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 112.4075 | 0 | 100 | 112 | 70 | 130 |
| Diphenyl Ether | 1 | 116.2099 | 0 | 100 | 116 | 70 | 130 |
| 2-Nitroaniline | 1 | 126.3831 | 0 | 100 | 126 | 50 | 150 |
| Coumarin | 1 | 129.2697 | 0 | 100 | 129 | 70 | 130 |
| Acenaphthylene | 1 | 110.4032 | 0 | 100 | 110 | 70 | 130 |
| Dimethylphthalate | 1 | 112.6986 | 0 | 100 | 113 | 70 | 130 |
| 2,6-Dinitrotoluene | 1 | 114.8357 | 0 | 100 | 115 | 70 | 130 |
| Acenaphthene | 1 | 106.8314 | 0 | 100 | 107 | 70 | 130 |
| 3-Nitroaniline | 1 | 39.8556 | 0 | 100 | 40* | 50 | 150 |
| 2,4-Dinitrophenol | 1 | 127.5204 | 0 | 100 | 128 | 20 | 150 |
| Dibenzofuran | 1 | 114.2566 | 0 | 100 | 114 | 70 | 130 |
| 2,4-Dinitrotoluene | 1 | 110.9184 | 0 | 100 | 111 | 40 | 130 |
| 4-Nitrophenol | 1 | 108.5289 | 0 | 100 | 109 | 20 | 150 |
| 2,3,4,6-Tetrachlorophenol | 1 | 122.1073 | 0 | 100 | 122 | 70 | 130 |
| Fluorene | 1 | 110.0602 | 0 | 100 | 110 | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 113.4439 | 0 | 100 | 113 | 70 | 130 |
| Diethylphthalate | 1 | 114.5717 | 0 | 100 | 115 | 50 | 130 |
| 4-Nitroaniline | 1 | 79.0737 | 0 | 100 | 79 | 50 | 150 |
| Atrazine | 1 | 49.4505 | 0 | 100 | 49* | 50 | 130 |
| 4,6-Dinitro-2-methylphenol | 1 | 128.0932 | 0 | 100 | 128 | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94960

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **n-Nitrosodiphenylamine** | **1** | **79.3564** | **0** | **100** | **79** | **50** | **130** |
| 1,2-Diphenylhydrazine | 1 | 114.7015 | 0 | 100 | 115 | 70 | 130 |
| **4-Bromophenyl-phenylether** | **1** | **113.3772** | **0** | **100** | **113** | **70** | **130** |
| **Hexachlorobenzene** | **1** | **108.8561** | **0** | **100** | **109** | **70** | **130** |
| N-Octadecane | 1 | 125.0568 | 0 | 100 | 125 | 70 | 130 |
| **Pentachlorophenol** | **1** | **143.4011** | **0** | **100** | **143*** | **40** | **130** |
| **Phenanthrene** | **1** | **110.5698** | **0** | **100** | **111** | **70** | **130** |
| **Anthracene** | **1** | **111.0462** | **0** | **100** | **111** | **70** | **130** |
| **Carbazole** | **1** | **117.0286** | **0** | **100** | **117** | **70** | **130** |
| **Di-n-butylphthalate** | **1** | **115.1646** | **0** | **100** | **115** | **70** | **130** |
| **Fluoranthene** | **1** | **116.822** | **0** | **100** | **117** | **70** | **130** |
| **Pyrene** | **1** | **112.7365** | **0** | **100** | **113** | **70** | **130** |
| Benzidine | 1 | 0 | 0 | 100 | 0 | 0 | 134 |
| **Butylbenzylphthalate** | **1** | **118.9394** | **0** | **100** | **119** | **50** | **130** |
| **3,3'-Dichlorobenzidine** | **1** | **4.9235** | **0** | **100** | **4.9** | **1** | **150** |
| **Benzo[a]anthracene** | **1** | **104.508** | **0** | **100** | **105** | **70** | **130** |
| **Chrysene** | **1** | **117.5881** | **0** | **100** | **118** | **50** | **130** |
| **bis(2-Ethylhexyl)phthalate** | **1** | **126.4747** | **0** | **100** | **126** | **70** | **130** |
| **Di-n-octylphthalate** | **1** | **124.662** | **0** | **100** | **125** | **70** | **130** |
| **Benzo[b]fluoranthene** | **1** | **122.9832** | **0** | **100** | **123** | **70** | **130** |
| **Benzo[k]fluoranthene** | **1** | **123.9504** | **0** | **100** | **124** | **70** | **130** |
| **Benzo[a]pyrene** | **1** | **117.6606** | **0** | **100** | **118** | **70** | **130** |
| **Indeno[1,2,3-cd]pyrene** | **1** | **123.6588** | **0** | **100** | **124** | **70** | **130** |
| **Dibenzo[a,h]anthracene** | **1** | **123.6339** | **0** | **100** | **124** | **70** | **130** |
| **Benzo[g,h,i]perylene** | **1** | **120.3146** | **0** | **100** | **120** | **70** | **130** |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : WMB94960(MS) Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87410.D Sam Mult : 1 Vial# : 8 Qt On : 09/21/21 13:30
Acq On : 09/21/21 12:45 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.750 | 96 | 24574 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 48931 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 196187 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 93920 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 168153 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.849 | 240 | 125070 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.474 | 264 | 126454 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.724 | 112 | 117426 | 87.56 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 87.56% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 131931 | 80.89 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 80.89% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 38979 | 57.74 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 115.48% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 175268 | 58.91 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 117.82% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 42235 | 124.88 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 124.88% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 130491 | 66.97 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 133.94% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.782 | 88 | 39519 | 68.8249 | ng | 64 |
| 9) Pyridine | 3.339 | 79 | 4138m | 4.0309 | ng | |
| 10) N-Nitrosodimethylamine | 3.194 | 74 | 68504 | 80.3477 | ng | 86 |
| 12) Benzaldehyde | 5.532 | 77 | 67875 | 57.2379 | ng | 69 |
| 13) Aniline | 5.628 | 93 | 11704m | 5.5196 | ng | |
| 14) Pentachloroethane | 5.665 | 117 | 46238 | 93.4671 | ng | 84 |
| 15) bis(2-Chloroethyl)ether | 5.681 | 93 | 138453 | 93.9702 | ng | 81 |
| 17) Phenol | 5.601 | 94 | 145208 | 74.6416 | ng | 85 |
| 18) 2-Chlorophenol | 5.724 | 128 | 156211 | 103.3518 | ng | 81 |
| 19) N-Decane | 5.762 | 57 | 154814 | 89.6028 | ng | 91 |
| 20) 1,3-Dichlorobenzene | 5.852 | 146 | 150147 | 88.6743 | ng | 97 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 155863 | 90.1773 | ng | 98 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 143937 | 87.6116 | ng | 98 |
| 24) Benzyl alcohol | 6.018 | 108 | 84255 | 87.7778 | ng | 64 |
| 25) bis(2-chloroisopropyl)... | 6.125 | 45 | 197666 | 82.0628 | ng | 96 |
| 26) 2-Methylphenol | 6.109 | 108 | 144960 | 104.1581 | ng | 97 |
| 27) Acetophenone | 6.232 | 105 | 202323 | 104.4009 | ng | 71 |
| 28) Hexachloroethane | 6.312 | 117 | 56966 | 91.6216 | ng | 83 |
| 29) N-Nitroso-di-n-propyla... | 6.227 | 70 | 94194 | 98.5965 | ng | 79 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 148768 | 109.5896 | ng | 89 |
| 33) Nitrobenzene | 6.366 | 77 | 141191 | 100.0809 | ng | 76 |
| 34) Isophorone | 6.553 | 82 | 256047 | 98.0541 | ng | 78 |
| 35) 2-Nitrophenol | 6.612 | 139 | 92165 | 116.8210 | ng | 81 |
| 36) 2,4-Dimethylphenol | 6.639 | 107 | 156807 | 119.3364 | ng | 88 |
| 37) Benzoic Acid | 6.735 | 105 | 130417 | 133.3510 | ng | 82 |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 166491 | 100.6173 | ng | 95 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 131710 | 109.6273 | ng | 88 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 121206 | 98.5096 | ng | 98 |
| 41) Naphthalene | 6.922 | 128 | 423034 | 92.5097 | ng | 100 |
| 42) 4-Chloroaniline | 6.960 | 127 | 23856 | 13.9796 | ng | 93 |
| 43) Hexachlorobutadiene | 7.008 | 225 | 56053 | 96.1965 | ng | 97 |
| 44) Caprolactam | 7.248 | 113 | 37341 | 79.1343 | ng | 70 |
| 45) 4-Chloro-3-methylphenol | 7.323 | 107 | 147468 | 123.9146 | ng | 77 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 319852 | 105.4529 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 340586 | 118.3720 | ng | 95 |
| 49) 1,1'-Biphenyl | 7.831 | 154 | 394158 | 115.1679 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 119042 | 110.1135 | ng | 97 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 54634 | 110.8273 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.682 | 196 | 93679 | 128.7848 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.714 | 196 | 102890 | 131.4864 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.858 | 162 | 277157 | 106.9247 | ng | 92 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 229093 | 112.4075 | ng | 89 |
| 59) Diphenyl Ether | 7.917 | 170 | 213271 | 116.2099 | ng | 73 |
| 60) 2-Nitroaniline | 7.938 | 65 | 106492 | 126.3831 | ng | 40 |
| 61) Coumarin | 8.126 | 146 | 129079 | 129.2697 | ng | 88 |
| 62) Acenaphthylene | 8.217 | 152 | 439637 | 110.4032 | ng | 100 |
| 63) Dimethylphthalate | 8.072 | 163 | 317140 | 112.6986 | ng | 93 |
| 64) 2,6-Dinitrotoluene | 8.136 | 165 | 71272 | 114.8357 | ng | 61 |
| 65) Acenaphthene | 8.366 | 153 | 279671 | 106.8314 | ng | 99 |
| 66) 3-Nitroaniline | 8.286 | 138 | 31069 | 39.8556 | ng | 69 |
| 67) 2,4-Dinitrophenol | 8.382 | 184 | 48183 | 127.5204 | ng | 33 |

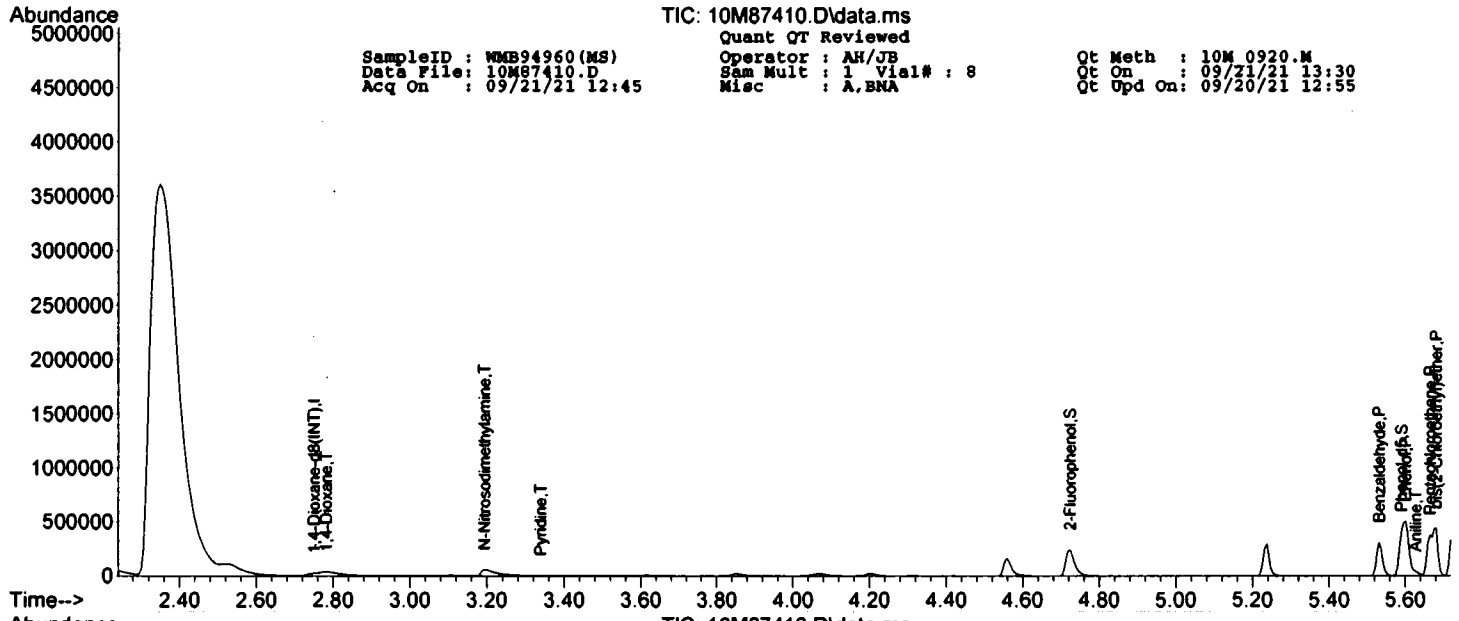
Quantitation Report (QT Reviewed)

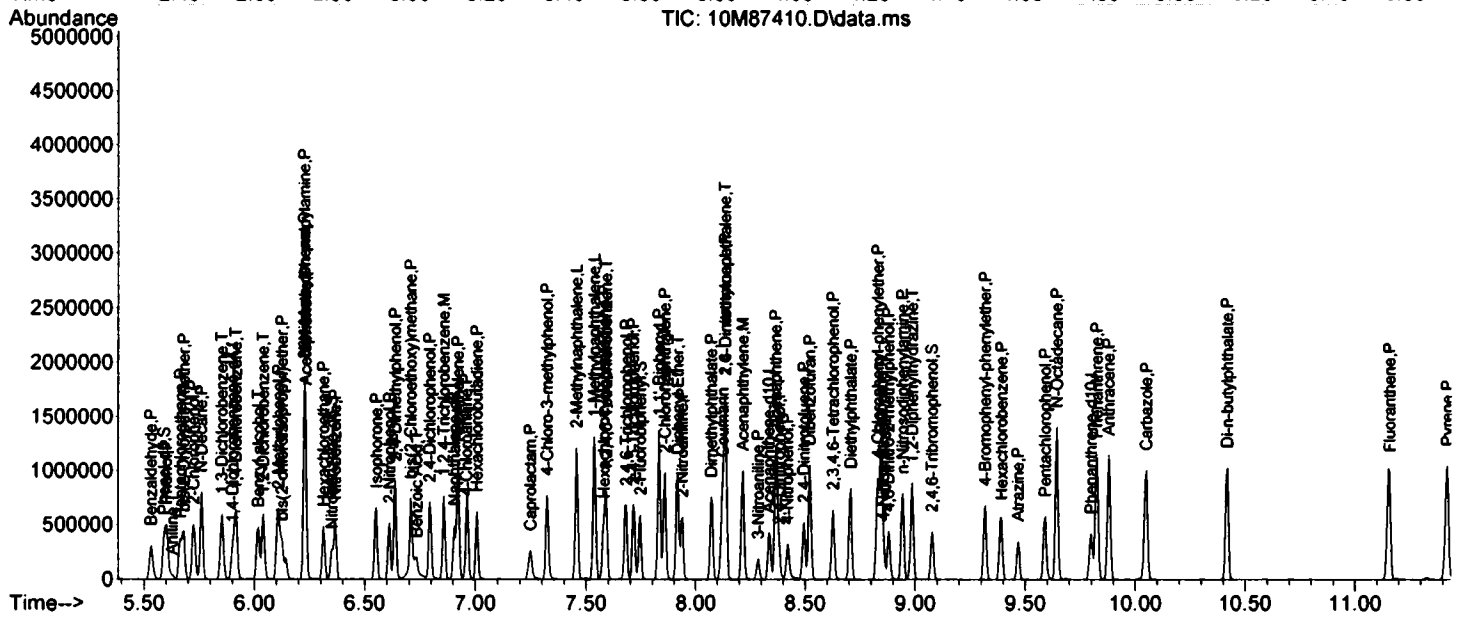
SampleID : WMB94960(MS) Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87410.D Sam Mult : 1 Vial# : 8 Qt On : 09/21/21 13:30
Acq On : 09/21/21 12:45 Misc : A,BNA Qt Upd On: 09/20/21 12:55

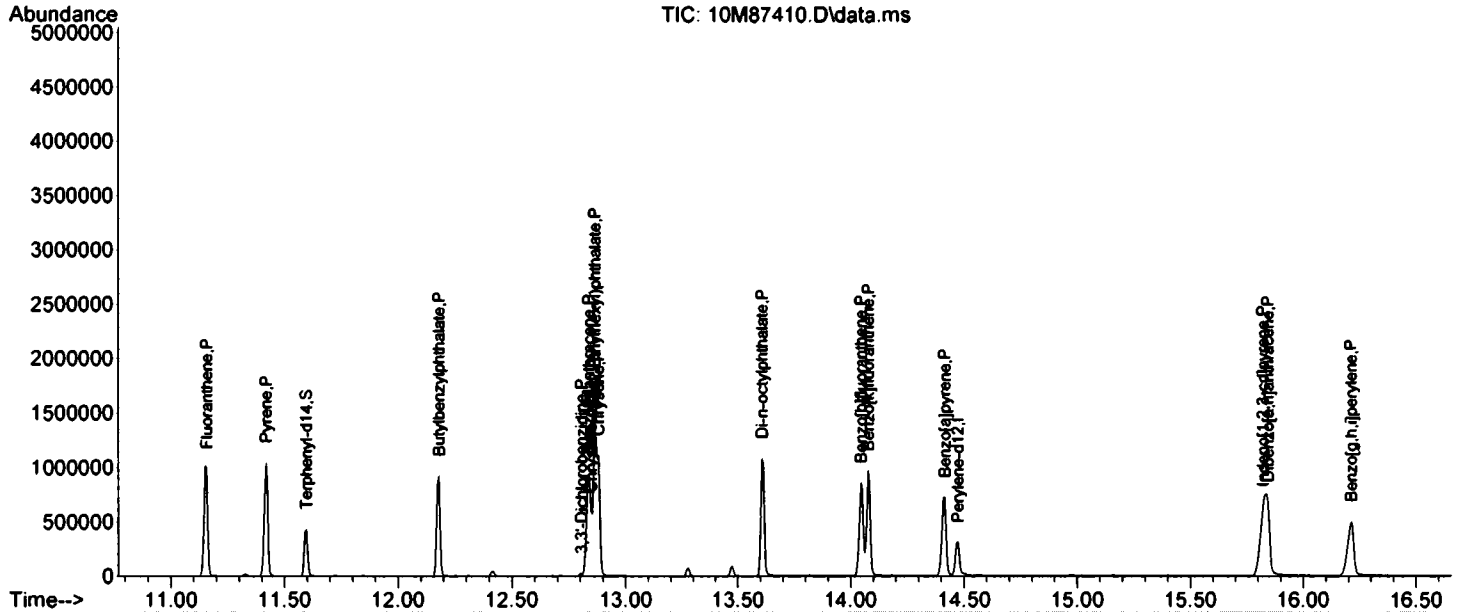
Data Path : G:\GcMsData\2021\GCMS_10\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | Dibenzofuran | 8.521 | 168 | 428420 | 114.2566 | ng | 84 |
| 69) | 2,4-Dinitrotoluene | 8.495 | 165 | 100052 | 110.9184 | ng | 60 |
| 70) | 4-Nitrophenol | 8.420 | 65 | 55585 | 108.5289 | ng | 95 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.628 | 232 | 72163 | 122.1073 | ng | 89 |
| 72) | Fluorene | 8.848 | 166 | 325302 | 110.0602 | ng | 97 |
| 73) | 4-Chlorophenyl-phenyle... | 8.832 | 204 | 144382 | 113.4439 | ng | 86 |
| 74) | Diethylphthalate | 8.709 | 149 | 318748 | 114.5717 | ng | 96 |
| 75) | 4-Nitroaniline | 8.858 | 138 | 68335 | 79.0737 | ng | 66 |
| 76) | Atrazine | 9.468 | 200 | 35871 | 49.4505 | ng | 97 |
| 78) | 4,6-Dinitro-2-methylph... | 8.880 | 198 | 65077 | 128.0932 | ng | 63 |
| 79) | n-Nitrosodiphenylamine | 8.944 | 169 | 202695 | 79.3564 | ng | 96 |
| 81) | 1,2-Diphenylhydrazine | 8.987 | 77 | 336789 | 114.7015 | ng | 81 |
| 82) | 4-Bromophenyl-phenylether | 9.318 | 248 | 75986 | 113.3772 | ng | 92 |
| 83) | Hexachlorobenzene | 9.393 | 284 | 76679 | 108.8561 | ng | 68 |
| 84) | N-Octadecane | 9.645 | 57 | 252897 | 125.0568 | ng | 87 |
| 85) | Pentachlorophenol | 9.591 | 266 | 66545 | 143.4011 | ng | 98 |
| 86) | Phenanthrene | 9.827 | 178 | 463589 | 110.5698 | ng | 98 |
| 87) | Anthracene | 9.880 | 178 | 473366 | 111.0462 | ng | 100 |
| 88) | Carbazole | 10.051 | 167 | 476638 | 117.0286 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.420 | 149 | 564538 | 115.1646 | ng | 97 |
| 90) | Fluoranthene | 11.158 | 202 | 481180 | 116.8220 | ng | 93 |
| 92) | Pyrene | 11.420 | 202 | 472222 | 112.7365 | ng | 94 |
| 97) | Butylbenzylphthalate | 12.180 | 149 | 247177 | 118.9394 | ng | 68 |
| 99) | 3,3'-Dichlorobenzidine | 12.806 | 252 | 6675 | 4.9235 | ng | 95 |
| 100) | Benzo[a]anthracene | 12.838 | 228 | 365911 | 104.5080 | ng | 100 |
| 101) | Chrysene | 12.881 | 228 | 412555 | 117.5881 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.865 | 149 | 345515 | 126.4747 | ng | 91 |
| 104) | Di-n-octylphthalate | 13.608 | 149 | 581778 | 124.6620 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.047 | 252 | 387543m | 122.9832 | ng | |
| 106) | Benzo[k]fluoranthene | 14.079 | 252 | 384782m | 123.9504 | ng | |
| 107) | Benzo[a]pyrene | 14.416 | 252 | 341553 | 117.6606 | ng | 95 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.822 | 276 | 399320 | 123.6588 | ng | 83 |
| 109) | Dibenzo[a,h]anthracene | 15.844 | 278 | 342217 | 123.6339 | ng | 96 |
| 110) | Benzo[g,h,i]perylene | 16.213 | 276 | 328892 | 120.3146 | ng | 88 |

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


Abundance
TIC: 10M87410.D\data.ms
Quant QT Reviewed
SampleID : MMB94960(MS)
Data File: 10M87410.D
Acq On : 09/21/21 12:45
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 13:30
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
Time-->


Abundance
TIC: 10M87410.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
1-Methylnaphthalene,T
Acenaphthylene,M
Dimethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
2,4,6-Tribromophenol,S
Time-->


Abundance
TIC: 10M87410.D\data.ms
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94984

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5M117938.D | WMB94984(MS) | 9/21/2021 3:14:00 PM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **1,4-Dioxane** | 1 | 69.8706 | 0 | 100 | 70 | 20 | 160 |
| Pyridine | 1 | 27.1862 | 0 | 100 | 27 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 64.0277 | 0 | 100 | 64 | 50 | 150 |
| **Benzaldehyde** | 1 | 58.4368 | 0 | 100 | 58 | 20 | 220 |
| Aniline | 1 | 59.935 | 0 | 100 | 60 | 20 | 150 |
| Pentachloroethane | 1 | 91.3893 | 0 | 100 | 91 | 50 | 130 |
| **bis(2-Chloroethyl)ether** | 1 | 87.3277 | 0 | 100 | 87 | 50 | 130 |
| **Phenol** | 1 | 46.17 | 0 | 100 | 46 | 20 | 150 |
| **2-Chlorophenol** | 1 | 95.6433 | 0 | 100 | 96 | 70 | 130 |
| N-Decane | 1 | 88.2289 | 0 | 100 | 88 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 82.8003 | 0 | 100 | 83 | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 81.42 | 0 | 100 | 81 | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 79.8838 | 0 | 100 | 80 | 50 | 130 |
| Benzyl alcohol | 1 | 91.3254 | 0 | 100 | 91 | 70 | 130 |
| **bis(2-chloroisopropyl)ether** | 1 | 73.8357 | 0 | 100 | 74 | 40 | 130 |
| **2-Methylphenol** | 1 | 85.4563 | 0 | 100 | 85 | 60 | 130 |
| **Acetophenone** | 1 | 93.3169 | 0 | 100 | 93 | 50 | 130 |
| **Hexachloroethane** | 1 | 81.2428 | 0 | 100 | 81 | 50 | 130 |
| **N-Nitroso-di-n-propylamine** | 1 | 86.0622 | 0 | 100 | 86 | 50 | 130 |
| **3&4-Methylphenol** | 1 | 82.5937 | 0 | 100 | 83 | 50 | 130 |
| **Nitrobenzene** | 1 | 88.9564 | 0 | 100 | 89 | 70 | 130 |
| **Isophorone** | 1 | 86.3814 | 0 | 100 | 86 | 70 | 130 |
| **2-Nitrophenol** | 1 | 100.7704 | 0 | 100 | 101 | 70 | 130 |
| **2,4-Dimethylphenol** | 1 | 99.9393 | 0 | 100 | 100 | 40 | 130 |
| Benzoic Acid | 1 | 66.5825 | 0 | 100 | 67 | 20 | 130 |
| **bis(2-Chloroethoxy)methane** | 1 | 88.711 | 0 | 100 | 89 | 70 | 130 |
| **2,4-Dichlorophenol** | 1 | 100.4481 | 0 | 100 | 100 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 87.3876 | 0 | 100 | 87 | 50 | 130 |
| **Naphthalene** | 1 | 81.9094 | 0 | 100 | 82 | 70 | 130 |
| **4-Chloroaniline** | 1 | 102.1463 | 0 | 100 | 102 | 50 | 150 |
| **Hexachlorobutadiene** | 1 | 85.7505 | 0 | 100 | 86 | 70 | 130 |
| **Caprolactam** | 1 | 46.316 | 0 | 100 | 46 | 20 | 130 |
| **4-Chloro-3-methylphenol** | 1 | 105.4844 | 0 | 100 | 105 | 70 | 130 |
| **2-Methylnaphthalene** | 1 | 91.3856 | 0 | 100 | 91 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 102.2785 | 0 | 100 | 102 | 70 | 130 |
| **1,1'-Biphenyl** | 1 | 99.7028 | 0 | 100 | 100 | 70 | 130 |
| **1,2,4,5-Tetrachlorobenzene** | 1 | 98.6651 | 0 | 100 | 99 | 70 | 130 |
| **Hexachlorocyclopentadiene** | 1 | 99.473 | 0 | 100 | 99 | 20 | 130 |
| **2,4,6-Trichlorophenol** | 1 | 108.7166 | 0 | 100 | 109 | 70 | 130 |
| **2,4,5-Trichlorophenol** | 1 | 110.9652 | 0 | 100 | 111 | 70 | 130 |
| **2-Chloronaphthalene** | 1 | 91.2617 | 0 | 100 | 91 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 97.3464 | 0 | 100 | 97 | 70 | 130 |
| Diphenyl Ether | 1 | 99.3904 | 0 | 100 | 99 | 70 | 130 |
| **2-Nitroaniline** | 1 | 108.383 | 0 | 100 | 108 | 50 | 150 |
| Coumarin | 1 | 108.2652 | 0 | 100 | 108 | 70 | 130 |
| **Acenaphthylene** | 1 | 93.985 | 0 | 100 | 94 | 70 | 130 |
| **Dimethylphthalate** | 1 | 94.5362 | 0 | 100 | 95 | 70 | 130 |
| **2,6-Dinitrotoluene** | 1 | 95.7777 | 0 | 100 | 96 | 70 | 130 |
| **Acenaphthene** | 1 | 92.4988 | 0 | 100 | 92 | 70 | 130 |
| **3-Nitroaniline** | 1 | 113.7721 | 0 | 100 | 114 | 50 | 150 |
| **2,4-Dinitrophenol** | 1 | 107.6823 | 0 | 100 | 108 | 20 | 150 |
| **Dibenzofuran** | 1 | 98.9736 | 0 | 100 | 99 | 70 | 130 |
| **2,4-Dinitrotoluene** | 1 | 91.2631 | 0 | 100 | 91 | 40 | 130 |
| **4-Nitrophenol** | 1 | 55.1357 | 0 | 100 | 55 | 20 | 150 |
| **2,3,4,6-Tetrachlorophenol** | 1 | 104.4725 | 0 | 100 | 104 | 70 | 130 |
| **Fluorene** | 1 | 92.7173 | 0 | 100 | 93 | 70 | 130 |
| **4-Chlorophenyl-phenylether** | 1 | 95.1718 | 0 | 100 | 95 | 70 | 130 |
| **Diethylphthalate** | 1 | 97.6789 | 0 | 100 | 98 | 50 | 130 |
| **4-Nitroaniline** | 1 | 114.5823 | 0 | 100 | 115 | 50 | 150 |
| **Atrazine** | 1 | 80.29 | 0 | 100 | 80 | 50 | 130 |
| **4,6-Dinitro-2-methylphenol** | 1 | 111.8624 | 0 | 100 | 112 | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94984

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **n-Nitrosodiphenylamine** | **1** | **79.8539** | **0** | **100** | **80** | **50** | **130** |
| 1,2-Diphenylhydrazine | 1 | 91.4427 | 0 | 100 | 91 | 70 | 130 |
| **4-Bromophenyl-phenylether** | **1** | **99.3235** | **0** | **100** | **99** | **70** | **130** |
| **Hexachlorobenzene** | **1** | **92.0703** | **0** | **100** | **92** | **70** | **130** |
| N-Octadecane | 1 | 109.7069 | 0 | 100 | 110 | 70 | 130 |
| **Pentachlorophenol** | **1** | **120.3175** | **0** | **100** | **120** | **40** | **130** |
| **Phenanthrene** | **1** | **95.4797** | **0** | **100** | **95** | **70** | **130** |
| **Anthracene** | **1** | **93.1724** | **0** | **100** | **93** | **70** | **130** |
| **Carbazole** | **1** | **108.1004** | **0** | **100** | **108** | **70** | **130** |
| **Di-n-butylphthalate** | **1** | **98.0593** | **0** | **100** | **98** | **70** | **130** |
| **Fluoranthene** | **1** | **99.3564** | **0** | **100** | **99** | **70** | **130** |
| **Pyrene** | **1** | **92.6039** | **0** | **100** | **93** | **70** | **130** |
| Benzidine | 1 | 6.8353 | 0 | 100 | 6.8 | 0 | 134 |
| **Butylbenzylphthalate** | **1** | **97.2484** | **0** | **100** | **97** | **50** | **130** |
| **3,3'-Dichlorobenzidine** | **1** | **94.8071** | **0** | **100** | **95** | **1** | **150** |
| **Benzo[a]anthracene** | **1** | **91.2925** | **0** | **100** | **91** | **70** | **130** |
| **Chrysene** | **1** | **95.7967** | **0** | **100** | **96** | **50** | **130** |
| **bis(2-Ethylhexyl)phthalate** | **1** | **99.2998** | **0** | **100** | **99** | **70** | **130** |
| **Di-n-octylphthalate** | **1** | **103.2518** | **0** | **100** | **103** | **70** | **130** |
| **Benzo[b]fluoranthene** | **1** | **102.4002** | **0** | **100** | **102** | **70** | **130** |
| **Benzo[k]fluoranthene** | **1** | **99.4923** | **0** | **100** | **99** | **70** | **130** |
| **Benzo[a]pyrene** | **1** | **99.5191** | **0** | **100** | **100** | **70** | **130** |
| **Indeno[1,2,3-cd]pyrene** | **1** | **99.7275** | **0** | **100** | **100** | **70** | **130** |
| **Dibenzo[a,h]anthracene** | **1** | **99.9662** | **0** | **100** | **100** | **70** | **130** |
| **Benzo[g,h,i]perylene** | **1** | **97.7774** | **0** | **100** | **98** | **70** | **130** |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

SampleID : WMB94984(MS) Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117938.D Sam Mult : 1 Vial# : 5 Qt On : 09/21/21 16:28
Acq On : 09/21/21 15:14 Misc : A,BNA Qt Upd On: 09/20/21 13:03

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.601 | 96 | 65658 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 89161 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.827 | 136 | 340379 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.253 | 164 | 172556 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.717 | 188 | 334300 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.772 | 240 | 330224 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.386 | 264 | 354510 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.615 | 112 | 184669 | 78.42 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 78.42% | | | |
| 16) Phenol-d5 | 5.496 | 99 | 152063 | 53.91 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.91% | | | |
| 32) Nitrobenzene-d5 | 6.271 | 128 | 69980 | 60.25 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 120.50% | | | |
| 55) 2-Fluorobiphenyl | 7.660 | 172 | 316500 | 56.37 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 112.74% | | | |
| 80) 2,4,6-Tribromophenol | 8.995 | 330 | 113250 | 142.10 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 142.10% | | | |
| 94) Terphenyl-d14 | 11.517 | 244 | 339060 | 68.00 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 136.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.644 | 88 | 105581m | 69.8706 | ng | |
| 9) Pyridine | 3.098 | 79 | 84467 | 27.1862 | ng | 67 |
| 10) N-Nitrosodimethylamine | 3.044 | 74 | 147563 | 64.0277 | ng | 71 |
| 12) Benzaldehyde | 5.443 | 77 | 130223 | 58.4368 | ng | 81 |
| 13) Aniline | 5.539 | 93 | 220974 | 59.9350 | ng | 60 |
| 14) Pentachloroethane | 5.576 | 117 | 77651 | 91.3893 | ng | 69 |
| 15) bis(2-Chloroethyl)ether | 5.598 | 93 | 222829 | 87.3277 | ng | 78 |
| 17) Phenol | 5.507 | 94 | 157711 | 46.1700 | ng | 87 |
| 18) 2-Chlorophenol | 5.635 | 128 | 243103 | 95.6433 | ng | 79 |
| 19) N-Decane | 5.673 | 57 | 198040 | 88.2289 | ng | 97 |
| 20) 1,3-Dichlorobenzene | 5.769 | 146 | 240349 | 82.8003 | ng | 97 |
| 22) 1,4-Dichlorobenzene | 5.833 | 146 | 256442 | 81.4200 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 5.956 | 146 | 235700 | 79.8838 | ng | 97 |
| 24) Benzyl alcohol | 5.929 | 108 | 154583 | 91.3254 | ng | 80 |
| 25) bis(2-chloroisopropyl)... | 6.041 | 45 | 212688 | 73.8357 | ng | 89 |
| 26) 2-Methylphenol | 6.015 | 108 | 205026 | 85.4563 | ng | 100 |
| 27) Acetophenone | 6.148 | 105 | 339793 | 93.3169 | ng | 64 |
| 28) Hexachloroethane | 6.228 | 117 | 93720 | 81.2428 | ng | 90 |
| 29) N-Nitroso-di-n-propyla... | 6.148 | 70 | 150898 | 86.0622 | ng | 74 |
| 30) 3&4-Methylphenol | 6.143 | 108 | 196516 | 82.5937 | ng | 83 |
| 33) Nitrobenzene | 6.287 | 77 | 243933 | 88.9564 | ng | 81 |
| 34) Isophorone | 6.469 | 82 | 422638 | 86.3814 | ng | 89 |
| 35) 2-Nitrophenol | 6.533 | 139 | 134907 | 100.7704 | ng | 88 |
| 36) 2,4-Dimethylphenol | 6.554 | 107 | 250854 | 99.9393 | ng | 99 |
| 37) Benzoic Acid | 6.629 | 105 | 111273 | 66.5825 | ng | 89 |
| 38) bis(2-Chloroethoxy)met... | 6.629 | 93 | 261508 | 88.7110 | ng | 98 |
| 39) 2,4-Dichlorophenol | 6.709 | 162 | 214065 | 100.4481 | ng | 88 |
| 40) 1,2,4-Trichlorobenzene | 6.778 | 180 | 223153 | 87.3876 | ng | 97 |
| 41) Naphthalene | 6.843 | 128 | 649450 | 81.9094 | ng | 99 |
| 42) 4-Chloroaniline | 6.880 | 127 | 301239m | 102.1463 | ng | |
| 43) Hexachlorobutadiene | 6.923 | 225 | 133745 | 85.7505 | ng | 95 |
| 44) Caprolactam | 7.158 | 113 | 34780 | 46.3160 | ng | 69 |
| 45) 4-Chloro-3-methylphenol | 7.233 | 107 | 229764 | 105.4844 | ng | 89 |
| 46) 2-Methylnaphthalene | 7.371 | 142 | 467776 | 91.3856 | ng | 100 |
| 47) 1-Methylnaphthalene | 7.452 | 142 | 497383 | 102.2785 | ng | 91 |
| 49) 1,1'-Biphenyl | 7.745 | 154 | 607215 | 99.7028 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.505 | 216 | 254664 | 98.6651 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.489 | 237 | 137632 | 99.4730 | ng | 98 |
| 53) 2,4,6-Trichlorophenol | 7.590 | 196 | 174736 | 108.7166 | ng | 100 |
| 54) 2,4,5-Trichlorophenol | 7.623 | 196 | 188063 | 110.9652 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.772 | 162 | 438821 | 91.2617 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.050 | 156 | 349950 | 97.3464 | ng | 91 |
| 59) Diphenyl Ether | 7.831 | 170 | 338383 | 99.3904 | ng | 82 |
| 60) 2-Nitroaniline | 7.852 | 65 | 169126 | 108.3830 | ng | 53 |
| 61) Coumarin | 8.039 | 146 | 192255 | 108.2652 | ng | 64 |
| 62) Acenaphthylene | 8.130 | 152 | 649431 | 93.9850 | ng | 99 |
| 63) Dimethylphthalate | 7.996 | 163 | 514017 | 94.5362 | ng | 99 |
| 64) 2,6-Dinitrotoluene | 8.055 | 165 | 111327 | 95.7777 | ng | 66 |
| 65) Acenaphthene | 8.285 | 153 | 425759 | 92.4988 | ng | 98 |
| 66) 3-Nitroaniline | 8.205 | 138 | 145003 | 113.7721 | ng | 82 |
| 67) 2,4-Dinitrophenol | 8.296 | 184 | 76287 | 107.5823 | ng | 36 |

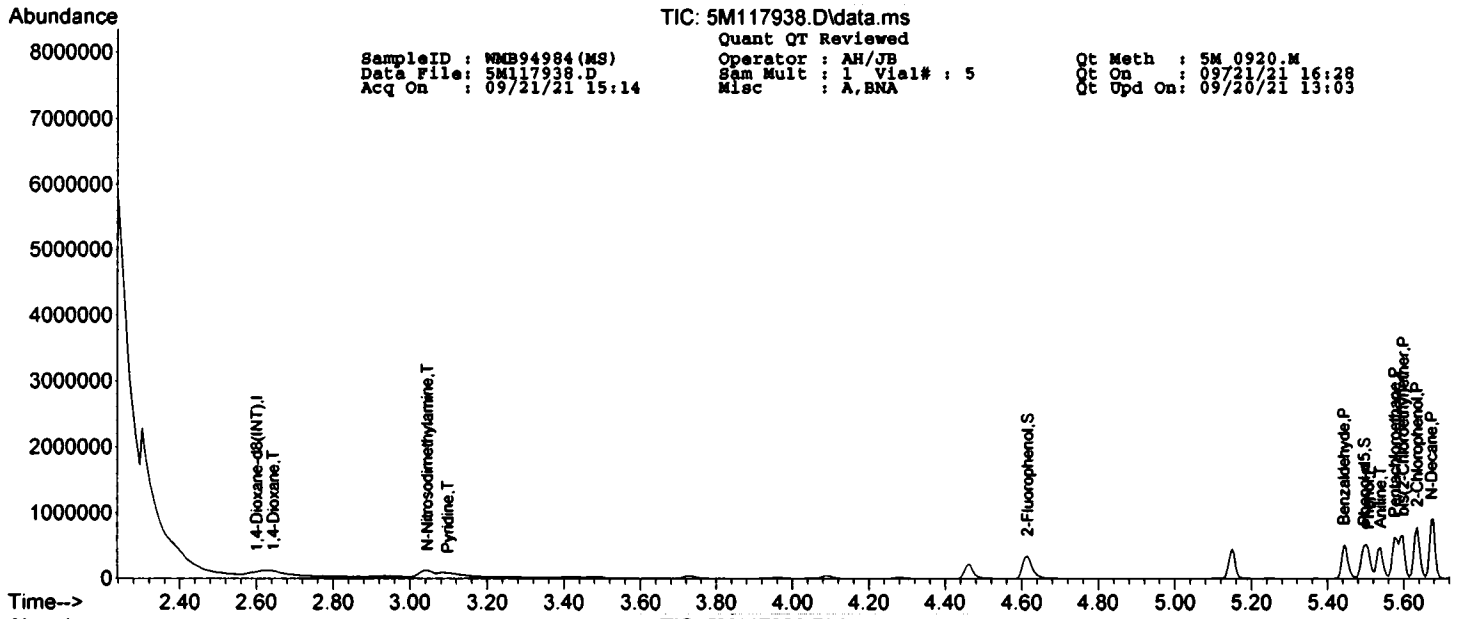
Quantitation Report (QT Reviewed)

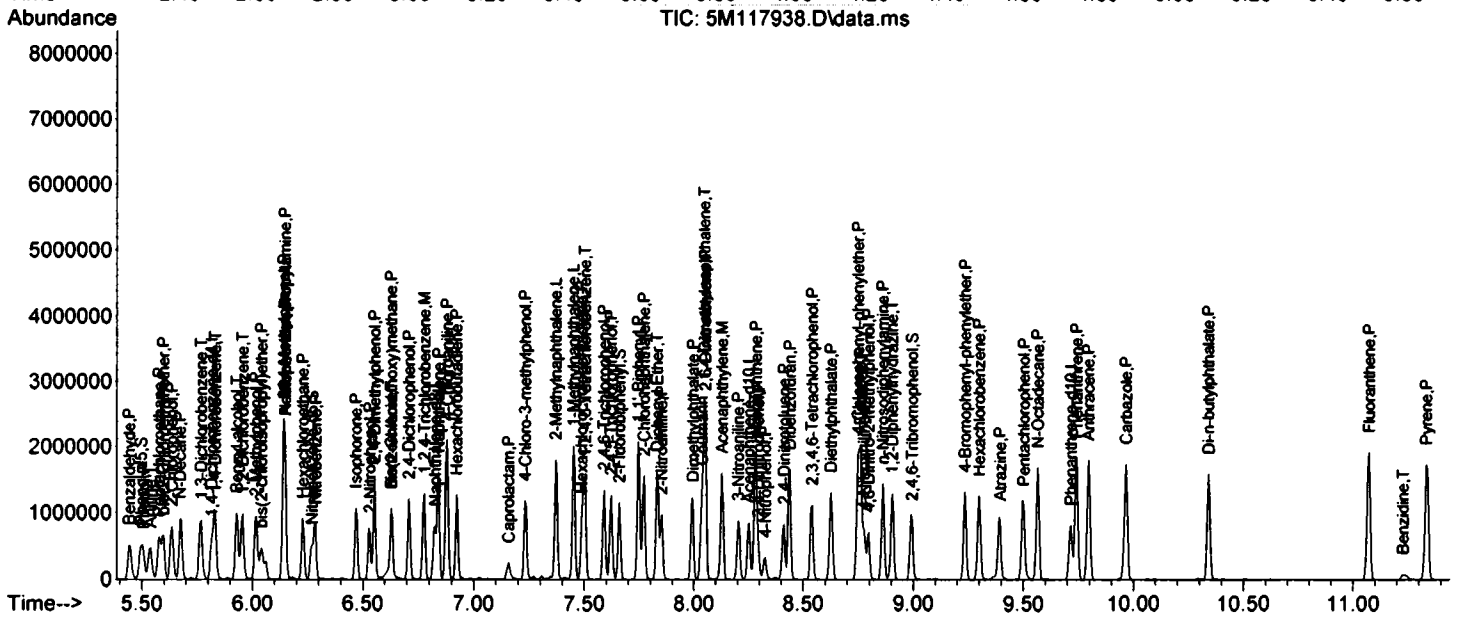
SampleID : WMB94984(MS) Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117938.D Sam Mult : 1 Vial# : 5 Qt On : 09/21/21 16:28
Acq On : 09/21/21 15:14 Misc : A,BNA Qt Upd On: 09/20/21 13:03

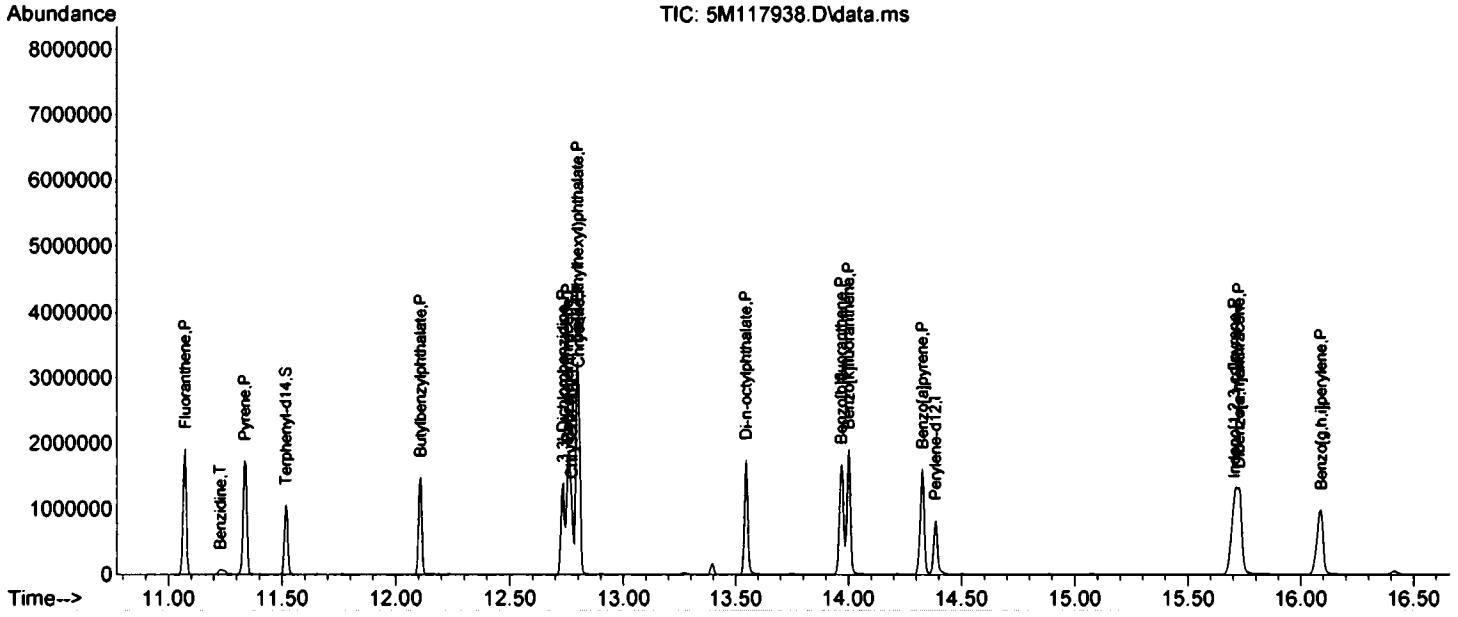
Data Path : G:\GcMsData\2021\GCMS_5\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | Dibenzofuran | 8.440 | 168 | 682748 | 98.9736 | ng | 87 |
| 69) | 2,4-Dinitrotoluene | 8.413 | 165 | 154058 | 91.2631 | ng | 61 |
| 70) | 4-Nitrophenol | 8.328 | 65 | 54834 | 55.1357 | ng | 74 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.541 | 232 | 150267 | 104.4725 | ng | 84 |
| 72) | Fluorene | 8.760 | 166 | 493750 | 92.7173 | ng | 100 |
| 73) | 4-Chlorophenyl-phenyle... | 8.750 | 204 | 259416 | 95.1718 | ng | 83 |
| 74) | Diethylphthalate | 8.627 | 149 | 509374 | 97.6789 | ng | 98 |
| 75) | 4-Nitroaniline | 8.776 | 138 | 155298 | 114.5823 | ng | 87 |
| 76) | Atrazine | 9.396 | 200 | 127400 | 80.2900 | ng | 94 |
| 78) | 4,6-Dinitro-2-methylph... | 8.798 | 198 | 113411 | 111.8624 | ng | 63 |
| 79) | n-Nitrosodiphenylamine | 8.862 | 169 | 363525 | 79.8539 | ng | 98 |
| 81) | 1,2-Diphenylhydrazine | 8.905 | 77 | 489850 | 91.4427 | ng | 82 |
| 82) | 4-Bromophenyl-phenylether | 9.236 | 248 | 165842 | 99.3235 | ng | 83 |
| 83) | Hexachlorobenzene | 9.300 | 284 | 167161 | 92.0703 | ng | 67 |
| 84) | N-Octadecane | 9.567 | 57 | 282373 | 109.7069 | ng | 68 |
| 85) | Pentachlorophenol | 9.503 | 266 | 147612 | 120.3175 | ng | 98 |
| 86) | Phenanthrene | 9.743 | 178 | 750880 | 95.4797 | ng | 99 |
| 87) | Anthracene | 9.797 | 178 | 740277 | 93.1724 | ng | 100 |
| 88) | Carbazole | 9.968 | 167 | 775826 | 108.1004 | ng | 98 |
| 89) | Di-n-butylphthalate | 10.342 | 149 | 860239 | 98.0593 | ng | 98 |
| 90) | Fluoranthene | 11.074 | 202 | 867337 | 99.3564 | ng | 85 |
| 92) | Pyrene | 11.335 | 202 | 846203 | 92.6039 | ng | 84 |
| 93) | Benzidine | 11.229 | 184 | 35796 | 6.8353 | ng | 79 |
| 97) | Butylbenzylphthalate | 12.110 | 149 | 385891 | 97.2484 | ng | 70 |
| 99) | 3,3'-Dichlorobenzidine | 12.735 | 252 | 334633 | 94.8071 | ng | 94 |
| 100) | Benzo[a]anthracene | 12.756 | 228 | 813612 | 91.2925 | ng | 100 |
| 101) | Chrysene | 12.804 | 228 | 839306 | 95.7967 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.799 | 149 | 550731 | 99.2998 | ng | 93 |
| 104) | Di-n-octylphthalate | 13.547 | 149 | 934128 | 103.2518 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 13.969 | 252 | 855594 | 102.4002 | ng | 95 |
| 106) | Benzo[k]fluoranthene | 14.001 | 252 | 837714m | 99.4923 | ng | |
| 107) | Benzo[a]pyrene | 14.327 | 252 | 781672 | 99.5191 | ng | 90 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.705 | 276 | 928420 | 99.7275 | ng | 72 |
| 109) | Dibenzo[a,h]anthracene | 15.727 | 278 | 788607 | 99.9662 | ng | 91 |
| 110) | Benzo[g,h,i]perylene | 16.090 | 276 | 767627 | 97.7774 | ng | 70 |

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


Abundance
TIC: 5M117938.D\data.ms
Quant QT Reviewed
SampleID : WMB94984(MS)
Data File: 5M117938.D
Acq On : 09/21/21 15:14
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09721/21 16:28
Qt Upd On: 09/20/21 13:03
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 5M117938.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 5M117938.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94959

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87401.D | AD26083-042(MS:AD26083-040 | 9/20/2021 11:29:00 PM |
| Non Spike(If applicable): | 10M87396.D | AD26083-040 | 9/20/2021 9:39:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E  Matrix: Aqueous  Units: ug/L  QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 122.1371 | 31.3481 | 100 | 91 | 20 | 160 |
| Pyridine | 1 | 68.2759 | 0 | 100 | 68 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 70.8688 | 0 | 100 | 71 | 50 | 150 |
| Benzaldehyde | 1 | 43.6297 | 0 | 100 | 44 | 20 | 220 |
| Aniline | 1 | 55.497 | 0 | 100 | 55 | 20 | 150 |
| Pentachloroethane | 1 | 96.8949 | 0 | 100 | 97 | 50 | 130 |
| bis(2-Chloroethyl)ether | 1 | 89.0652 | 0 | 100 | 89 | 50 | 130 |
| Phenol | 1 | 50.7525 | 0 | 100 | 51 | 20 | 150 |
| 2-Chlorophenol | 1 | 102.8968 | 0 | 100 | 103 | 70 | 130 |
| N-Decane | 1 | 93.7741 | 0 | 100 | 94 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 16.1865 | 0 | 100 | 16* | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 18.9158 | 0 | 100 | 19* | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 22.7166 | 0 | 100 | 23* | 50 | 130 |
| Benzyl alcohol | 1 | 101.914 | 0 | 100 | 102 | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 63.256 | 0 | 100 | 63 | 40 | 130 |
| 2-Methylphenol | 1 | 99.462 | 0 | 100 | 99 | 60 | 130 |
| Acetophenone | 1 | 109.31 | 0 | 100 | 109 | 50 | 130 |
| Hexachloroethane | 1 | 17.5613 | 0 | 100 | 18* | 50 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 101.6043 | 0 | 100 | 102 | 50 | 130 |
| 3&4-Methylphenol | 1 | 98.5993 | 0 | 100 | 99 | 50 | 130 |
| Nitrobenzene | 1 | 94.9255 | 0 | 100 | 95 | 70 | 130 |
| Isophorone | 1 | 102.5118 | 0 | 100 | 103 | 70 | 130 |
| 2-Nitrophenol | 1 | 119.5034 | 0 | 100 | 120 | 70 | 130 |
| 2,4-Dimethylphenol | 1 | 125.4376 | 0 | 100 | 125 | 40 | 130 |
| Benzoic Acid | 1 | 105.2644 | 0 | 100 | 105 | 20 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 108.8701 | 0 | 100 | 109 | 70 | 130 |
| 2,4-Dichlorophenol | 1 | 114.347 | 0 | 100 | 114 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 69.6812 | 0 | 100 | 70 | 50 | 130 |
| Naphthalene | 1 | 72.5472 | 0 | 100 | 73 | 70 | 130 |
| 4-Chloroaniline | 1 | 77.9894 | 0 | 100 | 78 | 50 | 150 |
| Hexachlorobutadiene | 1 | 50.4146 | 0 | 100 | 50* | 70 | 130 |
| Caprolactam | 1 | 53.4322 | 0 | 100 | 53 | 20 | 130 |
| 4-Chloro-3-methylphenol | 1 | 127.3 | 0 | 100 | 127 | 70 | 130 |
| 2-Methylnaphthalene | 1 | 108.3978 | 0 | 100 | 108 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 122.0339 | 0 | 100 | 122 | 70 | 130 |
| 1,1'-Biphenyl | 1 | 117.2819 | 0 | 100 | 117 | 70 | 130 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 113.6919 | 0 | 100 | 114 | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 84.3011 | 0 | 100 | 84 | 20 | 130 |
| 2,4,6-Trichlorophenol | 1 | 128.131 | 0 | 100 | 128 | 70 | 130 |
| 2,4,5-Trichlorophenol | 1 | 129.0656 | 0 | 100 | 129 | 70 | 130 |
| 2-Chloronaphthalene | 1 | 103.5735 | 0 | 100 | 104 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 111.9776 | 0 | 100 | 112 | 70 | 130 |
| Diphenyl Ether | 1 | 116.3025 | 0 | 100 | 116 | 70 | 130 |
| 2-Nitroaniline | 1 | 123.2156 | 0 | 100 | 123 | 50 | 150 |
| Coumarin | 1 | 126.7898 | 0 | 100 | 127 | 70 | 130 |
| Acenaphthylene | 1 | 108.8358 | 0 | 100 | 109 | 70 | 130 |
| Dimethylphthalate | 1 | 112.8253 | 0 | 100 | 113 | 70 | 130 |
| 2,6-Dinitrotoluene | 1 | 112.6341 | 0 | 100 | 113 | 70 | 130 |
| Acenaphthene | 1 | 106.4357 | 0 | 100 | 106 | 70 | 130 |
| 3-Nitroaniline | 1 | 85.6423 | 0 | 100 | 86 | 50 | 150 |
| 2,4-Dinitrophenol | 1 | 98.2502 | 0 | 100 | 98 | 20 | 150 |
| Dibenzofuran | 1 | 113.6644 | 0 | 100 | 114 | 70 | 130 |
| 2,4-Dinitrotoluene | 1 | 108.7178 | 0 | 100 | 109 | 40 | 130 |
| 4-Nitrophenol | 1 | 59.564 | 0 | 100 | 60 | 20 | 150 |
| 2,3,4,6-Tetrachlorophenol | 1 | 121.7759 | 0 | 100 | 122 | 70 | 130 |
| Fluorene | 1 | 108.4533 | 0 | 100 | 108 | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 111.2589 | 0 | 100 | 111 | 70 | 130 |
| Diethylphthalate | 1 | 112.2284 | 0 | 100 | 112 | 50 | 130 |
| 4-Nitroaniline | 1 | 92.1752 | 0 | 100 | 92 | 50 | 150 |
| Atrazine | 1 | 72.0013 | 0 | 100 | 72 | 50 | 130 |
| 4,6-Dinitro-2-methylphenol | 1 | 104.7671 | 0 | 100 | 105 | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **n-Nitrosodiphenylamine** | 1 | 95.026 | 0 | 100 | 95 | 50 | 130 |
| 1,2-Diphenylhydrazine | 1 | 117.844 | 0 | 100 | 118 | 70 | 130 |
| **4-Bromophenyl-phenylether** | 1 | 115.6384 | 0 | 100 | 116 | 70 | 130 |
| **Hexachlorobenzene** | 1 | 109.4281 | 0 | 100 | 109 | 70 | 130 |
| N-Octadecane | 1 | 125.6133 | 0 | 100 | 126 | 70 | 130 |
| **Pentachlorophenol** | 1 | 154.4478 | 0 | 100 | 154* | 40 | 130 |
| **Phenanthrene** | 1 | 113.3525 | 0 | 100 | 113 | 70 | 130 |
| **Anthracene** | 1 | 112.3591 | 0 | 100 | 112 | 70 | 130 |
| **Carbazole** | 1 | 121.5498 | 0 | 100 | 122 | 70 | 130 |
| **Di-n-butylphthalate** | 1 | 115.4422 | 0 | 100 | 115 | 70 | 130 |
| **Fluoranthene** | 1 | 114.3512 | 0 | 100 | 114 | 70 | 130 |
| **Pyrene** | 1 | 114.3604 | 0 | 100 | 114 | 70 | 130 |
| Benzidine | 1 | 0 | 0 | 100 | 0 | 0 | 134 |
| **Butylbenzylphthalate** | 1 | 119.3268 | 0 | 100 | 119 | 50 | 130 |
| **3,3'-Dichlorobenzidine** | 1 | 0 | 0 | 100 | 0* | 1 | 150 |
| **Benzo[a]anthracene** | 1 | 107.8353 | 0 | 100 | 108 | 70 | 130 |
| **Chrysene** | 1 | 115.9138 | 0 | 100 | 116 | 50 | 130 |
| **bis(2-Ethylhexyl)phthalate** | 1 | 128.0431 | 0 | 100 | 128 | 70 | 130 |
| **Di-n-octylphthalate** | 1 | 126.6224 | 0 | 100 | 127 | 70 | 130 |
| **Benzo[b]fluoranthene** | 1 | 124.9713 | 0 | 100 | 125 | 70 | 130 |
| **Benzo[k]fluoranthene** | 1 | 117.8013 | 0 | 100 | 118 | 70 | 130 |
| **Benzo[a]pyrene** | 1 | 116.6767 | 0 | 100 | 117 | 70 | 130 |
| **Indeno[1,2,3-cd]pyrene** | 1 | 119.0256 | 0 | 100 | 119 | 70 | 130 |
| **Dibenzo[a,h]anthracene** | 1 | 118.3377 | 0 | 100 | 118 | 70 | 130 |
| **Benzo[g,h,i]perylene** | 1 | 115.8156 | 0 | 100 | 116 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch:WMB94959

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87402.D | AD26083-044(MSD:AD26083-0 | 9/20/2021 11:51:00 PM |
| Non Spike(If applicable): | 10M87396.D | AD26083-040 | 9/20/2021 9:39:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 115.729 | 31.3481 | 100 | 84 | 20 | 160 |
| Pyridine | 1 | 73.9737 | 0 | 100 | 74 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 63.407 | 0 | 100 | 63 | 50 | 150 |
| Benzaldehyde | 1 | 51.8081 | 0 | 100 | 52 | 20 | 220 |
| Aniline | 1 | 74.369 | 0 | 100 | 74 | 20 | 150 |
| Pentachloroethane | 1 | 93.4788 | 0 | 100 | 93 | 50 | 130 |
| bis(2-Chloroethyl)ether | 1 | 82.223 | 0 | 100 | 82 | 50 | 130 |
| Phenol | 1 | 50.6473 | 0 | 100 | 51 | 20 | 150 |
| 2-Chlorophenol | 1 | 100.1794 | 0 | 100 | 100 | 70 | 130 |
| N-Decane | 1 | 87.3146 | 0 | 100 | 87 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 17.2929 | 0 | 100 | 17* | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 20.0394 | 0 | 100 | 20* | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 22.846 | 0 | 100 | 23* | 50 | 130 |
| Benzyl alcohol | 1 | 97.9924 | 0 | 100 | 98 | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 59.4119 | 0 | 100 | 59 | 40 | 130 |
| 2-Methylphenol | 1 | 96.6824 | 0 | 100 | 97 | 60 | 130 |
| Acetophenone | 1 | 107.8972 | 0 | 100 | 108 | 50 | 130 |
| Hexachloroethane | 1 | 18.7192 | 0 | 100 | 19* | 50 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 99.5022 | 0 | 100 | 100 | 50 | 130 |
| 3&4-Methylphenol | 1 | 96.7308 | 0 | 100 | 97 | 50 | 130 |
| Nitrobenzene | 1 | 90.6854 | 0 | 100 | 91 | 70 | 130 |
| Isophorone | 1 | 100.1836 | 0 | 100 | 100 | 70 | 130 |
| 2-Nitrophenol | 1 | 118.5647 | 0 | 100 | 119 | 70 | 130 |
| 2,4-Dimethylphenol | 1 | 126.0558 | 0 | 100 | 126 | 40 | 130 |
| Benzoic Acid | 1 | 41.3583 | 0 | 100 | 41 | 20 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 104.9599 | 0 | 100 | 105 | 70 | 130 |
| 2,4-Dichlorophenol | 1 | 113.3154 | 0 | 100 | 113 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 67.8408 | 0 | 100 | 68 | 50 | 130 |
| Naphthalene | 1 | 71.9426 | 0 | 100 | 72 | 70 | 130 |
| 4-Chloroaniline | 1 | 92.4182 | 0 | 100 | 92 | 50 | 150 |
| Hexachlorobutadiene | 1 | 49.9824 | 0 | 100 | 50* | 70 | 130 |
| Caprolactam | 1 | 53.3813 | 0 | 100 | 53 | 20 | 130 |
| 4-Chloro-3-methylphenol | 1 | 125.5062 | 0 | 100 | 126 | 70 | 130 |
| 2-Methylnaphthalene | 1 | 107.0869 | 0 | 100 | 107 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 123.0337 | 0 | 100 | 123 | 70 | 130 |
| 1,1'-Biphenyl | 1 | 116.9076 | 0 | 100 | 117 | 70 | 130 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 115.2837 | 0 | 100 | 115 | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 80.4319 | 0 | 100 | 80 | 20 | 130 |
| 2,4,6-Trichlorophenol | 1 | 129.5356 | 0 | 100 | 130 | 70 | 130 |
| 2,4,5-Trichlorophenol | 1 | 124.6454 | 0 | 100 | 125 | 70 | 130 |
| 2-Chloronaphthalene | 1 | 104.4805 | 0 | 100 | 104 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 116.9314 | 0 | 100 | 117 | 70 | 130 |
| Diphenyl Ether | 1 | 118.8679 | 0 | 100 | 119 | 70 | 130 |
| 2-Nitroaniline | 1 | 124.1388 | 0 | 100 | 124 | 50 | 150 |
| Coumarin | 1 | 128.6166 | 0 | 100 | 129 | 70 | 130 |
| Acenaphthylene | 1 | 109.3323 | 0 | 100 | 109 | 70 | 130 |
| Dimethylphthalate | 1 | 112.7048 | 0 | 100 | 113 | 70 | 130 |
| 2,6-Dinitrotoluene | 1 | 116.9826 | 0 | 100 | 117 | 70 | 130 |
| Acenaphthene | 1 | 107.7684 | 0 | 100 | 108 | 70 | 130 |
| 3-Nitroaniline | 1 | 98.1659 | 0 | 100 | 98 | 50 | 150 |
| 2,4-Dinitrophenol | 1 | 41.0857 | 0 | 100 | 41 | 20 | 150 |
| Dibenzofuran | 1 | 114.512 | 0 | 100 | 115 | 70 | 130 |
| 2,4-Dinitrotoluene | 1 | 108.0516 | 0 | 100 | 108 | 40 | 130 |
| 4-Nitrophenol | 1 | 55.8687 | 0 | 100 | 56 | 20 | 150 |
| 2,3,4,6-Tetrachlorophenol | 1 | 108.3421 | 0 | 100 | 108 | 70 | 130 |
| Fluorene | 1 | 108.6492 | 0 | 100 | 109 | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 112.1692 | 0 | 100 | 112 | 70 | 130 |
| Diethylphthalate | 1 | 113.0668 | 0 | 100 | 113 | 50 | 130 |
| 4-Nitroaniline | 1 | 103.7332 | 0 | 100 | 104 | 50 | 150 |
| Atrazine | 1 | 88.3462 | 0 | 100 | 88 | 50 | 130 |
| 4,6-Dinitro-2-methylphenol | 1 | 72.1954 | 0 | 100 | 72 | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | 1 | 93.9788 | 0 | 100 | 94 | 50 | 130 |
| 1,2-Diphenylhydrazine | 1 | 117.0329 | 0 | 100 | 117 | 70 | 130 |
| 4-Bromophenyl-phenylether | 1 | 115.1649 | 0 | 100 | 115 | 70 | 130 |
| Hexachlorobenzene | 1 | 108.2061 | 0 | 100 | 108 | 70 | 130 |
| N-Octadecane | 1 | 126.5053 | 0 | 100 | 127 | 70 | 130 |
| Pentachlorophenol | 1 | 119.5243 | 0 | 100 | 120 | 40 | 130 |
| Phenanthrene | 1 | 111.6203 | 0 | 100 | 112 | 70 | 130 |
| Anthracene | 1 | 111.7785 | 0 | 100 | 112 | 70 | 130 |
| Carbazole | 1 | 121.5774 | 0 | 100 | 122 | 70 | 130 |
| Di-n-butylphthalate | 1 | 114.932 | 0 | 100 | 115 | 70 | 130 |
| Fluoranthene | 1 | 114.8603 | 0 | 100 | 115 | 70 | 130 |
| Pyrene | 1 | 110.8625 | 0 | 100 | 111 | 70 | 130 |
| Benzidine | 1 | 0 | 0 | 100 | 0 | 0 | 134 |
| Butylbenzylphthalate | 1 | 117.8818 | 0 | 100 | 118 | 50 | 130 |
| 3,3'-Dichlorobenzidine | 1 | 2.9362 | 0 | 100 | 2.9 | 1 | 150 |
| Benzo[a]anthracene | 1 | 102.6532 | 0 | 100 | 103 | 70 | 130 |
| Chrysene | 1 | 112.942 | 0 | 100 | 113 | 50 | 130 |
| bis(2-Ethylhexyl)phthalate | 1 | 124.151 | 0 | 100 | 124 | 70 | 130 |
| Di-n-octylphthalate | 1 | 123.5363 | 0 | 100 | 124 | 70 | 130 |
| Benzo[b]fluoranthene | 1 | 123.2372 | 0 | 100 | 123 | 70 | 130 |
| Benzo[k]fluoranthene | 1 | 112.1671 | 0 | 100 | 112 | 70 | 130 |
| Benzo[a]pyrene | 1 | 114.8853 | 0 | 100 | 115 | 70 | 130 |
| Indeno[1,2,3-cd]pyrene | 1 | 117.7173 | 0 | 100 | 118 | 70 | 130 |
| Dibenzo[a,h]anthracene | 1 | 115.4169 | 0 | 100 | 115 | 70 | 130 |
| Benzo[g,h,i]perylene | 1 | 114.3478 | 0 | 100 | 114 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: WMB94959

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87402.D | AD26083-044(MSD:AD26083-0 | 9/20/2021 11:51:00 PM |
| Duplicate(If applicable): | 10M87401.D | AD26083-042(MS:AD26083-040 | 9/20/2021 11:29:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 115.729 | 122.1371 | 5.4 | 20 |
| Pyridine | 1 | 73.9737 | 68.2759 | 8 | 40 |
| N-Nitrosodimethylamine | 1 | 63.407 | 70.8688 | 11 | 20 |
| Benzaldehyde | 1 | 51.8081 | 43.6297 | 17 | 20 |
| Aniline | 1 | 74.369 | 55.497 | 29* | 20 |
| Pentachloroethane | 1 | 93.4788 | 96.8949 | 3.6 | 20 |
| bis(2-Chloroethyl)ether | 1 | 82.223 | 89.0652 | 8 | 20 |
| Phenol | 1 | 50.6473 | 50.7525 | 0.21 | 40 |
| 2-Chlorophenol | 1 | 100.1794 | 102.8968 | 2.7 | 40 |
| N-Decane | 1 | 87.3146 | 93.7741 | 7.1 | 20 |
| 1,3-Dichlorobenzene | 1 | 17.2929 | 16.1865 | 6.6 | 20 |
| 1,4-Dichlorobenzene | 1 | 20.0394 | 18.9158 | 5.8 | 40 |
| 1,2-Dichlorobenzene | 1 | 22.846 | 22.7166 | 0.57 | 20 |
| Benzyl alcohol | 1 | 97.9924 | 101.914 | 3.9 | 20 |
| bis(2-chloroisopropyl)ether | 1 | 59.4119 | 63.256 | 6.3 | 20 |
| 2-Methylphenol | 1 | 96.6824 | 99.462 | 2.8 | 40 |
| Acetophenone | 1 | 107.8972 | 109.31 | 1.3 | 20 |
| Hexachloroethane | 1 | 18.7192 | 17.5613 | 6.4 | 40 |
| N-Nitroso-di-n-propylamine | 1 | 99.5022 | 101.6043 | 2.1 | 40 |
| 3&4-Methylphenol | 1 | 96.7308 | 98.5993 | 1.9 | 40 |
| Nitrobenzene | 1 | 90.6854 | 94.9255 | 4.6 | 40 |
| Isophorone | 1 | 100.1836 | 102.5118 | 2.3 | 20 |
| 2-Nitrophenol | 1 | 118.5647 | 119.5034 | 0.79 | 20 |
| 2,4-Dimethylphenol | 1 | 126.0558 | 125.4376 | 0.49 | 40 |
| Benzoic Acid | 1 | 41.3583 | 105.2644 | 87* | 20 |
| bis(2-Chloroethoxy)methane | 1 | 104.9599 | 108.8701 | 3.7 | 20 |
| 2,4-Dichlorophenol | 1 | 113.3154 | 114.347 | 0.91 | 20 |
| 1,2,4-Trichlorobenzene | 1 | 67.8408 | 69.6812 | 2.7 | 40 |
| Naphthalene | 1 | 71.9426 | 72.5472 | 0.84 | 40 |
| 4-Chloroaniline | 1 | 92.4182 | 77.9894 | 17 | 20 |
| Hexachlorobutadiene | 1 | 49.9824 | 50.4146 | 0.86 | 40 |
| Caprolactam | 1 | 53.3813 | 53.4322 | 0.1 | 20 |
| 4-Chloro-3-methylphenol | 1 | 125.5062 | 127.3 | 1.4 | 40 |
| 2-Methylnaphthalene | 1 | 107.0869 | 108.3978 | 1.2 | 20 |
| 1-Methylnaphthalene | 1 | 123.0337 | 122.0339 | 0.82 | 20 |
| 1,1'-Biphenyl | 1 | 116.9076 | 117.2819 | 0.32 | 20 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 115.2837 | 113.6919 | 1.4 | 20 |
| Hexachlorocyclopentadiene | 1 | 80.4319 | 84.3011 | 4.7 | 20 |
| 2,4,6-Trichlorophenol | 1 | 129.5356 | 128.131 | 1.1 | 40 |
| 2,4,5-Trichlorophenol | 1 | 124.6454 | 129.0656 | 3.5 | 40 |
| 2-Chloronaphthalene | 1 | 104.4805 | 103.5735 | 0.87 | 20 |
| 1,4-Dimethylnaphthalene | 1 | 116.9314 | 111.9776 | 4.3 | 20 |
| Diphenyl Ether | 1 | 118.8679 | 116.3025 | 2.2 | 20 |
| 2-Nitroaniline | 1 | 124.1388 | 123.2156 | 0.75 | 20 |
| Coumarin | 1 | 128.6166 | 126.7898 | 1.4 | 20 |
| Acenaphthylene | 1 | 109.3323 | 108.8358 | 0.46 | 20 |
| Dimethylphthalate | 1 | 112.7048 | 112.8253 | 0.11 | 20 |
| 2,6-Dinitrotoluene | 1 | 116.9826 | 112.6341 | 3.8 | 20 |
| Acenaphthene | 1 | 107.7684 | 106.4357 | 1.2 | 40 |
| 3-Nitroaniline | 1 | 98.1659 | 85.6423 | 14 | 20 |
| 2,4-Dinitrophenol | 1 | 41.0857 | 98.2502 | 82* | 20 |
| Dibenzofuran | 1 | 114.512 | 113.6644 | 0.74 | 20 |
| 2,4-Dinitrotoluene | 1 | 108.0516 | 108.7178 | 0.61 | 40 |
| 4-Nitrophenol | 1 | 55.8687 | 59.564 | 6.4 | 40 |
| 2,3,4,6-Tetrachlorophenol | 1 | 108.3421 | 121.7759 | 12 | 20 |
| Fluorene | 1 | 108.6492 | 108.4533 | 0.18 | 40 |
| 4-Chlorophenyl-phenylether | 1 | 112.1692 | 111.2589 | 0.81 | 20 |
| Diethylphthalate | 1 | 113.0668 | 112.2284 | 0.74 | 20 |
| 4-Nitroaniline | 1 | 103.7332 | 92.1752 | 12 | 20 |
| Atrazine | 1 | 88.3462 | 72.0013 | 20 | 20 |
| 4,6-Dinitro-2-methylphenol | 1 | 72.1954 | 104.7671 | 37* | 20 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: WMB94959

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | 1 | 93.9788 | 95.026 | 1.1 | 20 |
| 1,2-Diphenylhydrazine | 1 | 117.0329 | 117.844 | 0.69 | 20 |
| 4-Bromophenyl-phenylether | 1 | 115.1649 | 115.6384 | 0.41 | 20 |
| Hexachlorobenzene | 1 | 108.2061 | 109.4281 | 1.1 | 40 |
| N-Octadecane | 1 | 126.5053 | 125.6133 | 0.71 | 20 |
| Pentachlorophenol | 1 | 119.5243 | 154.4478 | 25 | 40 |
| Phenanthrene | 1 | 111.6203 | 113.3525 | 1.5 | 20 |
| Anthracene | 1 | 111.7785 | 112.3591 | 0.52 | 20 |
| Carbazole | 1 | 121.5774 | 121.5498 | 0.02 | 20 |
| Di-n-butylphthalate | 1 | 114.932 | 115.4422 | 0.44 | 20 |
| Fluoranthene | 1 | 114.8603 | 114.3512 | 0.44 | 20 |
| Pyrene | 1 | 110.8625 | 114.3604 | 3.1 | 40 |
| Benzidine | 1 | 0 | 0 | NA | 20 |
| Butylbenzylphthalate | 1 | 117.8818 | 119.3268 | 1.2 | 40 |
| 3,3'-Dichlorobenzidine | 1 | 2.9362 | 0 | 200* | 20 |
| Benzo[a]anthracene | 1 | 102.6532 | 107.8353 | 4.9 | 20 |
| Chrysene | 1 | 112.942 | 115.9138 | 2.6 | 20 |
| bis(2-Ethylhexyl)phthalate | 1 | 124.151 | 128.0431 | 3.1 | 20 |
| Di-n-octylphthalate | 1 | 123.5363 | 126.6224 | 2.5 | 20 |
| Benzo[b]fluoranthene | 1 | 123.2372 | 124.9713 | 1.4 | 20 |
| Benzo[k]fluoranthene | 1 | 112.1671 | 117.8013 | 4.9 | 20 |
| Benzo[a]pyrene | 1 | 114.8853 | 116.6767 | 1.5 | 20 |
| Indeno[1,2,3-cd]pyrene | 1 | 117.7173 | 119.0256 | 1.1 | 20 |
| Dibenzo[a,h]anthracene | 1 | 115.4169 | 118.3377 | 2.5 | 20 |
| Benzo[g,h,i]perylene | 1 | 114.3478 | 115.8156 | 1.3 | 20 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

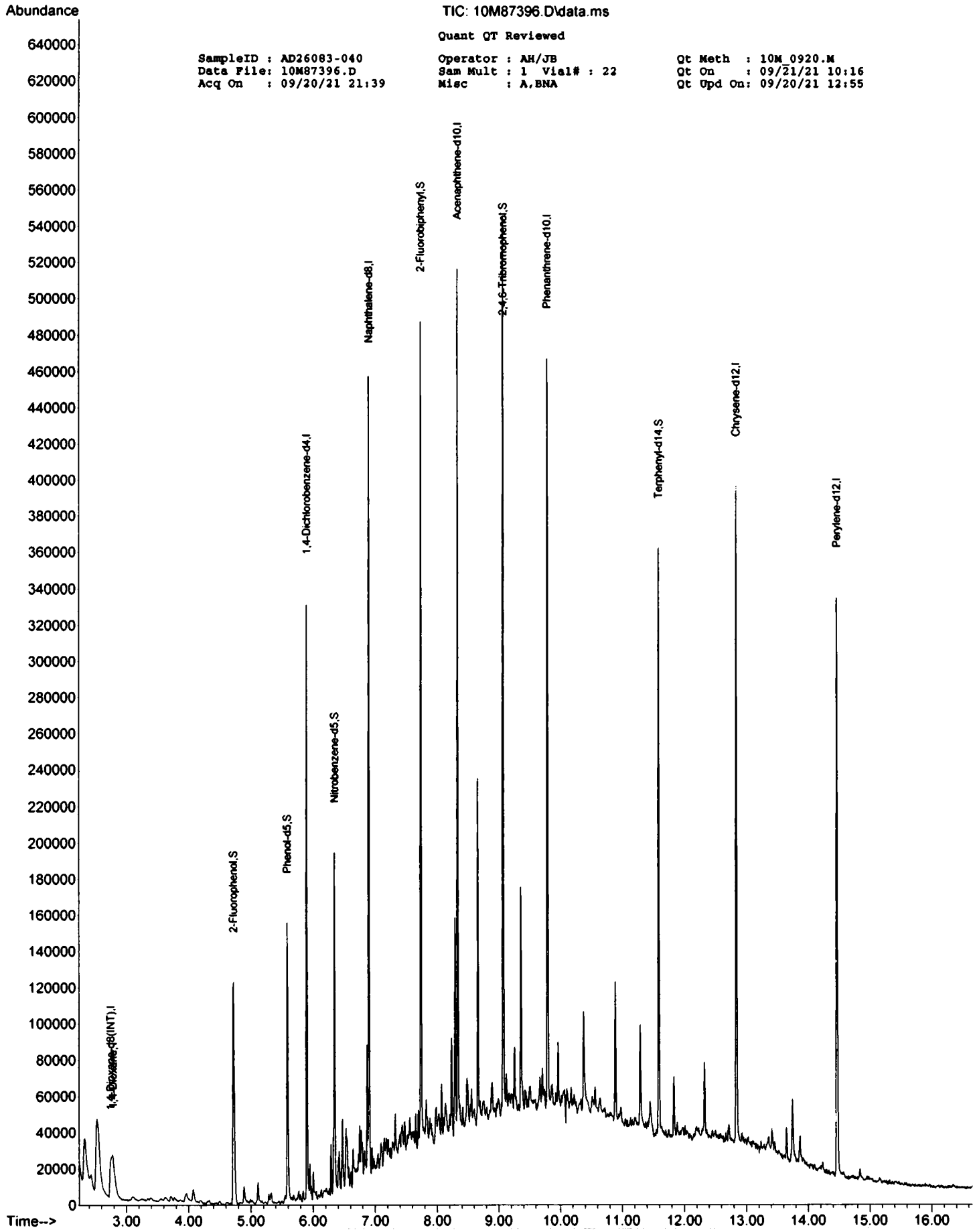
Quantitation Report (QT Reviewed)

SampleID : AD26083-040 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87396.D Sam Mult : 1 Vial# : 22 Qt On : 09/21/21 10:16
Acq On : 09/20/21 21:39 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.750 | 96 | 25927 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 51323 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 201541 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 94493 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.794 | 188 | 164648 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 120996 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 125624 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.724 | 112 | 60180 | 42.53 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 42.53% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 58971 | 34.27 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 34.27% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 28094 | 40.51 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 81.02% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 134965 | 45.09 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 90.18% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 27082 | 85.46 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 85.46% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 97857 | 51.91 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 103.82% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.788 | 88 | 18991 | 31.3481 | ng | 91 |

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


Abundance
TIC: 10M87396.D\data.ms
Quant QT Reviewed
SampleID : AD26083-040
Data File: 10M87396.D
Acq On : 09/20/21 21:39
Operator : AH/JB
Sam Mult : 1 Vial# : 22
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD26083-042(MS:AD26 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87401.D Sam Mult : 1 Vial# : 27 Qt On : 09/21/21 10:16
Acq On : 09/20/21 23:29 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.756 | 96 | 25297 | 40.00 | ng | 0.01 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 48775 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 193140 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 93711 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 163151 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.854 | 240 | 117532 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.475 | 264 | 120240 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.724 | 112 | 98244 | 71.16 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 71.16% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 84167 | 50.13 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.13% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 38422 | 57.81 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 115.62% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 135295 | 45.57 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 91.14% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 41300 | 125.74 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 125.74% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 124675 | 68.09 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 136.18% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.788 | 88 | 72194 | 122.1371 | ng | 62 |
| 9) Pyridine | 3.269 | 79 | 79347 | 68.2759 | ng | 82 |
| 10) N-Nitrosodimethylamine | 3.200 | 74 | 62200 | 70.8688 | ng | 83 |
| 12) Benzaldehyde | 5.532 | 77 | 53260 | 43.6297 | ng | 67 |
| 13) Aniline | 5.623 | 93 | 121140 | 55.4970 | ng | 66 |
| 14) Pentachloroethane | 5.665 | 117 | 49344 | 96.8949 | ng | 82 |
| 15) bis(2-Chloroethyl)ether | 5.681 | 93 | 135087 | 89.0652 | ng | 81 |
| 17) Phenol | 5.601 | 94 | 101639 | 50.7525 | ng | 85 |
| 18) 2-Chlorophenol | 5.724 | 128 | 160099 | 102.8968 | ng | 81 |
| 19) N-Decane | 5.762 | 57 | 166788 | 93.7741 | ng | 90 |
| 20) 1,3-Dichlorobenzene | 5.853 | 146 | 28214 | 16.1865 | ng | 96 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 32590 | 18.9158 | ng | 98 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 37202 | 22.7166 | ng | 96 |
| 24) Benzyl alcohol | 6.018 | 108 | 97512 | 101.9140 | ng | 63 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 151880 | 63.2560 | ng | 93 |
| 26) 2-Methylphenol | 6.109 | 108 | 137983 | 99.4620 | ng | 95 |
| 27) Acetophenone | 6.227 | 105 | 211161 | 109.3100 | ng | 76 |
| 28) Hexachloroethane | 6.313 | 117 | 10884 | 17.5613 | ng | 79 |
| 29) N-Nitroso-di-n-propyla... | 6.227 | 70 | 96758 | 101.6043 | ng | 77 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 133422 | 98.5993 | ng | 89 |
| 33) Nitrobenzene | 6.366 | 77 | 131838 | 94.9255 | ng | 73 |
| 34) Isophorone | 6.548 | 82 | 263530 | 102.5118 | ng | 85 |
| 35) 2-Nitrophenol | 6.612 | 139 | 92817 | 119.5034 | ng | 81 |
| 36) 2,4-Dimethylphenol | 6.639 | 107 | 162264 | 125.4376 | ng | 89 |
| 37) Benzoic Acid | 6.730 | 105 | 95460 | 105.2644 | ng | 83 |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 177349 | 108.8701 | ng | 95 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 135438 | 114.3470 | ng | 88 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 84404 | 69.6812 | ng | 99 |
| 41) Naphthalene | 6.922 | 128 | 326596 | 72.5472 | ng | 100 |
| 42) 4-Chloroaniline | 6.960 | 127 | 131021m | 77.9894 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 28920 | 50.4146 | ng | 99 |
| 44) Caprolactam | 7.254 | 113 | 23863 | 53.4322 | ng | 71 |
| 45) 4-Chloro-3-methylphenol | 7.323 | 107 | 149144 | 127.3000 | ng | 81 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 323678 | 108.3978 | ng | 97 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 345669 | 122.0339 | ng | 94 |
| 49) 1,1'-Biphenyl | 7.832 | 154 | 395159 | 117.2819 | ng | 94 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 122637 | 113.6919 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 40240 | 84.3011 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.682 | 196 | 92996 | 128.1310 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.714 | 196 | 100771 | 129.0656 | ng | 98 |
| 56) 2-Chloronaphthalene | 7.858 | 162 | 267873 | 103.5735 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 227709 | 111.9776 | ng | 89 |
| 59) Diphenyl Ether | 7.917 | 170 | 212966 | 116.3025 | ng | 73 |
| 60) 2-Nitroaniline | 7.939 | 65 | 103592 | 123.2156 | ng | 38 |
| 61) Coumarin | 8.126 | 146 | 126321 | 126.7898 | ng | 88 |
| 62) Acenaphthylene | 8.217 | 152 | 432431 | 108.8358 | ng | 99 |
| 63) Dimethylphthalate | 8.078 | 163 | 316790 | 112.8253 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.136 | 165 | 69750 | 112.6341 | ng | 61 |
| 65) Acenaphthene | 8.366 | 153 | 278015 | 106.4357 | ng | 97 |
| 66) 3-Nitroaniline | 8.286 | 138 | 66613 | 85.6423 | ng | 72 |
| 67) 2,4-Dinitrophenol | 8.383 | 184 | 35028 | 98.2502 | ng | 33 |

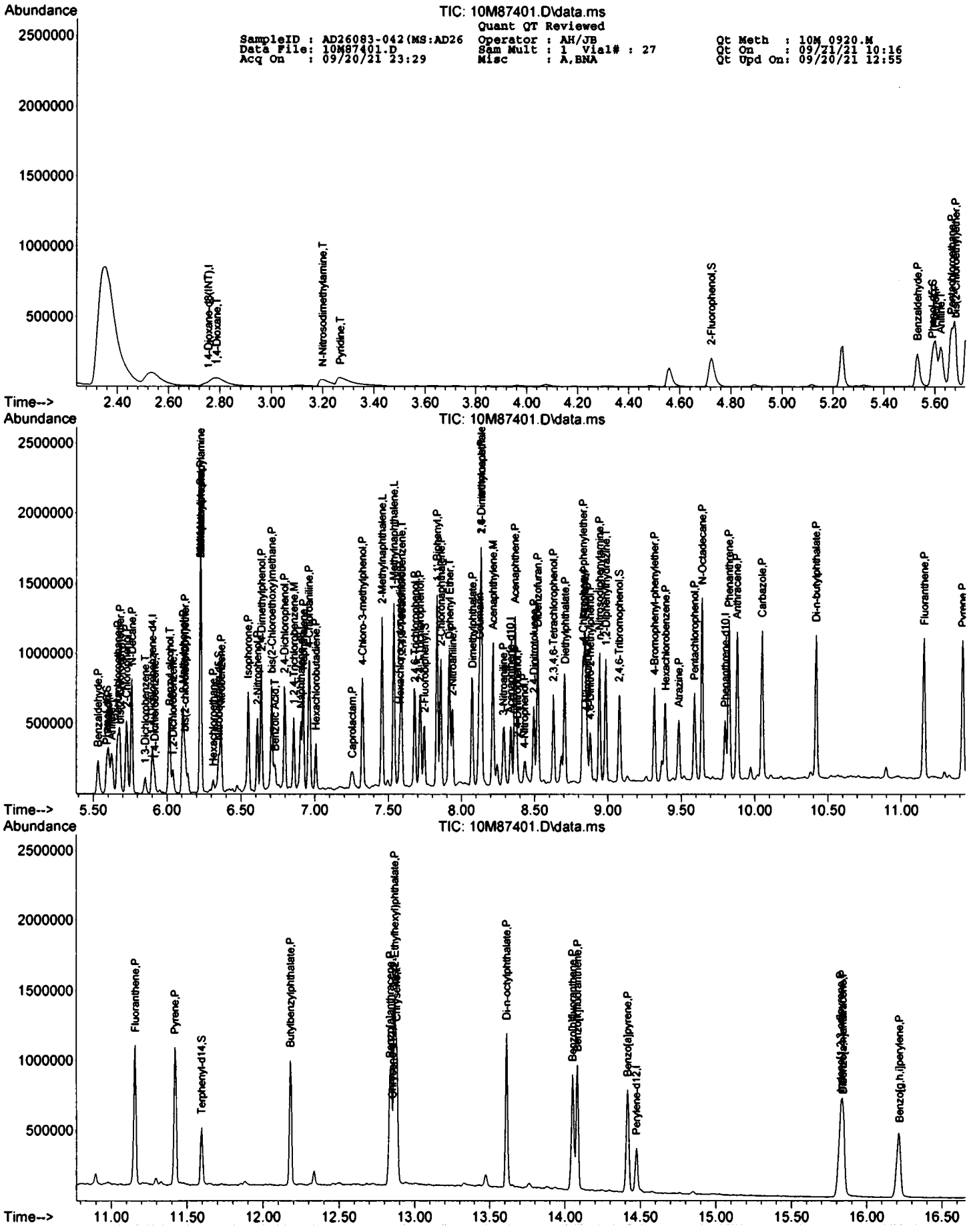
Quantitation Report (QT Reviewed)

SampleID : AD26083-042(MS:AD26 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87401.D Sam Mult : 1 Vial# : 27 Qt On : 09/21/21 10:16
Acq On : 09/20/21 23:29 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | Dibenzofuran | 8.522 | 168 | 425251 | 113.6644 | ng | 84 |
| 69) | 2,4-Dinitrotoluene | 8.495 | 165 | 97696 | 108.7178 | ng | 59 |
| 70) | 4-Nitrophenol | 8.431 | 65 | 29231 | 59.5640 | ng | 93 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.629 | 232 | 71807 | 121.7759 | ng | 88 |
| 72) | Fluorene | 8.842 | 166 | 319839 | 108.4533 | ng | 97 |
| 73) | 4-Chlorophenyl-phenyle... | 8.832 | 204 | 141286 | 111.2589 | ng | 86 |
| 74) | Diethylphthalate | 8.709 | 149 | 311534 | 112.2284 | ng | 96 |
| 75) | 4-Nitroaniline | 8.859 | 138 | 80180 | 92.1752 | ng | 67 |
| 76) | Atrazine | 9.484 | 200 | 52113 | 72.0013 | ng | 94 |
| 78) | 4,6-Dinitro-2-methylph... | 8.880 | 198 | 49918 | 104.7671 | ng | 56 |
| 79) | n-Nitrosodiphenylamine | 8.944 | 169 | 235499 | 95.0260 | ng | 96 |
| 81) | 1,2-Diphenylhydrazine | 8.987 | 77 | 335723 | 117.8440 | ng | 79 |
| 82) | 4-Bromophenyl-phenylether | 9.319 | 248 | 75196 | 115.6384 | ng | 91 |
| 83) | Hexachlorobenzene | 9.393 | 284 | 74789 | 109.4281 | ng | 68 |
| 84) | N-Octadecane | 9.645 | 57 | 246466 | 125.6133 | ng | 87 |
| 85) | Pentachlorophenol | 9.591 | 266 | 70524 | 154.4478 | ng | 97 |
| 86) | Phenanthrene | 9.827 | 178 | 461119 | 113.3525 | ng | 99 |
| 87) | Anthracene | 9.880 | 178 | 464715 | 112.3591 | ng | 99 |
| 88) | Carbazole | 10.051 | 167 | 480326 | 121.5498 | ng | 96 |
| 89) | Di-n-butylphthalate | 10.420 | 149 | 549097 | 115.4422 | ng | 97 |
| 90) | Fluoranthene | 11.158 | 202 | 456992 | 114.3512 | ng | 95 |
| 92) | Pyrene | 11.421 | 202 | 450153 | 114.3604 | ng | 94 |
| 97) | Butylbenzylphthalate | 12.180 | 149 | 233097 | 119.3268 | ng | 72 |
| 100) | Benzo[a]anthracene | 12.838 | 228 | 354805 | 107.8353 | ng | 99 |
| 101) | Chrysene | 12.881 | 228 | 382170 | 115.9138 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.870 | 149 | 328717 | 128.0431 | ng | 90 |
| 104) | Di-n-octylphthalate | 13.613 | 149 | 562225 | 126.6224 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.052 | 252 | 374456 | 124.9713 | ng | 98 |
| 106) | Benzo[k]fluoranthene | 14.084 | 252 | 347723 | 117.8013 | ng | 94 |
| 107) | Benzo[a]pyrene | 14.416 | 252 | 322053 | 116.6767 | ng | 97 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.828 | 276 | 365471 | 119.0256 | ng | 99 |
| 109) | Dibenzo[a,h]anthracene | 15.844 | 278 | 311461 | 118.3377 | ng | 97 |
| 110) | Benzo[g,h,i]perylene | 16.218 | 276 | 301036 | 115.8156 | ng | 88 |

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


Abundance
TIC: 10M87401.D\data.ms
Quant QT Reviewed
SampleID : AD26083-042(MS:AD26
Data File: 10M87401.D
Acq On : 09/20/21 23:29
Operator : AH/JB
Sam Mult : 1 Vial# : 27
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
Time-->
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
Acenaphthylene,M
Acenaphthene,P
Dimethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P

Quantitation Report (QT Reviewed)

SampleID : AD26083-044(MSD:AD2 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87402.D Sam Mult : 1 Vial# : 28 Qt On : 09/21/21 10:17
Acq On : 09/20/21 23:51 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.756 | 96 | 22736 | 40.00 | ng | 0.01 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 44396 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 174413 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 83096 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 145979 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.849 | 240 | 108035 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.474 | 264 | 111088 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.724 | 112 | 81477 | 65.66 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 65.66% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 71576 | 47.43 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 47.43% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 32315 | 53.84 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 107.68% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 112816 | 42.85 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 85.70% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 34973 | 119.78 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 119.78% | | | |
| 94) Terphenyl-d14 | 11.597 | 244 | 109716 | 65.19 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 130.38% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.788 | 88 | 61481 | 115.7290 | ng | 64 |
| 9) Pyridine | 3.269 | 79 | 77887 | 73.9737 | ng | 83 |
| 10) N-Nitrosodimethylamine | 3.200 | 74 | 50017 | 63.4070 | ng | 82 |
| 12) Benzaldehyde | 5.532 | 77 | 56841 | 51.8081 | ng | 69 |
| 13) Aniline | 5.622 | 93 | 145900 | 74.3690 | ng | 58 |
| 14) Pentachloroethane | 5.665 | 117 | 42785 | 93.4788 | ng | 84 |
| 15) bis(2-Chloroethyl)ether | 5.681 | 93 | 112084 | 82.2230 | ng | 80 |
| 17) Phenol | 5.606 | 94 | 91160 | 50.6473 | ng | 83 |
| 18) 2-Chlorophenol | 5.724 | 128 | 140091 | 100.1794 | ng | 82 |
| 19) N-Decane | 5.762 | 57 | 139577 | 87.3146 | ng | 92 |
| 20) 1,3-Dichlorobenzene | 5.852 | 146 | 27091 | 17.2929 | ng | 98 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 31426 | 20.0394 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 34055 | 22.8460 | ng | 98 |
| 24) Benzyl alcohol | 6.018 | 108 | 85342 | 97.9924 | ng | 65 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 129843 | 59.4119 | ng | 93 |
| 26) 2-Methylphenol | 6.109 | 108 | 122085 | 96.6824 | ng | 96 |
| 27) Acetophenone | 6.227 | 105 | 189719 | 107.8972 | ng | 78 |
| 28) Hexachloroethane | 6.312 | 117 | 10560 | 18.7192 | ng | 86 |
| 29) N-Nitroso-di-n-propyla... | 6.227 | 70 | 86249 | 99.5022 | ng | 79 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 119142 | 96.7308 | ng | 89 |
| 33) Nitrobenzene | 6.366 | 77 | 113737 | 90.6854 | ng | 74 |
| 34) Isophorone | 6.548 | 82 | 232573 | 100.1836 | ng | 84 |
| 35) 2-Nitrophenol | 6.612 | 139 | 83159 | 118.5647 | ng | 81 |
| 36) 2,4-Dimethylphenol | 6.639 | 107 | 147253 | 126.0558 | ng | 89 |
| 37) Benzoic Acid | 6.703 | 105 | 29115 | 41.3583 | ng | 82 |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 154401 | 104.9599 | ng | 96 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 121165 | 113.3154 | ng | 89 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 74207 | 67.8408 | ng | 98 |
| 41) Naphthalene | 6.922 | 128 | 292471 | 71.9426 | ng | 100 |
| 42) 4-Chloroaniline | 6.960 | 127 | 140207m | 92.4182 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 25892 | 49.9824 | ng | 96 |
| 44) Caprolactam | 7.248 | 113 | 21527 | 53.3813 | ng | 70 |
| 45) 4-Chloro-3-methylphenol | 7.323 | 107 | 132785 | 125.5062 | ng | 80 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 288759 | 107.0869 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 314710 | 123.0337 | ng | 96 |
| 49) 1,1'-Biphenyl | 7.831 | 154 | 355705 | 116.9076 | ng | 95 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 110268 | 115.2837 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 33893 | 80.4319 | ng | 98 |
| 53) 2,4,6-Trichlorophenol | 7.682 | 196 | 83366 | 129.5356 | ng | 98 |
| 54) 2,4,5-Trichlorophenol | 7.719 | 196 | 86296 | 124.6454 | ng | 97 |
| 56) 2-Chloronaphthalene | 7.858 | 162 | 239610 | 104.4805 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 210848 | 116.9314 | ng | 88 |
| 59) Diphenyl Ether | 7.917 | 170 | 193008 | 118.8679 | ng | 74 |
| 60) 2-Nitroaniline | 7.938 | 65 | 92546 | 124.1388 | ng | 42 |
| 61) Coumarin | 8.120 | 146 | 113626 | 128.6166 | ng | 89 |
| 62) Acenaphthylene | 8.217 | 152 | 385197 | 109.3323 | ng | 100 |
| 63) Dimethylphthalate | 8.078 | 163 | 280606 | 112.7048 | ng | 93 |
| 64) 2,6-Dinitrotoluene | 8.136 | 165 | 64237 | 116.9826 | ng | 61 |
| 65) Acenaphthene | 8.366 | 153 | 249610 | 107.7684 | ng | 97 |
| 66) 3-Nitroaniline | 8.291 | 138 | 67705 | 98.1659 | ng | 63 |
| 67) 2,4-Dinitrophenol | 8.382 | 184 | 11531 | 41.0857 | ng | 34 |

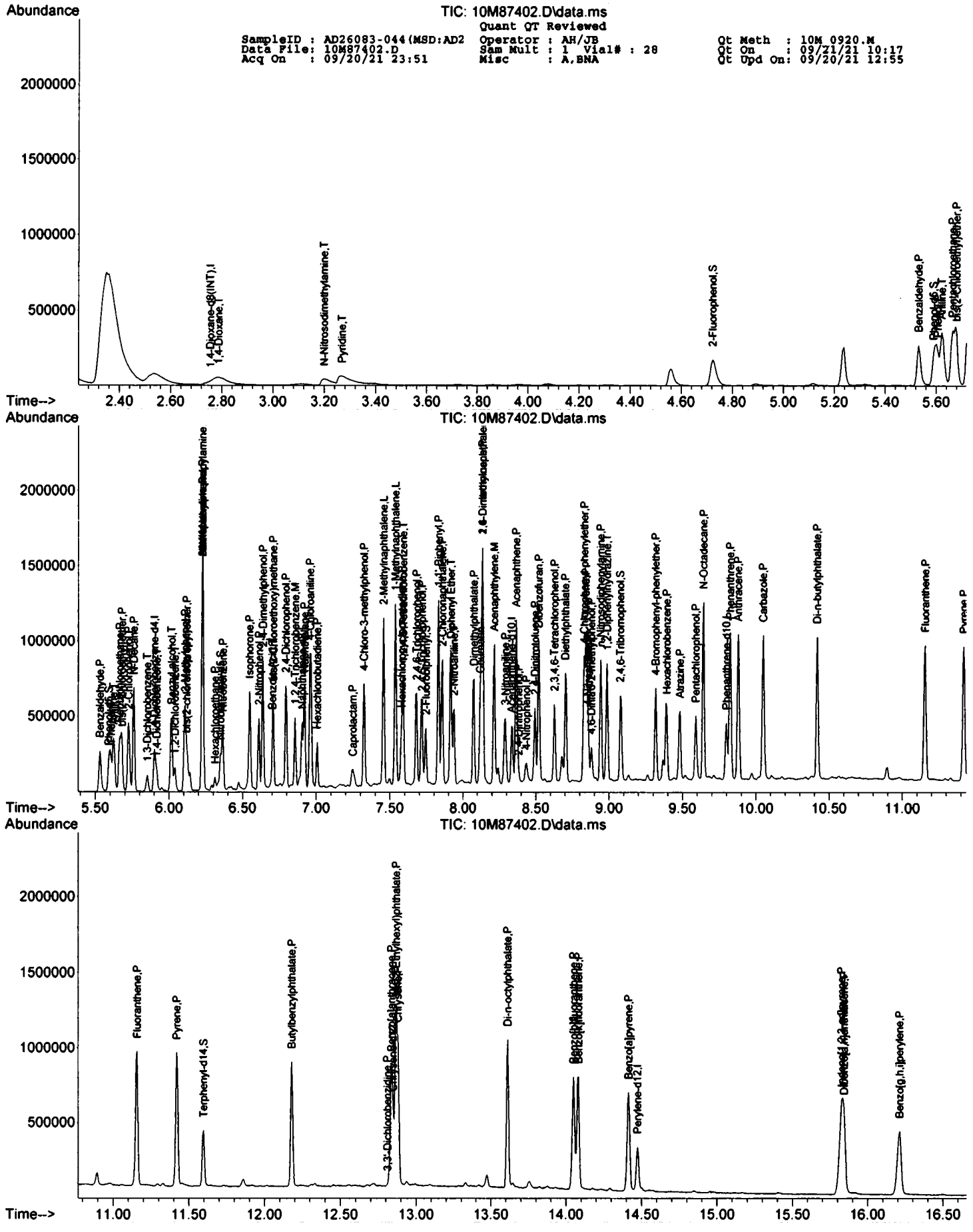
Quantitation Report (QT Reviewed)

SampleID : AD26083-044(MSD:AD2 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87402.D Sam Mult : 1 Vial# : 28 Qt On : 09/21/21 10:17
Acq On : 09/20/21 23:51 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | Dibenzofuran | 8.521 | 168 | 379893 | 114.5120 | ng | 86 |
| 69) | 2,4-Dinitrotoluene | 8.495 | 165 | 86058 | 108.0516 | ng | 60 |
| 70) | 4-Nitrophenol | 8.436 | 65 | 24236 | 55.8687 | ng | 88 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.628 | 232 | 56649 | 108.3421 | ng | 89 |
| 72) | Fluorene | 8.842 | 166 | 284122 | 108.6492 | ng | 97 |
| 73) | 4-Chlorophenyl-phenyle... | 8.832 | 204 | 126307 | 112.1692 | ng | 86 |
| 74) | Diethylphthalate | 8.703 | 149 | 278309 | 113.0668 | ng | 97 |
| 75) | 4-Nitroaniline | 8.858 | 138 | 80629 | 103.7332 | ng | 66 |
| 76) | Atrazine | 9.484 | 200 | 56700 | 88.3462 | ng | 96 |
| 78) | 4,6-Dinitro-2-methylph... | 8.880 | 198 | 29293 | 72.1954 | ng | 57 |
| 79) | n-Nitrosodiphenylamine | 8.944 | 169 | 208390 | 93.9788 | ng | 97 |
| 81) | 1,2-Diphenylhydrazine | 8.987 | 77 | 298320 | 117.0329 | ng | 80 |
| 82) | 4-Bromophenyl-phenylether | 9.318 | 248 | 67006 | 115.1649 | ng | 89 |
| 83) | Hexachlorobenzene | 9.393 | 284 | 66170 | 108.2061 | ng | 69 |
| 84) | N-Octadecane | 9.645 | 57 | 222091 | 126.5053 | ng | 88 |
| 85) | Pentachlorophenol | 9.591 | 266 | 46677 | 119.5243 | ng | 96 |
| 86) | Phenanthrene | 9.827 | 178 | 406280 | 111.6203 | ng | 98 |
| 87) | Anthracene | 9.880 | 178 | 413654 | 111.7785 | ng | 99 |
| 88) | Carbazole | 10.051 | 167 | 429868 | 121.5774 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.420 | 149 | 489080 | 114.9320 | ng | 97 |
| 90) | Fluoranthene | 11.158 | 202 | 410713 | 114.8603 | ng | 94 |
| 92) | Pyrene | 11.420 | 202 | 401123 | 110.8625 | ng | 93 |
| 97) | Butylbenzylphthalate | 12.180 | 149 | 211461 | 117.8818 | ng | 73 |
| 99) | 3,3'-Dichlorobenzidine | 12.811 | 252 | 3438 | 2.9362 | ng | 92 |
| 100) | Benzo[a]anthracene | 12.838 | 228 | 310463 | 102.6532 | ng | 99 |
| 101) | Chrysene | 12.881 | 228 | 342283 | 112.9420 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.870 | 149 | 292971 | 124.1510 | ng | 90 |
| 104) | Di-n-octylphthalate | 13.613 | 149 | 506294 | 123.5363 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.052 | 252 | 341154 | 123.2372 | ng | 96 |
| 106) | Benzo[k]fluoranthene | 14.084 | 252 | 305891 | 112.1671 | ng | 95 |
| 107) | Benzo[a]pyrene | 14.416 | 252 | 292972 | 114.8853 | ng | 96 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.828 | 276 | 333942 | 117.7173 | ng | 97 |
| 109) | Dibenzo[a,h]anthracene | 15.844 | 278 | 280652 | 115.4169 | ng | 95 |
| 110) | Benzo[g,h,i]perylene | 16.213 | 276 | 274598 | 114.3478 | ng | 89 |

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


Abundance
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Quant QT Reviewed
SampleID : AD26083-044(MSD:AD2
Data File: 10M87402.D
Acq On : 09/20/21 23:51
Operator : AH/JB
Sam Mult : 1 Vial# : 28
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:17
Qt Upd On: 09/20/21 12:55
2000000
1500000
1000000
500000
Time-->
2.40 2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Abundance
TIC: 10M87402.D\data.ms
2000000
1500000
1000000
500000
Time-->
5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
1-Methylnaphthalene,L
Acenaphthylene,M
Acenaphthene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
2,4,6-Tribromophenol,S
Abundance
TIC: 10M87402.D\data.ms
2000000
1500000
1000000
500000
Time-->
11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
3,3'-Dichlorobenzidine,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94960

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87399.D | AD26083-049(MS:AD26083-048 | 9/20/2021 10:45:00 PM |
| Non Spike(If applicable): | 10M87398.D | AD26083-048 | 9/20/2021 10:23:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **1,4-Dioxane** | 1 | 39.3052 | 0 | 100 | 39 | 20 | 160 |
| Pyridine | 1 | 48.1104 | 0 | 100 | 48 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 42.5517 | 0 | 100 | 43* | 50 | 150 |
| **Benzaldehyde** | 1 | 32.0944 | 0 | 100 | 32 | 20 | 220 |
| Aniline | 1 | 67.481 | 0 | 100 | 67 | 20 | 150 |
| Pentachloroethane | 1 | 45.3628 | 0 | 100 | 45* | 50 | 130 |
| **bis(2-Chloroethyl)ether** | 1 | 51.1899 | 0 | 100 | 51 | 50 | 130 |
| **Phenol** | 1 | 30.3475 | 0 | 100 | 30 | 20 | 150 |
| **2-Chlorophenol** | 1 | 50.427 | 0 | 100 | 50* | 70 | 130 |
| N-Decane | 1 | 44.8895 | 0 | 100 | 45 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 45.1801 | 0 | 100 | 45* | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 48.3422 | 0 | 100 | 48* | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 47.3923 | 0 | 100 | 47* | 50 | 130 |
| Benzyl alcohol | 1 | 60.4569 | 0 | 100 | 60* | 70 | 130 |
| **bis(2-chloroisopropyl)ether** | 1 | 45.2242 | 0 | 100 | 45 | 40 | 130 |
| **2-Methylphenol** | 1 | 48.1925 | 0 | 100 | 48* | 60 | 130 |
| **Acetophenone** | 1 | 58.9389 | 0 | 100 | 59 | 50 | 130 |
| **Hexachloroethane** | 1 | 47.2661 | 0 | 100 | 47* | 50 | 130 |
| **N-Nitroso-di-n-propylamine** | 1 | 55.015 | 0 | 100 | 55 | 50 | 130 |
| **3&4-Methylphenol** | 1 | 49.3217 | 0 | 100 | 49* | 50 | 130 |
| **Nitrobenzene** | 1 | 55.4605 | 0 | 100 | 55* | 70 | 130 |
| **Isophorone** | 1 | 52.8885 | 0 | 100 | 53* | 70 | 130 |
| **2-Nitrophenol** | 1 | 55.9432 | 0 | 100 | 56* | 70 | 130 |
| **2,4-Dimethylphenol** | 1 | 58.8255 | 0 | 100 | 59 | 40 | 130 |
| Benzoic Acid | 1 | 0 | 0 | 100 | 0* | 20 | 130 |
| **bis(2-Chloroethoxy)methane** | 1 | 55.7085 | 0 | 100 | 56* | 70 | 130 |
| **2,4-Dichlorophenol** | 1 | 57.5514 | 0 | 100 | 58* | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 51.325 | 0 | 100 | 51 | 50 | 130 |
| **Naphthalene** | 1 | 48.7658 | 0 | 100 | 49* | 70 | 130 |
| **4-Chloroaniline** | 1 | 80.8056 | 0 | 100 | 81 | 50 | 150 |
| **Hexachlorobutadiene** | 1 | 49.2396 | 0 | 100 | 49* | 70 | 130 |
| **Caprolactam** | 1 | 33.4894 | 0 | 100 | 33 | 20 | 130 |
| **4-Chloro-3-methylphenol** | 1 | 60.8616 | 0 | 100 | 61* | 70 | 130 |
| **2-Methylnaphthalene** | 1 | 54.9868 | 0 | 100 | 55* | 70 | 130 |
| 1-Methylnaphthalene | 1 | 61.7733 | 0 | 100 | 62* | 70 | 130 |
| **1,1'-Biphenyl** | 1 | 59.1621 | 0 | 100 | 59* | 70 | 130 |
| **1,2,4,5-Tetrachlorobenzene** | 1 | 56.875 | 0 | 100 | 57* | 70 | 130 |
| **Hexachlorocyclopentadiene** | 1 | 47.3779 | 0 | 100 | 47 | 20 | 130 |
| **2,4,6-Trichlorophenol** | 1 | 64.2983 | 0 | 100 | 64* | 70 | 130 |
| **2,4,5-Trichlorophenol** | 1 | 64.6421 | 0 | 100 | 65* | 70 | 130 |
| **2-Chloronaphthalene** | 1 | 55.4463 | 0 | 100 | 55* | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 59.3297 | 0 | 100 | 59* | 70 | 130 |
| Diphenyl Ether | 1 | 58.4491 | 0 | 100 | 58* | 70 | 130 |
| **2-Nitroaniline** | 1 | 68.0774 | 0 | 100 | 68 | 50 | 150 |
| Coumarin | 1 | 67.4617 | 0 | 100 | 67* | 70 | 130 |
| **Acenaphthylene** | 1 | 57.6108 | 0 | 100 | 58* | 70 | 130 |
| **Dimethylphthalate** | 1 | 58.7189 | 0 | 100 | 59* | 70 | 130 |
| **2,6-Dinitrotoluene** | 1 | 59.9903 | 0 | 100 | 60* | 70 | 130 |
| **Acenaphthene** | 1 | 55.7222 | 0 | 100 | 56* | 70 | 130 |
| **3-Nitroaniline** | 1 | 82.3084 | 0 | 100 | 82 | 50 | 150 |
| **2,4-Dinitrophenol** | 1 | 10.825 | 0 | 100 | 11* | 20 | 150 |
| **Dibenzofuran** | 1 | 59.4109 | 0 | 100 | 59* | 70 | 130 |
| **2,4-Dinitrotoluene** | 1 | 56.258 | 0 | 100 | 56 | 40 | 130 |
| **4-Nitrophenol** | 1 | 29.1554 | 0 | 100 | 29 | 20 | 150 |
| **2,3,4,6-Tetrachlorophenol** | 1 | 57.5579 | 0 | 100 | 58* | 70 | 130 |
| **Fluorene** | 1 | 56.5904 | 0 | 100 | 57* | 70 | 130 |
| **4-Chlorophenyl-phenylether** | 1 | 57.3141 | 0 | 100 | 57* | 70 | 130 |
| **Diethylphthalate** | 1 | 58.3407 | 0 | 100 | 58 | 50 | 130 |
| **4-Nitroaniline** | 1 | 74.2976 | 0 | 100 | 74 | 50 | 150 |
| **Atrazine** | 1 | 35.1254 | 0 | 100 | 35* | 50 | 130 |
| **4,6-Dinitro-2-methylphenol** | 1 | 26.161 | 0 | 100 | 26* | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
QC Batch: WMB94960

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **n-Nitrosodiphenylamine** | **1** | **49.7037** | **0** | **100** | **50** | **50** | **130** |
| 1,2-Diphenylhydrazine | 1 | 58.177 | 0 | 100 | 58* | 70 | 130 |
| **4-Bromophenyl-phenylether** | **1** | **59.0652** | **0** | **100** | **59*** | **70** | **130** |
| **Hexachlorobenzene** | **1** | **57.1898** | **0** | **100** | **57*** | **70** | **130** |
| N-Octadecane | 1 | 67.9052 | 0 | 100 | 68* | 70 | 130 |
| **Pentachlorophenol** | **1** | **62.9987** | **0** | **100** | **63** | **40** | **130** |
| **Phenanthrene** | **1** | **59.9697** | **0** | **100** | **60*** | **70** | **130** |
| **Anthracene** | **1** | **59.2901** | **0** | **100** | **59*** | **70** | **130** |
| **Carbazole** | **1** | **65.5338** | **0** | **100** | **66*** | **70** | **130** |
| **Di-n-butylphthalate** | **1** | **61.115** | **0** | **100** | **61*** | **70** | **130** |
| **Fluoranthene** | **1** | **61.0326** | **0** | **100** | **61*** | **70** | **130** |
| **Pyrene** | **1** | **58.8218** | **0** | **100** | **59*** | **70** | **130** |
| Benzidine | 1 | 11.8178 | 0 | 100 | 12 | 0 | 134 |
| **Butylbenzylphthalate** | **1** | **63.4194** | **0** | **100** | **63** | **50** | **130** |
| **3,3'-Dichlorobenzidine** | **1** | **50.9457** | **0** | **100** | **51** | **1** | **150** |
| **Benzo[a]anthracene** | **1** | **56.378** | **0** | **100** | **56*** | **70** | **130** |
| **Chrysene** | **1** | **61.1515** | **0** | **100** | **61** | **50** | **130** |
| **bis(2-Ethylhexyl)phthalate** | **1** | **65.7826** | **0** | **100** | **66*** | **70** | **130** |
| **Di-n-octylphthalate** | **1** | **64.9254** | **0** | **100** | **65*** | **70** | **130** |
| **Benzo[b]fluoranthene** | **1** | **66.0933** | **0** | **100** | **66*** | **70** | **130** |
| **Benzo[k]fluoranthene** | **1** | **64.6948** | **0** | **100** | **65*** | **70** | **130** |
| **Benzo[a]pyrene** | **1** | **61.7478** | **0** | **100** | **62*** | **70** | **130** |
| **Indeno[1,2,3-cd]pyrene** | **1** | **62.2055** | **0** | **100** | **62*** | **70** | **130** |
| **Dibenzo[a,h]anthracene** | **1** | **61.3203** | **0** | **100** | **61*** | **70** | **130** |
| **Benzo[g,h,i]perylene** | **1** | **60.3871** | **0** | **100** | **60*** | **70** | **130** |

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Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94960

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87400.D | AD26083-050(MSD:AD26083-0 | 9/20/2021 11:07:00 PM |
| Non Spike(If applicable): | 10M87398.D | AD26083-048 | 9/20/2021 10:23:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 58.6097 | 0 | 100 | 59 | 20 | 160 |
| Pyridine | 1 | 66.8678 | 0 | 100 | 67 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 57.6528 | 0 | 100 | 58 | 50 | 150 |
| Benzaldehyde | 1 | 50.5797 | 0 | 100 | 51 | 20 | 220 |
| Aniline | 1 | 86.7053 | 0 | 100 | 87 | 20 | 150 |
| Pentachloroethane | 1 | 80.5717 | 0 | 100 | 81 | 50 | 130 |
| bis(2-Chloroethyl)ether | 1 | 80.2026 | 0 | 100 | 80 | 50 | 130 |
| Phenol | 1 | 43.6009 | 0 | 100 | 44 | 20 | 150 |
| 2-Chlorophenol | 1 | 77.6034 | 0 | 100 | 78 | 70 | 130 |
| N-Decane | 1 | 80.8447 | 0 | 100 | 81 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 75.612 | 0 | 100 | 76 | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 81.1136 | 0 | 100 | 81 | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 78.997 | 0 | 100 | 79 | 50 | 130 |
| Benzyl alcohol | 1 | 87.0271 | 0 | 100 | 87 | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 73.4639 | 0 | 100 | 73 | 40 | 130 |
| 2-Methylphenol | 1 | 72.2694 | 0 | 100 | 72 | 60 | 130 |
| Acetophenone | 1 | 92.9103 | 0 | 100 | 93 | 50 | 130 |
| Hexachloroethane | 1 | 79.184 | 0 | 100 | 79 | 50 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 85.7693 | 0 | 100 | 86 | 50 | 130 |
| 3&4-Methylphenol | 1 | 70.748 | 0 | 100 | 71 | 50 | 130 |
| Nitrobenzene | 1 | 86.6091 | 0 | 100 | 87 | 70 | 130 |
| Isophorone | 1 | 83.6333 | 0 | 100 | 84 | 70 | 130 |
| 2-Nitrophenol | 1 | 90.351 | 0 | 100 | 90 | 70 | 130 |
| 2,4-Dimethylphenol | 1 | 89.5837 | 0 | 100 | 90 | 40 | 130 |
| Benzoic Acid | 1 | 49.5742 | 0 | 100 | 50 | 20 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 87.9898 | 0 | 100 | 88 | 70 | 130 |
| 2,4-Dichlorophenol | 1 | 86.7391 | 0 | 100 | 87 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 84.2899 | 0 | 100 | 84 | 50 | 130 |
| Naphthalene | 1 | 83.9696 | 0 | 100 | 84 | 70 | 130 |
| 4-Chloroaniline | 1 | 101.5341 | 0 | 100 | 102 | 50 | 150 |
| Hexachlorobutadiene | 1 | 82.5706 | 0 | 100 | 83 | 70 | 130 |
| Caprolactam | 1 | 43.1791 | 0 | 100 | 43 | 20 | 130 |
| 4-Chloro-3-methylphenol | 1 | 90.8752 | 0 | 100 | 91 | 70 | 130 |
| 2-Methylnaphthalene | 1 | 91.8959 | 0 | 100 | 92 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 102.9591 | 0 | 100 | 103 | 70 | 130 |
| 1,1'-Biphenyl | 1 | 96.4092 | 0 | 100 | 96 | 70 | 130 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 94.6103 | 0 | 100 | 95 | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 84.0021 | 0 | 100 | 84 | 20 | 130 |
| 2,4,6-Trichlorophenol | 1 | 100.3236 | 0 | 100 | 100 | 70 | 130 |
| 2,4,5-Trichlorophenol | 1 | 100.4897 | 0 | 100 | 100 | 70 | 130 |
| 2-Chloronaphthalene | 1 | 89.1793 | 0 | 100 | 89 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 95.8132 | 0 | 100 | 96 | 70 | 130 |
| Diphenyl Ether | 1 | 97.838 | 0 | 100 | 98 | 70 | 130 |
| 2-Nitroaniline | 1 | 107.4304 | 0 | 100 | 107 | 50 | 150 |
| Coumarin | 1 | 104.566 | 0 | 100 | 105 | 70 | 130 |
| Acenaphthylene | 1 | 91.5266 | 0 | 100 | 92 | 70 | 130 |
| Dimethylphthalate | 1 | 92.4242 | 0 | 100 | 92 | 70 | 130 |
| 2,6-Dinitrotoluene | 1 | 92.6636 | 0 | 100 | 93 | 70 | 130 |
| Acenaphthene | 1 | 89.771 | 0 | 100 | 90 | 70 | 130 |
| 3-Nitroaniline | 1 | 105.7451 | 0 | 100 | 106 | 50 | 150 |
| 2,4-Dinitrophenol | 1 | 50.8869 | 0 | 100 | 51 | 20 | 150 |
| Dibenzofuran | 1 | 96.9594 | 0 | 100 | 97 | 70 | 130 |
| 2,4-Dinitrotoluene | 1 | 89.3293 | 0 | 100 | 89 | 40 | 130 |
| 4-Nitrophenol | 1 | 44.8987 | 0 | 100 | 45 | 20 | 150 |
| 2,3,4,6-Tetrachlorophenol | 1 | 90.9011 | 0 | 100 | 91 | 70 | 130 |
| Fluorene | 1 | 90.1351 | 0 | 100 | 90 | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 94.4966 | 0 | 100 | 94 | 70 | 130 |
| Diethylphthalate | 1 | 91.8045 | 0 | 100 | 92 | 50 | 130 |
| 4-Nitroaniline | 1 | 100.4627 | 0 | 100 | 100 | 50 | 150 |
| Atrazine | 1 | 75.7897 | 0 | 100 | 76 | 50 | 130 |
| 4,6-Dinitro-2-methylphenol | 1 | 67.71 | 0 | 100 | 68 | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94960

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **n-Nitrosodiphenylamine** | **1** | **78.5731** | **0** | **100** | **79** | **50** | **130** |
| 1,2-Diphenylhydrazine | 1 | 98.5227 | 0 | 100 | 99 | 70 | 130 |
| **4-Bromophenyl-phenylether** | **1** | **94.764** | **0** | **100** | **95** | **70** | **130** |
| **Hexachlorobenzene** | **1** | **90.9991** | **0** | **100** | **91** | **70** | **130** |
| N-Octadecane | 1 | 107.3653 | 0 | 100 | 107 | 70 | 130 |
| **Pentachlorophenol** | **1** | **107.3475** | **0** | **100** | **107** | **40** | **130** |
| **Phenanthrene** | **1** | **93.6706** | **0** | **100** | **94** | **70** | **130** |
| **Anthracene** | **1** | **94.0542** | **0** | **100** | **94** | **70** | **130** |
| **Carbazole** | **1** | **104.8309** | **0** | **100** | **105** | **70** | **130** |
| **Di-n-butylphthalate** | **1** | **95.0596** | **0** | **100** | **95** | **70** | **130** |
| **Fluoranthene** | **1** | **95.9378** | **0** | **100** | **96** | **70** | **130** |
| **Pyrene** | **1** | **94.1011** | **0** | **100** | **94** | **70** | **130** |
| Benzidine | 1 | 8.6682 | 0 | 100 | 8.7 | 0 | 134 |
| **Butylbenzylphthalate** | **1** | **98.6574** | **0** | **100** | **99** | **50** | **130** |
| **3,3'-Dichlorobenzidine** | **1** | **71.9908** | **0** | **100** | **72** | **1** | **150** |
| **Benzo[a]anthracene** | **1** | **87.0438** | **0** | **100** | **87** | **70** | **130** |
| **Chrysene** | **1** | **94.8746** | **0** | **100** | **95** | **50** | **130** |
| **bis(2-Ethylhexyl)phthalate** | **1** | **104.5188** | **0** | **100** | **105** | **70** | **130** |
| **Di-n-octylphthalate** | **1** | **101.0265** | **0** | **100** | **101** | **70** | **130** |
| **Benzo[b]fluoranthene** | **1** | **100.7009** | **0** | **100** | **101** | **70** | **130** |
| **Benzo[k]fluoranthene** | **1** | **96.9528** | **0** | **100** | **97** | **70** | **130** |
| **Benzo[a]pyrene** | **1** | **96.9516** | **0** | **100** | **97** | **70** | **130** |
| **Indeno[1,2,3-cd]pyrene** | **1** | **96.8587** | **0** | **100** | **97** | **70** | **130** |
| **Dibenzo[a,h]anthracene** | **1** | **97.397** | **0** | **100** | **97** | **70** | **130** |
| **Benzo[g,h,i]perylene** | **1** | **94.3631** | **0** | **100** | **94** | **70** | **130** |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: WMB94960

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 10M87400.D | AD26083-050(MSD:AD26083-0 | 9/20/2021 11:07:00 PM |
| Duplicate(If applicable): | 10M87399.D | AD26083-049(MS:AD26083-048 | 9/20/2021 10:45:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| **1,4-Dioxane** | 1 | 58.6097 | 39.3052 | 39* | 20 |
| Pyridine | 1 | 66.8678 | 48.1104 | 33 | 40 |
| N-Nitrosodimethylamine | 1 | 57.6528 | 42.5517 | 30* | 20 |
| **Benzaldehyde** | 1 | 50.5797 | 32.0944 | 45* | 20 |
| Aniline | 1 | 86.7053 | 67.481 | 25* | 20 |
| Pentachloroethane | 1 | 80.5717 | 45.3628 | 56* | 20 |
| **bis(2-Chloroethyl)ether** | 1 | 80.2026 | 51.1899 | 44* | 20 |
| **Phenol** | 1 | 43.6009 | 30.3475 | 36 | 40 |
| **2-Chlorophenol** | 1 | 77.6034 | 50.427 | 42* | 40 |
| N-Decane | 1 | 80.8447 | 44.8895 | 57* | 20 |
| 1,3-Dichlorobenzene | 1 | 75.612 | 45.1801 | 50* | 20 |
| 1,4-Dichlorobenzene | 1 | 81.1136 | 48.3422 | 51* | 40 |
| 1,2-Dichlorobenzene | 1 | 78.997 | 47.3923 | 50* | 20 |
| Benzyl alcohol | 1 | 87.0271 | 60.4569 | 36* | 20 |
| **bis(2-chloroisopropyl)ether** | 1 | 73.4639 | 45.2242 | 48* | 20 |
| **2-Methylphenol** | 1 | 72.2694 | 48.1925 | 40 | 40 |
| **Acetophenone** | 1 | 92.9103 | 58.9389 | 45* | 20 |
| **Hexachloroethane** | 1 | 79.184 | 47.2661 | 50* | 40 |
| **N-Nitroso-di-n-propylamine** | 1 | 85.7693 | 55.015 | 44* | 40 |
| **3&4-Methylphenol** | 1 | 70.748 | 49.3217 | 36 | 40 |
| **Nitrobenzene** | 1 | 86.6091 | 55.4605 | 44* | 40 |
| **Isophorone** | 1 | 83.6333 | 52.8885 | 45* | 20 |
| **2-Nitrophenol** | 1 | 90.351 | 55.9432 | 47* | 20 |
| **2,4-Dimethylphenol** | 1 | 89.5837 | 58.8255 | 41* | 40 |
| Benzoic Acid | 1 | 49.5742 | 0 | 200* | 20 |
| **bis(2-Chloroethoxy)methane** | 1 | 87.9898 | 55.7085 | 45* | 20 |
| **2,4-Dichlorophenol** | 1 | 86.7391 | 57.5514 | 40* | 20 |
| 1,2,4-Trichlorobenzene | 1 | 84.2899 | 51.325 | 49* | 40 |
| **Naphthalene** | 1 | 83.9696 | 48.7658 | 53* | 40 |
| **4-Chloroaniline** | 1 | 101.5341 | 80.8056 | 23* | 20 |
| **Hexachlorobutadiene** | 1 | 82.5706 | 49.2396 | 51* | 40 |
| **Caprolactam** | 1 | 43.1791 | 33.4894 | 25* | 20 |
| **4-Chloro-3-methylphenol** | 1 | 90.8752 | 60.8616 | 40 | 40 |
| **2-Methylnaphthalene** | 1 | 91.8959 | 54.9868 | 50* | 20 |
| 1-Methylnaphthalene | 1 | 102.9591 | 61.7733 | 50* | 20 |
| **1,1'-Biphenyl** | 1 | 96.4092 | 59.1621 | 48* | 20 |
| **1,2,4,5-Tetrachlorobenzene** | 1 | 94.6103 | 56.875 | 50* | 20 |
| **Hexachlorocyclopentadiene** | 1 | 84.0021 | 47.3779 | 56* | 20 |
| **2,4,6-Trichlorophenol** | 1 | 100.3236 | 64.2983 | 44* | 40 |
| **2,4,5-Trichlorophenol** | 1 | 100.4897 | 64.6421 | 43* | 40 |
| **2-Chloronaphthalene** | 1 | 89.1793 | 55.4463 | 47* | 20 |
| 1,4-Dimethylnaphthalene | 1 | 95.8132 | 59.3297 | 47* | 20 |
| Diphenyl Ether | 1 | 97.838 | 58.4491 | 50* | 20 |
| **2-Nitroaniline** | 1 | 107.4304 | 68.0774 | 45* | 20 |
| Coumarin | 1 | 104.566 | 67.4617 | 43* | 20 |
| **Acenaphthylene** | 1 | 91.5266 | 57.6108 | 45* | 20 |
| **Dimethylphthalate** | 1 | 92.4242 | 58.7189 | 45* | 20 |
| **2,6-Dinitrotoluene** | 1 | 92.6636 | 59.9903 | 43* | 20 |
| **Acenaphthene** | 1 | 89.771 | 55.7222 | 47* | 40 |
| **3-Nitroaniline** | 1 | 105.7451 | 82.3084 | 25* | 20 |
| **2,4-Dinitrophenol** | 1 | 50.8869 | 10.825 | 130* | 20 |
| **Dibenzofuran** | 1 | 96.9594 | 59.4109 | 48* | 20 |
| **2,4-Dinitrotoluene** | 1 | 89.3293 | 56.258 | 45* | 40 |
| **4-Nitrophenol** | 1 | 44.8987 | 29.1554 | 43* | 40 |
| **2,3,4,6-Tetrachlorophenol** | 1 | 90.9011 | 57.5579 | 45* | 20 |
| **Fluorene** | 1 | 90.1351 | 56.5904 | 46* | 40 |
| **4-Chlorophenyl-phenylether** | 1 | 94.4966 | 57.3141 | 49* | 20 |
| **Diethylphthalate** | 1 | 91.8045 | 58.3407 | 45* | 20 |
| **4-Nitroaniline** | 1 | 100.4627 | 74.2976 | 30* | 20 |
| **Atrazine** | 1 | 75.7897 | 35.1254 | 73* | 20 |
| **4,6-Dinitro-2-methylphenol** | 1 | 67.71 | 26.161 | 89* | 20 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: WMB94960

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | 1 | 78.5731 | 49.7037 | 45* | 20 |
| 1,2-Diphenylhydrazine | 1 | 98.5227 | 58.177 | 51* | 20 |
| 4-Bromophenyl-phenylether | 1 | 94.764 | 59.0652 | 46* | 20 |
| Hexachlorobenzene | 1 | 90.9991 | 57.1898 | 46* | 40 |
| N-Octadecane | 1 | 107.3653 | 67.9052 | 45* | 20 |
| Pentachlorophenol | 1 | 107.3475 | 62.9987 | 52* | 40 |
| Phenanthrene | 1 | 93.6706 | 59.9697 | 44* | 20 |
| Anthracene | 1 | 94.0542 | 59.2901 | 45* | 20 |
| Carbazole | 1 | 104.8309 | 65.5338 | 46* | 20 |
| Di-n-butylphthalate | 1 | 95.0596 | 61.115 | 43* | 20 |
| Fluoranthene | 1 | 95.9378 | 61.0326 | 44* | 20 |
| Pyrene | 1 | 94.1011 | 58.8218 | 46* | 40 |
| Benzidine | 1 | 8.6682 | 11.8178 | 31* | 20 |
| Butylbenzylphthalate | 1 | 98.6574 | 63.4194 | 43* | 40 |
| 3,3'-Dichlorobenzidine | 1 | 71.9908 | 50.9457 | 34* | 20 |
| Benzo[a]anthracene | 1 | 87.0438 | 56.378 | 43* | 20 |
| Chrysene | 1 | 94.8746 | 61.1515 | 43* | 20 |
| bis(2-Ethylhexyl)phthalate | 1 | 104.5188 | 65.7826 | 45* | 20 |
| Di-n-octylphthalate | 1 | 101.0265 | 64.9254 | 44* | 20 |
| Benzo[b]fluoranthene | 1 | 100.7009 | 66.0933 | 41* | 20 |
| Benzo[k]fluoranthene | 1 | 96.9528 | 64.6948 | 40* | 20 |
| Benzo[a]pyrene | 1 | 96.9516 | 61.7478 | 44* | 20 |
| Indeno[1,2,3-cd]pyrene | 1 | 96.8587 | 62.2055 | 44* | 20 |
| Dibenzo[a,h]anthracene | 1 | 97.397 | 61.3203 | 45* | 20 |
| Benzo[g,h,i]perylene | 1 | 94.3631 | 60.3871 | 44* | 20 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

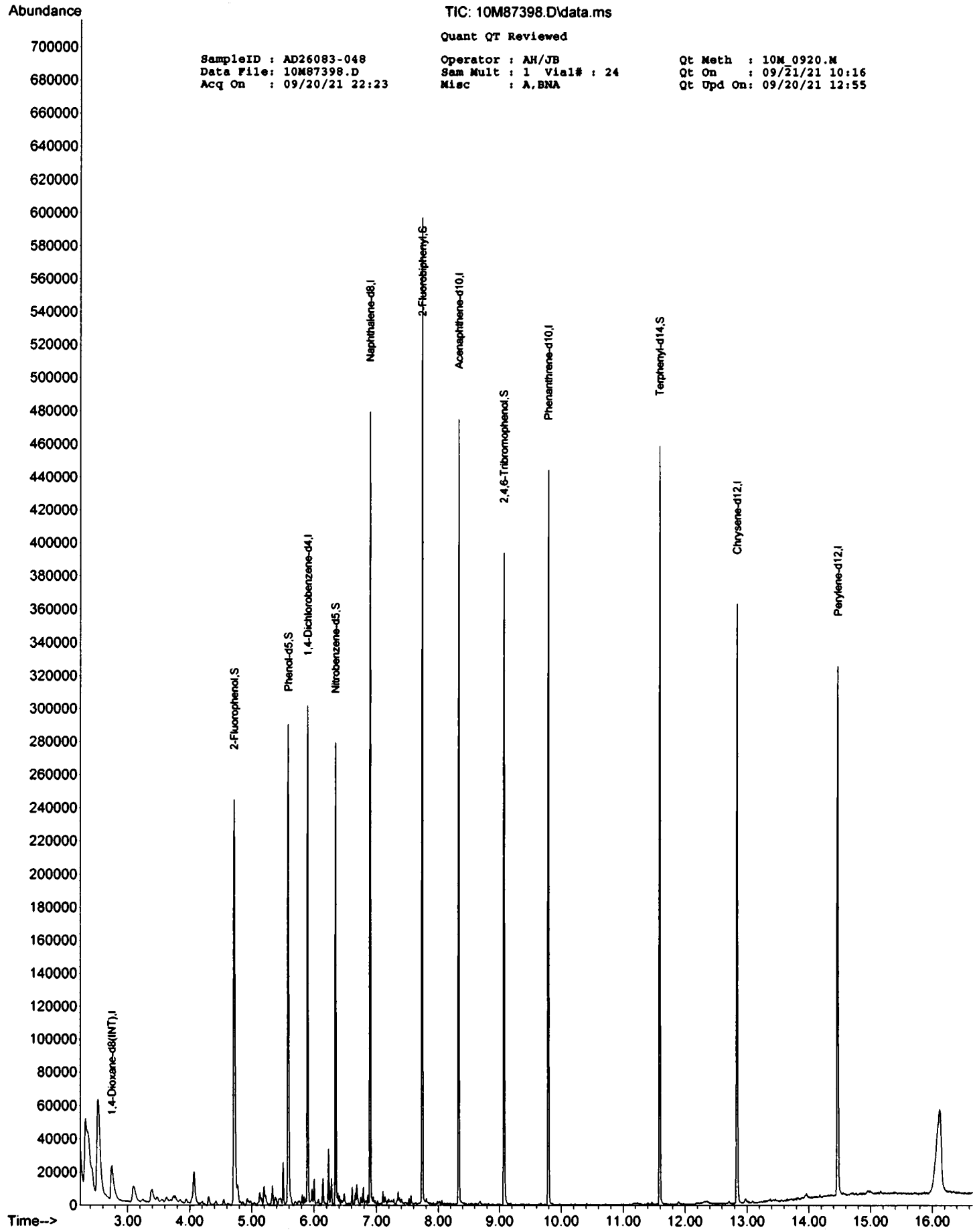
Quantitation Report (QT Reviewed)

SampleID : AD26083-048 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87398.D Sam Mult : 1 Vial# : 24 Qt On : 09/21/21 10:16
Acq On : 09/20/21 22:23 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.750 | 96 | 26297 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 50912 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.901 | 136 | 204089 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 97295 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.794 | 188 | 172940 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.843 | 240 | 127101 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 129936 | 40.00 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 117683 | 82.00 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 82.00% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 113588 | 65.08 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 65.08% | | | |
| 32) Nitrobenzene-d5 | 6.345 | 128 | 39792 | 56.66 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 113.32% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 182674 | 59.26 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 118.52% | | | |
| 80) 2,4,6-Tribromophenol | 9.072 | 330 | 39997 | 116.10 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 116.10% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 136510 | 68.94 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 137.88% | | | |
| Target Compounds | | | | | | Qvalue |

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


Abundance
TIC: 10M87398.D\data.ms
Quant QT Reviewed
SampleID : AD26083-048
Data File: 10M87398.D
Acq On : 09/20/21 22:23
Operator : AH/JB
Sam Mult : 1 Vial# : 24
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT).I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

SampleID : AD26083-049(MS:AD26 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87399.D Sam Mult : 1 Vial# : 25 Qt On : 09/21/21 10:16
Acq On : 09/20/21 22:45 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.750 | 96 | 27441 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 52864 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 213674 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 101920 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.795 | 188 | 177516 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.849 | 240 | 131917 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.469 | 264 | 136453 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 49548 | 33.09 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 33.09% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 49274 | 27.05 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 27.05% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 22642 | 30.79 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 61.58% | | | |
| 55) 2-Fluorobiphenyl | 7.741 | 172 | 96992 | 30.04 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 60.08% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 21020 | 63.13 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 63.13% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 69972 | 34.05 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 68.10% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.788 | 88 | 25202 | 39.3052 | ng | 69 |
| 9) Pyridine | 3.264 | 79 | 58924 | 48.1104 | ng | 80 |
| 10) N-Nitrosodimethylamine | 3.194 | 74 | 40512 | 42.5517 | ng | 80 |
| 12) Benzaldehyde | 5.532 | 77 | 42499 | 32.0944 | ng | 70 |
| 13) Aniline | 5.623 | 93 | 159783 | 67.4810 | ng | 49 |
| 14) Pentachloroethane | 5.665 | 117 | 25059 | 45.3628 | ng | 83 |
| 15) bis(2-Chloroethyl)ether | 5.676 | 93 | 84221 | 51.1899 | ng | 84 |
| 17) Phenol | 5.601 | 94 | 65926 | 30.3475 | ng | 82 |
| 18) 2-Chlorophenol | 5.724 | 128 | 85110 | 50.4270 | ng | 80 |
| 19) N-Decane | 5.762 | 57 | 86608 | 44.8895 | ng | 90 |
| 20) 1,3-Dichlorobenzene | 5.853 | 146 | 85426 | 45.1801 | ng | 96 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 90271 | 48.3422 | ng | 98 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 84119 | 47.3923 | ng | 97 |
| 24) Benzyl alcohol | 6.013 | 108 | 62695 | 60.4569 | ng | 68 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 117688 | 45.2242 | ng | 93 |
| 26) 2-Methylphenol | 6.104 | 108 | 72462 | 48.1925 | ng | 96 |
| 27) Acetophenone | 6.227 | 105 | 123401 | 58.9389 | ng | 71 |
| 28) Hexachloroethane | 6.313 | 117 | 31750 | 47.2661 | ng | 84 |
| 29) N-Nitroso-di-n-propyla... | 6.222 | 70 | 56783 | 55.0150 | ng | 83 |
| 30) 3&4-Methylphenol | 6.222 | 108 | 72336 | 49.3217 | ng | 92 |
| 33) Nitrobenzene | 6.361 | 77 | 85216 | 55.4605 | ng | 79 |
| 34) Isophorone | 6.548 | 82 | 150417 | 52.8885 | ng | 81 |
| 35) 2-Nitrophenol | 6.612 | 139 | 48070 | 55.9432 | ng | 79 |
| 36) 2,4-Dimethylphenol | 6.633 | 107 | 84186 | 58.8255 | ng | 90 |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 100397 | 55.7085 | ng | 97 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 74132 | 57.5514 | ng | 86 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 68779 | 51.3250 | ng | 97 |
| 41) Naphthalene | 6.922 | 128 | 242876 | 48.7658 | ng | 99 |
| 42) 4-Chloroaniline | 6.954 | 127 | 150185m | 80.8056 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 31249 | 49.2396 | ng | 96 |
| 44) Caprolactam | 7.222 | 113 | 16031 | 33.4894 | ng | 68 |
| 45) 4-Chloro-3-methylphenol | 7.318 | 107 | 78886 | 60.8616 | ng | 78 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 181648 | 54.9868 | ng | 99 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 193580 | 61.7733 | ng | 96 |
| 49) 1,1 -Biphenyl | 7.832 | 154 | 220528 | 59.1621 | ng | 93 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 66724 | 56.8750 | ng | 98 |
| 52) Hexachlorocyclopentadiene | 7.575 | 237 | 23554 | 47.3779 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.676 | 196 | 50755 | 64.2983 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.709 | 196 | 54892 | 64.6421 | ng | 95 |
| 56) 2-Chloronaphthalene | 7.853 | 162 | 155963 | 55.4463 | ng | 92 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 131217 | 59.3297 | ng | 86 |
| 59) Diphenyl Ether | 7.912 | 170 | 116404 | 58.4491 | ng | 79 |
| 60) 2-Nitroaniline | 7.933 | 65 | 62249 | 68.0774 | ng | 43 |
| 61) Coumarin | 8.120 | 146 | 73100 | 67.4617 | ng | 88 |
| 62) Acenaphthylene | 8.211 | 152 | 248953 | 57.6108 | ng | 99 |
| 63) Dimethylphthalate | 8.072 | 163 | 179313 | 58.7189 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.131 | 165 | 40404 | 59.9903 | ng | 64 |
| 65) Acenaphthene | 8.366 | 153 | 158299 | 55.7222 | ng | 98 |
| 66) 3-Nitroaniline | 8.286 | 138 | 69628 | 82.3084 | ng | 70 |
| 67) 2,4-Dinitrophenol | 8.377 | 184 | 3477 | 10.8250 | ng | 52 |
| 68) Dibenzofuran | 8.522 | 168 | 241744 | 59.4109 | ng | 83 |

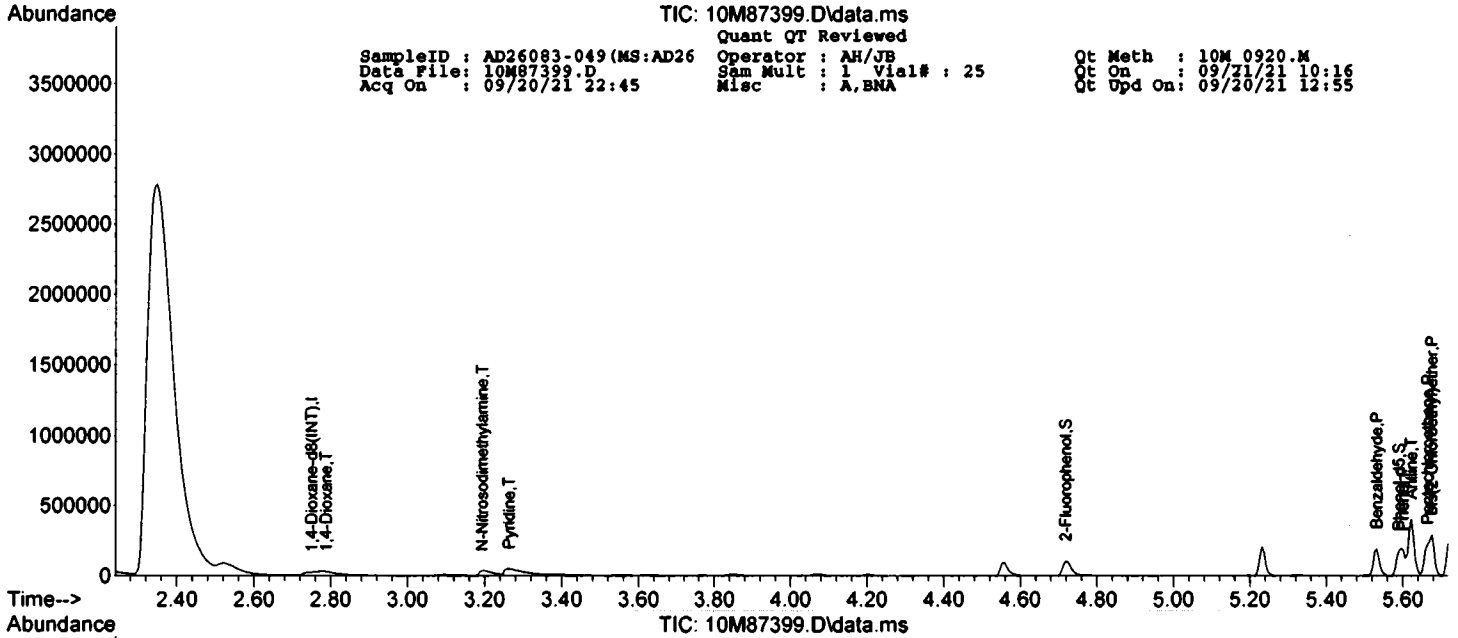
Quantitation Report (QT Reviewed)

SampleID : AD26083-049(MS:AD26 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87399.D Sam Mult : 1 Vial# : 25 Qt On : 09/21/21 10:16
Acq On : 09/20/21 22:45 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 69) | 2,4-Dinitrotoluene | 8.489 | 165 | 52933 | 56.2580 | ng | 63 |
| 70) | 4-Nitrophenol | 8.420 | 65 | 15162 | 29.1554 | ng | 95 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.629 | 232 | 36913 | 57.5579 | ng | 88 |
| 72) | Fluorene | 8.842 | 166 | 181510 | 56.5904 | ng | 98 |
| 73) | 4-Chlorophenyl-phenyle... | 8.826 | 204 | 79158 | 57.3141 | ng | 89 |
| 74) | Diethylphthalate | 8.703 | 149 | 176134 | 58.3407 | ng | 95 |
| 75) | 4-Nitroaniline | 8.853 | 138 | 69453 | 74.2976 | ng | 66 |
| 76) | Atrazine | 9.468 | 200 | 27650 | 35.1254 | ng | 95 |
| 78) | 4,6-Dinitro-2-methylph... | 8.880 | 198 | 11983 | 26.1610 | ng | 56 |
| 79) | n-Nitrosodiphenylamine | 8.939 | 169 | 134024 | 49.7037 | ng | 95 |
| 81) | 1,2-Diphenylhydrazine | 8.982 | 77 | 180332 | 58.1770 | ng | 84 |
| 82) | 4-Bromophenyl-phenylether | 9.318 | 248 | 41790 | 59.0652 | ng | 87 |
| 83) | Hexachlorobenzene | 9.388 | 284 | 42528 | 57.1898 | ng | 71 |
| 84) | N-Octadecane | 9.639 | 57 | 144968 | 67.9052 | ng | 91 |
| 85) | Pentachlorophenol | 9.586 | 266 | 27681 | 62.9987 | ng | 95 |
| 86) | Phenanthrene | 9.821 | 178 | 265437 | 59.9697 | ng | 99 |
| 87) | Anthracene | 9.880 | 178 | 266814 | 59.2901 | ng | 99 |
| 88) | Carbazole | 10.046 | 167 | 281770 | 65.5338 | ng | 97 |
| 89) | Di-n-butylphthalate | 10.415 | 149 | 312724 | 61.1150 | ng | 96 |
| 90) | Fluoranthene | 11.153 | 202 | 265386 | 61.0326 | ng | 96 |
| 92) | Pyrene | 11.415 | 202 | 259877 | 58.8218 | ng | 94 |
| 93) | Benzidine | 11.303 | 184 | 31449 | 11.8178 | ng | 86 |
| 97) | Butylbenzylphthalate | 12.175 | 149 | 133803 | 63.4194 | ng | 73 |
| 99) | 3,3'-Dichlorobenzidine | 12.800 | 252 | 73081 | 50.9457 | ng | 98 |
| 100) | Benzo[a]anthracene | 12.833 | 228 | 208201 | 56.3780 | ng | 100 |
| 101) | Chrysene | 12.875 | 228 | 226294 | 61.1515 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.865 | 149 | 189549 | 65.7826 | ng | 92 |
| 104) | Di-n-octylphthalate | 13.608 | 149 | 320987 | 64.9254 | ng | 99 |
| 105) | Benzo[b]fluoranthene | 14.047 | 252 | 224741 | 66.0933 | ng | 97 |
| 106) | Benzo[k]fluoranthene | 14.073 | 252 | 216714m | 64.6948 | ng | |
| 107) | Benzo[a]pyrene | 14.410 | 252 | 193419 | 61.7478 | ng | 94 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.817 | 276 | 216758 | 62.2055 | ng | 98 |
| 109) | Dibenzo[a,h]anthracene | 15.833 | 278 | 183155 | 61.3203 | ng | 97 |
| 110) | Benzo[g,h,i]perylene | 16.202 | 276 | 178127 | 60.3871 | ng | 87 |

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


Abundance
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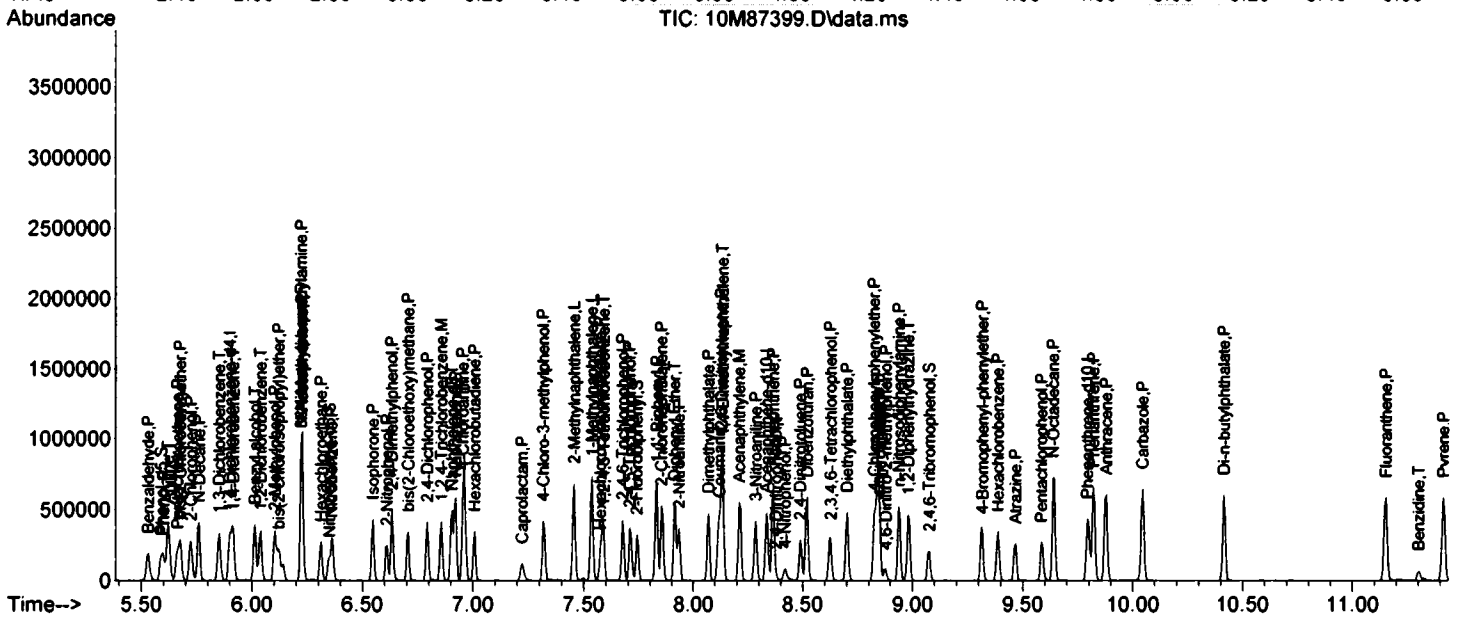
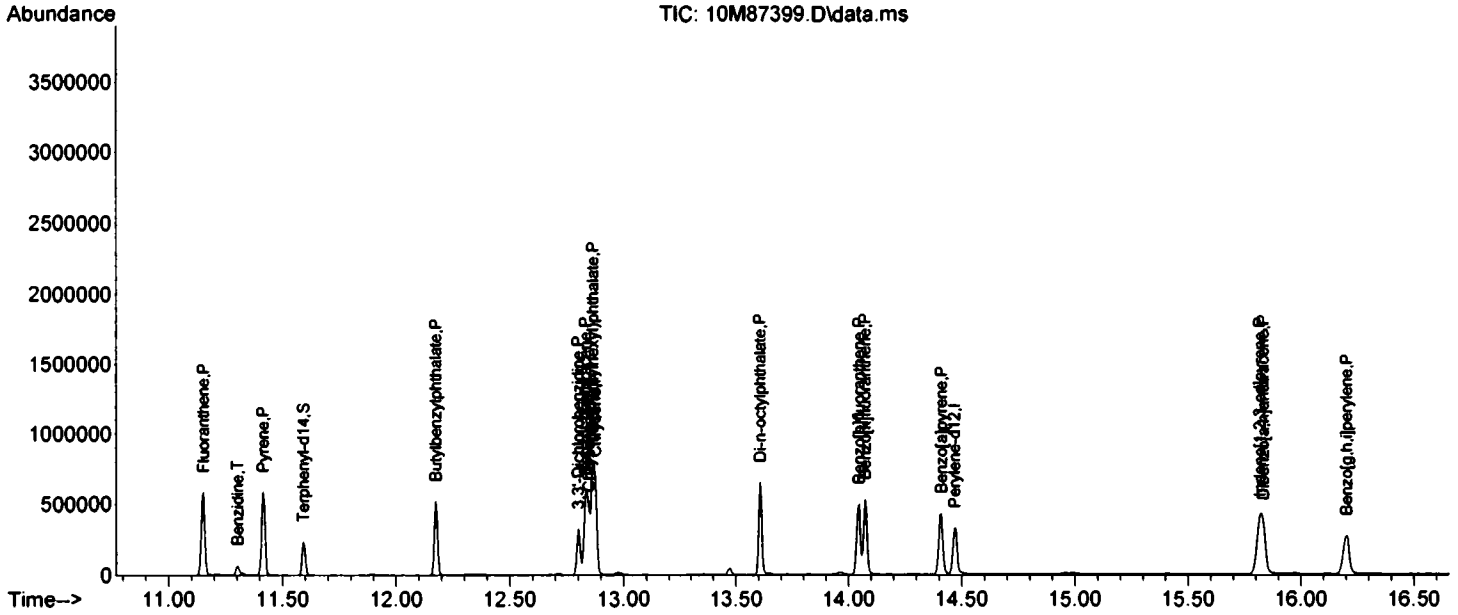
Quant QT Reviewed
SampleID : AD26083-049(MS:AD26
Data File: 10M87399.D
Acq On : 09/20/21 22:45
Operator : AH/JB
Sam Mult : 1 Vial# : 25
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->


Abundance
TIC: 10M87399.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
Isophorone,P
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Acenaphthylene,M
3-Nitroaniline,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M87399.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

SampleID : AD26083-050(MSD:AD2 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87400.D Sam Mult : 1 Vial# : 26 Qt On : 09/21/21 10:16
Acq On : 09/20/21 23:07 Misc : A,BNA Qt Upd On: 09/20/21 12:55

Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.745 | 96 | 26692 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.901 | 152 | 51388 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.906 | 136 | 209385 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.334 | 164 | 99786 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.800 | 188 | 173540 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.849 | 240 | 128095 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.475 | 264 | 132998 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.719 | 112 | 77239 | 53.02 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.02% | | | |
| 16) Phenol-d5 | 5.590 | 99 | 72638 | 41.00 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 41.00% | | | |
| 32) Nitrobenzene-d5 | 6.350 | 128 | 37206 | 51.64 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 103.28% | | | |
| 55) 2-Fluorobiphenyl | 7.746 | 172 | 162711 | 51.47 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 102.94% | | | |
| 80) 2,4,6-Tribromophenol | 9.078 | 330 | 34492 | 101.42 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 101.42% | | | |
| 94) Terphenyl-d14 | 11.592 | 244 | 111855 | 56.05 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 112.10% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.788 | 88 | 36554 | 58.6097 | ng | 65 |
| 9) Pyridine | 3.258 | 79 | 81833 | 66.8678 | ng | 82 |
| 10) N-Nitrosodimethylamine | 3.194 | 74 | 53391 | 57.6528 | ng | 83 |
| 12) Benzaldehyde | 5.532 | 77 | 65149 | 50.5797 | ng | 70 |
| 13) Aniline | 5.623 | 93 | 199699 | 86.7053 | ng | 51 |
| 14) Pentachloroethane | 5.665 | 117 | 43294 | 80.5717 | ng | 84 |
| 15) bis(2-Chloroethyl)ether | 5.676 | 93 | 128353 | 80.2026 | ng | 84 |
| 17) Phenol | 5.601 | 94 | 92132 | 43.6009 | ng | 82 |
| 18) 2-Chlorophenol | 5.724 | 128 | 127403 | 77.6034 | ng | 80 |
| 19) N-Decane | 5.762 | 57 | 151721 | 80.8447 | ng | 91 |
| 20) 1,3-Dichlorobenzene | 5.853 | 146 | 139064 | 75.6120 | ng | 95 |
| 22) 1,4-Dichlorobenzene | 5.917 | 146 | 147237 | 81.1136 | ng | 96 |
| 23) 1,2-Dichlorobenzene | 6.040 | 146 | 136301 | 78.9970 | ng | 97 |
| 24) Benzyl alcohol | 6.013 | 108 | 87729 | 87.0271 | ng | 67 |
| 25) bis(2-chloroisopropyl)... | 6.120 | 45 | 185839 | 73.4639 | ng | 92 |
| 26) 2-Methylphenol | 6.104 | 108 | 105630 | 72.2694 | ng | 96 |
| 27) Acetophenone | 6.227 | 105 | 189096 | 92.9103 | ng | 72 |
| 28) Hexachloroethane | 6.313 | 117 | 51705 | 79.1840 | ng | 83 |
| 29) N-Nitroso-di-n-propyla... | 6.227 | 70 | 86054 | 85.7693 | ng | 78 |
| 30) 3&4-Methylphenol | 6.227 | 108 | 100863 | 70.7480 | ng | 86 |
| 33) Nitrobenzene | 6.366 | 77 | 130405 | 86.6091 | ng | 72 |
| 34) Isophorone | 6.548 | 82 | 233082 | 83.6333 | ng | 82 |
| 35) 2-Nitrophenol | 6.612 | 139 | 76077 | 90.3510 | ng | 80 |
| 36) 2,4-Dimethylphenol | 6.633 | 107 | 125631 | 89.5837 | ng | 90 |
| 37) Benzoic Acid | 6.698 | 105 | 42776 | 49.5742 | ng | 81 |
| 38) bis(2-Chloroethoxy)met... | 6.708 | 93 | 155391 | 87.9898 | ng | 96 |
| 39) 2,4-Dichlorophenol | 6.794 | 162 | 110459 | 86.7391 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.858 | 180 | 110687 | 84.2899 | ng | 97 |
| 41) Naphthalene | 6.922 | 128 | 409813 | 83.9696 | ng | 99 |
| 42) 4-Chloroaniline | 6.960 | 127 | 184923m | 101.5341 | ng | |
| 43) Hexachlorobutadiene | 7.008 | 225 | 51350 | 82.5706 | ng | 96 |
| 44) Caprolactam | 7.238 | 113 | 20571 | 43.1791 | ng | 68 |
| 45) 4-Chloro-3-methylphenol | 7.318 | 107 | 115424 | 90.8752 | ng | 79 |
| 46) 2-Methylnaphthalene | 7.457 | 142 | 297483 | 91.8959 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.537 | 142 | 316168 | 102.9591 | ng | 96 |
| 49) 1,1'-Biphenyl | 7.832 | 154 | 352154 | 96.4092 | ng | 95 |
| 51) 1,2,4,5-Tetrachloroben... | 7.591 | 216 | 108670 | 94.6103 | ng | 99 |
| 52) Hexachlorocyclopentadiene | 7.580 | 237 | 42682 | 84.0021 | ng | 97 |
| 53) 2,4,6-Trichlorophenol | 7.676 | 196 | 77534 | 100.3236 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.714 | 196 | 83546 | 100.4897 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.858 | 162 | 245597 | 89.1793 | ng | 91 |
| 57) 1,4-Dimethylnaphthalene | 8.136 | 156 | 207469 | 95.8132 | ng | 89 |
| 59) Diphenyl Ether | 7.917 | 170 | 190769 | 97.8380 | ng | 72 |
| 60) 2-Nitroaniline | 7.933 | 65 | 96176 | 107.4304 | ng | 50 |
| 61) Coumarin | 8.120 | 146 | 110933 | 104.5660 | ng | 87 |
| 62) Acenaphthylene | 8.217 | 152 | 387232 | 91.5266 | ng | 100 |
| 63) Dimethylphthalate | 8.072 | 163 | 276331 | 92.4242 | ng | 94 |
| 64) 2,6-Dinitrotoluene | 8.136 | 165 | 61103 | 92.6636 | ng | 60 |
| 65) Acenaphthene | 8.366 | 153 | 249687 | 89.7710 | ng | 98 |
| 66) 3-Nitroaniline | 8.286 | 138 | 87581 | 105.7451 | ng | 72 |
| 67) 2,4-Dinitrophenol | 8.377 | 184 | 17522 | 50.8869 | ng | 45 |

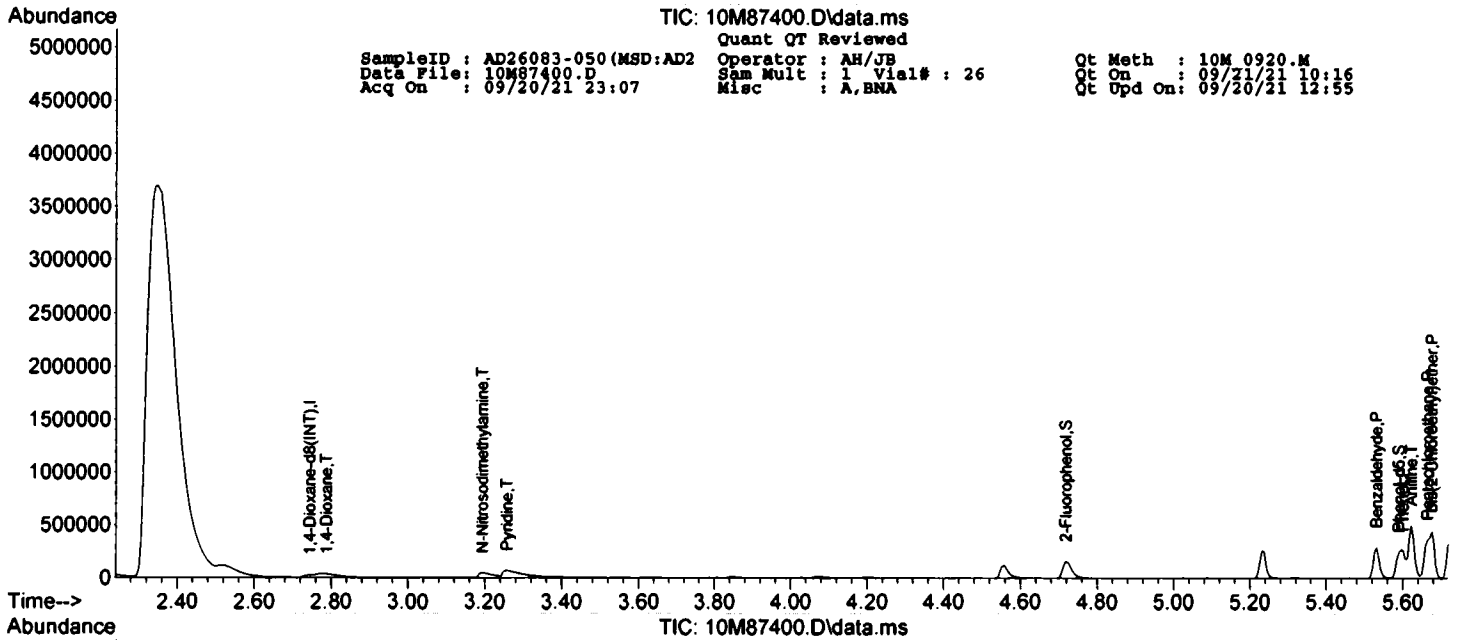
Quantitation Report (QT Reviewed)

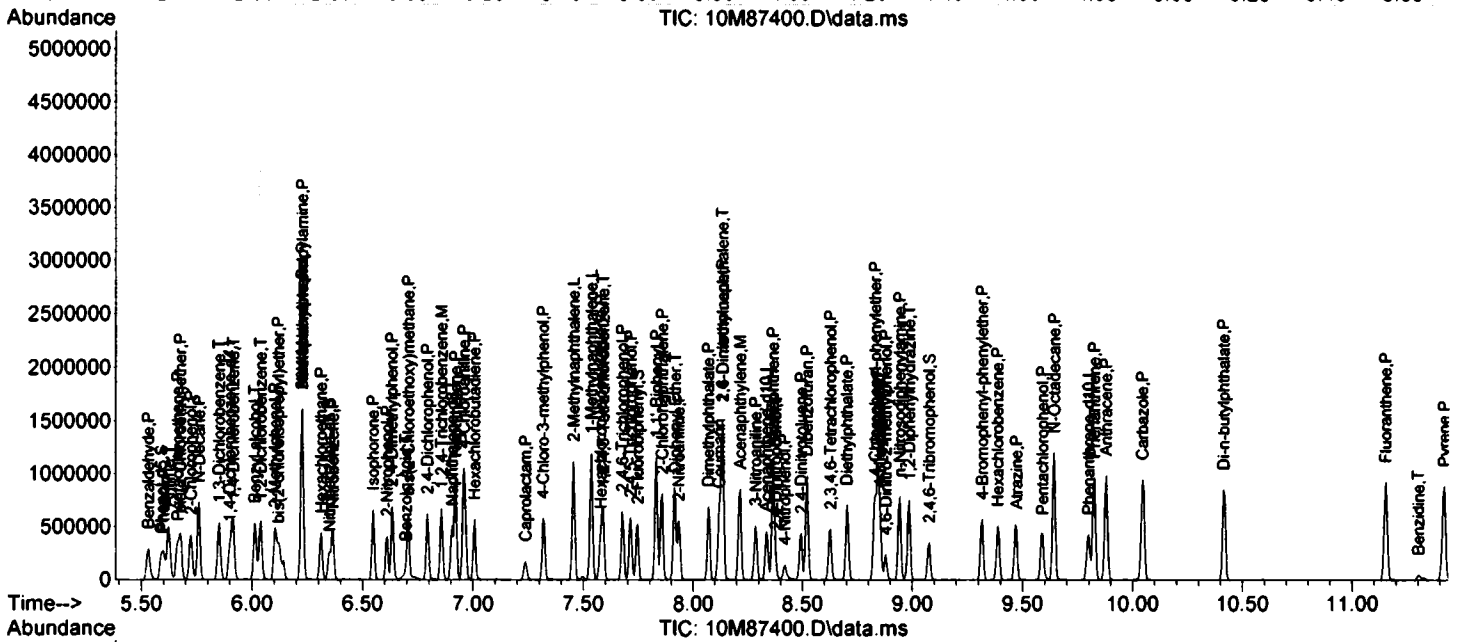
SampleID : AD26083-050(MSD:AD2 Operator : AH/JB Qt Meth : 10M_0920.M
Data File: 10M87400.D Sam Mult : 1 Vial# : 26 Qt On : 09/21/21 10:16
Acq On : 09/20/21 23:07 Misc : A,BNA Qt Upd On: 09/20/21 12:55

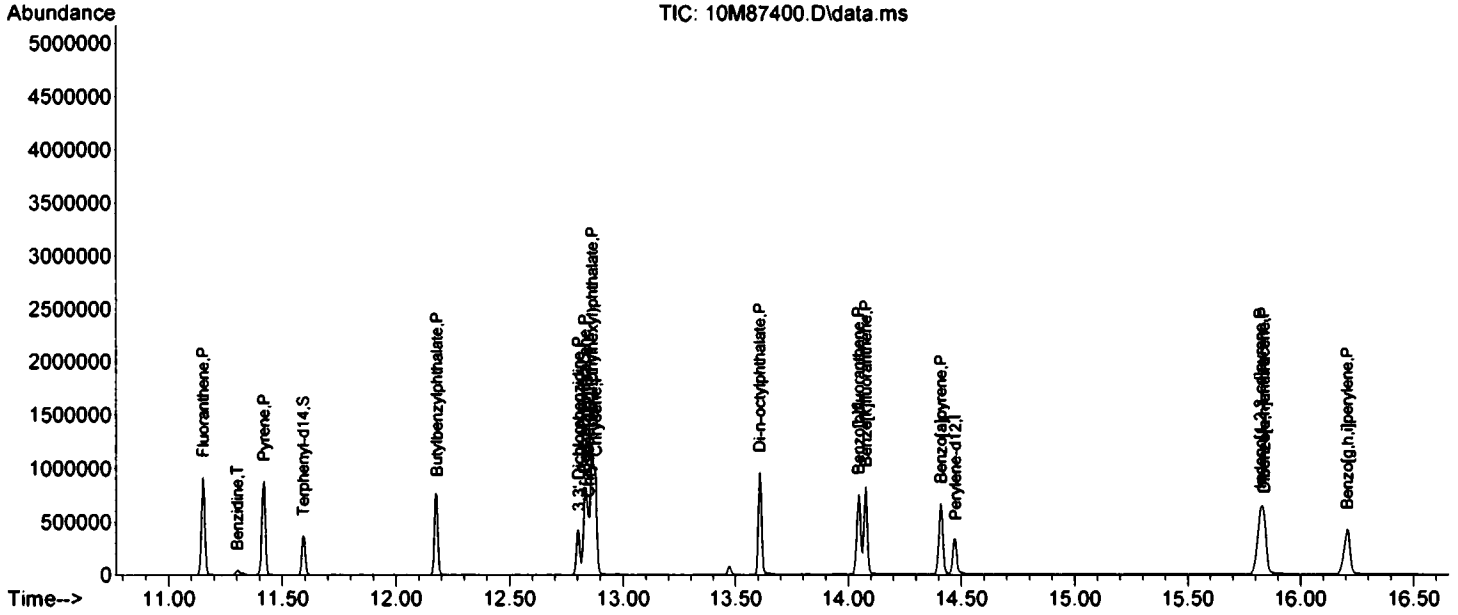
Data Path : G:\GcMsData\2021\GCMS_10\Data\09-2021\
Qt Path : G:\GCMSDATA\2021\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 68) | Dibenzofuran | 8.521 | 168 | 386269 | 96.9594 | ng | 84 |
| 69) | 2,4-Dinitrotoluene | 8.495 | 165 | 84299 | 89.3293 | ng | 58 |
| 70) | 4-Nitrophenol | 8.420 | 65 | 23172 | 44.8987 | ng | 88 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.628 | 232 | 57076 | 90.9011 | ng | 88 |
| 72) | Fluorene | 8.842 | 166 | 283049 | 90.1351 | ng | 98 |
| 73) | 4-Chlorophenyl-phenyle... | 8.832 | 204 | 127779 | 94.4966 | ng | 85 |
| 74) | Diethylphthalate | 8.703 | 149 | 271360 | 91.8045 | ng | 97 |
| 75) | 4-Nitroaniline | 8.853 | 138 | 93568 | 100.4627 | ng | 68 |
| 76) | Atrazine | 9.474 | 200 | 58411 | 75.7897 | ng | 97 |
| 78) | 4,6-Dinitro-2-methylph... | 8.880 | 198 | 32432 | 67.7100 | ng | 64 |
| 79) | n-Nitrosodiphenylamine | 8.944 | 169 | 207124 | 78.5731 | ng | 95 |
| 81) | 1,2-Diphenylhydrazine | 8.987 | 77 | 298552 | 98.5227 | ng | 78 |
| 82) | 4-Bromophenyl-phenylether | 9.318 | 248 | 65546 | 94.7640 | ng | 91 |
| 83) | Hexachlorobenzene | 9.388 | 284 | 66154 | 90.9991 | ng | 75 |
| 84) | N-Octadecane | 9.645 | 57 | 224076 | 107.3653 | ng | 90 |
| 85) | Pentachlorophenol | 9.591 | 266 | 49034 | 107.3475 | ng | 96 |
| 86) | Phenanthrene | 9.827 | 178 | 405317 | 93.6706 | ng | 98 |
| 87) | Anthracene | 9.880 | 178 | 413777 | 94.0542 | ng | 99 |
| 88) | Carbazole | 10.046 | 167 | 440637 | 104.8309 | ng | 96 |
| 89) | Di-n-butylphthalate | 10.415 | 149 | 478907 | 95.0596 | ng | 97 |
| 90) | Fluoranthene | 11.153 | 202 | 407819 | 95.9378 | ng | 98 |
| 92) | Pyrene | 11.420 | 202 | 403697 | 94.1011 | ng | 92 |
| 93) | Benzidine | 11.303 | 184 | 22399 | 8.6682 | ng | 87 |
| 97) | Butylbenzylphthalate | 12.180 | 149 | 207112 | 98.6574 | ng | 67 |
| 99) | 3,3'-Dichlorobenzidine | 12.806 | 252 | 100423 | 71.9908 | ng | 96 |
| 100) | Benzo[a]anthracene | 12.833 | 228 | 312135 | 87.0438 | ng | 99 |
| 101) | Chrysene | 12.881 | 228 | 340916 | 94.8746 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.865 | 149 | 292440 | 104.5188 | ng | 92 |
| 104) | Di-n-octylphthalate | 13.608 | 149 | 492292 | 101.0265 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 14.047 | 252 | 333749m | 100.7009 | ng | |
| 106) | Benzo[k]fluoranthene | 14.079 | 252 | 316548m | 96.9528 | ng | |
| 107) | Benzo[a]pyrene | 14.410 | 252 | 296002 | 96.9516 | ng | 96 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.822 | 276 | 328963 | 96.8587 | ng | 98 |
| 109) | Dibenzo[a,h]anthracene | 15.838 | 278 | 283545 | 97.3970 | ng | 97 |
| 110) | Benzo[g,h,i]perylene | 16.207 | 276 | 271300 | 94.3631 | ng | 88 |

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


Abundance
TIC: 10M87400.D\data.ms
Quant QT Reviewed
SampleID : AD26083-050(MSD:AD2
Data File: 10M87400.D
Acq On : 09/20/21 23:07
Operator : AH/JB
Sam Mult : 1 Vial# : 26
Misc : A,BNA
Qt Meth : 10M_0920.M
Qt On : 09/21/21 10:16
Qt Upd On: 09/20/21 12:55
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Time-->


Abundance
TIC: 10M87400.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,I
Isophorone,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M87400.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94984

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5M117939.D | AD25969-001(MS) | 9/21/2021 4:45:00 PM |
| Non Spike(If applicable): | 5M117941.D | AD25969-001 | 9/21/2021 5:32:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **1,4-Dioxane** | **1** | **0** | **0** | **100** | **0*** | **20** | **160** |
| Pyridine | 1 | 37.5128 | 0 | 100 | 38 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 68.7036 | 0 | 100 | 69 | 50 | 150 |
| **Benzaldehyde** | **1** | **48.6533** | **0** | **100** | **49** | **20** | **220** |
| Aniline | 1 | 49.0381 | 0 | 100 | 49 | 20 | 150 |
| Pentachloroethane | 1 | 76.41 | 0 | 100 | 76 | 50 | 130 |
| **bis(2-Chloroethyl)ether** | **1** | **75.6248** | **0** | **100** | **76** | **50** | **130** |
| **Phenol** | **1** | **63.3605** | **0** | **100** | **63** | **20** | **150** |
| **2-Chlorophenol** | **1** | **87.8093** | **0** | **100** | **88** | **70** | **130** |
| N-Decane | 1 | 74.8127 | 0 | 100 | 75 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 69.2662 | 0 | 100 | 69 | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 72.368 | 0 | 100 | 72 | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 73.3948 | 0 | 100 | 73 | 50 | 130 |
| Benzyl alcohol | 1 | 96.8666 | 0 | 100 | 97 | 70 | 130 |
| **bis(2-chloroisopropyl)ether** | **1** | **71.6848** | **0** | **100** | **72** | **40** | **130** |
| **2-Methylphenol** | **1** | **91.9277** | **0** | **100** | **92** | **60** | **130** |
| **Acetophenone** | **1** | **93.0495** | **0** | **100** | **93** | **50** | **130** |
| **Hexachloroethane** | **1** | **70.5022** | **0** | **100** | **71** | **50** | **130** |
| **N-Nitroso-di-n-propylamine** | **1** | **89.4885** | **0** | **100** | **89** | **50** | **130** |
| **3&4-Methylphenol** | **1** | **99.4726** | **0** | **100** | **99** | **50** | **130** |
| **Nitrobenzene** | **1** | **90.8282** | **0** | **100** | **91** | **70** | **130** |
| **Isophorone** | **1** | **91.2017** | **0** | **100** | **91** | **70** | **130** |
| **2-Nitrophenol** | **1** | **108.6746** | **0** | **100** | **109** | **70** | **130** |
| **2,4-Dimethylphenol** | **1** | **111.3915** | **0** | **100** | **111** | **40** | **130** |
| Benzoic Acid | 1 | 115.8347 | 0 | 100 | 116 | 20 | 130 |
| **bis(2-Chloroethoxy)methane** | **1** | **88.9208** | **0** | **100** | **89** | **70** | **130** |
| **2,4-Dichlorophenol** | **1** | **109.0871** | **0** | **100** | **109** | **70** | **130** |
| 1,2,4-Trichlorobenzene | 1 | 87.1596 | 0 | 100 | 87 | 50 | 130 |
| **Naphthalene** | **1** | **82.4096** | **0** | **100** | **82** | **70** | **130** |
| **4-Chloroaniline** | **1** | **95.3961** | **0** | **100** | **95** | **50** | **150** |
| **Hexachlorobutadiene** | **1** | **87.1351** | **0** | **100** | **87** | **70** | **130** |
| **Caprolactam** | **1** | **89.5682** | **0** | **100** | **90** | **20** | **130** |
| **4-Chloro-3-methylphenol** | **1** | **113.9833** | **0** | **100** | **114** | **70** | **130** |
| **2-Methylnaphthalene** | **1** | **98.0069** | **0** | **100** | **98** | **70** | **130** |
| 1-Methylnaphthalene | 1 | 107.3439 | 0 | 100 | 107 | 70 | 130 |
| **1,1'-Biphenyl** | **1** | **103.1883** | **0** | **100** | **103** | **70** | **130** |
| **1,2,4,5-Tetrachlorobenzene** | **1** | **107.2643** | **0** | **100** | **107** | **70** | **130** |
| **Hexachlorocyclopentadiene** | **1** | **105.343** | **0** | **100** | **105** | **20** | **130** |
| **2,4,6-Trichlorophenol** | **1** | **121.4276** | **0** | **100** | **121** | **70** | **130** |
| **2,4,5-Trichlorophenol** | **1** | **124.2342** | **0** | **100** | **124** | **70** | **130** |
| **2-Chloronaphthalene** | **1** | **97.8077** | **0** | **100** | **98** | **70** | **130** |
| 1,4-Dimethylnaphthalene | 1 | 109.0389 | 0 | 100 | 109 | 70 | 130 |
| Diphenyl Ether | 1 | 109.7186 | 0 | 100 | 110 | 70 | 130 |
| **2-Nitroaniline** | **1** | **121.2507** | **0** | **100** | **121** | **50** | **150** |
| Coumarin | 1 | 115.33 | 0 | 100 | 115 | 70 | 130 |
| **Acenaphthylene** | **1** | **100.9601** | **0** | **100** | **101** | **70** | **130** |
| **Dimethylphthalate** | **1** | **103.21** | **0** | **100** | **103** | **70** | **130** |
| **2,6-Dinitrotoluene** | **1** | **107.1806** | **0** | **100** | **107** | **70** | **130** |
| **Acenaphthene** | **1** | **99.1225** | **0** | **100** | **99** | **70** | **130** |
| **3-Nitroaniline** | **1** | **123.8946** | **0** | **100** | **124** | **50** | **150** |
| **2,4-Dinitrophenol** | **1** | **128.7109** | **0** | **100** | **129** | **20** | **150** |
| **Dibenzofuran** | **1** | **109.3277** | **0** | **100** | **109** | **70** | **130** |
| **2,4-Dinitrotoluene** | **1** | **102.9937** | **0** | **100** | **103** | **40** | **130** |
| **4-Nitrophenol** | **1** | **93.5822** | **0** | **100** | **94** | **20** | **150** |
| **2,3,4,6-Tetrachlorophenol** | **1** | **121.7276** | **0** | **100** | **122** | **70** | **130** |
| **Fluorene** | **1** | **101.4492** | **0** | **100** | **101** | **70** | **130** |
| **4-Chlorophenyl-phenylether** | **1** | **105.0144** | **0** | **100** | **105** | **70** | **130** |
| **Diethylphthalate** | **1** | **104.9811** | **0** | **100** | **105** | **50** | **130** |
| **4-Nitroaniline** | **1** | **118.7688** | **0** | **100** | **119** | **50** | **150** |
| **Atrazine** | **1** | **83.2568** | **0** | **100** | **83** | **50** | **130** |
| **4,6-Dinitro-2-methylphenol** | **1** | **132.9559** | **0** | **100** | **133*** | **40** | **130** |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94984

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| n-Nitrosodiphenylamine | 1 | 97.6581 | 0 | 100 | 98 | 50 | 130 |
| 1,2-Diphenylhydrazine | 1 | 102.2298 | 0 | 100 | 102 | 70 | 130 |
| 4-Bromophenyl-phenylether | 1 | 107.8839 | 0 | 100 | 108 | 70 | 130 |
| Hexachlorobenzene | 1 | 101.5696 | 0 | 100 | 102 | 70 | 130 |
| N-Octadecane | 1 | 134.2602 | 0 | 100 | 134* | 70 | 130 |
| Pentachlorophenol | 1 | 142.2536 | 0 | 100 | 142* | 40 | 130 |
| Phenanthrene | 1 | 107.6099 | 0 | 100 | 108 | 70 | 130 |
| Anthracene | 1 | 109.1642 | 0 | 100 | 109 | 70 | 130 |
| Carbazole | 1 | 120.0698 | 0 | 100 | 120 | 70 | 130 |
| Di-n-butylphthalate | 1 | 105.8711 | 0 | 100 | 106 | 70 | 130 |
| Fluoranthene | 1 | 109.3785 | 0 | 100 | 109 | 70 | 130 |
| Pyrene | 1 | 107.3274 | 0 | 100 | 107 | 70 | 130 |
| Benzidine | 1 | 2.1256 | 0 | 100 | 2.1 | 0 | 134 |
| Butylbenzylphthalate | 1 | 108.7789 | 0 | 100 | 109 | 50 | 130 |
| 3,3'-Dichlorobenzidine | 1 | 79.1449 | 0 | 100 | 79 | 1 | 150 |
| Benzo[a]anthracene | 1 | 100.7263 | 0 | 100 | 101 | 70 | 130 |
| Chrysene | 1 | 108.4521 | 0 | 100 | 108 | 50 | 130 |
| bis(2-Ethylhexyl)phthalate | 1 | 110.8835 | 0 | 100 | 111 | 70 | 130 |
| Di-n-octylphthalate | 1 | 112.4675 | 0 | 100 | 112 | 70 | 130 |
| Benzo[b]fluoranthene | 1 | 116.8739 | 0 | 100 | 117 | 70 | 130 |
| Benzo[k]fluoranthene | 1 | 107.8396 | 0 | 100 | 108 | 70 | 130 |
| Benzo[a]pyrene | 1 | 107.4991 | 0 | 100 | 107 | 70 | 130 |
| Indeno[1,2,3-cd]pyrene | 1 | 112.4923 | 0 | 100 | 112 | 70 | 130 |
| Dibenzo[a,h]anthracene | 1 | 111.3439 | 0 | 100 | 111 | 70 | 130 |
| Benzo[g,h,i]perylene | 1 | 108.26 | 0 | 100 | 108 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
QC Batch: WMB94984

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5M117940.D | AD25969-001(MSD) | 9/21/2021 5:09:00 PM |
| Non Spike(If applicable): | 5M117941.D | AD25969-001 | 9/21/2021 5:32:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 83.8216 | 0 | 100 | 84 | 20 | 160 |
| Pyridine | 1 | 40.3328 | 0 | 100 | 40 | 5 | 150 |
| N-Nitrosodimethylamine | 1 | 91.7429 | 0 | 100 | 92 | 50 | 150 |
| Benzaldehyde | 1 | 67.0187 | 0 | 100 | 67 | 20 | 220 |
| Aniline | 1 | 61.2688 | 0 | 100 | 61 | 20 | 150 |
| Pentachloroethane | 1 | 111.8835 | 0 | 100 | 112 | 50 | 130 |
| bis(2-Chloroethyl)ether | 1 | 103.1313 | 0 | 100 | 103 | 50 | 130 |
| Phenol | 1 | 85.6972 | 0 | 100 | 86 | 20 | 150 |
| 2-Chlorophenol | 1 | 120.1822 | 0 | 100 | 120 | 70 | 130 |
| N-Decane | 1 | 107.2141 | 0 | 100 | 107 | 40 | 130 |
| 1,3-Dichlorobenzene | 1 | 95.08 | 0 | 100 | 95 | 50 | 130 |
| 1,4-Dichlorobenzene | 1 | 89.0509 | 0 | 100 | 89 | 50 | 130 |
| 1,2-Dichlorobenzene | 1 | 89.5587 | 0 | 100 | 90 | 50 | 130 |
| Benzyl alcohol | 1 | 115.7103 | 0 | 100 | 116 | 70 | 130 |
| bis(2-chloroisopropyl)ether | 1 | 84.9156 | 0 | 100 | 85 | 40 | 130 |
| 2-Methylphenol | 1 | 113.2961 | 0 | 100 | 113 | 60 | 130 |
| Acetophenone | 1 | 107.6943 | 0 | 100 | 108 | 50 | 130 |
| Hexachloroethane | 1 | 90.4558 | 0 | 100 | 90 | 50 | 130 |
| N-Nitroso-di-n-propylamine | 1 | 101.4047 | 0 | 100 | 101 | 50 | 130 |
| 3&4-Methylphenol | 1 | 115.1282 | 0 | 100 | 115 | 50 | 130 |
| Nitrobenzene | 1 | 106.4941 | 0 | 100 | 106 | 70 | 130 |
| Isophorone | 1 | 102.0159 | 0 | 100 | 102 | 70 | 130 |
| 2-Nitrophenol | 1 | 127.8504 | 0 | 100 | 128 | 70 | 130 |
| 2,4-Dimethylphenol | 1 | 125.8599 | 0 | 100 | 126 | 40 | 130 |
| Benzoic Acid | 1 | 134.5212 | 0 | 100 | 135* | 20 | 130 |
| bis(2-Chloroethoxy)methane | 1 | 104.2495 | 0 | 100 | 104 | 70 | 130 |
| 2,4-Dichlorophenol | 1 | 124.5232 | 0 | 100 | 125 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 1 | 103.913 | 0 | 100 | 104 | 50 | 130 |
| Naphthalene | 1 | 94.843 | 0 | 100 | 95 | 70 | 130 |
| 4-Chloroaniline | 1 | 106.1494 | 0 | 100 | 106 | 50 | 150 |
| Hexachlorobutadiene | 1 | 103.4899 | 0 | 100 | 103 | 70 | 130 |
| Caprolactam | 1 | 85.9431 | 0 | 100 | 86 | 20 | 130 |
| 4-Chloro-3-methylphenol | 1 | 127.8831 | 0 | 100 | 128 | 70 | 130 |
| 2-Methylnaphthalene | 1 | 110.037 | 0 | 100 | 110 | 70 | 130 |
| 1-Methylnaphthalene | 1 | 115.3706 | 0 | 100 | 115 | 70 | 130 |
| 1,1'-Biphenyl | 1 | 109.3301 | 0 | 100 | 109 | 70 | 130 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 119.5899 | 0 | 100 | 120 | 70 | 130 |
| Hexachlorocyclopentadiene | 1 | 121.9527 | 0 | 100 | 122 | 20 | 130 |
| 2,4,6-Trichlorophenol | 1 | 133.0907 | 0 | 100 | 133* | 70 | 130 |
| 2,4,5-Trichlorophenol | 1 | 134.2861 | 0 | 100 | 134* | 70 | 130 |
| 2-Chloronaphthalene | 1 | 109.5652 | 0 | 100 | 110 | 70 | 130 |
| 1,4-Dimethylnaphthalene | 1 | 116.62 | 0 | 100 | 117 | 70 | 130 |
| Diphenyl Ether | 1 | 118.093 | 0 | 100 | 118 | 70 | 130 |
| 2-Nitroaniline | 1 | 129.1795 | 0 | 100 | 129 | 50 | 150 |
| Coumarin | 1 | 121.4113 | 0 | 100 | 121 | 70 | 130 |
| Acenaphthylene | 1 | 108.1147 | 0 | 100 | 108 | 70 | 130 |
| Dimethylphthalate | 1 | 110.0919 | 0 | 100 | 110 | 70 | 130 |
| 2,6-Dinitrotoluene | 1 | 113.5394 | 0 | 100 | 114 | 70 | 130 |
| Acenaphthene | 1 | 107.9638 | 0 | 100 | 108 | 70 | 130 |
| 3-Nitroaniline | 1 | 128.2273 | 0 | 100 | 128 | 50 | 150 |
| 2,4-Dinitrophenol | 1 | 139.212 | 0 | 100 | 139 | 20 | 150 |
| Dibenzofuran | 1 | 120.1672 | 0 | 100 | 120 | 70 | 130 |
| 2,4-Dinitrotoluene | 1 | 111.3644 | 0 | 100 | 111 | 40 | 130 |
| 4-Nitrophenol | 1 | 100.5712 | 0 | 100 | 101 | 20 | 150 |
| 2,3,4,6-Tetrachlorophenol | 1 | 128.6048 | 0 | 100 | 129 | 70 | 130 |
| Fluorene | 1 | 106.5384 | 0 | 100 | 107 | 70 | 130 |
| 4-Chlorophenyl-phenylether | 1 | 113.687 | 0 | 100 | 114 | 70 | 130 |
| Diethylphthalate | 1 | 113.1258 | 0 | 100 | 113 | 50 | 130 |
| 4-Nitroaniline | 1 | 122.7454 | 0 | 100 | 123 | 50 | 150 |
| Atrazine | 1 | 86.0531 | 0 | 100 | 86 | 50 | 130 |
| 4,6-Dinitro-2-methylphenol | 1 | 138.6931 | 0 | 100 | 139* | 40 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94984

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **n-Nitrosodiphenylamine** | 1 | 98.3917 | 0 | 100 | 98 | 50 | 130 |
| 1,2-Diphenylhydrazine | 1 | 105.4036 | 0 | 100 | 105 | 70 | 130 |
| **4-Bromophenyl-phenylether** | 1 | 116.0285 | 0 | 100 | 116 | 70 | 130 |
| **Hexachlorobenzene** | 1 | 105.695 | 0 | 100 | 106 | 70 | 130 |
| N-Octadecane | 1 | 128.6556 | 0 | 100 | 129 | 70 | 130 |
| **Pentachlorophenol** | 1 | 149.5389 | 0 | 100 | 150 * | 40 | 130 |
| **Phenanthrene** | 1 | 110.0574 | 0 | 100 | 110 | 70 | 130 |
| **Anthracene** | 1 | 112.1081 | 0 | 100 | 112 | 70 | 130 |
| **Carbazole** | 1 | 122.4254 | 0 | 100 | 122 | 70 | 130 |
| **Di-n-butylphthalate** | 1 | 112.8013 | 0 | 100 | 113 | 70 | 130 |
| **Fluoranthene** | 1 | 113.0484 | 0 | 100 | 113 | 70 | 130 |
| **Pyrene** | 1 | 108.9571 | 0 | 100 | 109 | 70 | 130 |
| Benzidine | 1 | 0 | 0 | 100 | 0 | 0 | 134 |
| **Butylbenzylphthalate** | 1 | 112.1066 | 0 | 100 | 112 | 50 | 130 |
| **3,3'-Dichlorobenzidine** | 1 | 73.4097 | 0 | 100 | 73 | 1 | 150 |
| **Benzo[a]anthracene** | 1 | 102.0772 | 0 | 100 | 102 | 70 | 130 |
| **Chrysene** | 1 | 111.6145 | 0 | 100 | 112 | 50 | 130 |
| **bis(2-Ethylhexyl)phthalate** | 1 | 115.3772 | 0 | 100 | 115 | 70 | 130 |
| **Di-n-octylphthalate** | 1 | 116.2082 | 0 | 100 | 116 | 70 | 130 |
| **Benzo[b]fluoranthene** | 1 | 120.1705 | 0 | 100 | 120 | 70 | 130 |
| **Benzo[k]fluoranthene** | 1 | 118.4774 | 0 | 100 | 118 | 70 | 130 |
| **Benzo[a]pyrene** | 1 | 112.3185 | 0 | 100 | 112 | 70 | 130 |
| **Indeno[1,2,3-cd]pyrene** | 1 | 117.5378 | 0 | 100 | 118 | 70 | 130 |
| **Dibenzo[a,h]anthracene** | 1 | 116.56 | 0 | 100 | 117 | 70 | 130 |
| **Benzo[g,h,i]perylene** | 1 | 113.849 | 0 | 100 | 114 | 70 | 130 |

* - Indicates outside of limits  # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: WMB94984

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5M117940.D | AD25969-001(MSD) | 9/21/2021 5:09:00 PM |
| Duplicate(If applicable): | 5M117939.D | AD25969-001(MS) | 9/21/2021 4:45:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| 1,4-Dioxane | 1 | 83.8216 | 0 | 200* | 20 |
| Pyridine | 1 | 40.3328 | 37.5128 | 7.2 | 40 |
| N-Nitrosodimethylamine | 1 | 91.7429 | 68.7036 | 29* | 20 |
| Benzaldehyde | 1 | 67.0187 | 48.6533 | 32* | 20 |
| Aniline | 1 | 61.2688 | 49.0381 | 22* | 20 |
| Pentachloroethane | 1 | 111.8835 | 76.41 | 38* | 20 |
| bis(2-Chloroethyl)ether | 1 | 103.1313 | 75.6248 | 31* | 20 |
| Phenol | 1 | 85.6972 | 63.3605 | 30 | 40 |
| 2-Chlorophenol | 1 | 120.1822 | 87.8093 | 31 | 40 |
| N-Decane | 1 | 107.2141 | 74.8127 | 36* | 20 |
| 1,3-Dichlorobenzene | 1 | 95.08 | 69.2662 | 31* | 20 |
| 1,4-Dichlorobenzene | 1 | 89.0509 | 72.368 | 21 | 40 |
| 1,2-Dichlorobenzene | 1 | 89.5587 | 73.3948 | 20 | 20 |
| Benzyl alcohol | 1 | 115.7103 | 96.8666 | 18 | 20 |
| bis(2-chloroisopropyl)ether | 1 | 84.9156 | 71.6848 | 17 | 20 |
| 2-Methylphenol | 1 | 113.2961 | 91.9277 | 21 | 40 |
| Acetophenone | 1 | 107.6943 | 93.0495 | 15 | 20 |
| Hexachloroethane | 1 | 90.4558 | 70.5022 | 25 | 40 |
| N-Nitroso-di-n-propylamine | 1 | 101.4047 | 89.4885 | 12 | 40 |
| 3&4-Methylphenol | 1 | 115.1282 | 99.4726 | 15 | 40 |
| Nitrobenzene | 1 | 106.4941 | 90.8282 | 16 | 40 |
| Isophorone | 1 | 102.0159 | 91.2017 | 11 | 20 |
| 2-Nitrophenol | 1 | 127.8504 | 108.6746 | 16 | 20 |
| 2,4-Dimethylphenol | 1 | 125.8599 | 111.3915 | 12 | 40 |
| Benzoic Acid | 1 | 134.5212 | 115.8347 | 15 | 20 |
| bis(2-Chloroethoxy)methane | 1 | 104.2495 | 88.9208 | 16 | 20 |
| 2,4-Dichlorophenol | 1 | 124.5232 | 109.0871 | 13 | 20 |
| 1,2,4-Trichlorobenzene | 1 | 103.913 | 87.1596 | 18 | 40 |
| Naphthalene | 1 | 94.843 | 82.4096 | 14 | 40 |
| 4-Chloroaniline | 1 | 106.1494 | 95.3961 | 11 | 20 |
| Hexachlorobutadiene | 1 | 103.4899 | 87.1351 | 17 | 40 |
| Caprolactam | 1 | 85.9431 | 89.5682 | 4.1 | 20 |
| 4-Chloro-3-methylphenol | 1 | 127.8831 | 113.9833 | 11 | 40 |
| 2-Methylnaphthalene | 1 | 110.037 | 98.0069 | 12 | 20 |
| 1-Methylnaphthalene | 1 | 115.3706 | 107.3439 | 7.2 | 20 |
| 1,1'-Biphenyl | 1 | 109.3301 | 103.1883 | 5.8 | 20 |
| 1,2,4,5-Tetrachlorobenzene | 1 | 119.5899 | 107.2643 | 11 | 20 |
| Hexachlorocyclopentadiene | 1 | 121.9527 | 105.343 | 15 | 20 |
| 2,4,6-Trichlorophenol | 1 | 133.0907 | 121.4276 | 9.2 | 40 |
| 2,4,5-Trichlorophenol | 1 | 134.2861 | 124.2342 | 7.8 | 40 |
| 2-Chloronaphthalene | 1 | 109.5652 | 97.8077 | 11 | 20 |
| 1,4-Dimethylnaphthalene | 1 | 116.62 | 109.0389 | 6.7 | 20 |
| Diphenyl Ether | 1 | 118.093 | 109.7186 | 7.4 | 20 |
| 2-Nitroaniline | 1 | 129.1795 | 121.2507 | 6.3 | 20 |
| Coumarin | 1 | 121.4113 | 115.33 | 5.1 | 20 |
| Acenaphthylene | 1 | 108.1147 | 100.9601 | 6.8 | 20 |
| Dimethylphthalate | 1 | 110.0919 | 103.21 | 6.5 | 20 |
| 2,6-Dinitrotoluene | 1 | 113.5394 | 107.1806 | 5.8 | 20 |
| Acenaphthene | 1 | 107.9638 | 99.1225 | 8.5 | 40 |
| 3-Nitroaniline | 1 | 128.2273 | 123.8946 | 3.4 | 20 |
| 2,4-Dinitrophenol | 1 | 139.212 | 128.7109 | 7.8 | 20 |
| Dibenzofuran | 1 | 120.1672 | 109.3277 | 9.4 | 20 |
| 2,4-Dinitrotoluene | 1 | 111.3644 | 102.9937 | 7.8 | 40 |
| 4-Nitrophenol | 1 | 100.5712 | 93.5822 | 7.2 | 40 |
| 2,3,4,6-Tetrachlorophenol | 1 | 128.6048 | 121.7276 | 5.5 | 20 |
| Fluorene | 1 | 106.5384 | 101.4492 | 4.9 | 40 |
| 4-Chlorophenyl-phenylether | 1 | 113.687 | 105.0144 | 7.9 | 20 |
| Diethylphthalate | 1 | 113.1258 | 104.9811 | 7.5 | 20 |
| 4-Nitroaniline | 1 | 122.7454 | 118.7688 | 3.3 | 20 |
| Atrazine | 1 | 86.0531 | 83.2568 | 3.3 | 20 |
| 4,6-Dinitro-2-methylphenol | 1 | 138.6931 | 132.9559 | 4.2 | 20 |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: WMB94984

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| **n-Nitrosodiphenylamine** | **1** | **98.3917** | **97.6581** | **0.75** | **20** |
| 1,2-Diphenylhydrazine | 1 | 105.4036 | 102.2298 | 3.1 | 20 |
| **4-Bromophenyl-phenylether** | **1** | **116.0285** | **107.8839** | **7.3** | **20** |
| **Hexachlorobenzene** | **1** | **105.695** | **101.5696** | **4** | **40** |
| N-Octadecane | 1 | 128.6556 | 134.2602 | 4.3 | 20 |
| **Pentachlorophenol** | **1** | **149.5389** | **142.2536** | **5** | **40** |
| **Phenanthrene** | **1** | **110.0574** | **107.6099** | **2.2** | **20** |
| **Anthracene** | **1** | **112.1081** | **109.1642** | **2.7** | **20** |
| **Carbazole** | **1** | **122.4254** | **120.0698** | **1.9** | **20** |
| **Di-n-butylphthalate** | **1** | **112.8013** | **105.8711** | **6.3** | **20** |
| **Fluoranthene** | **1** | **113.0484** | **109.3785** | **3.3** | **20** |
| **Pyrene** | **1** | **108.9571** | **107.3274** | **1.5** | **40** |
| Benzidine | 1 | 0 | 2.1256 | 200* | 20 |
| **Butylbenzylphthalate** | **1** | **112.1066** | **108.7789** | **3** | **40** |
| **3,3'-Dichlorobenzidine** | **1** | **73.4097** | **79.1449** | **7.5** | **20** |
| **Benzo[a]anthracene** | **1** | **102.0772** | **100.7263** | **1.3** | **20** |
| **Chrysene** | **1** | **111.6145** | **108.4521** | **2.9** | **20** |
| **bis(2-Ethylhexyl)phthalate** | **1** | **115.3772** | **110.8835** | **4** | **20** |
| **Di-n-octylphthalate** | **1** | **116.2082** | **112.4675** | **3.3** | **20** |
| **Benzo[b]fluoranthene** | **1** | **120.1705** | **116.8739** | **2.8** | **20** |
| **Benzo[k]fluoranthene** | **1** | **118.4774** | **107.8396** | **9.4** | **20** |
| **Benzo[a]pyrene** | **1** | **112.3185** | **107.4991** | **4.4** | **20** |
| **Indeno[1,2,3-cd]pyrene** | **1** | **117.5378** | **112.4923** | **4.4** | **20** |
| **Dibenzo[a,h]anthracene** | **1** | **116.56** | **111.3439** | **4.6** | **20** |
| **Benzo[g,h,i]perylene** | **1** | **113.849** | **108.26** | **5** | **20** |

* - Indicates outside of limits  NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Quantitation Report (Not Reviewed)

SampleID : AD25969-001(MS) Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117939.D Sam Mult : 1 Vial# : 6 Qt On : 09/22/21 08:10
Acq On : 09/21/21 16:45 Misc : A,BNA Qt Upd On: 09/20/21 13:02

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.595 | 96 | 59177 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 74392 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.826 | 136 | 275913 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.253 | 164 | 135542 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.716 | 188 | 258769 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.772 | 240 | 250459 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.391 | 264 | 277364 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.609 | 112 | 168665 | 79.47 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 79.47% | | | |
| 16) Phenol-d5 | 5.496 | 99 | 185422 | 72.93 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 72.93% | | | |
| 32) Nitrobenzene-d5 | 6.271 | 128 | 56987 | 60.53 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 121.06% | | | |
| 55) 2-Fluorobiphenyl | 7.660 | 172 | 291233 | 66.03 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 132.06% | | | |
| 80) 2,4,6-Tribromophenol | 8.995 | 330 | 93549 | 151.64 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 151.64% | | | |
| 94) Terphenyl-d14 | 11.522 | 244 | 289780 | 76.63 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 153.26% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 9) Pyridine | 3.097 | 79 | 105047 | 37.5128 | ng | 65 |
| 10) N-Nitrosodimethylamine | 3.028 | 74 | 142710 | 68.7036 | ng | 76 |
| 12) Benzaldehyde | 5.443 | 77 | 97719 | 48.6533 | ng | 80 |
| 13) Aniline | 5.533 | 93 | 162952 | 49.0381 | ng | 59 |
| 14) Pentachloroethane | 5.576 | 117 | 58515 | 76.4100 | ng | 66 |
| 15) bis(2-Chloroethyl)ether | 5.592 | 93 | 173920 | 75.6248 | ng | 80 |
| 17) Phenol | 5.507 | 94 | 195068 | 63.3605 | ng | 87 |
| 18) 2-Chlorophenol | 5.635 | 128 | 201160 | 87.8093 | ng | 78 |
| 19) N-Decane | 5.672 | 57 | 151350 | 74.8127 | ng | 98 |
| 20) 1,3-Dichlorobenzene | 5.768 | 146 | 181216 | 69.2662 | ng | 95 |
| 22) 1,4-Dichlorobenzene | 5.833 | 146 | 190176 | 72.3680 | ng | 98 |
| 23) 1,2-Dichlorobenzene | 5.955 | 146 | 180683 | 73.3948 | ng | 98 |
| 24) Benzyl alcohol | 5.929 | 108 | 136803 | 96.8666 | ng | 79 |
| 25) bis(2-chloroisopropyl)... | 6.041 | 45 | 172288 | 71.6848 | ng | 89 |
| 26) 2-Methylphenol | 6.014 | 108 | 184019 | 91.9277 | ng | 98 |
| 27) Acetophenone | 6.148 | 105 | 282696 | 93.0495 | ng | 63 |
| 28) Hexachloroethane | 6.228 | 117 | 67858 | 70.5022 | ng | 90 |
| 29) N-Nitroso-di-n-propyla... | 6.148 | 70 | 130915 | 89.4885 | ng | 75 |
| 30) 3&4-Methylphenol | 6.137 | 108 | 197472 | 99.4726 | ng | 83 |
| 33) Nitrobenzene | 6.281 | 77 | 201894 | 90.8282 | ng | 84 |
| 34) Isophorone | 6.468 | 82 | 361710 | 91.2017 | ng | 91 |
| 35) 2-Nitrophenol | 6.532 | 139 | 117934 | 108.6746 | ng | 85 |
| 36) 2,4-Dimethylphenol | 6.554 | 107 | 226645 | 111.3915 | ng | 97 |
| 37) Benzoic Acid | 6.645 | 105 | 179787 | 115.8347 | ng | 88 |
| 38) bis(2-Chloroethoxy)met... | 6.629 | 93 | 212481 | 88.9208 | ng | 98 |
| 39) 2,4-Dichlorophenol | 6.709 | 162 | 188446 | 109.0871 | ng | 87 |
| 40) 1,2,4-Trichlorobenzene | 6.778 | 180 | 180417 | 87.1596 | ng | 97 |
| 41) Naphthalene | 6.842 | 128 | 529662 | 82.4096 | ng | 99 |
| 42) 4-Chloroaniline | 6.880 | 127 | 228049 | 95.3961 | ng | 95 |
| 43) Hexachlorobutadiene | 6.928 | 225 | 110165 | 87.1351 | ng | 97 |
| 44) Caprolactam | 7.163 | 113 | 59148 | 89.5682 | ng | 67 |
| 45) 4-Chloro-3-methylphenol | 7.238 | 107 | 201254 | 113.9833 | ng | 83 |
| 46) 2-Methylnaphthalene | 7.377 | 142 | 406655 | 98.0069 | ng | 98 |
| 47) 1-Methylnaphthalene | 7.457 | 142 | 423149 | 107.3439 | ng | 92 |
| 48) Methylnaphthalenes (To... | 7.377 | 142 | 408021 | 101.2463 | ng | 47 |
| 49) 1,1'-Biphenyl | 7.750 | 154 | 509419 | 103.1883 | ng | 93 |
| 51) 1,2,4,5-Tetrachloroben... | 7.505 | 216 | 217472 | 107.2643 | ng | 99 |
| 52) Hexachlorocyclopentadiene | 7.494 | 237 | 114489 | 105.3430 | ng | 99 |
| 53) 2,4,6-Trichlorophenol | 7.596 | 196 | 153302 | 121.4276 | ng | 99 |
| 54) 2,4,5-Trichlorophenol | 7.628 | 196 | 165387 | 124.2342 | ng | 100 |
| 56) 2-Chloronaphthalene | 7.772 | 162 | 369416 | 97.8077 | ng | 93 |
| 57) 1,4-Dimethylnaphthalene | 8.055 | 156 | 307901 | 109.0389 | ng | 90 |
| 58) Dimethylnaphthalenes (... | 8.055 | 156 | 307901 | 109.0389 | ng | 90 |
| 59) Diphenyl Ether | 7.836 | 170 | 293419 | 109.7186 | ng | 79 |
| 60) 2-Nitroaniline | 7.852 | 65 | 148620 | 121.2507 | ng | 59 |
| 61) Coumarin | 8.039 | 146 | 160870 | 115.3300 | ng | 64 |
| 62) Acenaphthylene | 8.135 | 152 | 547984 | 100.9601 | ng | 99 |
| 63) Dimethylphthalate | 7.996 | 163 | 440803 | 103.2100 | ng | 97 |
| 64) 2,6-Dinitrotoluene | 8.055 | 165 | 97858 | 107.1806 | ng | 69 |
| 65) Acenaphthene | 8.285 | 153 | 358380 | 99.1225 | ng | 97 |
| 66) 3-Nitroaniline | 8.210 | 138 | 124033 | 123.8946 | ng | 77 |

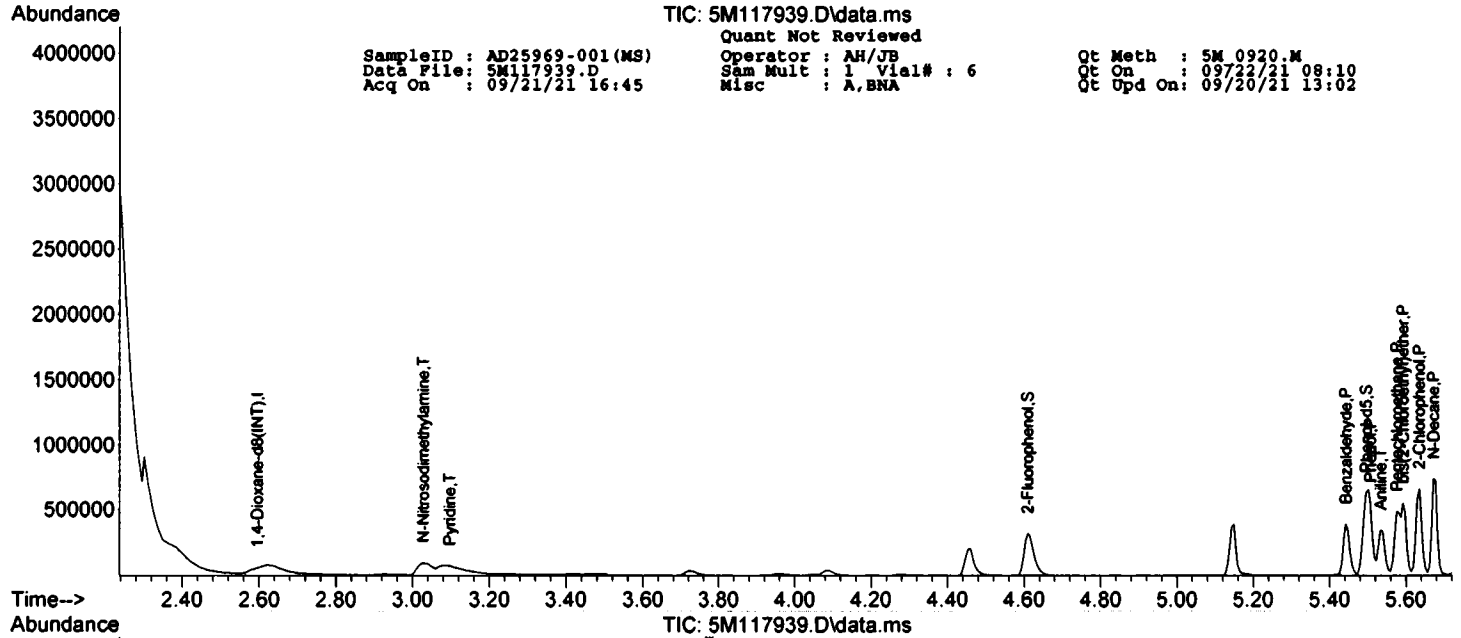
Quantitation Report (Not Reviewed)

SampleID : AD25969-001(MS) Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117939.D Sam Mult : 1 Vial# : 6 Qt On : 09/22/21 08:10
Acq On : 09/21/21 16:45 Misc : A,BNA Qt Upd On: 09/20/21 13:02

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 67) | 2,4-Dinitrophenol | 8.295 | 184 | 74647 | 128.7109 | ng | 45 |
| 68) | Dibenzofuran | 8.440 | 168 | 592400 | 109.3277 | ng | 90 |
| 69) | 2,4-Dinitrotoluene | 8.413 | 165 | 137130 | 102.9937 | ng | 66 |
| 70) | 4-Nitrophenol | 8.333 | 65 | 75738 | 93.5822 | ng | 72 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.541 | 232 | 137529 | 121.7276 | ng | 83 |
| 72) | Fluorene | 8.765 | 166 | 424364 | 101.4492 | ng | 99 |
| 73) | 4-Chlorophenyl-phenyle... | 8.749 | 204 | 224844 | 105.0144 | ng | 84 |
| 74) | Diethylphthalate | 8.632 | 149 | 430022 | 104.9811 | ng | 97 |
| 75) | 4-Nitroaniline | 8.776 | 138 | 126443 | 118.7688 | ng | 89 |
| 76) | Atrazine | 9.396 | 200 | 103770 | 83.2568 | ng | 95 |
| 78) | 4,6-Dinitro-2-methylph... | 8.803 | 198 | 106705 | 132.9559 | ng | 68 |
| 79) | n-Nitrosodiphenylamine | 8.867 | 169 | 344130 | 97.6581 | ng | 96 |
| 81) | 1,2-Diphenylhydrazine | 8.910 | 77 | 423904 | 102.2298 | ng | 79 |
| 82) | 4-Bromophenyl-phenylether | 9.241 | 248 | 139436 | 107.8839 | ng | 84 |
| 83) | Hexachlorobenzene | 9.305 | 284 | 142743 | 101.5696 | ng | 66 |
| 84) | N-Octadecane | 9.572 | 57 | 267493 | 134.2602 | ng | 69 |
| 85) | Pentachlorophenol | 9.503 | 266 | 137381 | 142.2536 | ng | 98 |
| 86) | Phenanthrene | 9.748 | 178 | 655070 | 107.6099 | ng | 99 |
| 87) | Anthracene | 9.802 | 178 | 671372 | 109.1642 | ng | 98 |
| 88) | Carbazole | 9.973 | 167 | 667032 | 120.0698 | ng | 98 |
| 89) | Di-n-butylphthalate | 10.347 | 149 | 720249 | 105.8711 | ng | 98 |
| 90) | Fluoranthene | 11.079 | 202 | 739094 | 109.3785 | ng | 82 |
| 92) | Pyrene | 11.340 | 202 | 743848 | 107.3274 | ng | 81 |
| 93) | Benzidine | 11.234 | 184 | 8422 | 2.1256 | ng | 88 |
| 97) | Butylbenzylphthalate | 12.115 | 149 | 330524 | 108.7789 | ng | 68 |
| 99) | 3,3'-Dichlorobenzidine | 12.735 | 252 | 210961 | 79.1449 | ng | 95 |
| 100) | Benzo[a]anthracene | 12.761 | 228 | 680853 | 100.7263 | ng | 99 |
| 101) | Chrysene | 12.810 | 228 | 720669 | 108.4521 | ng | 98 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.799 | 149 | 470939 | 110.8835 | ng | 95 |
| 104) | Di-n-octylphthalate | 13.552 | 149 | 801599 | 112.4675 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 13.974 | 252 | 764022 | 116.8739 | ng | 95 |
| 106) | Benzo[k]fluoranthene | 13.974 | 252 | 710405 | 107.8396 | ng | 91 |
| 107) | Benzo[a]pyrene | 14.332 | 252 | 660609 | 107.4991 | ng | 89 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.710 | 276 | 819359 | 112.4923 | ng | 70 |
| 109) | Dibenzo[a,h]anthracene | 15.737 | 278 | 687219 | 111.3439 | ng | 89 |
| 110) | Benzo[g,h,i]perylene | 16.095 | 276 | 664969 | 108.2600 | ng | 70 |

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


Abundance
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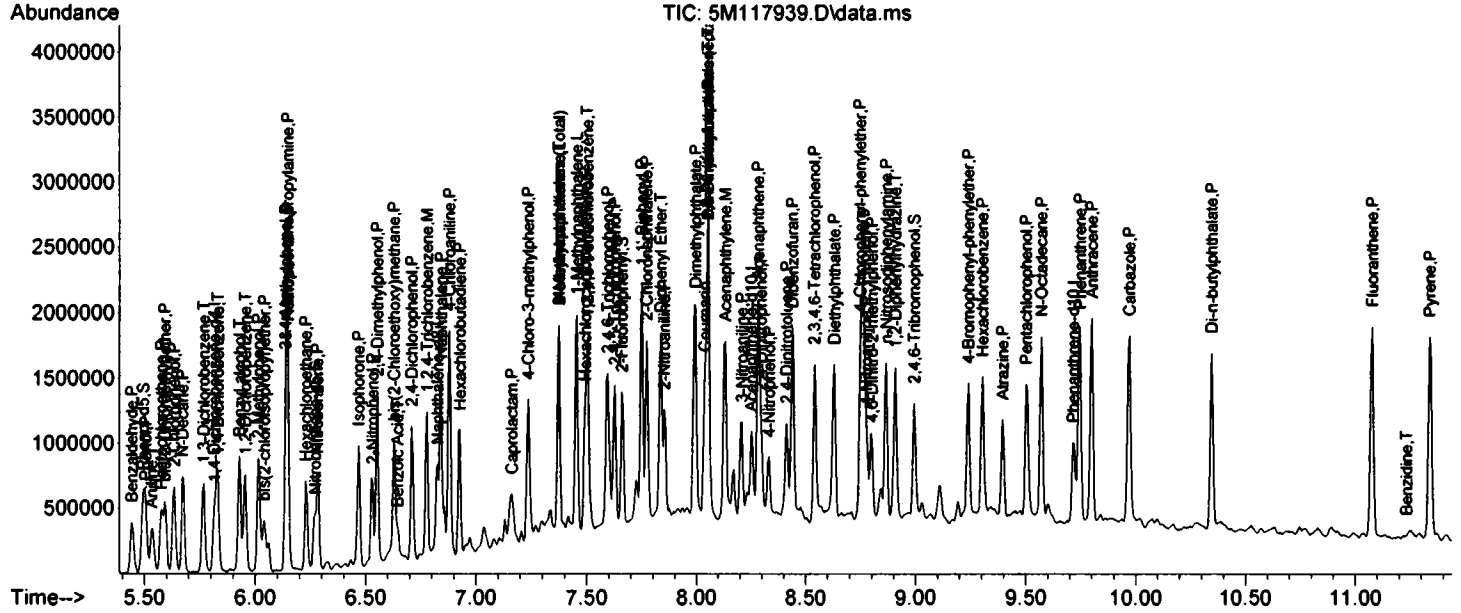
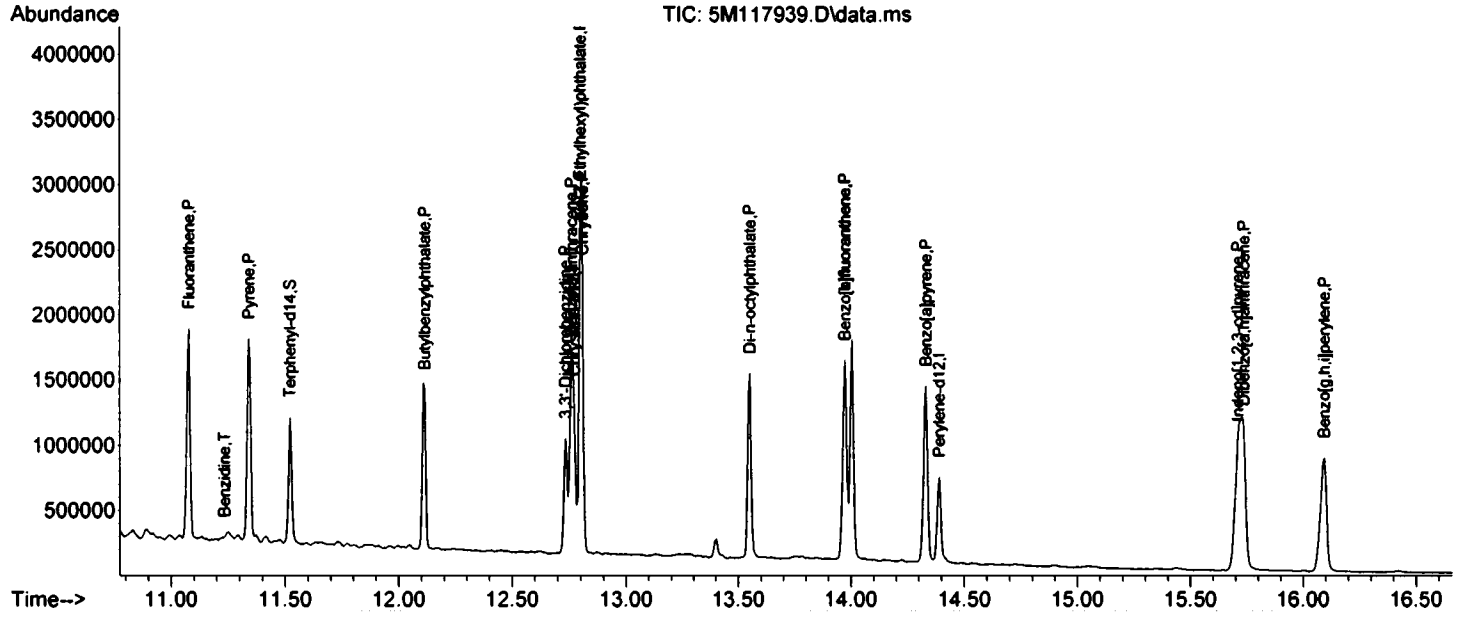
Quant Not Reviewed
SampleID : AD25969-001(MS)
Data File: 5M117939.D
Acq On : 09/21/21 16:45
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09722/21 08:10
Qt Upd On: 09/20/21 13:02
1,4-Dioxane-d8(INT),I
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 5M117939.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 5M117939.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo(b)fluoranthene,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (Not Reviewed)

SampleID : AD25969-001(MSD) Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117940.D Sam Mult : 1 Vial# : 7 Qt On : 09/22/21 08:10
Acq On : 09/21/21 17:09 Misc : A,BNA Qt Upd On: 09/20/21 13:03

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.595 | 96 | 63123 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 89138 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.826 | 136 | 333384 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.253 | 164 | 161409 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.717 | 188 | 312676 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.772 | 240 | 304645 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.391 | 264 | 330783 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.615 | 112 | 267052 | 117.96 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 117.96% | | | |
| 16) Phenol-d5 | 5.496 | 99 | 273062 | 100.69 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 100.69% | | | |
| 32) Nitrobenzene-d5 | 6.271 | 128 | 78777 | 69.25 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 138.50% | | | |
| 55) 2-Fluorobiphenyl | 7.660 | 172 | 377351 | 71.85 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 143.70% | | | |
| 80) 2,4,6-Tribromophenol | 8.995 | 330 | 116427 | 156.18 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 156.18% | | | |
| 94) Terphenyl-d14 | 11.522 | 244 | 353342 | 76.82 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 153.64% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 8) 1,4-Dioxane | 2.633 | 88 | 123130 | 83.8216 | ng | 86 |
| 9) Pyridine | 3.092 | 79 | 120475 | 40.3328 | ng | 70 |
| 10) N-Nitrosodimethylamine | 3.033 | 74 | 203274 | 91.7429 | ng | 74 |
| 12) Benzaldehyde | 5.443 | 77 | 143581 | 67.0187 | ng | 80 |
| 13) Aniline | 5.539 | 93 | 217170 | 61.2688 | ng | 59 |
| 14) Pentachloroethane | 5.576 | 117 | 91394 | 111.8835 | ng | 68 |
| 15) bis(2-Chloroethyl)ether | 5.598 | 93 | 252994 | 103.1313 | ng | 77 |
| 17) Phenol | 5.507 | 94 | 281429 | 85.6972 | ng | 89 |
| 18) 2-Chlorophenol | 5.635 | 128 | 293681 | 120.1822 | ng | 80 |
| 19) N-Decane | 5.678 | 57 | 231363 | 107.2141 | ng | 96 |
| 20) 1,3-Dichlorobenzene | 5.769 | 146 | 265338 | 95.0800 | ng | 96 |
| 22) 1,4-Dichlorobenzene | 5.833 | 146 | 280404 | 89.0509 | ng | 97 |
| 23) 1,2-Dichlorobenzene | 5.956 | 146 | 264178 | 89.5587 | ng | 97 |
| 24) Benzyl alcohol | 5.934 | 108 | 195808 | 115.7103 | ng | 77 |
| 25) bis(2-chloroisopropyl)... | 6.041 | 45 | 244541 | 84.9156 | ng | 85 |
| 26) 2-Methylphenol | 6.020 | 108 | 271749 | 113.2961 | ng | 97 |
| 27) Acetophenone | 6.148 | 105 | 392044 | 107.6943 | ng | 69 |
| 28) Hexachloroethane | 6.228 | 117 | 104321 | 90.4558 | ng | 90 |
| 29) N-Nitroso-di-n-propyla... | 6.148 | 70 | 177753 | 101.4047 | ng | 75 |
| 30) 3&4-Methylphenol | 6.143 | 108 | 273855 | 115.1282 | ng | 85 |
| 33) Nitrobenzene | 6.287 | 77 | 286023 | 106.4941 | ng | 81 |
| 34) Isophorone | 6.474 | 82 | 488875 | 102.0159 | ng | 86 |
| 35) 2-Nitrophenol | 6.533 | 139 | 167643 | 127.8504 | ng | 88 |
| 36) 2,4-Dimethylphenol | 6.554 | 107 | 309424 | 125.8599 | ng | 99 |
| 37) Benzoic Acid | 6.661 | 105 | 264454 | 134.5212 | ng | 89 |
| 38) bis(2-Chloroethoxy)met... | 6.634 | 93 | 300998 | 104.2495 | ng | 97 |
| 39) 2,4-Dichlorophenol | 6.709 | 162 | 259918 | 124.5232 | ng | 88 |
| 40) 1,2,4-Trichlorobenzene | 6.778 | 180 | 259899 | 103.9130 | ng | 98 |
| 41) Naphthalene | 6.842 | 128 | 736545 | 94.8430 | ng | 99 |
| 42) 4-Chloroaniline | 6.880 | 127 | 306611 | 106.1494 | ng | 94 |
| 43) Hexachlorobutadiene | 6.923 | 225 | 158096 | 103.4899 | ng | 96 |
| 44) Caprolactam | 7.174 | 113 | 68126 | 85.9431 | ng | 65 |
| 45) 4-Chloro-3-methylphenol | 7.238 | 107 | 272828 | 127.8831 | ng | 86 |
| 46) 2-Methylnaphthalene | 7.377 | 142 | 551672 | 110.0370 | ng | 99 |
| 47) 1-Methylnaphthalene | 7.457 | 142 | 549520 | 115.3706 | ng | 92 |
| 48) Methylnaphthalenes (To... | 7.377 | 142 | 552151 | 113.3919 | ng | 48 |
| 49) 1,1'-Biphenyl | 7.751 | 154 | 652164 | 109.3301 | ng | 92 |
| 51) 1,2,4,5-Tetrachloroben... | 7.505 | 216 | 288733 | 119.5899 | ng | 99 |
| 52) Hexachlorocyclopentadiene | 7.494 | 237 | 157835 | 121.9527 | ng | 98 |
| 53) 2,4,6-Trichlorophenol | 7.590 | 196 | 200093 | 133.0907 | ng | 100 |
| 54) 2,4,5-Trichlorophenol | 7.628 | 196 | 212885 | 134.2861 | ng | 99 |
| 56) 2-Chloronaphthalene | 7.772 | 162 | 492798 | 109.5652 | ng | 92 |
| 57) 1,4-Dimethylnaphthalene | 8.055 | 156 | 392154 | 116.6200 | ng | 90 |
| 58) Dimethylnaphthalenes (... | 8.055 | 156 | 392154 | 116.6200 | ng | 90 |
| 59) Diphenyl Ether | 7.836 | 170 | 376085 | 118.0930 | ng | 78 |
| 60) 2-Nitroaniline | 7.852 | 65 | 188556 | 129.1795 | ng | 59 |
| 61) Coumarin | 8.044 | 146 | 201672 | 121.4113 | ng | 61 |
| 62) Acenaphthylene | 8.135 | 152 | 698806 | 108.1147 | ng | 99 |
| 63) Dimethylphthalate | 7.996 | 163 | 559928 | 110.0919 | ng | 98 |
| 64) 2,6-Dinitrotoluene | 8.055 | 165 | 123447 | 113.5394 | ng | 72 |
| 65) Acenaphthene | 8.285 | 153 | 464840 | 107.9638 | ng | 97 |

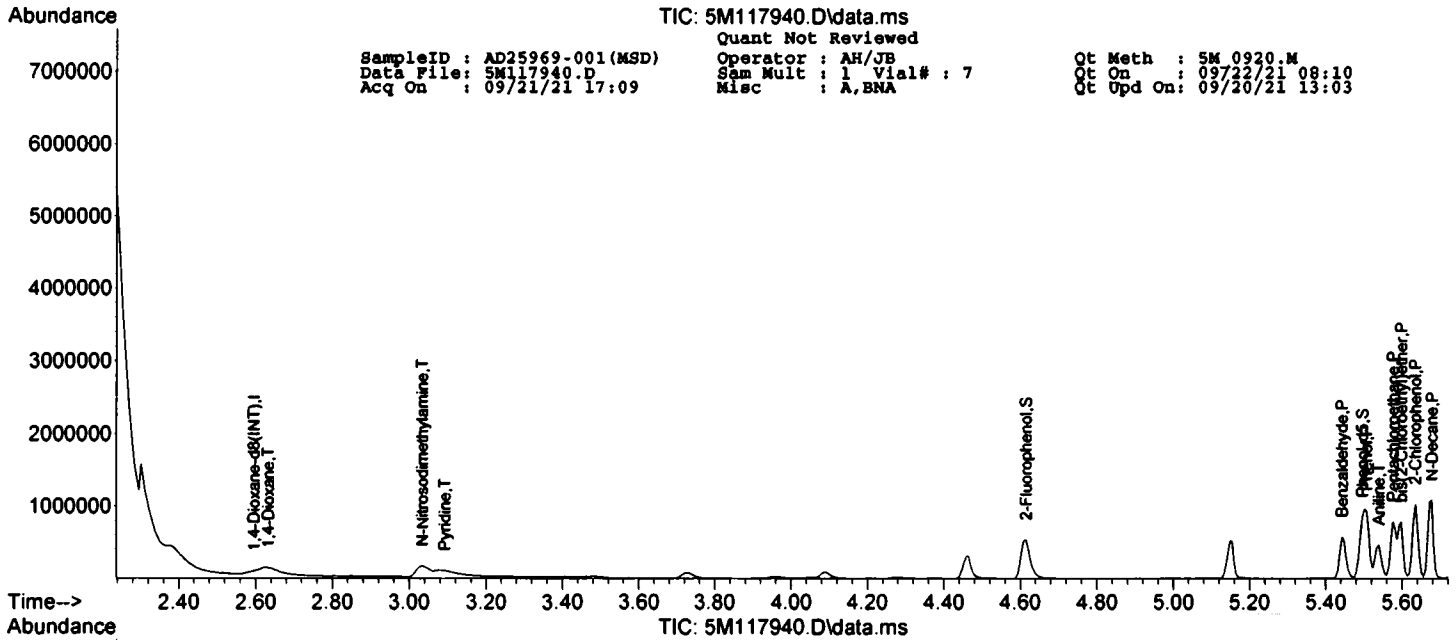
Quantitation Report (Not Reviewed)

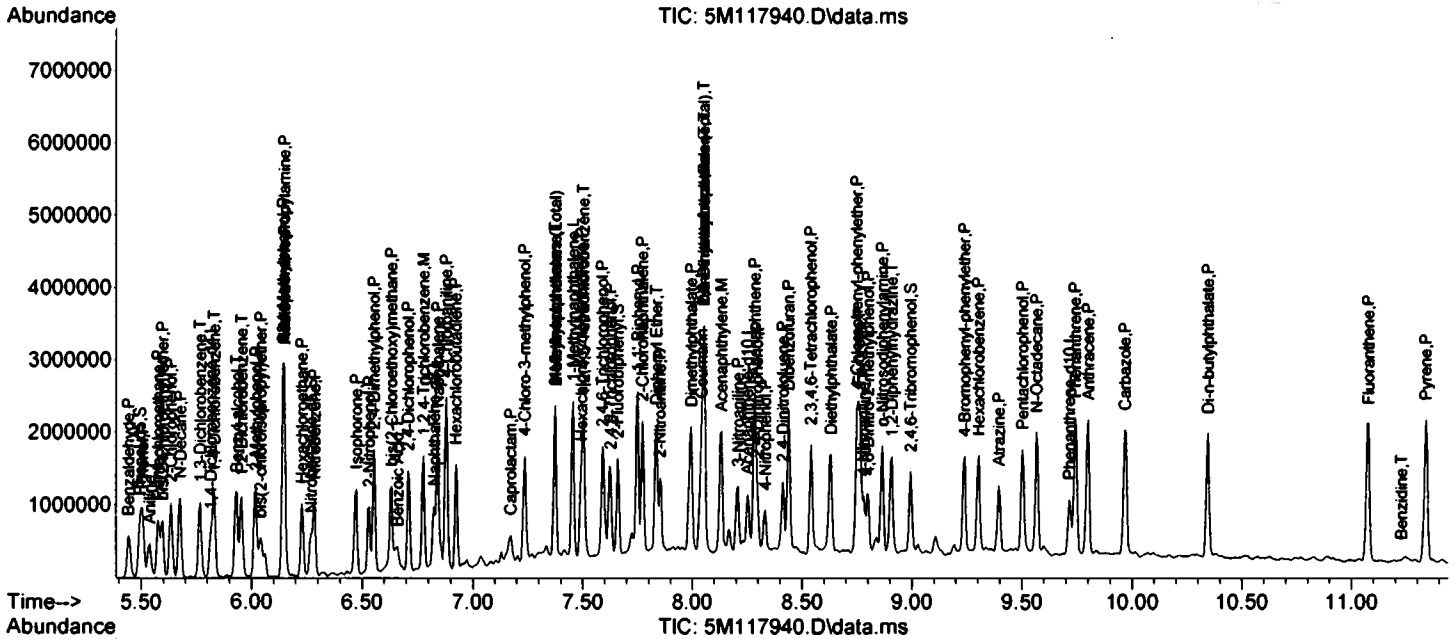
SampleID : AD25969-001(MSD) Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117940.D Sam Mult : 1 Vial# : 7 Qt On : 09/22/21 08:10
Acq On : 09/21/21 17:09 Misc : A,BNA Qt Upd On: 09/20/21 13:03

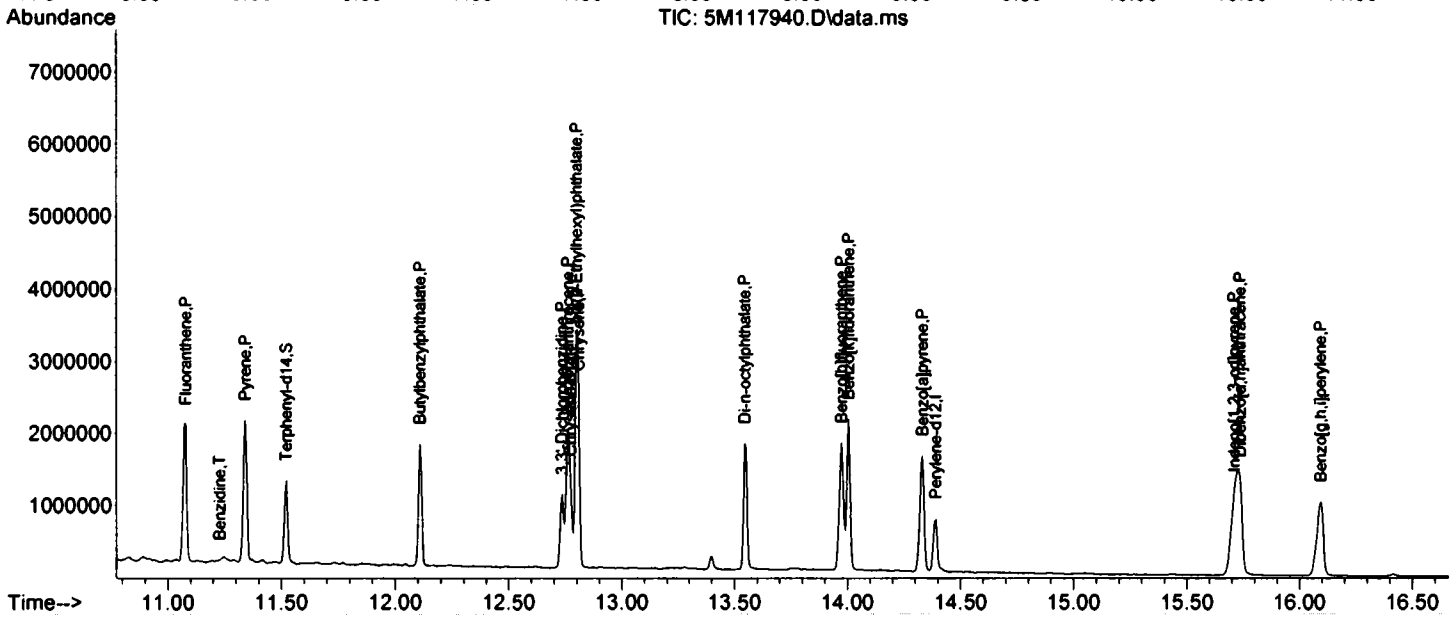
Data Path : G:\GcMsData\2021\GCMS_5\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 66) | 3-Nitroaniline | 8.210 | 138 | 152869 | 128.2273 | ng | 76 |
| 67) | 2,4-Dinitrophenol | 8.296 | 184 | 98037 | 139.2120 | ng | 44 |
| 68) | Dibenzofuran | 8.440 | 168 | 775398 | 120.1672 | ng | 90 |
| 69) | 2,4-Dinitrotoluene | 8.413 | 165 | 177090 | 111.3644 | ng | 65 |
| 70) | 4-Nitrophenol | 8.333 | 65 | 97540 | 100.5712 | ng | 72 |
| 71) | 2,3,4,6-Tetrachlorophenol | 8.541 | 232 | 173028 | 128.6048 | ng | 84 |
| 72) | Fluorene | 8.760 | 166 | 530701 | 106.5384 | ng | 99 |
| 73) | 4-Chlorophenyl-phenyle... | 8.750 | 204 | 289866 | 113.6870 | ng | 84 |
| 74) | Diethylphthalate | 8.632 | 149 | 551817 | 113.1258 | ng | 97 |
| 75) | 4-Nitroaniline | 8.782 | 138 | 155615 | 122.7454 | ng | 90 |
| 76) | Atrazine | 9.396 | 200 | 127724 | 86.0531 | ng | 95 |
| 78) | 4,6-Dinitro-2-methylph... | 8.803 | 198 | 135308 | 138.6931 | ng | 66 |
| 79) | n-Nitrosodiphenylamine | 8.867 | 169 | 418943 | 98.3917 | ng | 97 |
| 81) | 1,2-Diphenylhydrazine | 8.910 | 77 | 528114 | 105.4036 | ng | 77 |
| 82) | 4-Bromophenyl-phenylether | 9.241 | 248 | 181203 | 116.0285 | ng | 80 |
| 83) | Hexachlorobenzene | 9.305 | 284 | 179485 | 105.6950 | ng | 64 |
| 84) | N-Octadecane | 9.567 | 57 | 309725 | 128.6556 | ng | 70 |
| 85) | Pentachlorophenol | 9.503 | 266 | 175467 | 149.5389 | ng | 96 |
| 86) | Phenanthrene | 9.743 | 178 | 809538 | 110.0574 | ng | 99 |
| 87) | Anthracene | 9.802 | 178 | 833110 | 112.1081 | ng | 99 |
| 88) | Carbazole | 9.968 | 167 | 821801 | 122.4254 | ng | 98 |
| 89) | Di-n-butylphthalate | 10.347 | 149 | 928772 | 112.8013 | ng | 98 |
| 90) | Fluoranthene | 11.079 | 202 | 923027 | 113.0484 | ng | 82 |
| 92) | Pyrene | 11.341 | 202 | 918515 | 108.9571 | ng | 81 |
| 93) | Benzidine | 11.228 | 184 | 7900 | 1.6396 | ng | 91 |
| 97) | Butylbenzylphthalate | 12.110 | 149 | 415467 | 112.1066 | ng | 74 |
| 99) | 3,3'-Dichlorobenzidine | 12.735 | 252 | 237630 | 73.4097 | ng | 94 |
| 100) | Benzo[a]anthracene | 12.762 | 228 | 839260 | 102.0772 | ng | 100 |
| 101) | Chrysene | 12.810 | 228 | 902144 | 111.6145 | ng | 99 |
| 102) | bis(2-Ethylhexyl)phtha... | 12.799 | 149 | 598254 | 115.3772 | ng | 95 |
| 104) | Di-n-octylphthalate | 13.547 | 149 | 990539 | 116.2082 | ng | 100 |
| 105) | Benzo[b]fluoranthene | 13.974 | 252 | 936870 | 120.1705 | ng | 95 |
| 106) | Benzo[k]fluoranthene | 14.006 | 252 | 930800 | 118.4774 | ng | 89 |
| 107) | Benzo[a]pyrene | 14.332 | 252 | 823160 | 112.3185 | ng | 88 |
| 108) | Indeno[1,2,3-cd]pyrene | 15.711 | 276 | 1020991 | 117.5378 | ng | 72 |
| 109) | Dibenzo[a,h]anthracene | 15.737 | 278 | 857969 | 116.5600 | ng | 89 |
| 110) | Benzo[g,h,i]perylene | 16.095 | 276 | 833980 | 113.8490 | ng | 69 |

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


Abundance
TIC: 5M117940.D\data.ms
Quant Not Reviewed
SampleID : AD25969-001(MSD)
Data File: 5M117940.D
Acq On : 09/21/21 17:09
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09722/21 08:10
Qt Upd On: 09/20/21 13:03
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 5M117940.D\data.ms
Time-->


Abundance
TIC: 5M117940.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

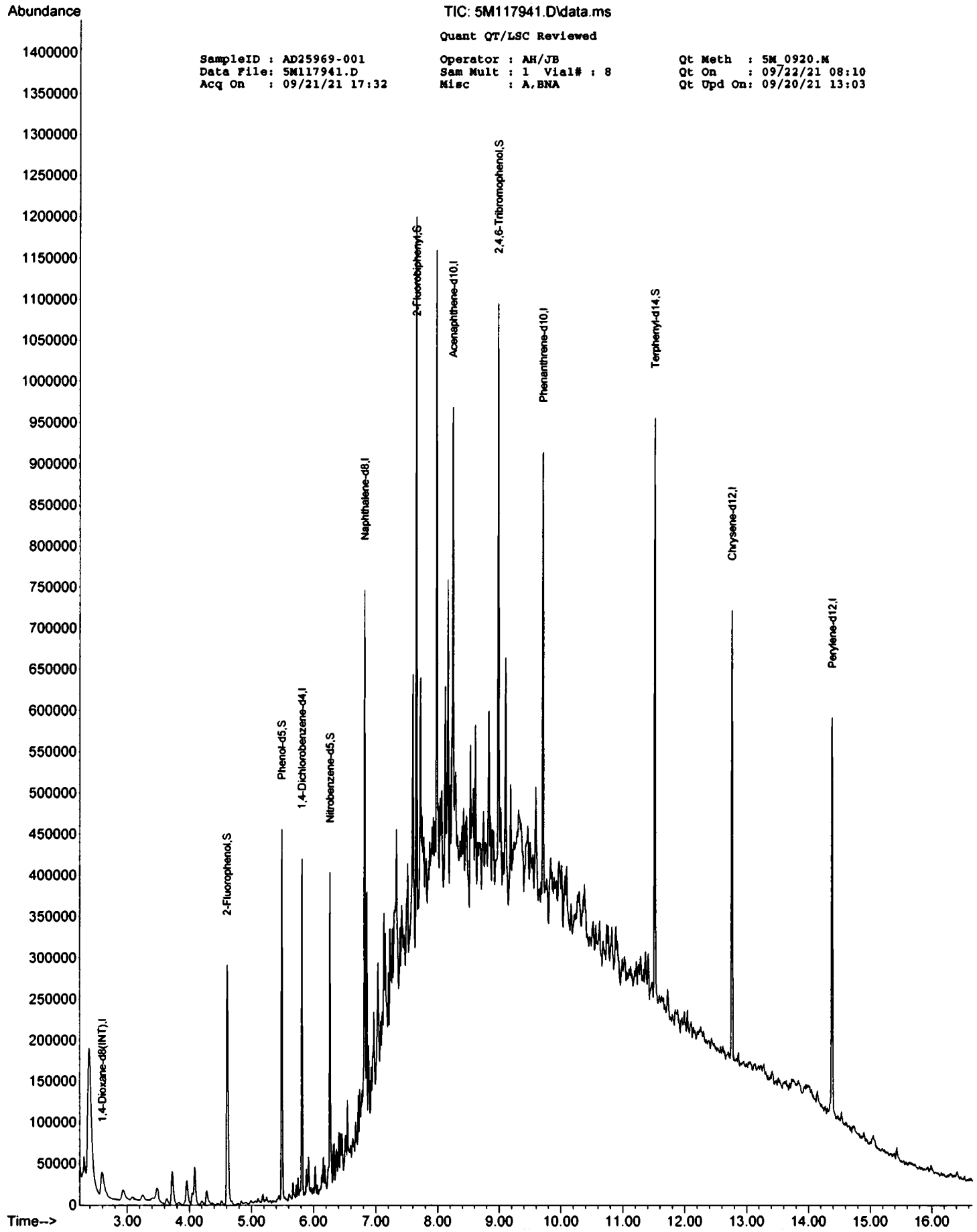
Quantitation Report (QT/LSC Reviewed) **1091738 1214**

SampleID : AD25969-001 Operator : AH/JB Qt Meth : 5M_0920.M
Data File: 5M117941.D Sam Mult : 1 Vial# : 8 Qt On : 09/22/21 08:10
Acq On : 09/21/21 17:32 Misc : A,BNA Qt Upd On: 09/20/21 13:03

Data Path : G:\GcMsData\2021\GCMS_5\Data\09-21-21\
Qt Path : G:\GCMSDATA\2021\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 7) 1,4-Dioxane-d8(INT) | 2.595 | 96 | 44306 | 40.00 | ng | 0.00 |
| 21) 1,4-Dichlorobenzene-d4 | 5.817 | 152 | 61798 | 40.00 | ng | 0.00 |
| 31) Naphthalene-d8 | 6.821 | 136 | 231744 | 40.00 | ng | 0.00 |
| 50) Acenaphthene-d10 | 8.253 | 164 | 115934 | 40.00 | ng | 0.00 |
| 77) Phenanthrene-d10 | 9.716 | 188 | 217902 | 40.00 | ng | 0.00 |
| 91) Chrysene-d12 | 12.767 | 240 | 210467 | 40.00 | ng | 0.00 |
| 103) Perylene-d12 | 14.386 | 264 | 225039 | 40.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 11) 2-Fluorophenol | 4.609 | 112 | 151154 | 95.12 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 95.12% | | | |
| 16) Phenol-d5 | 5.491 | 99 | 164074 | 86.20 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 86.20% | | | |
| 32) Nitrobenzene-d5 | 6.265 | 128 | 48006 | 60.71 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 121.42% | | | |
| 55) 2-Fluorobiphenyl | 7.660 | 172 | 234602 | 62.19 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 124.38% | | | |
| 80) 2,4,6-Tribromophenol | 8.990 | 330 | 74226 | 142.88 | ng | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 142.88% | | | |
| 94) Terphenyl-d14 | 11.522 | 244 | 222500 | 70.01 | ng | 0.00 |
| Spiked Amount 50.000 | | | Recovery = 140.02% | | | |
| **Target Compounds** | | | | | | Qvalue |

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


Abundance
TIC: 5M117941.D\data.ms
Quant QT/LSC Reviewed
SampleID : AD25969-001
Data File: 5M117941.D
Acq On : 09/21/21 17:32
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 5M_0920.M
Qt On : 09/22/21 08:10
Qt Upd On: 09/20/21 13:03
1,4-Dioxane-d8(INT).I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

# GC/MS Base Neutral/Acid Extractable Data
# Logbook Data

QC94959

Hampton-Clarke

# Extraction of Semi-volatile – Aqueous
## Method 3510 C

Method Blank No. WMB- _____
Blank Spike (MBS): _____
Start extraction time: 6:30
End extraction time: 4:30
Recirculator: Start temp: 12.0°C
End temp: 12.0°C

Date: 09/18/21
Matrix Spike: 94959
Shaker Used: 1, 4, 6, 7
Condenser used: 6, 7
Condenser Flow: 2500 CCM

| Sample Number | # In Batch | Initial Volume | Final Volume | pH Verification NaOH ≥12 | pH Verification H2SO4 <2 | Fraction BN | Fraction BNA | Fraction AE | Extracted By/ Comments Extract Fluid | Ext. by | TCLP QC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MB 94959 | X | 1000ml | 1.0ml | X | X | | X | | | JHR | |
| MBS 94959 | | | | | | | | | | | |
| MS 260853-042 | | | | | | | | | | | |
| MSD 260853-044 | | | | | | | | | | | |
| AD 260853-040 | 1 | | | | | | | | | | |
| -001 | 2 | | | | | | | | | | |
| -002 | 3 | | | | | | | | | | |
| -003 | 4 | | | | | | | | | | |
| -005 | 5 | | | | | | | | | | |
| -006 | 6 | | | | | | | | | | |
| -006 | 7 | | | | | | | | | | |
| -009 | 8 | | | | | | | | | | |
| -011 | 9 | | | | | | | | | | |
| -012 | 10 | | | | | | | | | | |
| -014 | 11 | | | | | | | | | | |
| -016 | 12 | | | | | | | | | | |
| -018 | 13 | | | | | | | | | | |
| -021 | 14 | | | | | | | | | | |
| -023 | 15 | | | | | | | | | | |
| -026 | 16 | | | | | | | | | | |
| -027 | 17 | | | | | | | | | | |
| -028 | 18 | | | | | | | | | | |
| -030 | 19 | | | | | | | | | | |

**Spike Standard**

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 2000 | 14114 | BN Mix |
| | | 14066 | Acid comp. |
| | | 14057 | Toxic Mix |
| | | 355569 | CLP Mix |

**Surrogate Standard**

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 1000/2000 | 354899 | BN Surrog. |

Reagent Lots: MeCl2 14160 Acetone _____ Hexane _____ Na2SO4 14142

Other _____

Relinquished By: JHR Date: 9/17/21 JHR 9/18/21

Received By: BY Date: 9/19/21

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QC94984

Hampton-Clarke

# Extraction of Semi-volatile – Aqueous
## Method 3510 C

Method Blank No. WMB-_____
Blank Spike (MBS): _____
Start extraction time: 10:08 AM
End extraction time: 4:41 PM
Recirculator: Start temp: 14:1 / 14:2
End temp: 14:0 / 14:2

Date: 9/21/21
Matrix Spike: 94984
Shaker Used: 2, 3, 4
Condenser used: 1, 2, 5
Condenser Flow: 2500 CCM

| Sample Number | # In Batch | Initial Volume | Final Volume | pH Verification NaOH ≥12 | pH Verification H2SO4 <2 | Fraction BN | Fraction BNA | Fraction AE | Extracted By/ Comments Extract Fluid | Ext. by | TCLP QC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 94984 | x | 1000ml | 1ml | x | x | | x | | | LV | |
| MS 94984 | x | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 25969-001 | x | 500ml | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| MB 25969-001 | x | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 25968-001 | 1 | ↓ | 0.5ml | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -002 | 2 | 1000ml | 1ml | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -003 | 3 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -004 | 4 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -005 | 5 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -006 | 6 | 900ml | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -007 | 7 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| BA 25976-011 | 8 | 1000ml | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| BA 26083-019 | 9 | 950ml | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| BA 25961-001 | 10 | 1000ml | ↓ | ↓ | ↓ | x | ↓ | ↓ | ↓ | ↓ | ↓ |
| -002 | 11 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -003 | 12 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -004 | 13 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -005 | 14 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -006 | 15 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -007 | 16 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| BA 25973-001 | 17 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -002 | 18 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -003 | 19 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| -004 | 20 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |

**Spike Standard**

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 2000 | 14144 | BN MIX |
| | | 14066 | Acid COMP |
| | | 14052 | Toxic MIX |
| | | 25569 | clp MIX |

**Surrogate Standard**

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| ~~50~~ | ~~2000~~ | LV 09/21/21 | |
| 50 | 1000/2000 | 754898 | BN surr |

Reagent Lots: MeCl2 14160 Acetone _____ Hexane _____ Na2SO4 14142

Other _____

Relinquished By: LV Date: 09/21/21

Received By: JY Date: 9/22/21

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QC94960

Hampton-Clarke

# Extraction of Semi-volatile – Aqueous
## Method 3510 C

Method Blank No. WMB- _____ Date: 9/18/24
Blank Spike (MBS): _____ Matrix Spike: 94690
Start extraction time: 9:00 Am Shaker Used: 11
End extraction time: 3:30 pm Condenser used: 7 8
Recirculator: Start temp: 14.2C Condenser Flow: 2000 CCM
End temp: 14.0 C

| Sample Number | # In Batch | Initial Volume | Final Volume | pH Verification NaOH ≥12 | pH Verification H2SO4 <2 | Fraction BN | Fraction BNA | Fraction AE | Extracted By/ Comments Extract Fluid | Ext. by | TCLP QC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MB 94960 | X | 1000ml | 1.0ml | X | X | | X | | | DyL | |
| MBS 94960 | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | | | ↓ | |
| MS 26083-049 | ↓ | 970ml | ↓ | ↓ | ↓ | | ↓ | | | ↓ | |
| MSD 26083-050 | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | | | ↓ | |
| DD 26083-048 | 1 | ↓ | ↓ | ↓ | ↓ | | ↓ | | | ↓ | |
| -046 | 2 | 950ml | ↓ | ↓ | ↓ | | ↓ | | | ↓ | |
| -032 | 3 | ↓ | ↓ | ↓ | ↓ | | ↓ | | | ↓ | |
| -033 | 4 | ↓ | ↓ | ↓ | ↓ | | ↓ | | | ↓ | |
| -035 | 5 | ↓ | ↓ | ↓ | ↓ | | ↓ | | | ↓ | |
| -036 | 6 | ↓ | ↓ | ↓ | ↓ | | ↓ | | | ↓ | |
| -038 | 7 | ↓ | ↓ | ↓ | ↓ | | ↓ | | | ↓ | |

**Spike Standard**

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 2000 | 14114 | BN mix |
| ↓ | ↓ | 14066 | Acid Comp. |
| ↓ | ↓ | 14057 | TOXIC mix |
| ↓ | ↓ | 355569 | CLP mix |

**Surrogate Standard**

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 1000/2000 | 354899 | BN Surro |

Reagent Lots: MeCl2 14110 Acetone _____ Hexane _____ Na2SO4 14142

Other _____

Relinquished By: DyL Date: 9/18/24

Received By: JY Date: 9/19/24

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QC94996

Hampton-Clarke

# Extraction of Semi-volatile – Aqueous
## Method 3510 C

Method Blank No. WMB-_____ Date: 9/22/21
Blank Spike (MBS): _____ Matrix Spike: 94996
Start extraction time: 10:06 AM Shaker Used: 2,3,4
End extraction time: _____ Condenser used: 1,2,5
Recirculator: Start temp: 15:2 Condenser Flow: 2500 CCM
End temp: _____

| Sample Number | # In Batch | Initial Volume | Final Volume | pH Verification NaOH ≥12 | pH Verification H2SO4 <2 | Fraction BN | Fraction BNA | Fraction AE | Extracted By/ Extract Fluid | Comments | Ext. by | TCLP QC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MB 94996 | x | 1050ml | 1ml | x | x | | x | | EFV 353518 | | LV | BA25995 |
| MBS 94996 | x | ↓ | | | | | | | 09/17/21 | | | -002 |
| MS 25995-002 | x | 250ml | | | | | | | | | | |
| MSD 25995-002 | x | | | | | | | | | | | |
| BA 25995-002 | 1 | | | | | | | | 1 | | | 1 |
| -004 | 2 | | | | | | | | 2 | | | 2 |
| -006 | 3 | | | | | | | | 3 | | | 3 |
| EFV 353518 | x | ↓ | | | | | | | | | | x |
| BA25939-001 | 4 | 1000ml | | | | | | | | | | |
| -002 | 5 | | | | | | | | | | | |
| -003 | 6 | | | | | | | | | | | |
| -004 | 7 | | | | | | | | | | | |
| -005 | 8 | ↓ | | | | | | | | | | |
| -006 | 9 | 900ml | | | | | | | | | | |
| BA25045-002 | 10 | 1000ml | | | | | | | | | | |
| -003 | 11 | | | | | | | | | | | |
| -004 | 12 | | | | | | | | | | | |
| -005 | 13 | 900ml | | | | | | | | | | |
| -006 | 14 | 1000ml | | | | | | | | | | |
| -007 | 15 | | | | | | | | | | | |
| -008 | 16 | ↓ | | | | | ↓ | | | | ↓ | |
| 26083-019 | R | 906ml | ↓ | x | | x | | | | | | |

### Spike Standard

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 2000 | 141114 | BN Mix |
| | | 140466 | Acid Comp |
| | | 140457 | Toxic Mix |
| | | 755569 | CLP Mix |

### Surrogate Standard

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 1000/2000 | 354989 | BN Surr |

Reagent Lots: MeCl2 141160 Acetone _____ Hexane _____ Na2SO4 141192

Other _____

Relinquished By: LV Date: 09/22/21

Received By: JY Date: 9/22/21

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# RUN LOG

Instrument: GCMS_7 Year: 2021
Analyst: AH/JB

1-1-7M116106

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 7M116106. | CAL DFTPP | Ee1=2.2;Ed1=0.86; | OK, V-352690 | JB 08/23/21 | | Aqueous | 1 | 1 | | 08/23 08:59 |
| 7M116107. | CAL BNA@196PPM | | OK, V-356020 | JB 08/23/21 | | Aqueous | 1 | 1 | 625\8270 | 08/23 09:26 |
| 7M116108. | CAL BNA@160PPM | | OK, V-356019 | JB 08/23/21 | | Aqueous | 1 | 1 | 625\8270 | 08/23 09:50 |
| 7M116109. | CAL BNA@120PPM | | OK, V-356018 | JB 08/23/21 | | Aqueous | 1 | 1 | 625\8270 | 08/23 10:14 |
| 7M116110. | CAL BNA@80PPM | | OK, V-356017 | JB 08/23/21 | | Aqueous | 1 | 1 | 625\8270 | 08/23 10:38 |
| 7M116111. | CAL BNA@20PPM | | OK, V-356015 | JB 08/23/21 | | Aqueous | 1 | 1 | 625\8270 | 08/23 11:02 |
| 7M116112. | CAL BNA@10PPM | | OK, V-356014 | JB 08/23/21 | | Aqueous | 1 | 1 | 625\8270 | 08/23 11:26 |
| 7M116113. | CAL BNA@2PPM | | OK, V-356022 | JB 08/23/21 | | Aqueous | 1 | 1 | 625\8270 | 08/23 11:50 |
| 7M116114. | CAL BNA@0.5PPM | | OK, V-356023 | JB 08/23/21 | | Aqueous | 1 | 1 | 625\8270 | 08/23 12:13 |
| 7M116115. | CAL BNA@50PPM | | OK, V-356016 | JB 08/23/21 | | Aqueous | 1 | 1 | 625\8270 | 08/23 12:37 |
| 7M116116. | ICV BNA@50PPM | | OK, V-354928 | JB 08/23/21 | | Aqueous | 1 | 1 | 625\8270 | 08/23 13:04 |
| 7M116117. | WMB94706 | | OK | JB 08/23/21 | | Aqueous | 1 | 1 | 625\8270 | 08/23 13:29 |
| 7M116118. | AD25492-007 | | OK, DOUBLE SURR | JB 08/23/21 | BN15-8270 | Aqueous | 0.5 | 1 | 8270E | 08/23 13:53 |
| 7M116119. | AD25478-001 | | OK | JB 08/23/21 | BN-8270 | Aqueous | 1 | 1 | 8270E | 08/23 14:17 |
| 7M116120. | AD25478-002 | | OK | JB 08/24/21 | BN-8270 | Aqueous | 1 | 1 | 8270E | 08/23 14:41 |
| 7M116121. | AD25478-003 | | OK | JB 08/24/21 | BN-8270 | Aqueous | 1 | 1 | 8270E | 08/23 15:05 |
| 7M116122. | AD25478-004 | | OK | JB 08/24/21 | BN-8270 | Aqueous | 1 | 1 | 8270E | 08/23 15:29 |
| 7M116123. | AD25513-001 | | OK | JB 08/24/21 | BN-8270 | Aqueous | 1 | 1 | 8270E | 08/23 15:53 |
| 7M116124. | AD25513-002 | | OK | JB 08/24/21 | BN-8270 | Aqueous | 1 | 1 | 8270E | 08/23 16:17 |
| 7M116125. | AD25513-003 | Sb8 | RE-EXTRACT | JB 08/24/21 | BN-8270 | Aqueous | 1 | 1 | 8270E | 08/23 16:41 |
| 7M116126. | AD25513-004 | | OK | JB 08/24/21 | BN-8270 | Aqueous | 1 | 1 | 8270E | 08/23 17:04 |
| 7M116127. | AD25513-005 | | OK | JB 08/24/21 | BN-8270 | Aqueous | 1 | 1 | 8270E | 08/23 17:28 |
| 7M116128. | AD25513-006 | | OK | JB 08/24/21 | BN-8270 | Aqueous | 1 | 1 | 8270E | 08/23 17:51 |
| 7M116129. | SMB94710(MS) | | OK SMB94710 | JB 08/24/21 | | Soil | 1 | 1 | 8270E | 08/23 18:15 |
| 7M116130. | SMB94710 | | OK | JB 08/24/21 | | Soil | 1 | 1 | 8270E | 08/23 18:38 |
| 7M116131. | AD24958-004 | Eo | OK SMB94710 | JB 08/24/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 08/23 19:01 |
| 7M116132. | AD25541-004 | | OK | JB 08/24/21 | BNA-8270 | Soil | 1 | 1 | 8270E | 08/23 19:25 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| An | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| iR8m | Blank 600 series missing | Fln | Tclp/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for anh |
| R8m | Blank 8000 series missing | Flo | Tclp Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Rnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvm | Eval Mix missing drll or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rnd Out on MsMsd (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rnd Out on MsMsd (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C6f | 600 series sample/blank dirl not have passing cal | Is | Initial Cal Not Checked | Rlo | Can't Calculate Drift |
| C8f | 8000 series sample/blank dirl not have passing cal | Iv | Prob with calmt csv for init calibration chek rls | S6 | 600 series surrogate out |
| Cme | Endino Cal missing for sample (8000 series) | Iw | Initial cal warning. Ini cal file <> method | S8 | 8000 series surrogate out |
| Co | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

1-1-7M116559

Instrument: GCMS_7 Year: 2021
Analyst: AH/JB

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 7M116559. | CAL DFTPP | Ee1=2.9;Ed1=1.5; | ok, v-357189 | JB 09/20/21 | | Aqueous | 1 | 1 | | 09/19 11:21 |
| 7M116560. | CAL BNA@50PPM | | ok, v-357592 | JB 09/20/21 | | Aqueous | 1 | 1 | 625\8270 | 09/19 12:05 |
| 7M116561. | SMB94948(MS) | | OK SMB94948 | JB 09/20/21 | | Soil | 1 | 1 | 8270E | 09/19 13:05 |
| 7M116562. | SMB94958(MS) | | OK SMB94958 | JB 09/20/21 | | Soil | 1 | 1 | 8270E | 09/19 13:28 |
| 7M116563. | SMB94948 | | OK | JB 09/20/21 | | Soil | 1 | 1 | 8270E | 09/19 13:52 |
| 7M116564. | SMB94958 | | OK | JB 09/20/21 | | Soil | 1 | 1 | 8270E | 09/19 14:15 |
| 7M116565. | AD25972-001 | | OK | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 14:39 |
| 7M116566. | AD25972-003(MS) | | OK SMB94958 | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 15:02 |
| 7M116567. | AD25972-003(MSD) | | OK SMB94958 | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 15:26 |
| 7M116568. | WMB94959 | | OK | JB 09/20/21 | | Aqueous | 1 | 1 | 625\8270 | 09/19 15:50 |
| 7M116569. | WMB94960 | Sb6Sb8 | OK | JB 09/20/21 | | Aqueous | 1 | 1 | 625\8270 | 09/19 16:13 |
| 7M116570. | AD25972-002 | | OK | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 16:37 |
| 7M116571. | AD25972-003 | | OK SMB94958 | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 17:01 |
| 7M116572. | AD25972-004 | | OK | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 17:25 |
| 7M116573. | AD25972-005 | | OK | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 17:48 |
| 7M116574. | AD25862-006 | Esm | OK | JB 09/20/21 | ERROR | Soil | 1 | 1 | 8270E | 09/19 18:12 |
| 7M116575. | AD26041-002 | | OK | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 18:36 |
| 7M116576. | AD26041-003 | | OK | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 18:59 |
| 7M116577. | AD26041-004 | | OK | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 19:23 |
| 7M116578. | AD26041-005 | | OK | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 19:47 |
| 7M116579. | AD26041-006 | | OK | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 20:10 |
| 7M116580. | AD26041-007 | | OK | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 20:34 |
| 7M116581. | AD26041-008 | | OK | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 20:58 |
| 7M116582. | AD26041-009 | | OK | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 21:21 |
| 7M116583. | AD26041-010 | | OK | JB 09/20/21 | BNPAH-8270 | Soil | 1 | 1 | 8270E | 09/19 21:45 |
| 7M116584. | AD26083-032 | | OK | JB 09/20/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/19 22:08 |
| 7M116585. | AD26083-033 | | OK | JB 09/20/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/19 22:32 |
| 7M116586. | AD26083-035 | | OK | JB 09/20/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/19 22:56 |
| 7M116587. | AD26083-036 | | OK | JB 09/20/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/19 23:19 |
| 7M116588. | AD26083-038 | Ti8 | RR | JB 09/20/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/19 23:43 |
| 7M116589. | AD26083-046 | Ti8 | RR | JB 09/20/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 00:06 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| B6m | Blank 600 series missing | Ftn | Tnln/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for anth |
| B8m | Blank 8000 series missing | Fto | Tnln Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C1A | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvm | Eval Mix missing dtl or endrin |
| C1A | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rnd Out on Mskkd (col1 and or col2) 600 series |
| C2A | Calibration Column 2 Out (600 Series) | I1A I2A | Initial cal 600 series failed Column 1 and or 2 | R1A R2A | Rnd Out on Mskkd (col1 and or col2) 8000 series |
| C2A | Calibration Column 2 Out (8000 Series) | I1A I2A | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C6f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rtn | Can't Calculate Drift |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Pmb with calmt csv for init calibration chek rls | S6 | 600 series surrogate out |
| Cme | Ending Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | S8 | 8000 series surrogate out |
| Co | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samp | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

1-1-5M117919

Instrument: GCMS_5 Year: 2021
Analyst: AH/JB

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 5M117919. | CAL DFTPP | Ee1=1.1;Ed1=0.54; | OK, V-357189 | JB 09/23/21 | | Aqueous | 1 | 1 | | 09/20 08:21 |
| 5M117920. | CAL BNA@10PPM | | OK, V-357819 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 08:44 |
| 5M117921. | CAL BNA@2PPM | | OK, V-357827 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 09:08 |
| 5M117922. | CAL BNA@196PPM | | OK, V-357825 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 09:31 |
| 5M117923. | CAL BNA@160PPM | | OK, V-357824 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 09:54 |
| 5M117924. | CAL BNA@120PPM | | OK, V-357823 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 10:17 |
| 5M117925. | CAL BNA@80PPM | | OK, V-357822 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 10:41 |
| 5M117926. | CAL BNA@20PPM | IsC16C18 | RR | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 11:05 |
| 5M117927. | CAL BNA@0.5PPM | | OK, V-357828 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 11:28 |
| 5M117928. | CAL BNA@50PPM | | OK, V-357821 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 11:52 |
| 5M117929. | CAL BNA@20PPM | | OK, V-357820 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 12:46 |
| 5M117930. | ICV BNA@50PPM | | OK, V-357830 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 13:37 |
| 5M117931. | WMB94967 | | OK, SURRO. SPIKED DOUBLE | AH 09/21/21 | | Aqueous | 0.5 | 1 | 625\8270 | 09/20 14:32 |
| 5M117932. | WMB94967(MS) | | OK, SURRO. SPIKED DOUBLE WMB94967 | AH 09/21/21 | | Aqueous | 0.5 | 1 | 625\8270 | 09/20 14:55 |
| 5M117933. | AD26041-001 | | OK,OK, SURRO. SPIKED DOUBLE | JB 09/20/21,AH 09/21/21,AH 09/21/21 | BNPAH-8270 | Aqueous | 0.5 | 1 | 8270E | 09/20 15:19 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| BBm | Blank 600 series missing | Ftn | Tcln/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for enh |
| BBm | Blank 8000 series missing | Fto | Tcln Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvm | Eval Mix missing drift or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R1R R2R | Rnd Out on MeMed (col1 and or col2) 600 series |
| C2R | Calibration Column 2 Out (600 Series) | I1R I2R | Initial cal 600 series failed Column 1 and or 2 | R1R R2R | Rnd Out on MeMed (col1 and or col2) 8000 series |
| C2R | Calibration Column 2 Out (8000 Series) | I1R I2R | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| CAf | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rtn | Can't Calculate Drift |
| CAf | 8000 series sample/blank did not have passing cal | Iv | Prob with calmd.csv for init calibration chek ds | SR | 600 series surrogate out |
| Cme | Ending Cal missing for sample (8000 series) | Iw | Initial cal warning. Ini.cal file <> method | SR | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GCMS_10 Year: 2021
Analyst: AH/JB

1-1-10M87364

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 10M87364. | CAL DFTPP | Ee1=1.4;Ed1=0.68; | OK, V-357189 | JB 09/23/21 | | Aqueous | 1 | 1 | | 09/20 09:05 |
| 10M87365. | CAL BNA@10PPM | | OK, V-357819 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 09:29 |
| 10M87366. | CAL BNA@2PPM | | OK, V-357827 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 09:51 |
| 10M87367. | CAL BNA@196PPM | | OK, V-357825 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 10:13 |
| 10M87368. | CAL BNA@160PPM | | OK, V-357824 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 10:35 |
| 10M87369. | CAL BNA@120PPM | | OK, V-357823 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 10:57 |
| 10M87370. | CAL BNA@80PPM | | OK, V-357822 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 11:19 |
| 10M87371. | CAL BNA@20PPM | | OK, V-357820 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 11:42 |
| 10M87372. | CAL BNA@0.5PPM | | OK, V-357828 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 12:04 |
| 10M87373. | CAL BNA@50PPM | | OK, V-357821 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 12:26 |
| 10M87374. | ICV BNA@50PPM | Is | OK, V-357830 | JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 13:25 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fp | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| An | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| BAm | Blank 600 series missing | Ftn | Tcln/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for enh |
| BRm | Blank 8000 series missing | Fto | Tcln Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C1A | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvm | Eval Mix missing drf or endrin |
| C1R | Calibration Column 1 Out (8000 Series) | Hn | Sample Analyzed outside of hold time | R1A R2A | Rsd Out on MsMed (col1 and or col2) 600 series |
| C2A | Calibration Column 2 Out (600 Series) | I1A I2A | Initial cal 600 series failed Column 1 and or 2 | R1R R2R | Rsd Out on MsMed (col1 and or col2) 8000 series |
| C2R | Calibration Column 2 Out (8000 Series) | I1R I2R | Initial cal 8000 series failed Column 1 and or 2 | Rn | Retention Time Out Or %Diff Out |
| CAf | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rtn | Can't Calculate Drift |
| CRf | 8000 series sample/blank did not have passing cal | Iv | Pmb with calmd csv for init calibration chek dfs | SA | 600 series surrogate out |
| Cme | Endrin Cal missing for sample (8000 series) | Iw | Initial cal warning: Ini cal file <> method | SR | 8000 series surrogate out |
| Co | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GCMS_10Year: 2021
Analyst: AH/JB

1-1-10M87375

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 10M87375. | CAL DFTPP | Ee1=2.2;Ed1=1.5; | OK, V-,OK, V-357189 | JB 09/20/21,JB 09/23/21,JB 09/23/21 | | Aqueous | 1 | 1 | | 09/20 13:47 |
| 10M87376. | CAL BNA@50PPM | | OK, V-,OK, V-357821 | JB 09/20/21,JB 09/23/21,JB 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/20 14:13 |
| 10M87377. | AD26083-001 | | OK | JB 09/20/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 14:38 |
| 10M87378. | AD26083-002 | | OK | JB 09/20/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 15:00 |
| 10M87379. | AD26083-003 | | OK | JB 09/20/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 15:23 |
| 10M87380. | AD26083-005 | | OK | JB 09/20/21,AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 15:45 |
| 10M87381. | AD26083-006 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 16:07 |
| 10M87382. | AD26083-008 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 16:29 |
| 10M87383. | AD26083-009 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 16:51 |
| 10M87384. | AD26083-011 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 17:14 |
| 10M87385. | AD26083-012 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 17:36 |
| 10M87386. | AD26083-014 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 17:58 |
| 10M87387. | AD26083-016 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 18:20 |
| 10M87388. | AD26083-018 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 18:43 |
| 10M87389. | AD26083-021 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 19:05 |
| 10M87390. | AD26083-023 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 19:27 |
| 10M87391. | AD26083-026 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 19:49 |
| 10M87392. | AD26083-027 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 20:11 |
| 10M87393. | AD26083-028 | Sa8 | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 20:33 |
| 10M87394. | AD26083-030 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 20:55 |
| 10M87395. | AD26083-038 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 21:17 |
| 10M87396. | AD26083-040 | | OK WMB94960 | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 625\8270 | 09/20 21:39 |
| 10M87397. | AD26083-046 | | OK | AH 09/21/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/20 22:01 |
| 10M87398. | AD26083-048 | | OK WMB94960 | AH 09/21/21,AH 09/22/21,AH 09/22/21 | BNA-8270 | Aqueous | 1 | 1 | 625\8270 | 09/20 22:23 |
| 10M87399. | AD26083-049(MS:AM16M18 | | OK WMB94960 | AH 09/22/21 | BNA-8270 | Aqueous | 1 | 1 | 625\8270 | 09/20 22:45 |
| 10M87400. | AD26083-050(MSD:R16R18 | | OK WMB94960 | AH 09/22/21 | BNA-8270 | Aqueous | 1 | 1 | 625\8270 | 09/20 23:07 |
| 10M87401. | AD26083-042(MS:AM16M18 | | OK WMB94959 | AH 09/22/21 | BNA-8270 | Aqueous | 1 | 1 | 625\8270 | 09/20 23:29 |
| 10M87402. | AD26083-044(MSD:R16R18M16M18 | | OK WMB94959 | AH 09/22/21 | BNA-8270 | Aqueous | 1 | 1 | 625\8270 | 09/20 23:51 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| An | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | C3RN | Warning c30/c20 not checked |
| B8m | Blank 8000 series missing | Ftn | Tclp/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for anh |
| B8m | Blank 8000 series missing | Fto | Tclp Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C1A | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvm | Eval Mix missing drift or endrin |
| C1B | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R1A R2A | Rrpt Out on Mid/lvl (col1 and or col2) 600 series |
| C2A | Calibration Column 2 Out (600 Series) | I1A I2A | Initial cal 600 series failed Column 1 and or 2 | R1A R2A | Rrpt Out on Mid/lvl (col1 and or col2) 8000 series |
| C2B | Calibration Column 2 Out (8000 Series) | I1B I2B | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C8f | 600 series sample/blank did not have passing cal | Ia | Initial Cal Not Checked | Rto | Can't Calculate Drift |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Prob with calmd csv for init calibration chek rts | S6 | 600 series surrogate out |
| Cme | Endrop Cal missing for sample (8000 series) | Iw | Initial cal warning. Ini cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GCMS_10 Year: 2021
Analyst: AH/JB

1-1-10M87403

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 10M87403. | CAL DFTPP | Ee1=1.6;Ed1=0.82; | OK, V-357189 | jb 09/23/21 | | Aqueous | 1 | 1 | | 09/21 09:42 |
| 10M87404. | CAL BNA@50PPM | | OK, V-357821 | jb 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/21 10:04 |
| 10M87405. | 972 | | RR | AH 09/21/21 | | Oil/Other | 1 | 1 | 8270E | 09/21 10:42 |
| 10M87406. | 72(TEST) | | RR | AH 09/21/21 | | Oil/Other | 1 | 1 | 8270E | 09/21 11:04 |
| 10M87407. | OMB94977 | | OK | AH 09/21/21 | | OIL/OTH | 1 | 1 | 8270E | 09/21 11:39 |
| 10M87408. | OMB94977(MS) | | OK, SURRO. SPIKED DOUBLE OMB94977 | AH 09/21/21 | | OIL/OTH | 0.5 | 1 | 8270E | 09/21 12:01 |
| 10M87409. | WMB94959(MS) | Sb6Sb8M18 | OK WMB94959 | AH 09/21/21 | | Aqueous | 1 | 1 | 625\8270 | 09/21 12:23 |
| 10M87410. | WMB94960(MS) | M16M18 | OK WMB94960 | AH 09/21/21 | | Aqueous | 1 | 1 | 625\8270 | 09/21 12:45 |
| 10M87411. | WMB94960 | | OK | AH 09/21/21 | | Aqueous | 1 | 1 | 625\8270 | 09/21 13:39 |
| 10M87412. | WMB94959 | | OK | AH 09/21/21 | | Aqueous | 1 | 1 | 625\8270 | 09/21 14:01 |
| 10M87413. | OMB94972 | | OK | AH 09/21/21 | | Oil/Other | 1 | 1 | 8270E | 09/21 14:46 |
| 10M87414. | OMB94972(MS) | | OK OMB94972 | AH 09/21/21,AH 09/22/21,AH 09/22/21 | | Oil/Other | 1 | 1 | 8270E | 09/21 15:19 |
| 10M87415. | WMB94984 | Sb6Sb8 | OK | AH 09/22/21 | | Aqueous | 1 | 1 | 625\8270 | 09/21 16:09 |
| 10M87416. | AD25961-004 | | ON HOLD | AH 09/22/21 | BN15-8270 | Aqueous | 1 | 1 | 8270E | 09/21 16:48 |
| 10M87417. | AD25961-005 | | ON HOLD | AH 09/22/21 | BN15-8270 | Aqueous | 1 | 1 | 8270E | 09/21 17:11 |
| 10M87418. | AD25961-006 | | ON HOLD | AH 09/22/21 | BN15-8270 | Aqueous | 1 | 1 | 8270E | 09/21 17:33 |
| 10M87419. | AD25961-007 | Sb8 | ON HOLD | AH 09/22/21 | BN15-8270 | Aqueous | 1 | 1 | 8270E | 09/21 17:55 |
| 10M87420. | AD25973-001 | | OK | AH 09/22/21 | BN15-8270 | Aqueous | 1 | 1 | 8270E | 09/21 18:17 |
| 10M87421. | AD25973-002 | | OK | AH 09/22/21 | BN15-8270 | Aqueous | 1 | 1 | 8270E | 09/21 18:40 |
| 10M87422. | AD25973-003 | | OK | AH 09/22/21 | BN15-8270 | Aqueous | 1 | 1 | 8270E | 09/21 19:02 |
| 10M87423. | AD25973-004 | | OK | AH 09/22/21 | BN15-8270 | Aqueous | 1 | 1 | 8270E | 09/21 19:24 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Ea | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Esm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| BBm | Blank 600 series missing | Etn | Tcln/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for anh |
| BBm | Blank 8000 series missing | Eto | Tcln Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C1B | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvm | Eval Mix missing drlt or endrin |
| C1B | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R1B R2B | Rpd Out on MsMsd (col1 and or col2) 600 series |
| C2B | Calibration Column 2 Out (600 Series) | I1B I2B | Initial cal 600 series failed Column 1 and or 2 | R1B R2B | Rpd Out on MsMsd (col1 and or col2) 8000 series |
| C2B | Calibration Column 2 Out (8000 Series) | I1B I2B | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| CAf | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rto | Can't Calculate Drift |
| CAf | 8000 series sample/blank did not have passing cal | Iv | Pmb with calmd csv for init calibration chek rlts | S6 | 600 series surrogate out |
| Cma | Endion Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GCMS_5 Year: 2021
Analyst: AH/JB

1-1-5M117934

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 5M117934. | CAL DFTPP | Ee1=2;Ed1=16; | OK, V-357189 | jb 09/23/21 | | Aqueous | 1 | 1 | | 09/21 09:37 |
| 5M117935. | CAL BNA@50PPM | | OK, V-357821 | jb 09/23/21 | | Aqueous | 1 | 1 | 625\8270 | 09/21 10:26 |
| 5M117936. | WMB94984 | Sb6Sb8 | OK | AH 09/21/21 | | Aqueous | 1 | 1 | 625\8270 | 09/21 14:27 |
| 5M117937. | AD25976-011 | | OK | AH 09/21/21,AH 09/22/21,AH 09/22/21,AH 09/22/21,AH | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/21 14:50 |
| 5M117938. | WMB94984(MS) | | OK WMB94984 | AH 09/21/21,AH 09/22/21,AH 09/22/21,AH 09/22/21,AH | | Aqueous | 1 | 1 | 625\8270 | 09/21 15:14 |
| 5M117939. | AD25969-001(MS) | Sb6Sa6Sb8Sa8M16M18 | OK WMB94984 | AH 09/22/21 | BNA25-8270 | Aqueous | 1 | 1 | 625\8270 | 09/21 16:45 |
| 5M117940. | AD25969-001(MSD) | Sa6Sb6Sa8Sb8R16R18M16M18 | OK WMB94984 | AH 09/22/21 | BNA25-8270 | Aqueous | 1 | 1 | 625\8270 | 09/21 17:09 |
| 5M117941. | AD25969-001 | | OK | AH 09/22/21 | BNA25-8270 | Aqueous | 1 | 1 | 625\8270 | 09/21 17:32 |
| 5M117942. | AD25969-002 | Sb8Sa8 | RR | AH 09/22/21 | BNA25-8270 | Aqueous | 1 | 1 | 8270E | 09/21 17:56 |
| 5M117943. | AD25969-003 | Sa8Sb8 | RR | AH 09/22/21 | BNA25-8270 | Aqueous | 1 | 1 | 8270E | 09/21 18:20 |
| 5M117944. | AD25969-004 | Sb8Sa8 | RR | AH 09/22/21 | BNA25-8270 | Aqueous | 1 | 1 | 8270E | 09/21 18:44 |
| 5M117945. | AD25969-005 | | OK | AH 09/22/21 | BNA25-8270 | Aqueous | 1 | 1 | 8270E | 09/21 19:08 |
| 5M117946. | AD25969-006 | Sa8 | OK | AH 09/22/21 | BNA25-8270 | Aqueous | 1 | 1 | 8270E | 09/21 19:31 |
| 5M117947. | AD25969-007 | Sb8Sa8 | RR | AH 09/22/21 | BNA25-8270 | Aqueous | 1 | 1 | 8270E | 09/21 19:55 |
| 5M117948. | AD26083-019 | Sa8 | RE EXTRACT | AH 09/22/21 | BNA-8270 | Aqueous | 1 | 1 | 8270E | 09/21 20:18 |
| 5M117949. | AD25961-001 | | ON HOLD | AH 09/22/21 | BN15-8270 | Aqueous | 1 | 1 | 8270E | 09/21 20:42 |
| 5M117950. | AD25961-002 | | ON HOLD | AH 09/22/21 | BN15-8270 | Aqueous | 1 | 1 | 8270E | 09/21 21:05 |
| 5M117951. | AD25961-003 | Sb8 | ON HOLD | AH 09/22/21 | BN15-8270 | Aqueous | 1 | 1 | 8270E | 09/21 21:29 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Eo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Exm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| B6m | Blank 600 series missing | Etn | Tnbr/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for enh |
| B8m | Blank 8000 series missing | Eto | Tnbr Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Ev | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C1A | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvm | Eval Mix missing drlt or endrin |
| C1A | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R1A R2A | Rnd Out on MidMed (col1 and or col2) 600 series |
| C2A | Calibration Column 2 Out (600 Series) | I1A I2A | Initial cal 600 series failed Column 1 and or 2 | R1A R2A | Rnd Out on MidMed (col1 and or col2) 8000 series |
| C2A | Calibration Column 2 Out (8000 Series) | I1A I2A | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| CAf | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rto | Can't Calculate Drift |
| CAf | 8000 series sample/blank did not have passing cal | Iv | Pmb with calmd cav for init calibration chek rfs | S6 | 600 series surrogate out |
| Cme | Endino Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a sampl | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 14057

| Description |
|---|
| Toxic Substances Mix #2 |

ApprovedBy: akmal
ApproveDate: 07/09/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Accu Standard | Z-014E-PAK | 219081478-01 | 07/09/21 | 11/22/22 | Hamid, Akmal | 10 | 1ML | 2000 | PPM |

## Veritech Control/Receipt Number: 14066

| Description |
|---|
| Acid Comp. Mix |

ApprovedBy: akmal
ApproveDate: 07/16/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ACCUSTANDAR | CLP-HC-A-R-PAK | 221061284 | 07/15/21 | 06/16/24 | Hamid, Akmal | 20 | 1ml | 2000 | PPM |

## Veritech Control/Receipt Number: 14114

| Description |
|---|
| Base/Neutral Composite Mix |

ApprovedBy: akmal
ApproveDate: 08/06/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| AccuStandard | CLP-HC-BN-PAK | 219121357-03 | 08/05/21 | 09/03/22 | Hamid, Akmal | 10 | 1ML | 2000 | PPM |

## Veritech Control/Receipt Number: 14142

| Description |
|---|
| sodium sulfate |

ApprovedBy: akmal
ApproveDate: 08/19/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fermont | 6639 | 029201 | 08/17/21 | 08/16/26 | Lopez, Jose | 6 | 100L | neat | neat |

## Veritech Control/Receipt Number: 14160

| Description |
|---|
| Dichloromethane |

ApprovedBy: akmal
ApproveDate: 09/02/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | DA1431-001 | 21060637 | 08/31/21 | 07/20/23 | Lopez, Jose | 100 | 4L | neat | neat |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-334972

Prepared By: Hamid, Akmal
Description: BNA-6 MIX
Prep Date: 9/17/2020
Expiration Date: 9/17/2021
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/21/20
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 12014 | Biphenyl | .05 g | NEAT neat | 5000 ppm |
| 12016 | Coumarin | .05 g | NEAT neat | 5000 ppm |
| 13496 | Octadecane | .05 g | NEAT neat | 5000 ppm |
| 12783 | Pentachloroethane | .05 g | NEAT neat | 5000 ppm |
| 9435 | 1,4-Dimethylnaphthalene | .0518 g | 95 % | 5000 ppm |
| 11201 | N-Decane | .05 g | NEAT neat | 5000 ppm |
| 13117 | Methylene Chloride optima | 10 ml | neat neat | |

## Veritech Lot Number: V-334973

Prepared By: Hamid, Akmal
Description: BNA-7 MIX
Prep Date: 9/17/2020
Expiration Date: 9/17/2021
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/21/20
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13499 | 2,3,4,6-Tetrachlorophenol | .05 g | NEAT neat | 5000 ppm |
| 12014 | Biphenyl | .05 g | NEAT neat | 5000 ppm |
| 12016 | Coumarin | .05 g | NEAT neat | 5000 ppm |
| 13496 | Octadecane | .05 g | NEAT neat | 5000 ppm |
| 12783 | Pentachloroethane | .05 g | NEAT neat | 5000 ppm |
| 9435 | 1,4-Dimethylnaphthalene | .0518 g | 95 % | 5000 ppm |
| 11201 | N-Decane | .05 g | NEAT neat | 5000 ppm |
| 13117 | Methylene Chloride optima | 10 ml | neat neat | |

## Veritech Lot Number: V-335446

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#2A
Prep Date: 9/24/2020
Expiration Date: 9/24/2021
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/28/20
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 12013 | Carbazole | .25 g | NEAT neat | 10000 ppm |
| 12014 | Biphenyl | .25 g | NEAT neat | 10000 ppm |
| 13496 | Octadecane | .25 g | NEAT neat | 10000 ppm |
| 12016 | Coumarin | .25 g | NEAT neat | 10000 ppm |
| 11201 | N-Decane | .25 g | NEAT neat | 10000 ppm |
| 12769 | Pyridine | .25 g | neat neat | 10000 ppm |
| 9435 | 1,4-Dimethylnaphthalene | .263 g | 95 % | 10000 ppm |
| 12783 | Pentachloroethane | .25 g | NEAT neat | 10000 ppm |
| 13437 | acetone | 25 ml | neat neat | |

## Veritech Lot Number: V-336211

Prepared By: Bis, Yolanta
Description: BNA-Pest Mix(Danger)
Prep Date: 10/7/2020
Expiration Date: 10/7/2021
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 10/07/20
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13483 | 4,4'-DDD | .05 g | NEAT neat | 5000 ppm |
| 13106 | 4,4' -DDE | .05 g | NEAT neat | 5000 ppm |
| 12495 | 4,4' -DDT | .05 g | NEAT neat | 5000 ppm |
| 13117 | Methylene Chloride optima | 10 ml | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-336212

Prepared By: Bis, Yolanta
Description: Benzaldehyde Std (2nd source)
Prep Date: 10/7/2020
Expiration Date: 10/7/2021
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 10/07/20
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 9150 | Benzaldehyde | .25 g | NEAT neat | 10000 ppm |
| 13476 | acetone | 25 ml | neat neat | |

## Veritech Lot Number: V-336213

Prepared By: Bis, Yolanta
Description: Benzaldehyde Std
Prep Date: 10/7/2020
Expiration Date: 10/7/2021
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 10/07/20
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 9150 | Benzaldehyde | .1 g | NEAT neat | 10000 ppm |
| 13117 | Methylene Chloride optima | 10 ml | neat neat | |

## Veritech Lot Number: V-336214

Prepared By: Bis, Yolanta
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 10/7/2020
Expiration Date: 10/7/2021
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 10/07/20
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 12844 | Caprolactam | .25 g | NEAT neat | 10000 ppm |
| 12843 | 1,2,4,5-Tetrachlorobenzene | .25 g | NEAT neat | 10000 ppm |
| 13500 | Atrazine | .25 g | NEAT neat | 10000 ppm |
| 11341 | Acetophenone | .25 g | NEAT neat | 10000 ppm |
| 9149 | Diphenyl Ether | .25 g | NEAT neat | 10000 ppm |
| 12203 | 1-Methylnaphthalene | .2626 g | NEAT neat | 10000 ppm |
| 13497 | 1,- Dioxane | .25 g | NEAT neat | 10000 ppm |
| 13476 | acetone | 25 ml | neat neat | |

## Veritech Lot Number: V-336215

Prepared By: Bis, Yolanta
Description: 8270 EXTRA MIX#1(1st Source)(DANG
Prep Date: 10/7/2020
Expiration Date: 10/7/2021
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 10/07/20
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 12844 | Caprolactam | .1 g | NEAT neat | 10000 ppm |
| 12843 | 1,2,4,5-Tetrachlorobenzene | .1 g | NEAT neat | 10000 ppm |
| 13500 | Atrazine | .1 g | NEAT neat | 10000 ppm |
| 11341 | Acetophenone | .1 g | NEAT neat | 10000 ppm |
| 9149 | Diphenyl Ether | .1 g | NEAT neat | 10000 ppm |
| 13497 | 1,- Dioxane | .1 g | NEAT neat | 10000 ppm |
| 13117 | Methylene Chloride optima | 10 ml | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-346790

Prepared By: Hamid, Akmal
Description: BNA Internal Std.
Prep Date: 3/31/2021
Expiration Date: 3/31/2022
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 250 ml
ApprovedBy: akmal
ApproveDate: 03/31/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 12504 | Naphthalene-D8 | .5 g | NEAT neat | 2000 ppm |
| 12503 | Phenanthrene-D10 | .5 g | NEAT neat | 2000 ppm |
| 12505 | Chrysene-D12 | .5 g | NEAT neat | 2000 ppm |
| 12506 | Perylene-D12 | .5 g | NEAT neat | 2000 ppm |
| 12507 | 1,4-Dichlorobenzene-D4 | .5 g | NEAT neat | 2000 ppm |
| 11102 | Acenaphthene(D10) | .5 g | NEAT neat | 2000 ppm |
| 11103 | 1,4-Dioxane-D8 | .5 g | NEAT neat | 2000 ppm |
| 13117 | Methylene Chloride optima | 250 ml | neat neat | |

## Veritech Lot Number: V-351024

Prepared By: Bis, Yolanta
Description: Pyridine Stock Std.
Prep Date: 6/2/2021
Expiration Date: 6/2/2022
Department: Organics
BatchNumber:
Concentration: 10,000 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/03/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 12769 | Pyridine | 10 ul | neat neat | 10000 ppm |
| 13117 | Methylene Chloride optima | 990 ul | neat neat | |

## Veritech Lot Number: V-352682

Prepared By: Hamid, Akmal
Description: DFTPP STOCK STD.
Prep Date: 6/30/2021
Expiration Date: 6/30/2022
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 06/30/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13602 | DFTPP STD. | .01 g | NEAT neat | 2000 ppm |
| 13117 | Methylene Chloride optima | 5 ml | neat neat | |

## Veritech Lot Number: V-352690

Prepared By: Bis, Yolanta
Description: DFTPP Mix
Prep Date: 6/30/2021
Expiration Date: 12/30/2021
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 07/01/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-352682 | DFTPP STOCK STD. | 37.5 ul | 2000 ppm | 50 ppm |
| 13601 | DDT-Endrin Mix | 300 ul | 500 ppm | 100 ppm |
| 13034 | EPA TCL Phenols/ Benzidines Mix | 75 ul | 2000 ppm | 100 ppm |
| 13117 | Methylene Chloride optima | 1087.5 ul | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-354899

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.
Prep Date: 8/3/2021
Expiration Date: 8/3/2022
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 08/04/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13086 | 2-Fluorobiphenyl | 1 g | NEAT neat | 1000 ppm |
| 12714 | p -Terphenyl-d14 | 1 g | NEAT neat | 1000 ppm |
| 12713 | Phenol-2,3,4,5,6-d5 | 2 g | NEAT neat | 2000 ppm |
| 12019 | 2,4,6-Tribromophenol | 2 g | NEAT neat | 2000 ppm |
| 12021 | Nitrobenzene-d5 | 800 ul | NEAT neat | 1000 ppm |
| 12716 | 2-Fluorophenol | 1.6 ml | NEAT neat | 2000 ppm |
| 14080 | Acetone | 1000 ml | neat neat | |

## Veritech Lot Number: V-354927

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.B(DANGER)
Prep Date: 8/4/2021
Expiration Date: 9/17/2021
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 08/10/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13218 | PAH MIX | 75 ul | 2000 ppm | 250 ppm |
| 13034 | EPA TCL Phenols/ Benzidines Mix | 75 ul | 2000 ppm | 250 ppm |
| 13972 | EPA TCL Hazardous Sustances Mix | 75 ul | 2000 ppm | 250 ppm |
| 13219 | EPA TCL Base-Neutral Mix | 75 ul | 2000 ppm | 250 ppm |
| V-354899 | BNA Surrog.Std. | 75 ul | 1000-2000 pp | 125-250 pp |
| V-351024 | Pyridine Stock Std. | 15 ul | 10,000 ppm | 250 ppm |
| v-334973 | BNA-7 MIX | 30 ul | 5000 ppm | 250 ppm |
| 13117 | Methylene Chloride optima | 180 ul | neat neat | |

## Veritech Lot Number: V-354928

Prepared By: Bis, Yolanta
Description: BNA ICV CAL@50ppm(DANGER)
Prep Date: 8/4/2021
Expiration Date: 9/17/2021
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 0.2 ml
ApprovedBy: akmal
ApproveDate: 08/10/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-354927 | BNA STOCK Std.B(DANGER) | 40 ul | 250 ppm | 50 ppm |
| v-336214 | 8270 EXTRA MIX#1(2nd Source)(DANGER) | 1 ul | 10000 ppm | 50 ppm |
| v-336213 | Benzaldehyde Std | 1 ul | 10000 ppm | 50 ppm |
| V-346790 | BNA Internal Std. | 4 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 154 ul | neat neat | |

## Veritech Lot Number: V-355569

Prepared By: Bis, Yolanta
Description: CLP SPK (AQ)(DANGER)
Prep Date: 8/13/2021
Expiration Date: 9/24/2021
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| v-336214 | 8270 EXTRA MIX#1(2nd Source)(DANGER) | 1 ml | 10000 ppm | 2000 ppm |
| v-335446 | 8270 EXTRA MIX#2A | 1 ml | 10000 ppm | 2000 ppm |
| v-336212 | Benzaldehyde Std (2nd source) | 1 ml | 10000 ppm | 2000 ppm |
| 14080 | Acetone | 2 ml | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-356012

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.A (DANGER)
Prep Date: 8/9/2021
Expiration Date: 9/17/2021
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 08/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13791 | 8270 MegaMix | 150 ul | 1000 ppm | 250 ppm |
| 12383 | Benzoic Acid | 75 ul | 2000 ppm | 250 ppm |
| 14133 | Benzidine Mix | 75 ul | 2000 ppm | 250 ppm |
| V-354899 | BNA Surrog.Std. | 75 ul | 1000-2000 pp | 125-250 pp |
| v-336211 | BNA-Pest Mix(Danger) | 30 ul | 5000 ppm | 250 ppm |
| v-334972 | BNA-6 MIX | 30 ul | 5000 ppm | 250 ppm |
| 13117 | Methylene Chloride optima | 165 ul | neat neat | |

## Veritech Lot Number: V-356013

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.(DANGER)
Prep Date: 8/9/2021
Expiration Date: 9/17/2021
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 500 ul
ApprovedBy: akmal
ApproveDate: 08/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356012 | BNA STOCK Std.A (DANGER) | 400 ul | 250 ppm | 250 ppm |
| v-336215 | 8270 EXTRA MIX#1(1st Source)(DANGER) | 10 ul | 10000 ppm | 250 ppm |
| v-336213 | Benzaldehyde Std | 10 ul | 10000 ppm | 250 ppm |
| 13117 | Methylene Chloride optima | 80 ul | neat neat | |

## Veritech Lot Number: V-356014

Prepared By: Bis, Yolanta
Description: BNA 10 ppm curve(DANGER)
Prep Date: 8/23/2021
Expiration Date: 9/17/2021
Department: Organics
BatchNumber: B-31461
Concentration: 10 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 08/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356013 | BNA STOCK Std.(DANGER) | 5 ul | 200 ppm | 10 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 93 ul | neat neat | |

## Veritech Lot Number: V-356015

Prepared By: Bis, Yolanta
Description: BNA 20 ppm curve(DANGER)
Prep Date: 8/23/2021
Expiration Date: 9/17/2021
Department: Organics
BatchNumber: B-31461
Concentration: 20 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 08/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356013 | BNA STOCK Std.(DANGER) | 10 ul | 200 ppm | 20 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 88 ul | neat neat | |

## Veritech Lot Number: V-356016

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 8/23/2021
Expiration Date: 9/17/2021
Department: Organics
BatchNumber: B-31461
Concentration: 50 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 08/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356013 | BNA STOCK Std.(DANGER) | 150 ul | 200 ppm | 50 ppm |
| V-346790 | BNA Internal Std. | 12 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 438 ul | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-356017

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: BNA 80 ppm curve(DANGER) | BatchNumber: B-31461 | ApproveDate: 08/24/21
Prep Date: 8/23/2021 | Concentration: 80 ppm | Checked: Yes
Expiration Date: 9/17/2021 | Final Volume: 100 ul

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356013 | BNA STOCK Std.(DANGER) | 40 ul | 200 ppm | 80 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 58 ul | neat neat | |

## Veritech Lot Number: V-356018

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: BNA 120 ppm curve(DANGER) | BatchNumber: B-31461 | ApproveDate: 08/24/21
Prep Date: 8/23/2021 | Concentration: 120 ppm | Checked: Yes
Expiration Date: 9/17/2021 | Final Volume: 100 ul

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356013 | BNA STOCK Std.(DANGER) | 60 ul | 200 ppm | 120 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 38 ul | neat neat | |

## Veritech Lot Number: V-356019

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: BNA 160 ppm curve(DANGER) | BatchNumber: B-31461 | ApproveDate: 08/24/21
Prep Date: 8/23/2021 | Concentration: 160 ppm | Checked: Yes
Expiration Date: 9/17/2021 | Final Volume: 100 ul

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356013 | BNA STOCK Std.(DANGER) | 80 ul | 200 ppm | 160 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 18 ul | neat neat | |

## Veritech Lot Number: V-356020

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: BNA 196 ppm curve(DANGER) | BatchNumber: B-31461 | ApproveDate: 08/24/21
Prep Date: 8/23/2021 | Concentration: 196 ppm | Checked: Yes
Expiration Date: 9/17/2021 | Final Volume: 100 ul

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356013 | BNA STOCK Std.(DANGER) | 98 ul | 200 ppm | 196 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 0 | neat neat | |

## Veritech Lot Number: V-356021

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: BNA 50 ppm curve(DANGER) | BatchNumber: B-31461 | ApproveDate: 08/24/21
Prep Date: 8/23/2021 | Concentration: 50 ppm | Checked: Yes
Expiration Date: 9/17/2021 | Final Volume: 100 ul

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356013 | BNA STOCK Std.(DANGER) | 25 ul | 200 ppm | 50 ppm |
| 13117 | Methylene Chloride optima | 75 ul | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-356022

Prepared By: Bis, Yolanta
Description: BNA 2 ppm curve(DANGER)
Prep Date: 8/23/2021
Expiration Date: 9/17/2021
Department: Organics
BatchNumber: B-31461
Concentration: 2 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 08/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356021 | BNA 50 ppm curve(DANGER) | 4 ul | 50 ppm | 2 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 94 ul | neat neat | |

## Veritech Lot Number: V-356023

Prepared By: Bis, Yolanta
Description: BNA 0.5 ppm curve(DANGER)
Prep Date: 8/23/2021
Expiration Date: 9/17/2021
Department: Organics
BatchNumber: B-31461
Concentration: 0.5 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 08/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356021 | BNA 50 ppm curve(DANGER) | 1 ul | 50 ppm | 2 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 97 ul | neat neat | |

## Veritech Lot Number: V-357189

Prepared By: Bis, Yolanta
Description: DFTPP Mix
Prep Date: 9/10/2021
Expiration Date: 3/10/2022
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-352682 | DFTPP STOCK STD. | 37.5 ul | 2000 ppm | 50 ppm |
| 13601 | DDT-Endrin Mix | 300 ul | 500 ppm | 100 ppm |
| 13034 | EPA TCL Phenols/ Benzidines Mix | 75 ul | 2000 ppm | 100 ppm |
| 13117 | Methylene Chloride optima | 1087.5 ul | neat neat | |

## Veritech Lot Number: V-357403

Prepared By: Hamid, Akmal
Description: BNA-6 MIX
Prep Date: 9/15/2021
Expiration Date: 9/15/2022
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13494 | Biphenyl | .05 g | NEAT neat | 5000 ppm |
| 14182 | Coumarin | .05 g | NEAT neat | 5000 ppm |
| 13496 | Octadecane | .05 g | NEAT neat | 5000 ppm |
| 12783 | Pentachloroethane | .05 g | NEAT neat | 5000 ppm |
| 9435 | 1,4-Dimethylnaphthalene | .0518 g | 95 % | 5000 ppm |
| 14183 | n-Decane | .05 g | NEAT neat | 5000 ppm |
| 13117 | Methylene Chloride optima | 10 ml | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357404

Prepared By: Hamid, Akmal
Description: BNA-7 MIX
Prep Date: 9/15/2021
Expiration Date: 9/15/2022
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13499 | 2,3,4,6-Tetrachlorophenol | .05 g | NEAT neat | 5000 ppm |
| 13494 | Biphenyl | .05 g | NEAT neat | 5000 ppm |
| 14182 | Coumarin | .05 g | NEAT neat | 5000 ppm |
| 13496 | Octadecane | .05 g | NEAT neat | 5000 ppm |
| 12783 | Pentachloroethane | .05 g | NEAT neat | 5000 ppm |
| 9435 | 1,4-Dimethylnaphthalene | .0518 g | 95 % | 5000 ppm |
| 14183 | n-Decane | .05 g | NEAT neat | 5000 ppm |
| 13117 | Methylene Chloride optima | 10 ml | neat neat | |

## Veritech Lot Number: V-357591

Prepared By: Hamid, Akmal
Description: BNA STOCK Std.A (DANGER)
Prep Date: 9/19/2021
Expiration Date: 10/7/2021
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 09/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13791 | 8270 MegaMix | 150 ul | 1000 ppm | 250 ppm |
| 12383 | Benzoic Acid | 75 ul | 2000 ppm | 250 ppm |
| 14133 | Benzidine Mix | 75 ul | 2000 ppm | 250 ppm |
| V-354899 | BNA Surrog.Std. | 75 ul | 1000-2000 pp | 125-250 pp |
| v-336211 | BNA-Pest Mix(Danger) | 30 ul | 5000 ppm | 250 ppm |
| V-357403 | BNA-6 MIX | 30 ul | 5000 ppm | 250 ppm |
| 13117 | Methylene Chloride optima | 165 ul | neat neat | |

## Veritech Lot Number: V-357592

Prepared By: Hamid, Akmal
Description: CAL BNA@50ppm(DANGER)
Prep Date: 9/19/2021
Expiration Date: 10/7/2021
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 0.2 ml
ApprovedBy: akmal
ApproveDate: 09/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357591 | BNA STOCK Std.A (DANGER) | 40 ul | 250 ppm | 50 ppm |
| V-336215 | 8270 EXTRA MIX#1(1st Source)(DANGER) | 1 ul | 10000 ppm | 50 ppm |
| v-336213 | Benzaldehyde Std | 1 ul | 10000 ppm | 50 ppm |
| V-346790 | BNA Internal Std. | 4 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 154 ul | neat neat | |

## Veritech Lot Number: V-357818

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.A (DANGER)
Prep Date: 9/20/2021
Expiration Date: 10/7/2021
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13791 | 8270 MegaMix | 150 ul | 1000 ppm | 250 ppm |
| 12383 | Benzoic Acid | 75 ul | 2000 ppm | 250 ppm |
| 14133 | Benzidine Mix | 75 ul | 2000 ppm | 250 ppm |
| V-354899 | BNA Surrog.Std. | 75 ul | 1000-2000 pp | 125-250 pp |
| v-336211 | BNA-Pest Mix(Danger) | 30 ul | 5000 ppm | 250 ppm |
| V-357403 | BNA-6 MIX | 30 ul | 5000 ppm | 250 ppm |
| 13117 | Methylene Chloride optima | 165 ul | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357819

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: BNA 10 ppm curve(DANGER) | BatchNumber: B-31610 | ApproveDate: 09/23/21
Prep Date: 9/20/2021 | Concentration: 10 ppm | Checked: Yes
Expiration Date: 10/7/2021 | Final Volume: 100 ul

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357831 | BNA STOCK Std.(DANGER) | 5 ul | 200 ppm | 10 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 93 ul | neat neat | |

## Veritech Lot Number: V-357820

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: BNA 20 ppm curve(DANGER) | BatchNumber: B-31610 | ApproveDate: 09/23/21
Prep Date: 9/20/2021 | Concentration: 20 ppm | Checked: Yes
Expiration Date: 10/7/2021 | Final Volume: 100 ul

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357831 | BNA STOCK Std.(DANGER) | 10 ul | 200 ppm | 20 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 88 ul | neat neat | |

## Veritech Lot Number: V-357821

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: BNA 50 ppm curve(DANGER) | BatchNumber: B-31610 | ApproveDate: 09/23/21
Prep Date: 9/20/2021 | Concentration: 50 ppm | Checked: Yes
Expiration Date: 10/7/2021 | Final Volume: 600 ul

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357831 | BNA STOCK Std.(DANGER) | 150 ul | 200 ppm | 50 ppm |
| V-346790 | BNA Internal Std. | 12 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 438 ul | neat neat | |

## Veritech Lot Number: V-357822

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: BNA 80 ppm curve(DANGER) | BatchNumber: B-31610 | ApproveDate: 09/23/21
Prep Date: 9/20/2021 | Concentration: 80 ppm | Checked: Yes
Expiration Date: 10/7/2021 | Final Volume: 100 ul

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357831 | BNA STOCK Std.(DANGER) | 40 ul | 200 ppm | 80 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 58 ul | neat neat | |

## Veritech Lot Number: V-357823

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: BNA 120 ppm curve(DANGER) | BatchNumber: B-31610 | ApproveDate: 09/23/21
Prep Date: 9/20/2021 | Concentration: 120 ppm | Checked: Yes
Expiration Date: 10/7/2021 | Final Volume: 100 ul

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357831 | BNA STOCK Std.(DANGER) | 60 ul | 200 ppm | 120 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 38 ul | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357824

Prepared By: Bis, Yolanta
Description: BNA 160 ppm curve(DANGER)
Prep Date: 9/20/2021
Expiration Date: 10/7/2021
Department: Organics
BatchNumber: B-31610
Concentration: 160 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357831 | BNA STOCK Std.(DANGER) | 80 ul | 200 ppm | 160 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 18 ul | neat neat | |

## Veritech Lot Number: V-357825

Prepared By: Bis, Yolanta
Description: BNA 196 ppm curve(DANGER)
Prep Date: 9/20/2021
Expiration Date: 10/7/2021
Department: Organics
BatchNumber: B-31610
Concentration: 196 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357831 | BNA STOCK Std.(DANGER) | 98 ul | 200 ppm | 196 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 0 | neat neat | |

## Veritech Lot Number: V-357826

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 9/20/2021
Expiration Date: 10/7/2021
Department: Organics
BatchNumber: B-31610
Concentration: 50 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357831 | BNA STOCK Std.(DANGER) | 25 ul | 200 ppm | 50 ppm |
| 13117 | Methylene Chloride optima | 75 ul | neat neat | |

## Veritech Lot Number: V-357827

Prepared By: Bis, Yolanta
Description: BNA 2 ppm curve(DANGER)
Prep Date: 9/20/2021
Expiration Date: 10/7/2021
Department: Organics
BatchNumber: B-31610
Concentration: 2 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357826 | BNA 50 ppm curve(DANGER) | 4 ul | 50 ppm | 2 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 94 ul | neat neat | |

## Veritech Lot Number: V-357828

Prepared By: Bis, Yolanta
Description: BNA 0.5 ppm curve(DANGER)
Prep Date: 9/20/2021
Expiration Date: 10/7/2021
Department: Organics
BatchNumber: B-31610
Concentration: 0.5 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357826 | BNA 50 ppm curve(DANGER) | 1 ul | 50 ppm | 2 ppm |
| V-346790 | BNA Internal Std. | 2 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 97 ul | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357829

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.B(DANGER)
Prep Date: 9/20/2021
Expiration Date: 3/20/2022
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13218 | PAH MIX | 75 ul | 2000 ppm | 250 ppm |
| 13034 | EPA TCL Phenols/ Benzidines Mix | 75 ul | 2000 ppm | 250 ppm |
| 13972 | EPA TCL Hazardous Sustances Mix | 75 ul | 2000 ppm | 250 ppm |
| 13219 | EPA TCL Base-Neutral Mix | 75 ul | 2000 ppm | 250 ppm |
| V-354899 | BNA Surrog.Std. | 75 ul | 1000-2000 pp | 125-250 pp |
| V-351024 | Pyridine Stock Std. | 15 ul | 10,000 ppm | 250 ppm |
| V-357404 | BNA-7 MIX | 30 ul | 5000 ppm | 250 ppm |
| 13117 | Methylene Chloride optima | 180 ul | neat neat | |

## Veritech Lot Number: V-357830

Prepared By: Bis, Yolanta
Description: BNA ICV CAL@50ppm(DANGER)
Prep Date: 9/20/2021
Expiration Date: 10/7/2021
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 0.2 ml
ApprovedBy: akmal
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357829 | BNA STOCK Std.B(DANGER) | 40 ul | 250 ppm | 50 ppm |
| v-336214 | 8270 EXTRA MIX#1(2nd Source)(DANGER) | 1 ul | 10000 ppm | 50 ppm |
| v-336213 | Benzaldehyde Std | 1 ul | 10000 ppm | 50 ppm |
| V-346790 | BNA Internal Std. | 4 ul | 2000 ppm | 40 ppm |
| 13117 | Methylene Chloride optima | 154 ul | neat neat | |

## Veritech Lot Number: V-357831

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.(DANGER)
Prep Date: 9/20/2021
Expiration Date: 10/7/2021
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 500 ul
ApprovedBy: akmal
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357818 | BNA STOCK Std.A (DANGER) | 400 ul | 250 ppm | 250 ppm |
| v-336215 | 8270 EXTRA MIX#1(1st Source)(DANGER) | 10 ul | 10000 ppm | 250 ppm |
| v-336213 | Benzaldehyde Std | 10 ul | 10000 ppm | 250 ppm |
| 13117 | Methylene Chloride optima | 80 ul | neat neat | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number:9149

| Description |
|---|
| Diphenyl Ether |

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Aldrich | 240834-5g | MKBH5698V | 12/12/14 | 12/31/25 | Hamid, Akmal | 1 | 5G | NEAT | NEAT |

## Veritech Control/Receipt Number:9150

| Description |
|---|
| Benzaldehyde |

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | B1334-5g | MKBP5021V | 12/12/14 | 12/31/25 | Hamid, Akmal | 1 | 5G | NEAT | NEAT |

## Veritech Control/Receipt Number:9435

| Description |
|---|
| 1,4-Dimethylnaphthalene |

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Aldrich | D170305-5G | STBD6188V | 04/24/15 | 04/24/25 | Hamid, Akmal | 5 | 5G | 95 | % |

## Veritech Control/Receipt Number:11102

| Description |
|---|
| Acenaphthene(D10) |

ApprovedBy: akmal
ApproveDate: 08/04/17
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CIL | DLM-108-1 | PR-25444 | 08/04/17 | 06/11/24 | Hamid, Akmal | 2 | 1G | NEAT | NEAT |

## Veritech Control/Receipt Number:11103

| Description |
|---|
| 1,4-Dioxane-D8 |

ApprovedBy: akmal
ApproveDate: 02/12/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CIL | DLM-28-5 | I-19942 | 08/04/17 | 04/30/22 | Hamid, Akmal | 1 | 5G | NEAT | NEAT |

## Veritech Control/Receipt Number:11201

| Description |
|---|
| N-Decane |

ApprovedBy: akmal
ApproveDate: 09/29/17
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service Inc | N-12526-1G | 6585700 | 09/28/17 | 05/31/22 | Hamid, Akmal | 2 | 1ML | NEAT | NEAT |

## Veritech Control/Receipt Number:11341

| Description |
|---|
| Acetophenone |

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | 42163-1ML-F | BCBV0864 | 12/20/17 | 12/20/25 | Hamid, Akmal | 1 | 1ML | NEAT | NEAT |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 12013

Description: Carbazole

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | N-11403-1G | 7528800 | 09/28/18 | 03/31/22 | Hamid, Akmal | 1 | 1G | NEAT | NEAT |

## Veritech Control/Receipt Number: 12014

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | N-11207-500MG | 7300700 | 09/28/18 | 04/30/22 | Hamid, Akmal | 2 | 500M | NEAT | NEAT |

## Veritech Control/Receipt Number: 12016

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | N-11508-1G | 6585500 | 09/28/18 | 07/31/23 | Hamid, Akmal | 1 | 1G | NEAT | NEAT |

## Veritech Control/Receipt Number: 12019

Description: 2,4,6-Tribromophenol

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma- Aldrich | 137715-5G | S55013V | 09/28/18 | 07/08/29 | Hamid, Akmal | 1 | 5G | NEAT | NEAT |

## Veritech Control/Receipt Number: 12021

Description: Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma- Aldrich | 151955-5G | MBBC0000V | 10/01/18 | 07/08/29 | Hamid, Akmal | 1 | 5G | NEAT | NEAT |

## Veritech Control/Receipt Number: 12203

Description: 1-Methylnaphthalene

ApprovedBy: akmal
ApproveDate: 12/18/18
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | 45795 | BCBW3289 | 12/18/18 | 11/30/22 | Hamid, Akmal | 2 | 250M | NEAT | NEAT |

## Veritech Control/Receipt Number: 12383

Description: Benzoic Acid

ApprovedBy: akmal
ApproveDate: 03/25/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Supelco | CRM47508 | LRAC0115 | 03/25/19 | 10/31/21 | Hamid, Akmal | 2 | 1ML | 2000 | PPM |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 12495

Description: 4,4' -DDT

ApprovedBy: akmal
ApproveDate: 05/17/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | N10876-100MG | 8539300 | 05/17/19 | 02/28/22 | Hamid, Akmal | 1 | 100M | NEAT | NEAT |

## Veritech Control/Receipt Number: 12503

Description: Phenanthrene-D10

ApprovedBy: akmal
ApproveDate: 05/20/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CIL | DLM-370-0 | PR-27621 | 05/20/19 | 04/05/26 | Hamid, Akmal | 1 | 1G | NEAT | NEAT |

## Veritech Control/Receipt Number: 12504

Description: Naphthalene-D8

ApprovedBy: akmal
ApproveDate: 05/20/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CIL | DLM-365-0 | PR-27155/082715NP | 05/20/19 | 09/03/25 | Hamid, Akmal | 1 | 1G | NEAT | NEAT |

## Veritech Control/Receipt Number: 12505

Description: Chrysene-D12

ApprovedBy: akmal
ApproveDate: 05/20/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CIL | DLM-261-0 | PR29295 | 05/20/19 | 01/09/28 | Hamid, Akmal | 1 | 1G | NEAT | NEAT |

## Veritech Control/Receipt Number: 12506

Description: Perylene-D12

ApprovedBy: akmal
ApproveDate: 05/20/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CIL | DLM-366-0 | PR-24113 | 05/20/19 | 10/10/22 | Hamid, Akmal | 1 | 1G | NEAT | NEAT |

## Veritech Control/Receipt Number: 12507

Description: 1,4-Dichlorobenzene-D4

ApprovedBy: akmal
ApproveDate: 05/20/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| CIL | DLM-268-0 | PR-18488/08247CB1 | 05/20/19 | 06/07/27 | Hamid, Akmal | 1 | 1G | NEAT | NEAT |

## Veritech Control/Receipt Number: 12713

Description: Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Aldrich | 425370-5G | MBBC4769 | 08/08/19 | 05/21/24 | Hamid, Akmal | 1 | 5G | NEAT | NEAT |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 12714

Description: p -Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Aldrich | 364630-500MG | EB2136 | 08/08/19 | 05/21/24 | Hamid, Akmal | 13 | 500M | NEAT | NEAT |

## Veritech Control/Receipt Number: 12716

Description: 2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Aldrich | F12804-10G | STBH4989 | 08/08/19 | 05/21/28 | Hamid, Akmal | 1 | 10G | NEAT | NEAT |

## Veritech Control/Receipt Number: 12769

Description: Pyridine

ApprovedBy: janee
ApproveDate: 09/20/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fisher | P368-1 | 190224 | 09/20/19 | 09/19/24 | Wonge, Janee | 1 | 1 L | neat | neat |

## Veritech Control/Receipt Number: 12783

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/24/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service Inc | N-12829-1G | 8728100 | 09/24/19 | 12/31/23 | Hamid, Akmal | 2 | 1G | NEAT | NEAT |

## Veritech Control/Receipt Number: 12843

Description: 1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Aldrich | 131857-5G | MKCG5992 | 10/17/19 | 07/23/25 | Hamid, Akmal | 1 | 5G | NEAT | NEAT |

## Veritech Control/Receipt Number: 12844

Description: Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Aldrich | C2204-5G | MKCG1442 | 10/17/19 | 07/23/25 | Hamid, Akmal | 1 | 5G | NEAT | NEAT |

## Veritech Control/Receipt Number: 13034

Description: EPA TCL Phenols/ Benzidines Mix

ApprovedBy: akmal
ApproveDate: 02/03/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma Aldrich | 47992-U | LRAC2520 | 02/03/20 | 09/30/22 | Hamid, Akmal | 2 | 1ML | 2000 | PPM |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13086

Description: 2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Aldrich | 102741-10G | MKCK0527 | 03/03/20 | 08/31/30 | Hamid, Akmal | 1 | 10G | NEAT | NEAT |

## Veritech Control/Receipt Number: 13106

Description: 4,4' -DDE

ApprovedBy: akmal
ApproveDate: 03/10/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | RPN-10875-1G | 9710700 | 03/10/20 | 02/28/25 | Hamid, Akmal | 1 | 1G | NEAT | NEAT |

## Veritech Control/Receipt Number: 13117

Description: Methylene Chloride optima

ApprovedBy: akmal
ApproveDate: 04/01/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fisher | D1514 | 197501 | 03/13/20 | 01/31/25 | Lopez, Jose | 4 | 4L | neat | neat |

## Veritech Control/Receipt Number: 13218

Description: PAH MIX

ApprovedBy: akmal
ApproveDate: 05/01/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma- Aldrich | CRM48905 | LRAC3877 | 05/01/20 | 09/30/22 | Hamid, Akmal | 2 | 1ML | 2000 | PPM |

## Veritech Control/Receipt Number: 13219

Description: EPA TCL Base-Neutral Mix

ApprovedBy: akmal
ApproveDate: 05/01/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma- Aldrich | 47991-U | LRAC4915 | 05/01/20 | 01/31/23 | Hamid, Akmal | 2 | 1ML | 2000 | PPM |

## Veritech Control/Receipt Number: 13437

Description: acetone

ApprovedBy: akmal
ApproveDate: 08/12/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9254-03 | 229861 | 08/11/20 | 04/23/22 | Lopez, Jose | 32 | 4L | neat | neat |

## Veritech Control/Receipt Number: 13476

Description: acetone

ApprovedBy: akmal
ApproveDate: 09/08/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9254-03 | 251855 | 09/08/20 | 11/26/22 | Lopez, Jose | 20 | 4L | neat | neat |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13483

Description: 4,4'-DDD

ApprovedBy: akmal
ApproveDate: 09/08/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | N-10874-250MG | 10596800 | 09/08/20 | 12/31/21 | Hamid, Akmal | 1 | 250M | NEAT | NEAT |

## Veritech Control/Receipt Number: 13494

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | 35800-1G | BCBZ9522 | 09/11/20 | 12/31/23 | Hamid, Akmal | 1 | 1G | NEAT | NEAT |

## Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | O652-25G | MKCG6046 | 09/11/20 | 09/11/30 | Hamid, Akmal | 1 | 25G | NEAT | NEAT |

## Veritech Control/Receipt Number: 13497

Description: 1,- Dioxane

ApprovedBy: akmal
ApproveDate: 09/15/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | N-10220-1G | 10511400 | 09/14/20 | 08/30/23 | Hamid, Akmal | 1 | 1G | NEAT | NEAT |

## Veritech Control/Receipt Number: 13499

Description: 2,3,4,6-Tetrachlorophenol

ApprovedBy: akmal
ApproveDate: 09/15/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | 442282 | LRAC4175 | 09/14/20 | 10/31/22 | Hamid, Akmal | 2 | 100M | NEAT | NEAT |

## Veritech Control/Receipt Number: 13500

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 09/15/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | 45330 | BCBZ3835 | 09/14/20 | 08/31/23 | Hamid, Akmal | 4 | 250M | NEAT | NEAT |

## Veritech Control/Receipt Number: 13601

Description: DDT-Endrin Mix

ApprovedBy: akmal
ApproveDate: 11/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma - Aldrich | 48282 | LRAC5769 | 11/12/20 | 02/28/23 | Hamid, Akmal | 2 | 1ML | 500 | PPM |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13602

Description: DFTPP STD.

ApprovedBy: akmal
ApproveDate: 11/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma - Aldrich | 442543 | LRAC7179 | 11/12/20 | 07/23/23 | Hamid, Akmal | 1 | 100M | NEAT | NEAT |

## Veritech Control/Receipt Number: 13791

Description: 8270 MegaMix

ApprovedBy: AKMAL
ApproveDate: 02/19/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Restek | 31850 | A0164635 | 02/18/21 | 03/31/22 | Hamid, Akmal | 2 | 1ML | 1000 | PPM |

## Veritech Control/Receipt Number: 13972

Description: EPA TCL Hazardous Sustances Mix

ApprovedBy: akmal
ApproveDate: 06/01/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | 47990-U | LRAC9004 | 06/01/21 | 02/29/24 | Hamid, Akmal | 2 | 1ML | 2000 | PPM |

## Veritech Control/Receipt Number: 14080

Description: Acetone

ApprovedBy: akmal
ApproveDate: 07/29/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | AA1111-001 | 21050128 | 07/26/21 | 06/05/23 | Lopez, Jose | 48 | 4L | neat | neat |

## Veritech Control/Receipt Number: 14133

Description: Benzidine Mix

ApprovedBy: akmal
ApproveDate: 08/12/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Restek | 31834 | A0172557 | 08/12/21 | 12/31/25 | Hamid, Akmal | 2 | 1ML | 2000 | PPM |

## Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | N-11508 | 12354100 | 09/14/21 | 09/30/29 | Hamid, Akmal | 2 | IG | NEAT | NEAT |

## Veritech Control/Receipt Number: 14183

Description: n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | n-12526-1G | 12277000 | 09/14/21 | 09/30/25 | Hamid, Akmal | 2 | 1G | NEAT | NEAT |

# GC PCB Data

# GC PCB Data
# QC Summary

# FORM2

## Surrogate Recovery

Method: EPA 8082A

| Dfile | Sample# | Matrix | Date/Time | Surr Dil | Dilute Out Flag | Column1 S1 Recov | Column2 S2 Recov | Column1 S3 Recov | Column2 S4 Recov | Column0 S5 Recov | Column0 S6 Recov |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3G130544.D | WMB94963 | A | 09/20/21 03:32 | 1 | | 78 | 97 | 80 | 95 | | |
| 3G130568.D | WMB94975 | A | 09/21/21 08:42 | 1 | | 89 | 87 | 92 | 99 | | |
| 3G130539.D | AD26083-001 | A | 09/20/21 02:18 | 1 | | 54 | 65 | 70 | 84 | | |
| 3G130718.D | AD26083-002(R) | A | 09/27/21 22:47 | 1 | | 40 | 40 | 63 | 78 | | |
| 3G130541.D | AD26083-003 | A | 09/20/21 02:48 | 1 | | 53 | 67 | 53 | 63 | | |
| 3G130549.D | AD26083-005 | A | 09/20/21 04:46 | 1 | | 51 | 66 | 71 | 83 | | |
| 3G130550.D | AD26083-006 | A | 09/20/21 05:01 | 1 | | 57 | 71 | 77 | 88 | | |
| 3G130551.D | AD26083-008 | A | 09/20/21 05:15 | 1 | | 58 | 73 | 77 | 90 | | |
| 3G130552.D | AD26083-009 | A | 09/20/21 05:30 | 1 | | 64 | 76 | 78 | 91 | | |
| 3G130553.D | AD26083-011 | A | 09/20/21 05:45 | 1 | | 57 | 71 | 75 | 86 | | |
| 3G130554.D | AD26083-012 | A | 09/20/21 06:00 | 1 | | 73 | 100 | 68 | 78 | | |
| 3G130555.D | AD26083-014 | A | 09/20/21 06:15 | 1 | | 82 | 100 | 80 | 92 | | |
| 3G130556.D | AD26083-016 | A | 09/20/21 06:29 | 1 | | 75 | 90 | 83 | 95 | | |
| 3G130557.D | AD26083-018 | A | 09/20/21 06:44 | 1 | | 76 | 95 | 83 | 95 | | |
| 3G130766.D | AD26083-019 | A | 09/29/21 11:46 | 1 | | 70 | 79 | 80 | 80 | | |
| 3G130558.D | AD26083-021 | A | 09/20/21 06:59 | 1 | | 68 | 83 | 60 | 69 | | |
| 3G130559.D | AD26083-023 | A | 09/20/21 07:14 | 1 | | 79 | 97 | 59 | 68 | | |
| 3G130560.D | AD26083-026 | A | 09/20/21 07:29 | 1 | | 81 | 99 | 85 | 99 | | |
| 3G130561.D | AD26083-027 | A | 09/20/21 07:44 | 1 | | 80 | 97 | 80 | 91 | | |
| 3G130562.D | AD26083-028 | A | 09/20/21 07:58 | 1 | | 70 | 85 | 50 | 57 | | |
| 3G130767.D | AD26083-030 | A | 09/29/21 12:01 | 1 | | 70 | 78 | 89 | 86 | | |
| 3G130768.D | AD26083-032 | A | 09/29/21 12:15 | 1 | | 67 | 71 | 81 | 78 | | |
| 3G130769.D | AD26083-033 | A | 09/29/21 12:30 | 1 | | 72 | 77 | 78 | 74 | | |
| 3G130770.D | AD26083-035 | A | 09/29/21 12:45 | 1 | | 66 | 71 | 88 | 84 | | |
| 3G130771.D | AD26083-036 | A | 09/29/21 13:00 | 1 | | 66 | 70 | 86 | 85 | | |
| 3G130772.D | AD26083-038 | A | 09/29/21 13:15 | 1 | | 70 | 79 | 90 | 87 | | |
| 3G130765.D | AD26083-040(R) | A | 09/29/21 11:31 | 1 | | 34* | 41 | 61 | 71 | | |
| 3G130546.D | AD26083-042(MS:AD26 | A | 09/20/21 04:01 | 1 | | 45 | 59 | 44 | 62 | | |
| 3G130547.D | AD26083-044(MSD:AD2 | A | 09/20/21 04:16 | 1 | | 34* | 43 | 51 | 73 | | |
| 3G130719.D | AD26083-046 | A | 09/27/21 23:01 | 1 | | 64 | 74 | 82 | 95 | | |
| 3G130720.D | AD26083-048 | A | 09/27/21 23:16 | 1 | | 66 | 71 | 74 | 78 | | |
| 3G130589.D | AD26083-049(MS:AD26 | A | 09/21/21 16:53 | 1 | | 81 | 87 | 84 | 96 | | |
| 3G130590.D | AD26083-050(MSD:AD2 | A | 09/21/21 17:08 | 1 | | 75 | 89 | 86 | 103 | | |
| 3G130545.D | WMB94963(MS) | A | 09/20/21 03:47 | 1 | | 60 | 71 | 62 | 74 | | |
| 3G130569.D | WMB94975(MS) | A | 09/21/21 08:57 | 1 | | 85 | 92 | 90 | 103 | | |

**Flags:** SD=Surrogate diluted out

*=Surrogate out

**Method:** EPA 8082A

### Aqueous Laboratory Limits

| Compound | Spike Amt | Limits |
|---|---|---|
| S1=TCMX-Surrogate | 100 | 39-132 |
| S2=TCMX-Surrogate | 100 | 39-132 |
| S3=DCB-Surrogate | 100 | 39-142 |
| S4=DCB-Surrogate | 100 | 39-142 |

# Form3

## Recovery Data Laboratory Limits

### QC Batch: WMB94963

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130545.D | WMB94963(MS) | 9/20/2021 3:47:00 AM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 839.518 | 0 | 1000 | 84 | 60 | 130 |
| Aroclor-1260 -Total | 1 | 949.352 | 0 | 1000 | 95 | 60 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3

## Recovery Data Laboratory Limits

### QC Batch: WMB94975

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130569.D | WMB94975(MS) | 9/21/2021 8:57:00 AM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 956.722 | 0 | 1000 | 96 | 60 | 130 |
| Aroclor-1260 -Total | 1 | 1059.572 | 0 | 1000 | 106 | 60 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94963

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130546.D | AD26083-042(MS:AD26083-040 | 9/20/2021 4:01:00 AM |
| Non Spike(If applicable): | 3G130765.D | AD26083-040(R) | 9/29/2021 11:31:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MS

| Analyte | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 696.68 | 0 | 1000 | 70 | 60 | 130 |
| Aroclor-1260 -Total | 1 | 668.954 | 0 | 1000 | 67 | 60 | 130 |

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130547.D | AD26083-044(MSD:AD26083-0 | 9/20/2021 4:16:00 AM |
| Non Spike(If applicable): | 3G130765.D | AD26083-040(R) | 9/29/2021 11:31:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 615.736 | 0 | 1000 | 62 | 60 | 130 |
| Aroclor-1260 -Total | 1 | 606.328 | 0 | 1000 | 61 | 60 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: WMB94963

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130547.D | AD26083-044(MSD:AD26083-0 | 9/20/2021 4:16:00 AM |
| Duplicate(If applicable): | 3G130546.D | AD26083-042(MS:AD26083-040 | 9/20/2021 4:01:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 615.736 | 696.68 | 12 | 40 |
| Aroclor-1260 -Total | 1 | 606.328 | 668.954 | 9.8 | 40 |

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch:WMB94975

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130589.D | AD26083-049(MS:AD26083-048 | 9/21/2021 4:53:00 PM |
| Non Spike(If applicable): | 3G130720.D | AD26083-048 | 9/27/2021 11:16:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MS

| Analyte | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 900.276 | 0 | 1000 | 90 | 60 | 130 |
| Aroclor-1260 -Total | 1 | 987.694 | 0 | 1000 | 99 | 60 | 130 |

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130590.D | AD26083-050(MSD:AD26083-0 | 9/21/2021 5:08:00 PM |
| Non Spike(If applicable): | 3G130720.D | AD26083-048 | 9/27/2021 11:16:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 858.564 | 0 | 1000 | 86 | 60 | 130 |
| Aroclor-1260 -Total | 1 | 975.156 | 0 | 1000 | 98 | 60 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: WMB94975

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130590.D | AD26083-050(MSD:AD26083-0 | 9/21/2021 5:08:00 PM |
| Duplicate(If applicable): | 3G130589.D | AD26083-049(MS:AD26083-048 | 9/21/2021 4:53:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 858.564 | 900.276 | 4.7 | 40 |
| Aroclor-1260 -Total | 1 | 975.156 | 987.694 | 1.3 | 40 |

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# FORM 4
Blank Summary

Blank Number: WMB94963
Blank Data File: 3G130544.D
Matrix: Aqueous

Blank Analysis Date: 09/20/21 03:32
Blank Extraction Date: 09/19/21
(If Applicable)
Method: EPA 8082A

| Sample Number | Data File | Analysis Date |
|---|---|---|
| AD26083-001 | 3G130539.D | 09/20/21 02:18 |
| AD26083-003 | 3G130541.D | 09/20/21 02:48 |
| AD26083-005 | 3G130549.D | 09/20/21 04:46 |
| AD26083-006 | 3G130550.D | 09/20/21 05:01 |
| AD26083-008 | 3G130551.D | 09/20/21 05:15 |
| AD26083-009 | 3G130552.D | 09/20/21 05:30 |
| AD26083-011 | 3G130553.D | 09/20/21 05:45 |
| AD26083-012 | 3G130554.D | 09/20/21 06:00 |
| AD26083-014 | 3G130555.D | 09/20/21 06:15 |
| AD26083-016 | 3G130556.D | 09/20/21 06:29 |
| AD26083-018 | 3G130557.D | 09/20/21 06:44 |
| AD26083-021 | 3G130558.D | 09/20/21 06:59 |
| AD26083-023 | 3G130559.D | 09/20/21 07:14 |
| AD26083-026 | 3G130560.D | 09/20/21 07:29 |
| AD26083-027 | 3G130561.D | 09/20/21 07:44 |
| AD26083-028 | 3G130562.D | 09/20/21 07:58 |
| AD26083-042(MS | 3G130546.D | 09/20/21 04:01 |
| AD26083-044(MSD | 3G130547.D | 09/20/21 04:16 |
| WMB94963(MS) | 3G130545.D | 09/20/21 03:47 |

# FORM 4
Blank Summary

Blank Number: WMB94975
Blank Data File: 3G130568.D
Matrix: Aqueous

Blank Analysis Date: 09/21/21 08:42
Blank Extraction Date: 09/20/21
(If Applicable)
Method: EPA 8082A

| Sample Number | Data File | Analysis Date |
|---|---|---|
| AD26083-002(R) | 3G130718.D | 09/27/21 22:47 |
| AD26083-019 | 3G130766.D | 09/29/21 11:46 |
| AD26083-030 | 3G130767.D | 09/29/21 12:01 |
| AD26083-032 | 3G130768.D | 09/29/21 12:15 |
| AD26083-033 | 3G130769.D | 09/29/21 12:30 |
| AD26083-035 | 3G130770.D | 09/29/21 12:45 |
| AD26083-036 | 3G130771.D | 09/29/21 13:00 |
| AD26083-038 | 3G130772.D | 09/29/21 13:15 |
| AD26083-040(R) | 3G130765.D | 09/29/21 11:31 |
| AD26083-046 | 3G130719.D | 09/27/21 23:01 |
| AD26083-048 | 3G130720.D | 09/27/21 23:16 |
| AD26083-049(MS: | 3G130589.D | 09/21/21 16:53 |
| AD26083-050(MSD | 3G130590.D | 09/21/21 17:08 |
| WMB94975(MS) | 3G130569.D | 09/21/21 08:57 |

# Form 5

Method: EPA 8082A

Instrument: GC_3

Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 3G128880 D | 1000PPB | 07/19/21 07:47 | Soil | | | | | |
| 3G128881 D | 500PPB | 07/19/21 08:57 | Soil | | | | | |
| 3G128882 D | 500PPB | 07/19/21 09:22 | Soil | | | | | |
| 3G128887 D | CAL 2154@500PPB | 07/19/21 10:37 | Soil | 3G12889 | 10.2792 | 0 | 10.9198 | 0.0092 |
| 3G128888 D | CAL 3268@500PPB | 07/19/21 10:52 | Soil | 3G12889 | 10.2783 | 0.0087 | 10.9183 | 0.0046 |
| 3G128889 D | CAL 1242@500PPB | 07/19/21 11:07 | Soil | 3G12889 | 10.2783 | 0.0087 | 10.9183 | 0.0046 |
| 3G128890 D | CAL 1248@500PPB | 07/19/21 11:21 | Soil | 3G12889 | 10.2792 | 0 | 10.9198 | 0.0092 |
| 3G128891 D | CAL 1262@500PPB | 07/19/21 11:36 | Soil | 3G12889 | 10.2784 | 0.0078 | 10.9186 | 0.0018 |
| 3G128892 D | CAL 1660@50PPB | 07/19/21 11:51 | Soil | 3G12889 | 10.2792 | 0 | 10.9188 | 0 |
| 3G128893 D | CAL 1660@200PPB | 07/19/21 12:06 | Soil | 3G12889 | 10.2797 | 0.0049 | 10.9188 | 0 |
| 3G128894 D | CAL 1660@500PPB | 07/19/21 12:21 | Soil | 3G12889 | 10.2803 | 0.0107 | 10.9192 | 0.0037 |
| 3G128895 D | CAL 1660@1000PPB | 07/19/21 12:36 | Soil | 3G12889 | 10.2797 | 0.0049 | 10.9186 | 0.0018 |
| 3G128896 D | CAL 1660@2000PPB | 07/19/21 12:51 | Soil | 3G12889 | 10.2792 | 0 | 10.9199 | 0.0101 |
| 3G128897 D | CAL 1660@4000PPB | 07/19/21 13:06 | Soil | 3G12889 | 10.2787 | 0.0049 | 10.9201 | 0.0119 |
| 3G128898 D | ICV | 07/19/21 13:31 | Soil | 3G12889 | 10.2898 | 0.1031 | 10.9243 | 0.0504 |
| 3G128899 D | PEST WS | 07/19/21 13:46 | Soil | 3G12889 | 0.0000 | 200* | 0.0000 | 200* |

Drift Compound: DCB-Surrogate  Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)  * - Values outside of limits for this column/run

# Form 5

Method: EPA 8082A
Instrument: GC_3

Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 3G130498.D | 500PPB | 09/19/21 15:40 | Soil | | | | | |
| 3G130499.D | CAL 1660@1000PPB | 09/19/21 15:55 | Soil | 3G13049 | 10.2513 | 0 | 10.8965 | 0 |
| 3G130500.D | WMB94942(MS) | 09/19/21 16:40 | Aqueous | 3G13049 | 10.2632 | 0.116 | 10.9029 | 0.0587 |
| 3G130501.D | AD25967-001(MS) | 09/19/21 16:54 | Aqueous | 3G13049 | 10.2528 | 0.0146 | 10.8991 | 0.0239 |
| 3G130502.D | AD25967-001(MSD) | 09/19/21 17:09 | Aqueous | 3G13049 | 10.2512 | 0.001 | 10.8973 | 0.0073 |
| 3G130503.D | AD25967-001 | 09/19/21 17:24 | Aqueous | 3G13049 | 10.2499 | 0.0137 | 10.8974 | 0.0083 |
| 3G130504.D | AD25950-001 | 09/19/21 17:39 | Aqueous | 3G13049 | 10.2503 | 0.0097 | 10.8955 | 0.0092 |
| 3G130505.D | AD25950-005 | 09/19/21 17:53 | Aqueous | 3G13049 | 10.2510 | 0.0029 | 10.8961 | 0.0037 |
| 3G130506.D | AD25806-001(R) | 09/19/21 18:08 | Aqueous | 3G13049 | 10.2467 | 0.0449 | 10.8954 | 0.0101 |
| 3G130507.D | SMB94919(MS) | 09/19/21 18:23 | Soil | 3G13049 | 10.2517 | 0.0039 | 10.8979 | 0.0128 |
| 3G130508.D | AD25970-001 | 09/19/21 18:38 | Soil | 3G13049 | 10.2473 | 0.039 | 10.8970 | 0.0046 |
| 3G130509.D | AD25970-002 | 09/19/21 18:53 | Soil | 3G13049 | 10.2499 | 0.0137 | 10.8959 | 0.0055 |
| 3G130510.D | AD25970-003 | 09/19/21 19:07 | Soil | 3G13049 | 10.2478 | 0.0341 | 10.8947 | 0.0165 |
| 3G130511.D | AD25970-004 | 09/19/21 19:22 | Soil | 3G13049 | 10.2497 | 0.0156 | 10.8976 | 0.0101 |
| 3G130512.D | AD25970-005 | 09/19/21 19:37 | Soil | 3G13049 | 10.2506 | 0.0068 | 10.8970 | 0.0046 |
| 3G130513.D | AD25970-006 | 09/19/21 19:52 | Soil | 3G13049 | 10.2496 | 0.0166 | 10.8968 | 0.0028 |
| 3G130514.D | AD25941-001 | 09/19/21 20:07 | Soil | 3G13049 | 10.2487 | 0.0254 | 10.8962 | 0.0027 |
| 3G130515.D | AD25941-002 | 09/19/21 20:21 | Soil | 3G13049 | 10.2504 | 0.0088 | 10.8975 | 0.0092 |
| 3G130516.D | AD25941-003 | 09/19/21 20:36 | Soil | 3G13049 | 10.2512 | 0.001 | 10.8979 | 0.0128 |
| 3G130517.D | AD25962-001 | 09/19/21 20:51 | Soil | 3G13049 | 10.2517 | 0.0039 | 10.8983 | 0.0165 |
| 3G130518.D | SMB94898(MS) | 09/19/21 21:06 | Soil | 3G13049 | 10.2520 | 0.0068 | 10.8982 | 0.0156 |
| 3G130519.D | SMB94893(MS) | 09/19/21 21:21 | Soil | 3G13049 | 10.2507 | 0.0059 | 10.8966 | 0.0009 |
| 3G130520.D | 1000PPB | 09/19/21 21:36 | Soil | 3G13049 | 10.2507 | 0.0059 | 10.8972 | 0.0064 |
| 3G130521.D | CAL 1660@2000PPB | 09/19/21 21:51 | Soil | 3G13049 | 10.2527 | 0.0137 | 10.8976 | 0.0101 |
| 3G130522.D | OMB94949(MS) | 09/19/21 22:06 | OIL/OTHER | 3G13052 | 10.2533 | 0.0059 | 10.8988 | 0.011 |
| 3G130523.D | SMB94945(MS) | 09/19/21 22:21 | Soil | 3G13052 | 10.2516 | 0.0107 | 10.8977 | 0.0009 |
| 3G130524.D | SMB94947(MS) | 09/19/21 22:36 | Soil | 3G13052 | 10.2525 | 0.002 | 10.8978 | 0.0018 |
| 3G130525.D | SMB94956 | 09/19/21 22:51 | Soil | 3G13052 | 10.2517 | 0.0097 | 10.8976 | 0 |
| 3G130526.D | SMB94956(MS) | 09/19/21 23:05 | Soil | 3G13052 | 10.2511 | 0.0156 | 10.8979 | 0.0027 |
| 3G130527.D | SMB94955 | 09/19/21 23:21 | Soil | 3G13052 | 10.2524 | 0.0029 | 10.8981 | 0.0046 |
| 3G130528.D | SMB94955(MS) | 09/19/21 23:35 | Soil | 3G13052 | 10.2486 | 0.04 | 10.8954 | 0.0202 |
| 3G130529.D | AD25976-007 | 09/19/21 23:50 | Soil | 3G13052 | 10.2502 | 0.0244 | 10.8976 | 0 |
| 3G130530.D | AD25976-006 | 09/20/21 00:05 | Soil | 3G13052 | 10.2491 | 0.0351 | 10.8970 | 0.0055 |
| 3G130531.D | AD25934-009 | 09/20/21 00:20 | Soil | 3G13052 | 10.2520 | 0.0068 | 10.8978 | 0.0018 |
| 3G130532.D | AD25962-002 | 09/20/21 00:35 | Soil | 3G13052 | 10.2516 | 0.0107 | 10.8985 | 0.0083 |
| 3G130533.D | AD25962-003 | 09/20/21 00:49 | Soil | 3G13052 | 10.2516 | 0.0107 | 10.8981 | 0.0046 |
| 3G130534.D | AD25962-004 | 09/20/21 01:04 | Soil | 3G13052 | 10.2517 | 0.0097 | 10.8986 | 0.0092 |
| 3G130535.D | AD25962-005 | 09/20/21 01:19 | Soil | 3G13052 | 10.2518 | 0.0088 | 10.8973 | 0.0028 |
| 3G130536.D | AD25976-010 | 09/20/21 01:34 | Soil | 3G13052 | 10.2508 | 0.0185 | 10.8978 | 0.0018 |
| 3G130537.D | AD25976-009 | 09/20/21 01:49 | Soil | 3G13052 | 10.2514 | 0.0127 | 10.8968 | 0.0073 |
| 3G130538.D | AD25976-008 | 09/20/21 02:03 | Soil | 3G13052 | 10.2514 | 0.0127 | 10.8977 | 0.0009 |
| 3G130539.D | AD26083-001 | 09/20/21 02:18 | Aqueous | 3G13052 | 10.2526 | 0.001 | 10.8979 | 0.0027 |
| 3G130540.D | AD26083-002 | 09/20/21 02:33 | Aqueous | 3G13052 | 10.2494 | 0.0322 | 10.8962 | 0.0128 |
| 3G130541.D | AD26083-003 | 09/20/21 02:48 | Aqueous | 3G13052 | 10.2517 | 0.0097 | 10.8979 | 0.0027 |
| 3G130542.D | 1000PPB | 09/20/21 03:02 | Aqueous | 3G13052 | 10.2523 | 0.0039 | 10.8982 | 0.0055 |
| 3G130543.D | CAL 1660@2000PPB | 09/20/21 03:17 | Aqueous | 3G13052 | 10.2536 | 0.0088 | 10.8994 | 0.0165 |
| 3G130544.D | WMB94963 | 09/20/21 03:32 | Aqueous | 3G13054 | 10.2531 | 0.0049 | 10.8973 | 0.0193 |
| 3G130545.D | WMB94963(MS) | 09/20/21 03:47 | Aqueous | 3G13054 | 10.2528 | 0.0078 | 10.8991 | 0.0027 |
| 3G130546.D | AD26083-042(MS AD26 | 09/20/21 04:01 | Aqueous | 3G13054 | 10.2501 | 0.0341 | 10.8969 | 0.0229 |
| 3G130547.D | AD26083-044(MSD AD2 | 09/20/21 04:16 | Aqueous | 3G13054 | 10.2498 | 0.0371 | 10.8966 | 0.0257 |
| 3G130548.D | AD26083-040 | 09/20/21 04:31 | Aqueous | 3G13054 | 10.2499 | 0.0361 | 10.8970 | 0.022 |
| 3G130549.D | AD26083-005 | 09/20/21 04:46 | Aqueous | 3G13054 | 10.2532 | 0.0039 | 10.8989 | 0.0046 |
| 3G130550.D | AD26083-006 | 09/20/21 05:01 | Aqueous | 3G13054 | 10.2518 | 0.0176 | 10.8986 | 0.0073 |
| 3G130551.D | AD26083-008 | 09/20/21 05:15 | Aqueous | 3G13054 | 10.2509 | 0.0263 | 10.8967 | 0.0248 |
| 3G130552.D | AD26083-009 | 09/20/21 05:30 | Aqueous | 3G13054 | 10.2522 | 0.0137 | 10.8981 | 0.0119 |
| 3G130553.D | AD26083-011 | 09/20/21 05:45 | Aqueous | 3G13054 | 10.2525 | 0.0107 | 10.8978 | 0.0147 |
| 3G130554.D | AD26083-012 | 09/20/21 06:00 | Aqueous | 3G13054 | 10.2525 | 0.0107 | 10.8971 | 0.0211 |
| 3G130555.D | AD26083-014 | 09/20/21 06:15 | Aqueous | 3G13054 | 10.2531 | 0.0049 | 10.8987 | 0.0064 |
| 3G130556.D | AD26083-016 | 09/20/21 06:29 | Aqueous | 3G13054 | 10.2536 | 0 | 10.8992 | 0.0018 |
| 3G130557.D | AD26083-018 | 09/20/21 06:44 | Aqueous | 3G13054 | 10.2523 | 0.0127 | 10.8977 | 0.0156 |
| 3G130558.D | AD26083-021 | 09/20/21 06:59 | Aqueous | 3G13054 | 10.2525 | 0.0107 | 10.8981 | 0.0119 |
| 3G130559.D | AD26083-023 | 09/20/21 07:14 | Aqueous | 3G13054 | 10.2526 | 0.0098 | 10.8992 | 0.0018 |
| 3G130560.D | AD26083-026 | 09/20/21 07:29 | Aqueous | 3G13054 | 10.2512 | 0.0234 | 10.8964 | 0.0275 |
| 3G130561.D | AD26083-027 | 09/20/21 07:44 | Aqueous | 3G13054 | 10.2534 | 0.002 | 10.8995 | 0.0009 |
| 3G130562.D | AD26083-028 | 09/20/21 07:58 | Aqueous | 3G13054 | 10.2510 | 0.0254 | 10.8971 | 0.0211 |

Drift Compound: DCB-Surrogate  Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)  * - Values outside of limits for this column/run

# Form 5

Method: EPA 8082A

Instrument: GC_3

Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 3G130563.D | 1000PPB | 09/20/21 08:13 | Aqueous | 3G13054 | 10.2525 | 0.0107 | 10.8991 | 0.0027 |
| 3G130564.D | CAL 1660@2000PPB | 09/20/21 12:45 | Aqueous | 3G13054 | 10.2632 | 0.0936 | 10.9022 | 0.0257 |

Drift Compound: DCB-Surrogate  Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)  * - Values outside of limits for this column/run

# Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 3G130566.D | 1000PPB | 09/21/21 07:38 | Aqueous | | | | | |
| 3G130567.D | CAL 1660@2000PPB | 09/21/21 07:55 | Aqueous | 3G13056 | 10.2573 | 0 | 10.9009 | 0 |
| 3G130568.D | WMB94975 | 09/21/21 08:42 | Aqueous | 3G13056 | 10.2634 | 0.0594 | 10.9034 | 0.0229 |
| 3G130569.D | WMB94975(MS) | 09/21/21 08:57 | Aqueous | 3G13056 | 10.2532 | 0.04 | 10.8980 | 0.0266 |
| 3G130570.D | AD25966-001 | 09/21/21 09:12 | Aqueous | 3G13056 | 10.2510 | 0.0614 | 10.8968 | 0.0376 |
| 3G130571.D | AD25966-002 | 09/21/21 09:27 | Aqueous | 3G13056 | 10.2506 | 0.0653 | 10.8959 | 0.0459 |
| 3G130572.D | AD25976-011 | 09/21/21 09:41 | Aqueous | 3G13056 | 10.2492 | 0.079 | 10.8953 | 0.0514 |
| 3G130573.D | OMB94982 | 09/21/21 09:56 | OIL/OTHER | 3G13056 | 10.2507 | 0.0644 | 10.8965 | 0.0404 |
| 3G130574.D | OMB94982(MS) | 09/21/21 10:11 | OIL/OTHER | 3G13056 | 10.2521 | 0.0507 | 10.8972 | 0.034 |
| 3G130575.D | SMB94980 | 09/21/21 10:26 | Soil | 3G13056 | 10.2501 | 0.0702 | 10.8958 | 0.0468 |
| 3G130576.D | SMB94980(MS) | 09/21/21 10:42 | Soil | 3G13056 | 10.2508 | 0.0634 | 10.8956 | 0.0486 |
| 3G130577.D | SMB94979 | 09/21/21 10:57 | Soil | 3G13056 | 10.2506 | 0.0653 | 10.8972 | 0.034 |
| 3G130578.D | SMB94979(MS) | 09/21/21 11:12 | Soil | 3G13056 | 10.2499 | 0.0722 | 10.8963 | 0.0422 |
| 3G130579.D | AD26043-001 | 09/21/21 11:26 | Soil | 3G13056 | 10.2493 | 0.078 | 10.8958 | 0.0468 |
| 3G130580.D | AD26017-001 | 09/21/21 11:41 | Soil | 3G13056 | 10.2498 | 0.0732 | 10.8965 | 0.0404 |
| 3G130581.D | AD26017-002 | 09/21/21 11:56 | Soil | 3G13056 | 10.2496 | 0.0751 | 10.8947 | 0.0569 |
| 3G130582.D | AD26017-003 | 09/21/21 12:11 | Soil | 3G13056 | 10.2512 | 0.0595 | 10.8977 | 0.0294 |
| 3G130583.D | AD26017-004 | 09/21/21 12:26 | Soil | 3G13056 | 10.2516 | 0.0556 | 10.8967 | 0.0385 |
| 3G130584.D | AD26017-005 | 09/21/21 12:41 | Soil | 3G13056 | 10.2499 | 0.0722 | 10.8956 | 0.0486 |
| 3G130585.D | AD25989-004 | 09/21/21 12:56 | Soil | 3G13056 | 10.2496 | 0.0751 | 10.8951 | 0.0532 |
| 3G130586.D | AD25989-005 | 09/21/21 13:11 | Soil | 3G13056 | 10.2503 | 0.0683 | 10.8970 | 0.0358 |
| 3G130587.D | AD25989-006 | 09/21/21 13:26 | Soil | 3G13056 | 10.2499 | 0.0722 | 10.8955 | 0.0495 |
| 3G130588.D | CAL 1660@2000PPB | 09/21/21 16:11 | Soil | 3G13056 | 10.2646 | 0.0711 | 10.9036 | 0.0248 |
| 3G130589.D | AD26083-049(MS:AD26 | 09/21/21 16:53 | Aqueous | 3G13058 | 10.2641 | 0.0049 | 10.9046 | 0.0092 |
| 3G130590.D | AD26083-050(MSD:AD2 | 09/21/21 17:08 | Aqueous | 3G13058 | 10.2541 | 0.1023 | 10.8983 | 0.0486 |
| 3G130591.D | AD25982-001 | 09/21/21 17:23 | Aqueous | 3G13058 | 10.2473 | 0.1687 | 10.8963 | 0.067 |
| 3G130592.D | AD25983-001 | 09/21/21 17:38 | Aqueous | 3G13058 | 10.2495 | 0.1472 | 10.8987 | 0.0449 |
| 3G130593.D | AD25989-001 | 09/21/21 17:53 | Soil | 3G13058 | 10.2507 | 0.1355 | 10.8971 | 0.0596 |
| 3G130594.D | AD25989-002 | 09/21/21 18:08 | Soil | 3G13058 | 10.2509 | 0.1336 | 10.8971 | 0.0596 |
| 3G130595.D | AD25981-001 | 09/21/21 18:22 | Soil | 3G13058 | 10.2500 | 0.1423 | 10.8963 | 0.067 |
| 3G130596.D | AD25981-002 | 09/21/21 18:37 | Soil | 3G13058 | 10.2508 | 0.1345 | 10.8968 | 0.0624 |
| 3G130597.D | AD25981-003 | 09/21/21 18:52 | Soil | 3G13058 | 10.2468 | 0.1736 | 10.8969 | 0.0615 |
| 3G130598.D | AD25981-004 | 09/21/21 19:07 | Soil | 3G13058 | 10.2472 | 0.1697 | 10.8955 | 0.0743 |
| 3G130599.D | AD25981-005 | 09/21/21 19:22 | Soil | 3G13058 | 10.2498 | 0.1443 | 10.8953 | 0.0761 |
| 3G130600.D | AD25981-006 | 09/21/21 19:36 | Soil | 3G13058 | 10.2482 | 0.1599 | 10.8961 | 0.0688 |
| 3G130601.D | AD25981-007 | 09/21/21 19:51 | Soil | 3G13058 | 10.2497 | 0.1453 | 10.8965 | 0.0651 |
| 3G130602.D | AD25981-008 | 09/21/21 20:06 | Soil | 3G13058 | 10.2497 | 0.1453 | 10.8966 | 0.0642 |
| 3G130603.D | AD25981-009 | 09/21/21 20:21 | Soil | 3G13058 | 10.2500 | 0.1423 | 10.8970 | 0.0605 |
| 3G130604.D | 1000PPB | 09/21/21 20:36 | Soil | 3G13058 | 10.2519 | 0.1238 | 10.8983 | 0.0486 |
| 3G130605.D | CAL 1660@2000PPB | 09/21/21 20:51 | Soil | 3G13058 | 10.2515 | 0.1277 | 10.8975 | 0.056 |

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

# Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 3G130611 D | CAL 2154@500PPB | 09/22/21 10:45 | Soil | 3G13061 | 10.2441 | 0.0019 | 10.8845 | 0.0018 |
| 3G130612 D | CAL 3268@500PPB | 09/22/21 11:32 | Soil | 3G13061 | 10.2562 | 0.12 | 10.8913 | 0.0643 |
| 3G130613 D | CAL 1242@500PPB | 09/22/21 11:47 | Soil | 3G13061 | 10.2463 | 0.0234 | 10.8855 | 0.011 |
| 3G130614 D | CAL 1248@500PPB | 09/22/21 12:01 | Soil | 3G13061 | 10.2451 | 0.0117 | 10.8849 | 0.0055 |
| 3G130615 D | CAL 1262@500PPB | 09/22/21 12:16 | Soil | 3G13061 | 10.2442 | 0.0029 | 10.8851 | 0.0074 |
| 3G130616 D | CAL 1660@50PPB | 09/22/21 12:31 | Soil | 3G13061 | 10.2439 | 0 | 10.8843 | 0 |
| 3G130617 D | CAL 1660@200PPB | 09/22/21 12:46 | Soil | 3G13061 | 10.2452 | 0.0127 | 10.8850 | 0.0064 |
| 3G130618 D | CAL 1660@500PPB | 09/22/21 13:01 | Soil | 3G13061 | 10.2450 | 0.0107 | 10.8848 | 0.0046 |
| 3G130619 D | CAL 1660@1000PPB | 09/22/21 13:16 | Soil | 3G13061 | 10.2440 | 0.001 | 10.8858 | 0.0138 |
| 3G130620 D | CAL 1660@2000PPB | 09/22/21 13:31 | Soil | 3G13061 | 10.2445 | 0.0059 | 10.8851 | 0.0074 |
| 3G130621 D | CAL 1660@4000PPB | 09/22/21 13:45 | Soil | 3G13061 | 10.2436 | 0.0029 | 10.8852 | 0.0083 |
| 3G130622 D | ICV | 09/22/21 14:00 | Soil | 3G13061 | 10.2443 | 0.0039 | 10.8862 | 0.0175 |
| 3G130623 D | PEST WS | 09/22/21 14:15 | Soil | 3G13061 | 0.0000 | 200* | 0.0000 | 200* |

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

# Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 3G130696.D | 1000PPB | 09/27/21 08:49 | Soil | | | | | |
| 3G130697.D | CAL 1660@1000PPB | 09/27/21 16:43 | Soil | 3G13069 | 10.2567 | 0 | 10.8930 | 0 |
| 3G130698.D | AD25988-001 | 09/27/21 16:59 | Aqueous | 3G13069 | 10.2487 | 0.078 | 10.8888 | 0.0386 |
| 3G130699.D | AD26139-001 | 09/27/21 18:05 | Soil | 3G13069 | 10.2575 | 0.0078 | 10.9009 | 0.0725 |
| 3G130700.D | AD26139-002 | 09/27/21 18:20 | Soil | 3G13069 | 10.2469 | 0.0956 | 10.8963 | 0.0303 |
| 3G130701.D | AD26139-003 | 09/27/21 18:35 | Soil | 3G13069 | 10.2459 | 0.1053 | 10.8954 | 0.022 |
| 3G130702.D | AD26139-004 | 09/27/21 18:49 | Soil | 3G13069 | 10.2447 | 0.1171 | 10.8940 | 0.0092 |
| 3G130703.D | AD26139-005 | 09/27/21 19:04 | Soil | 3G13069 | 10.2451 | 0.1132 | 10.8950 | 0.0184 |
| 3G130704.D | AD26130-002 | 09/27/21 19:19 | Soil | 3G13069 | 10.2427 | 0.1366 | 10.8891 | 0.0358 |
| 3G130705.D | AD26144-003 | 09/27/21 19:34 | Soil | 3G13069 | 10.2444 | 0.12 | 10.8894 | 0.0331 |
| 3G130706.D | AD26144-006 | 09/27/21 19:49 | Soil | 3G13069 | 10.2445 | 0.119 | 10.8888 | 0.0386 |
| 3G130707.D | AD26204-003 | 09/27/21 20:04 | Soil | 3G13069 | 10.2448 | 0.1161 | 10.8891 | 0.0358 |
| 3G130708.D | AD26211-001 | 09/27/21 20:18 | Soil | 3G13069 | 10.2408 | 0.1551 | 10.8885 | 0.0413 |
| 3G130709.D | AD26211-003 | 09/27/21 20:33 | Soil | 3G13069 | 10.2414 | 0.1493 | 10.8874 | 0.0514 |
| 3G130710.D | AD26016-002 | 09/27/21 20:48 | Soil | 3G13069 | 10.2445 | 0.119 | 10.8883 | 0.0432 |
| 3G130711.D | AD26018-001 | 09/27/21 21:03 | Soil | 3G13069 | 10.2429 | 0.1346 | 10.8881 | 0.045 |
| 3G130712.D | AD26160-004(MS) | 09/27/21 21:18 | Soil | 3G13069 | 10.2427 | 0.1366 | 10.8885 | 0.0413 |
| 3G130713.D | AD26160-004(MSD) | 09/27/21 21:33 | Soil | 3G13069 | 10.2445 | 0.119 | 10.8891 | 0.0358 |
| 3G130714.D | AD26160-004 | 09/27/21 21:47 | Soil | 3G13069 | 10.2440 | 0.1239 | 10.8883 | 0.0432 |
| 3G130715.D | CAL 1660@1000PPB | 09/27/21 22:02 | Soil | 3G13069 | 10.2459 | 0.1053 | 10.8887 | 0.0395 |
| 3G130716.D | 2000PPB | 09/27/21 22:17 | Soil | 3G13071 | 10.2451 | 0.0078 | 10.8881 | 0.0055 |
| 3G130717.D | AD26160-001 | 09/27/21 22:32 | Soil | 3G13071 | 10.2429 | 0.0293 | 10.8882 | 0.0046 |
| 3G130718.D | AD26083-002(R) | 09/27/21 22:47 | Aqueous | 3G13071 | 10.2435 | 0.0234 | 10.8888 | 0.0009 |
| 3G130719.D | AD26083-046 | 09/27/21 23:01 | Aqueous | 3G13071 | 10.2447 | 0.0117 | 10.8886 | 0.0009 |
| 3G130720.D | AD26083-048 | 09/27/21 23:16 | Aqueous | 3G13071 | 10.2444 | 0.0146 | 10.8892 | 0.0046 |
| 3G130721.D | AD25960-001 | 09/27/21 23:31 | Aqueous | 3G13071 | 10.2436 | 0.0225 | 10.8885 | 0.0018 |
| 3G130722.D | AD26120-001(MS) | 09/27/21 23:46 | Aqueous | 3G13071 | 10.2463 | 0.0039 | 10.8893 | 0.0055 |
| 3G130723.D | AD26120-001(MSD) | 09/28/21 00:01 | Aqueous | 3G13071 | 10.2456 | 0.0029 | 10.8897 | 0.0092 |
| 3G130724.D | AD26160-002 | 09/28/21 00:15 | Soil | 3G13071 | 10.2416 | 0.042 | 10.8878 | 0.0083 |
| 3G130725.D | AD26160-003 | 09/28/21 00:30 | Soil | 3G13071 | 10.2417 | 0.041 | 10.8876 | 0.0101 |
| 3G130726.D | AD26160-005 | 09/28/21 00:45 | Soil | 3G13071 | 10.2443 | 0.0156 | 10.8885 | 0.0018 |
| 3G130727.D | AD26160-006 | 09/28/21 01:00 | Soil | 3G13071 | 10.2445 | 0.0137 | 10.8880 | 0.0064 |
| 3G130728.D | AD26112-006 | 09/28/21 01:15 | Soil | 3G13071 | 10.2437 | 0.0215 | 10.8878 | 0.0083 |
| 3G130729.D | AD26123-001 | 09/28/21 01:30 | Soil | 3G13071 | 10.2437 | 0.0215 | 10.8882 | 0.0046 |
| 3G130730.D | AD26123-002 | 09/28/21 01:44 | Soil | 3G13071 | 10.2446 | 0.0127 | 10.8893 | 0.0055 |
| 3G130731.D | AD26123-005 | 09/28/21 01:59 | Soil | 3G13071 | 10.2440 | 0.0185 | 10.8889 | 0.0018 |
| 3G130732.D | AD26123-006 | 09/28/21 02:14 | Soil | 3G13071 | 10.2420 | 0.0381 | 10.8882 | 0.0046 |
| 3G130733.D | AD26139-006 | 09/28/21 02:29 | Soil | 3G13071 | 10.2415 | 0.043 | 10.8918 | 0.0285 |
| 3G130734.D | 1000PPB | 09/28/21 02:44 | Soil | 3G13071 | 10.2447 | 0.0117 | 10.8887 | 0 |
| 3G130735.D | CAL 1660@2000PPB | 09/28/21 02:58 | Soil | 3G13071 | 10.2451 | 0.0078 | 10.8895 | 0.0073 |

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

# Form 5

Method: EPA 8082A

Instrument: GC_3

Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 3G130754.D | 1000PPB | 09/29/21 08:43 | Soil | | | | | |
| 3G130755.D | CAL 1660@1000PPB | 09/29/21 09:01 | Soil | 3G13075 | 10.2458 | 0 | 10.8874 | 0 |
| 3G130756.D | WMB95063 | 09/29/21 09:17 | Aqueous | 3G13075 | 10.2455 | 0.0029 | 10.8864 | 0.0092 |
| 3G130757.D | WMB95063(MS) | 09/29/21 09:32 | Aqueous | 3G13075 | 10.2429 | 0.0283 | 10.8864 | 0.0092 |
| 3G130758.D | AD26174-001 | 09/29/21 09:47 | Aqueous | 3G13075 | 10.2426 | 0.0312 | 10.8857 | 0.0156 |
| 3G130759.D | AD26185-001 | 09/29/21 10:02 | Aqueous | 3G13075 | 10.2411 | 0.0459 | 10.8850 | 0.022 |
| 3G130760.D | AD26228-001 | 09/29/21 10:16 | Aqueous | 3G13075 | 10.2411 | 0.0459 | 10.8850 | 0.022 |
| 3G130761.D | AD26228-002 | 09/29/21 10:31 | Aqueous | 3G13075 | 10.2411 | 0.0459 | 10.8847 | 0.0248 |
| 3G130762.D | AD26228-003 | 09/29/21 10:46 | Aqueous | 3G13075 | 10.2421 | 0.0361 | 10.8857 | 0.0156 |
| 3G130763.D | AD26228-004 | 09/29/21 11:01 | Aqueous | 3G13075 | 10.2408 | 0.0488 | 10.8845 | 0.0266 |
| 3G130764.D | AD26228-005 | 09/29/21 11:16 | Aqueous | 3G13075 | 10.2430 | 0.0273 | 10.8850 | 0.022 |
| 3G130765.D | AD26083-040(R) | 09/29/21 11:31 | Aqueous | 3G13075 | 10.2405 | 0.0517 | 10.8853 | 0.0193 |
| 3G130766.D | AD26083-019 | 09/29/21 11:46 | Aqueous | 3G13075 | 10.2425 | 0.0322 | 10.8863 | 0.0101 |
| 3G130767.D | AD26083-030 | 09/29/21 12:01 | Aqueous | 3G13075 | 10.2434 | 0.0234 | 10.8857 | 0.0156 |
| 3G130768.D | AD26083-032 | 09/29/21 12:15 | Aqueous | 3G13075 | 10.2432 | 0.0254 | 10.8866 | 0.0073 |
| 3G130769.D | AD26083-033 | 09/29/21 12:30 | Aqueous | 3G13075 | 10.2442 | 0.0156 | 10.8860 | 0.0129 |
| 3G130770.D | AD26083-035 | 09/29/21 12:45 | Aqueous | 3G13075 | 10.2443 | 0.0146 | 10.8861 | 0.0119 |
| 3G130771.D | AD26083-036 | 09/29/21 13:00 | Aqueous | 3G13075 | 10.2437 | 0.0205 | 10.8867 | 0.0064 |
| 3G130772.D | AD26083-038 | 09/29/21 13:15 | Aqueous | 3G13075 | 10.2442 | 0.0156 | 10.8870 | 0.0037 |
| 3G130773.D | AD26140-003 | 09/29/21 13:30 | Soil | 3G13075 | 10.2390 | 0.0664 | 10.8859 | 0.0138 |
| 3G130774.D | CAL 1660@1000PPB | 09/29/21 13:53 | Soil | 3G13075 | 10.2529 | 0.0693 | 10.8914 | 0.0367 |
| 3G130775.D | WMB95074 | 09/29/21 14:21 | Aqueous | 3G13077 | 10.2552 | 0.0224 | 10.8919 | 0.0046 |
| 3G130776.D | WMB95074(MS) | 09/29/21 14:36 | Aqueous | 3G13077 | 10.2465 | 0.0624 | 10.8873 | 0.0377 |
| 3G130777.D | AD26176-001 | 09/29/21 14:51 | Aqueous | 3G13077 | 10.2425 | 0.1015 | 10.8862 | 0.0478 |
| 3G130778.D | AD26183-002 | 09/29/21 15:05 | Aqueous | 3G13077 | 10.2392 | 0.1337 | 10.8872 | 0.0386 |
| 3G130779.D | AD26183-002(MS) | 09/29/21 15:20 | Aqueous | 3G13077 | 10.2414 | 0.1122 | 10.8868 | 0.0422 |
| 3G130780.D | AD26183-002(MSD) | 09/29/21 15:35 | Aqueous | 3G13077 | 10.2431 | 0.0956 | 10.8865 | 0.045 |
| 3G130781.D | AD26214-005 | 09/29/21 15:50 | Soil | 3G13077 | 10.2453 | 0.0742 | 10.8860 | 0.0496 |
| 3G130782.D | SMB95067(MS) | 09/29/21 17:04 | OIL/OTHER | 3G13077 | 10.2570 | 0.04 | 10.8947 | 0.0303 |
| 3G130783.D | SMB95067(MS)(DUP) | 09/29/21 17:19 | OIL/OTHER | 3G13077 | 10.2467 | 0.0605 | 10.8887 | 0.0248 |
| 3G130784.D | SMB95068(MS) | 09/29/21 17:34 | Soil | 3G13077 | 10.2449 | 0.0781 | 10.8865 | 0.045 |
| 3G130785.D | SMB95068(MS)(DUP) | 09/29/21 17:49 | Soil | 3G13077 | 10.2441 | 0.0859 | 10.8875 | 0.0358 |
| 3G130786.D | CAL 1660@1000PPB | 09/29/21 18:04 | OIL/OTHER | 3G13077 | 10.2464 | 0.0634 | 10.8889 | 0.023 |

Drift Compound: DCB-Surrogate  Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)  * - Values outside of limits for this column/run

# GC PCB Data
# Sample Data

# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-001
Client Id: LTM-22-20210913
Data File: 3G130539.D
Analysis Date: 09/20/21 02:18
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130539.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 2:18
Operator : MS/MLC/MC
Sample : AD26083-001
Misc : A,PCB
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:06:23 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

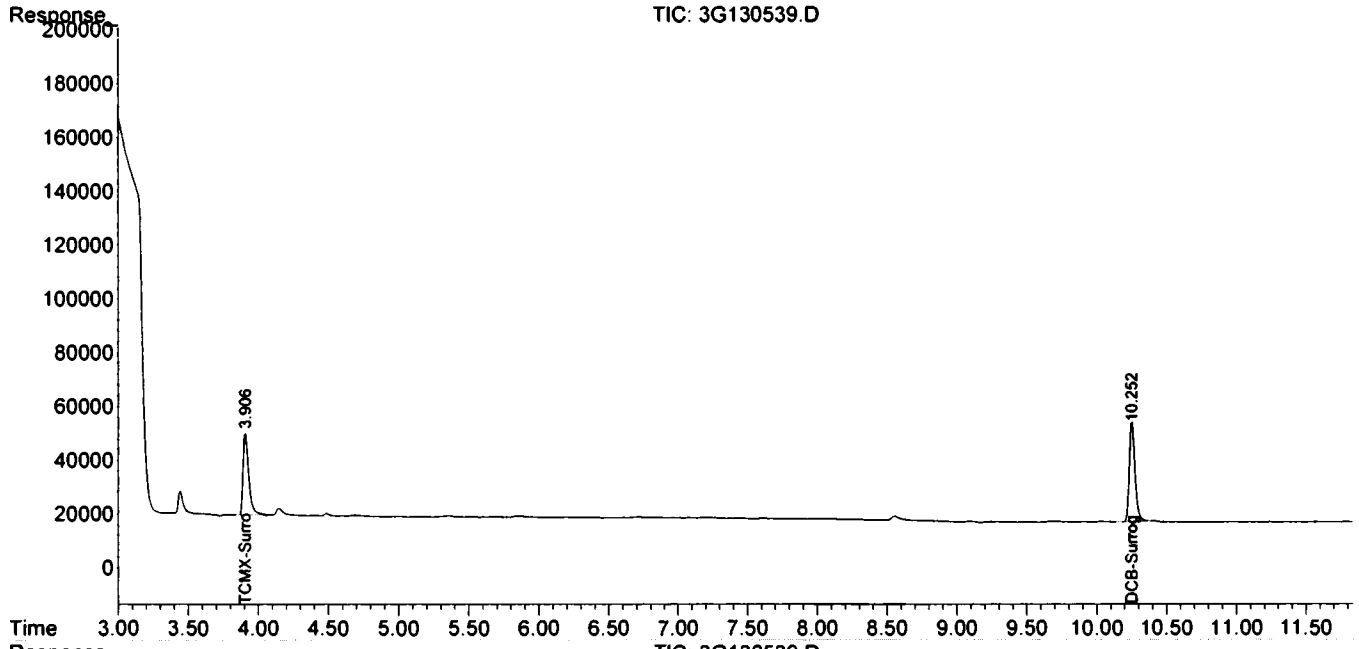
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.907 | 3.941 | 861776 | 1035126 | 53.664 | 64.940 |
| 45) | DCB-Surrogate | 10.253 | 10.898 | 1036656 | 1285027 | 69.720 | 84.042 |

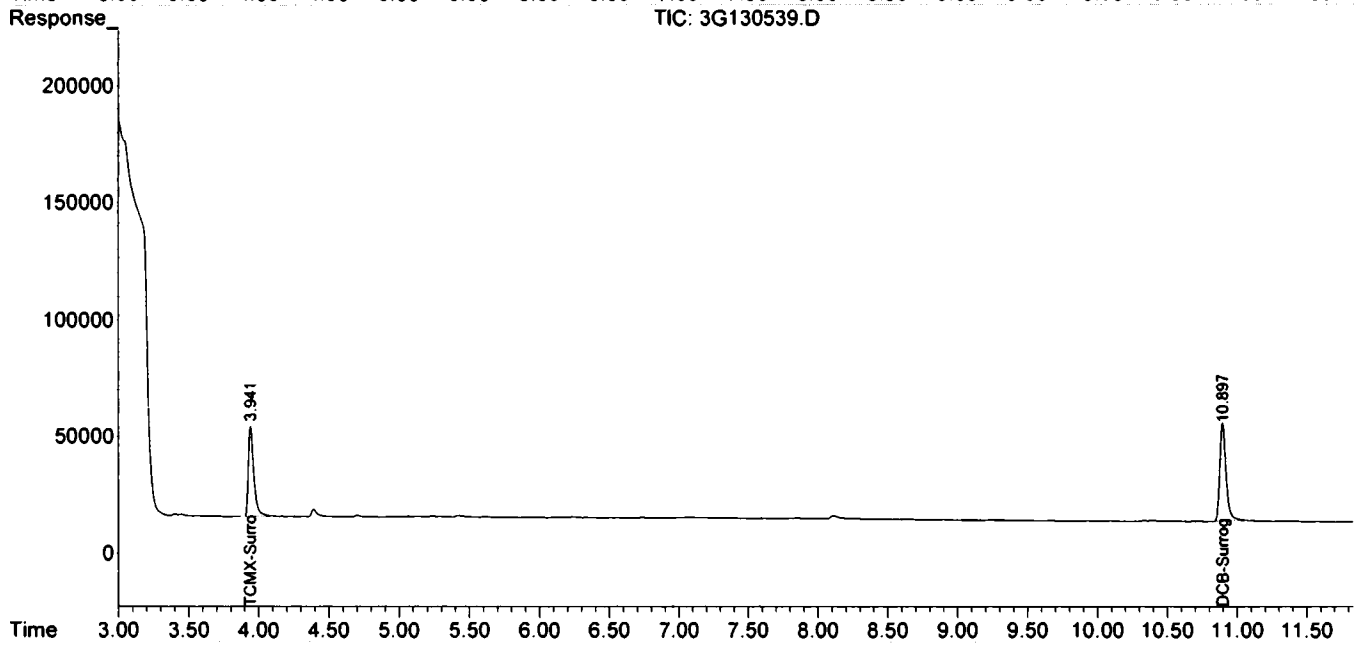
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130539.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 2:18
Operator : MS/MLC/MC
Sample : AD26083-001
Misc : A,PCB
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:06:23 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-002(R)
Client Id: LTM-8-20210913
Data File: 3G130718.D
Analysis Date: 09/27/21 22:47
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-27-21\
Data File : 3G130718.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2021 22:47
Operator : MS/MLC/MC
Sample : AD26083-002(R)
Misc : A,PCB
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 11:34:29 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

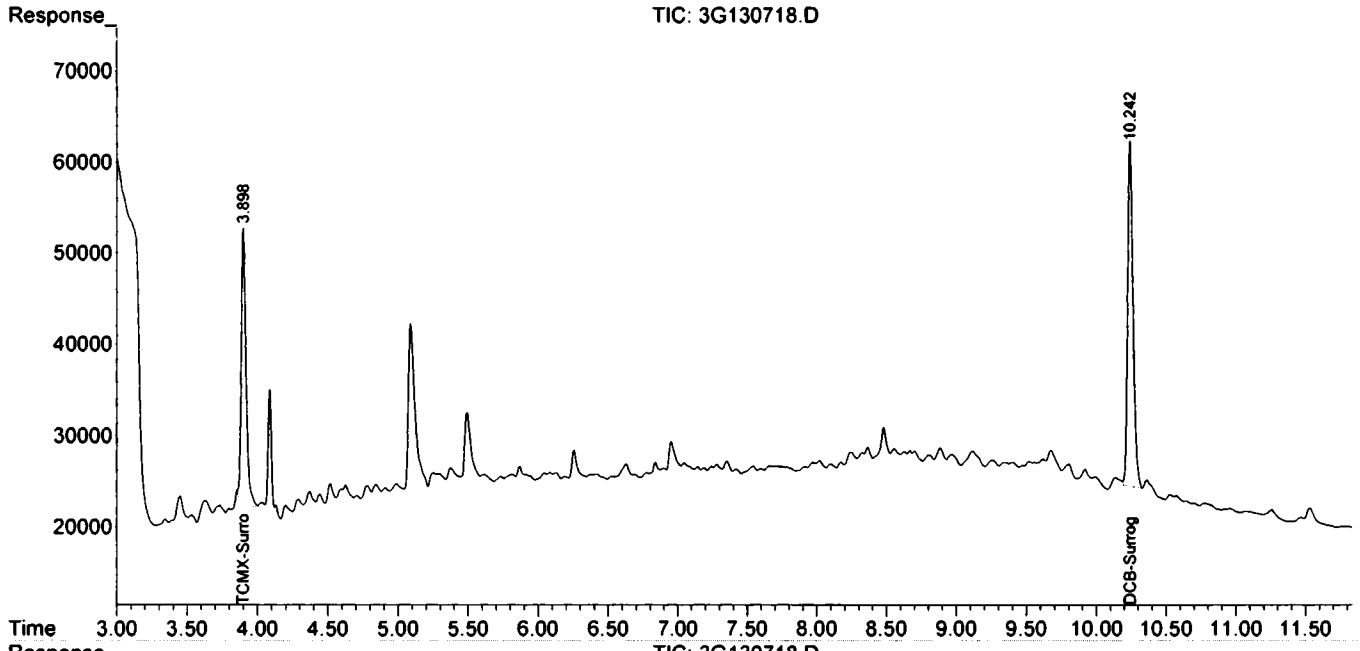
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.898 | 3.934 | 724088 | 831866 | 39.516m | 40.459 |
| 45) | DCB-Surrogate | 10.244 | 10.889 | 1026849 | 1531712 | 63.176 | 78.476 |

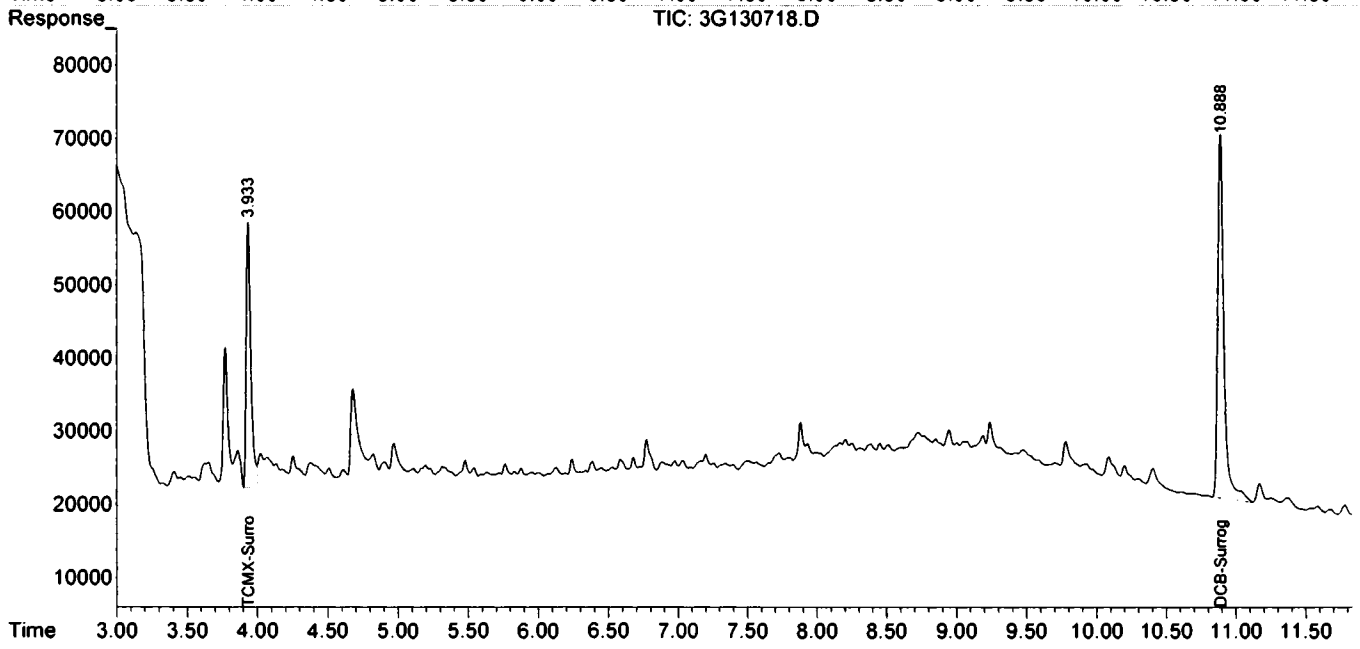
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-27-21\
Data File : 3G130718.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2021 22:47
Operator : MS/MLC/MC
Sample : AD26083-002(R)
Misc : A,PCB
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 11:34:29 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-003
Client Id: LTM-10-20210913 U
Data File: 3G130541.D
Analysis Date: 09/20/21 02:48
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130541.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 2:48
Operator : MS/MLC/MC
Sample : AD26083-003
Misc : A,PCB
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 11:59:40 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

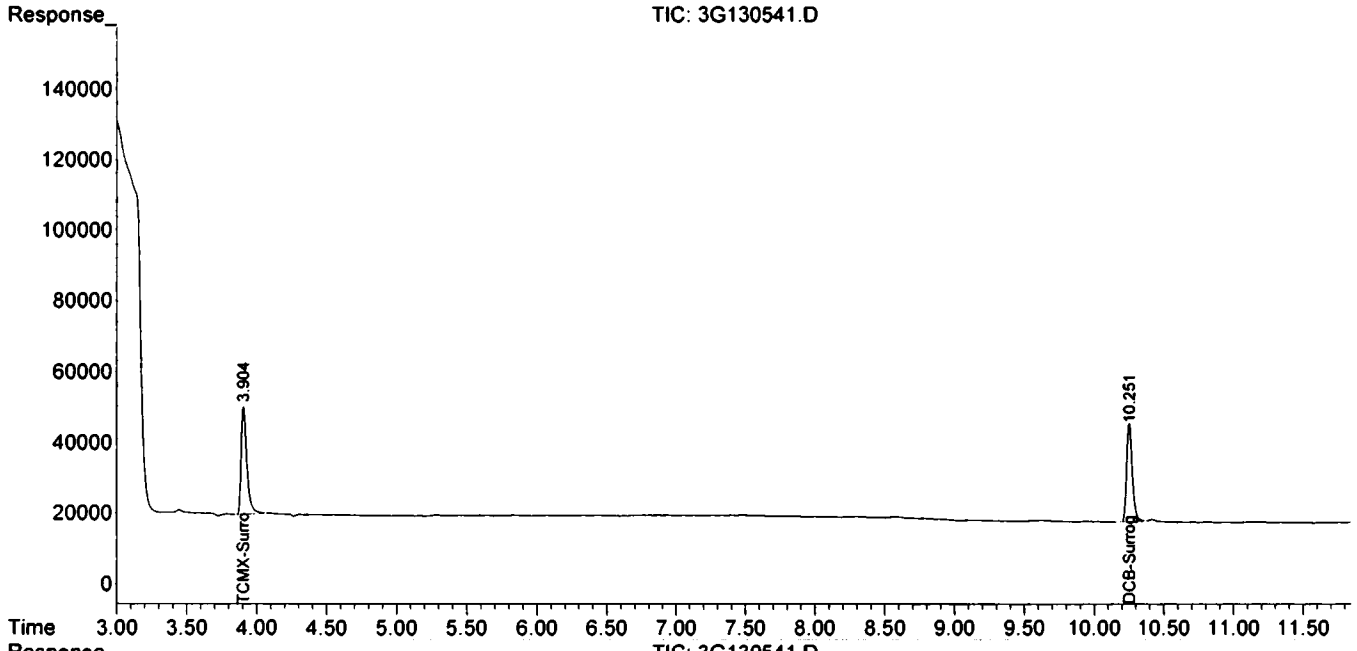
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.905 | 3.940 | 852377 | 1075282 | 53.079 | 67.459 # |
| 45) | DCB-Surrogate | 10.252 | 10.898 | 784910 | 959427 | 52.789 | 62.748 |

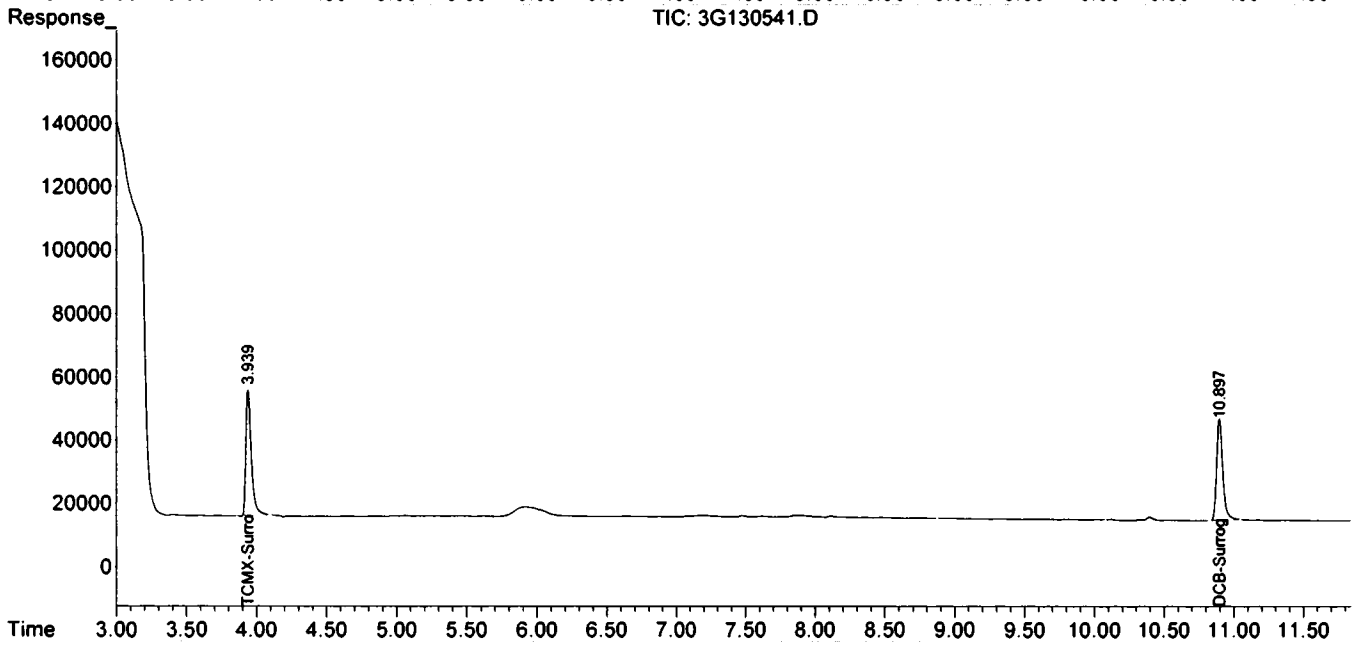
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130541.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 2:48
Operator : MS/MLC/MC
Sample : AD26083-003
Misc : A,PCB
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 11:59:40 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-005
Client Id: FB-20210913
Data File: 3G130549.D
Analysis Date: 09/20/21 04:46
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130549.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 4:46
Operator : MS/MLC/MC
Sample : AD26083-005
Misc : A,PCB
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 11:59:53 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

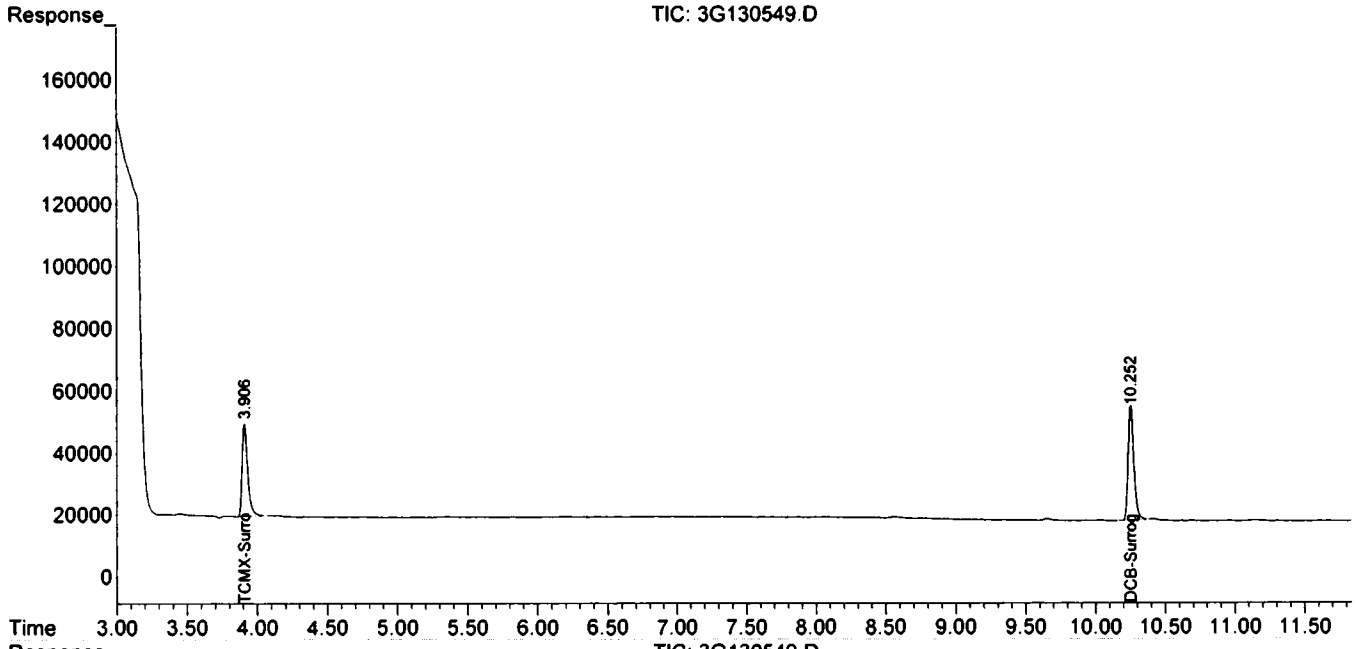
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | | |
| 1) | TCMX-Surrogate | 3.907 | 3.942 | 824225 | 1046113 | 51.326 | 65.629 | # |
| 45) | DCB-Surrogate | 10.253 | 10.899 | 1049264 | 1276198 | 70.568 | 83.465 | |

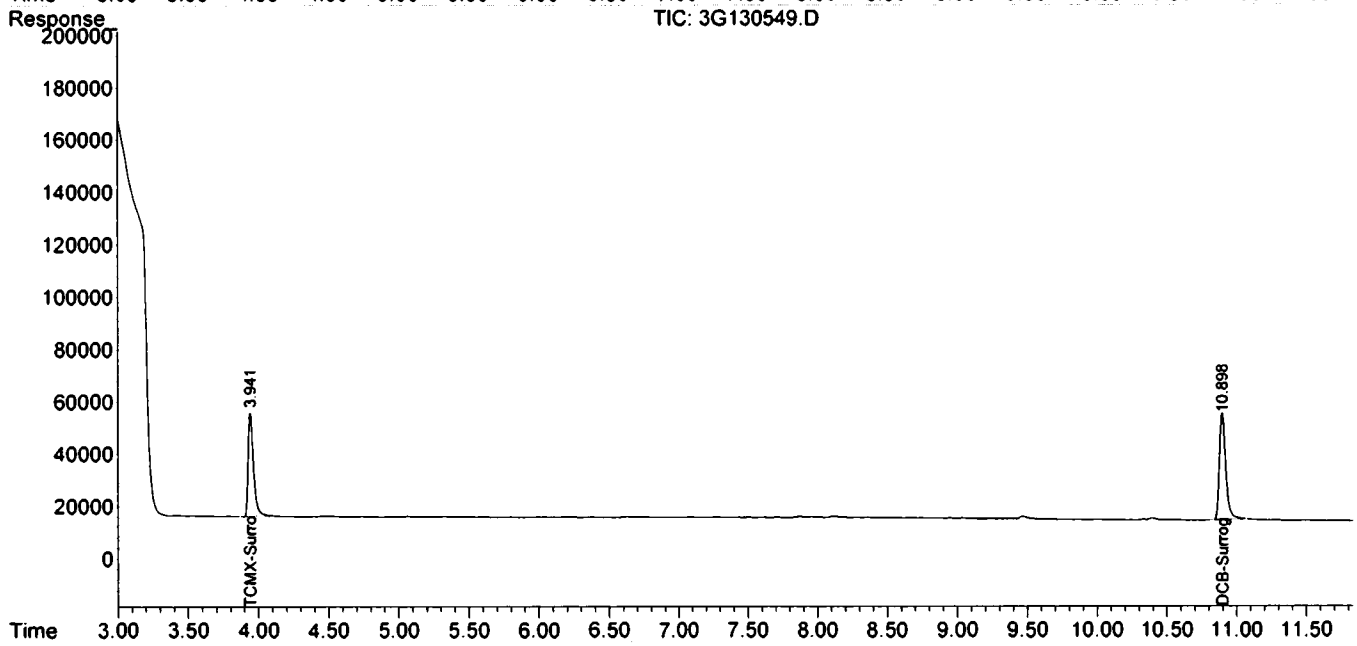
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130549.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 4:46
Operator : MS/MLC/MC
Sample : AD26083-005
Misc : A,PCB
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 11:59:53 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-006
Client Id: LTM-9-20210913 U
Data File: 3G130550.D
Analysis Date: 09/20/21 05:01
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130550.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 5:01
Operator : MS/MLC/MC
Sample : AD26083-006
Misc : A,PCB
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 11:59:54 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

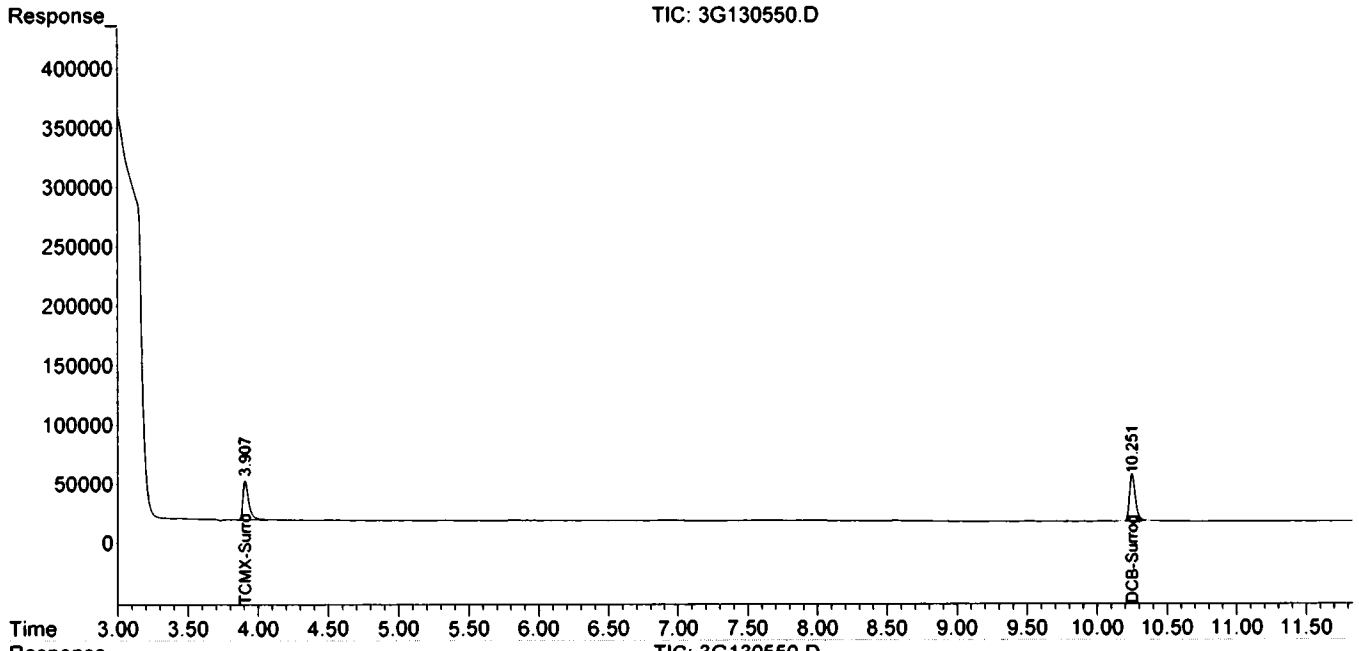
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.908 | 3.943 | 912772 | 1126342 | 56.839 | 70.663 |
| 45) | DCB-Surrogate | 10.252 | 10.899 | 1139398 | 1352921 | 76.630 | 88.483 |

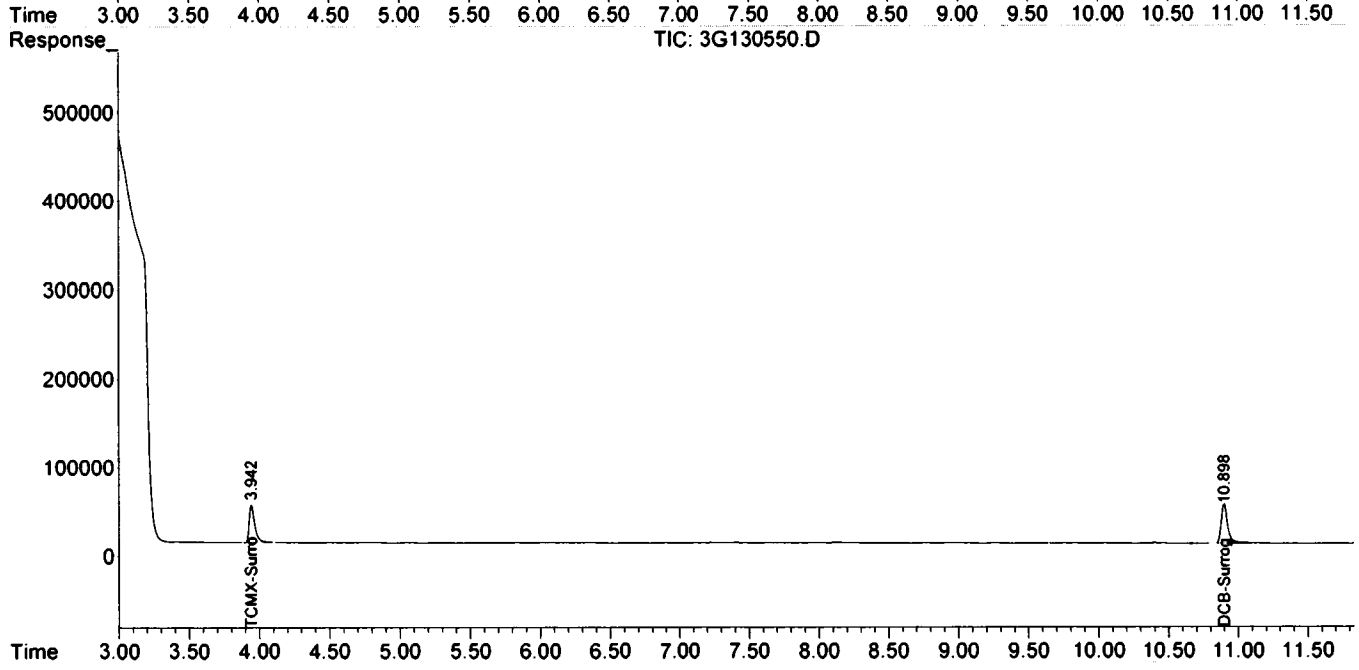
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130550.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 5:01
Operator : MS/MLC/MC
Sample : AD26083-006
Misc : A,PCB
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 11:59:54 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-008
Client Id: LTM-11-20210913
Data File: 3G130551.D
Analysis Date: 09/20/21 05:15
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130551.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 5:15
Operator : MS/MLC/MC
Sample : AD26083-008
Misc : A,PCB
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 11:59:55 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

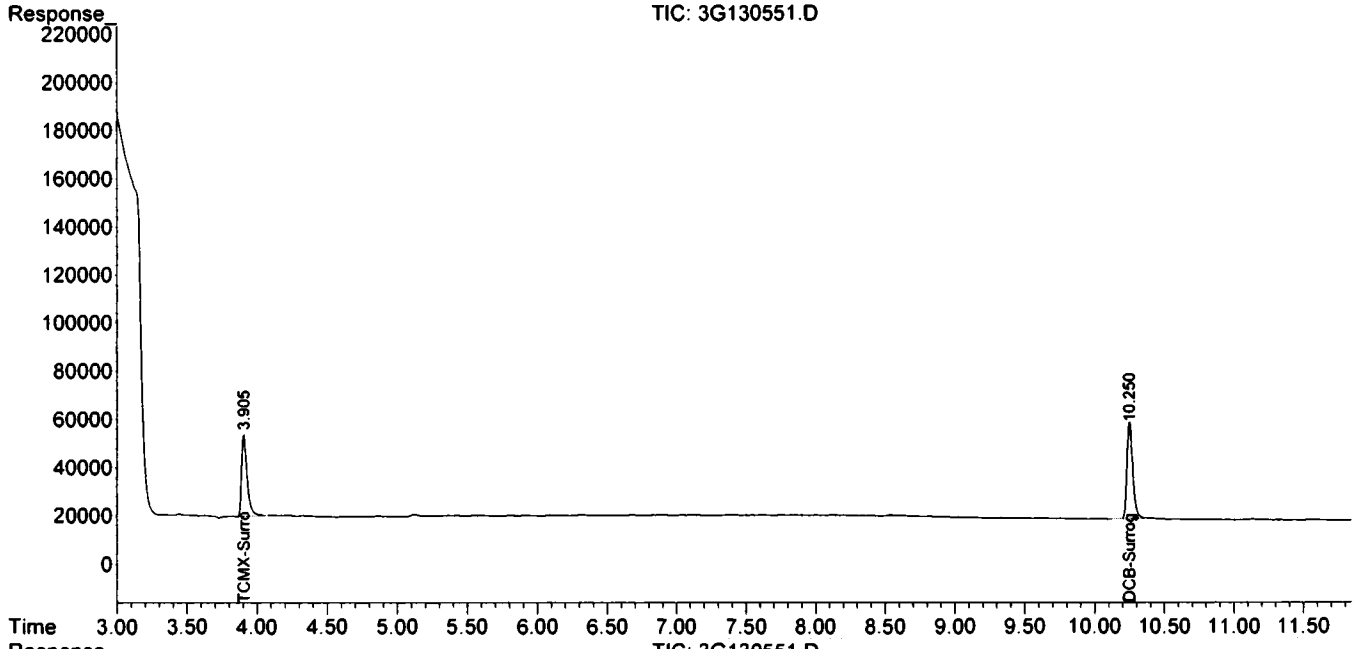
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.906 | 3.941 | 938387 | 1156439 | 58.435 | 72.551 |
| 45) | DCB-Surrogate | 10.251 | 10.897 | 1143583 | 1370055 | 76.912 | 89.603 |

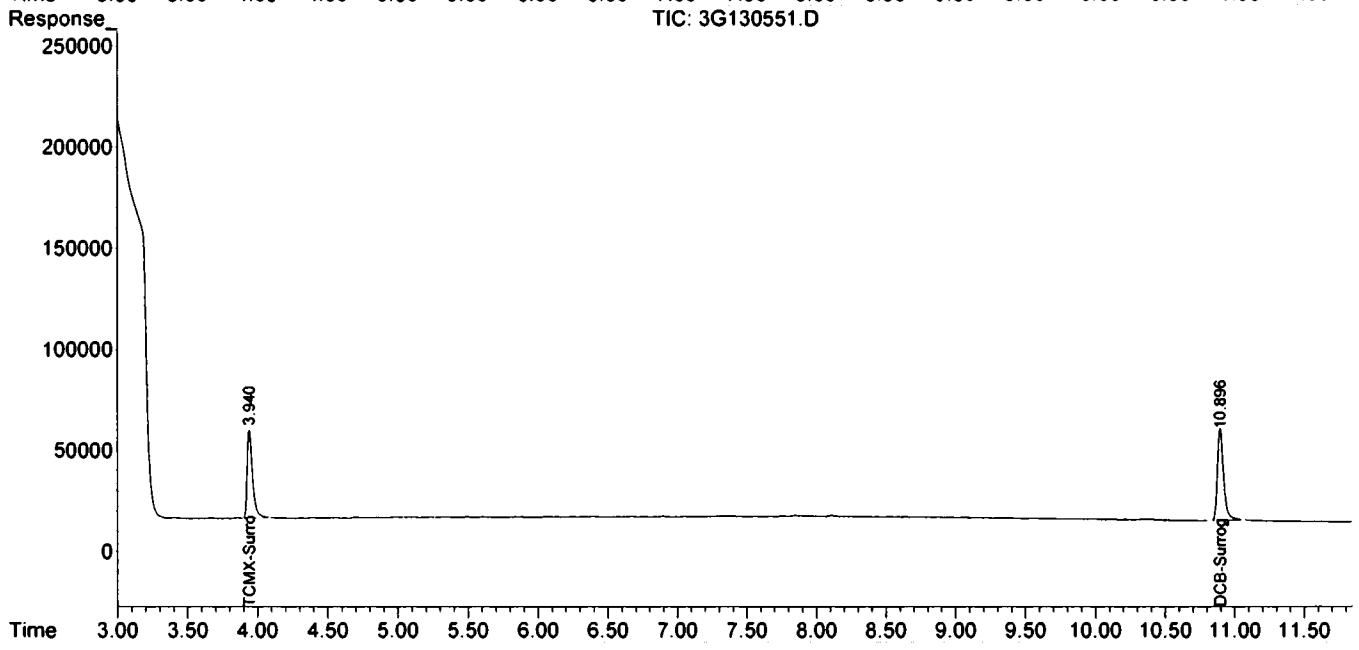
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130551.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 5:15
Operator : MS/MLC/MC
Sample : AD26083-008
Misc : A,PCB
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 11:59:55 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-009
Client Id: DUP-01-20210913
Data File: 3G130552.D
Analysis Date: 09/20/21 05:30
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130552.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 5:30
Operator : MS/MLC/MC
Sample : AD26083-009
Misc : A,PCB
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:13:39 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

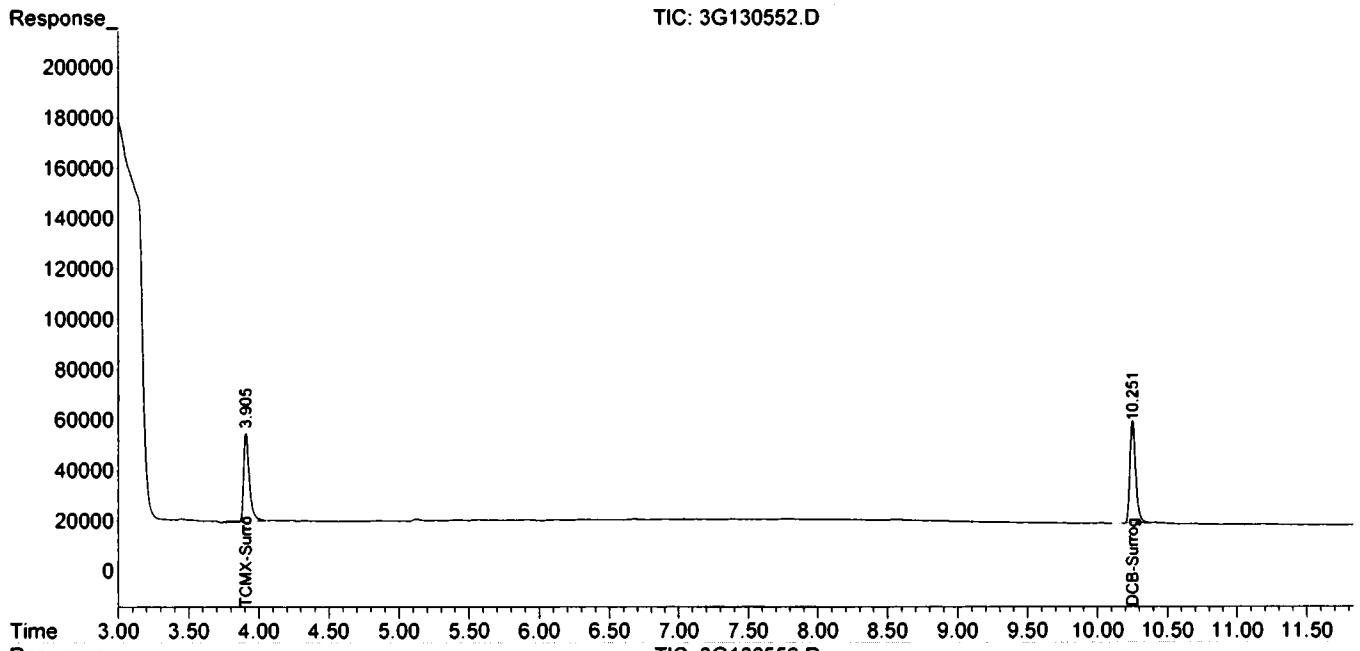
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.906 | 3.941 | 1035062 | 1213239 | 64.455 | 76.114 |
| 45) | DCB-Surrogate | 10.252 | 10.898 | 1156854 | 1396261 | 77.804 | 91.317 |

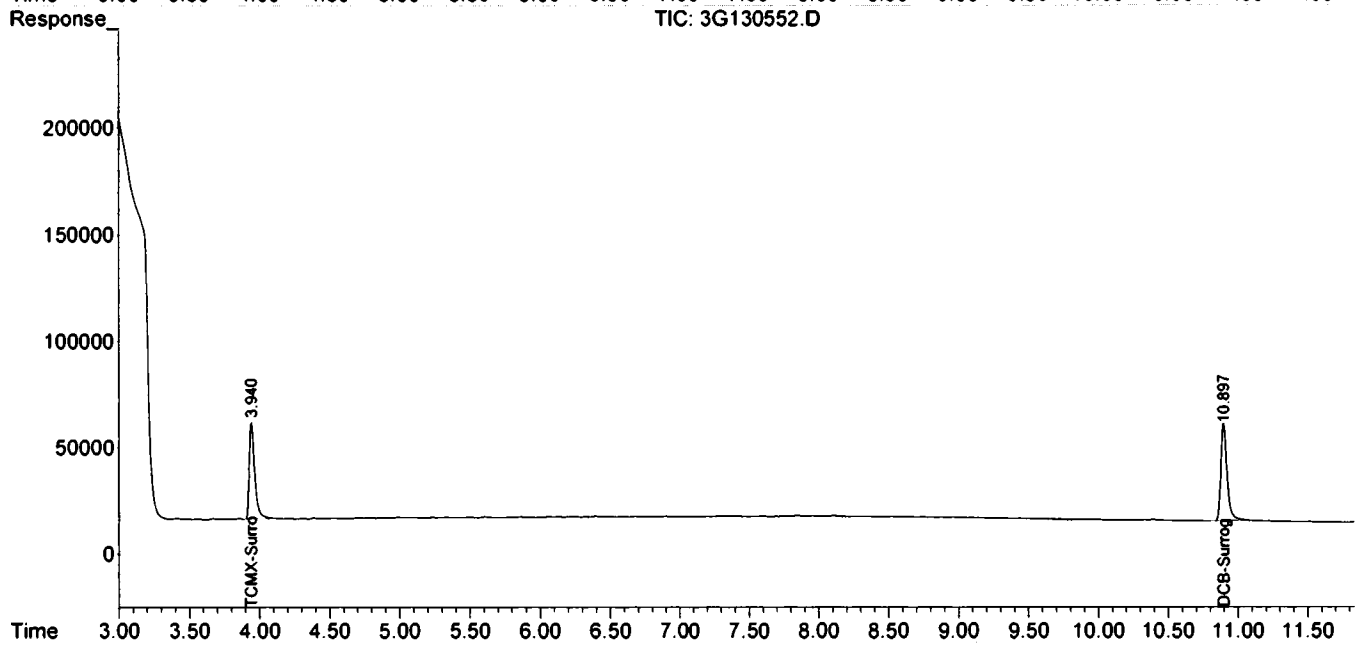
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130552.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 5:30
Operator : MS/MLC/MC
Sample : AD26083-009
Misc : A,PCB
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:13:39 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-011
Client Id: LTM-7-20210913
Data File: 3G130553.D
Analysis Date: 09/20/21 05:45
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130553.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 5:45
Operator : MS/MLC/MC
Sample : AD26083-011
Misc : A,PCB
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:13:50 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

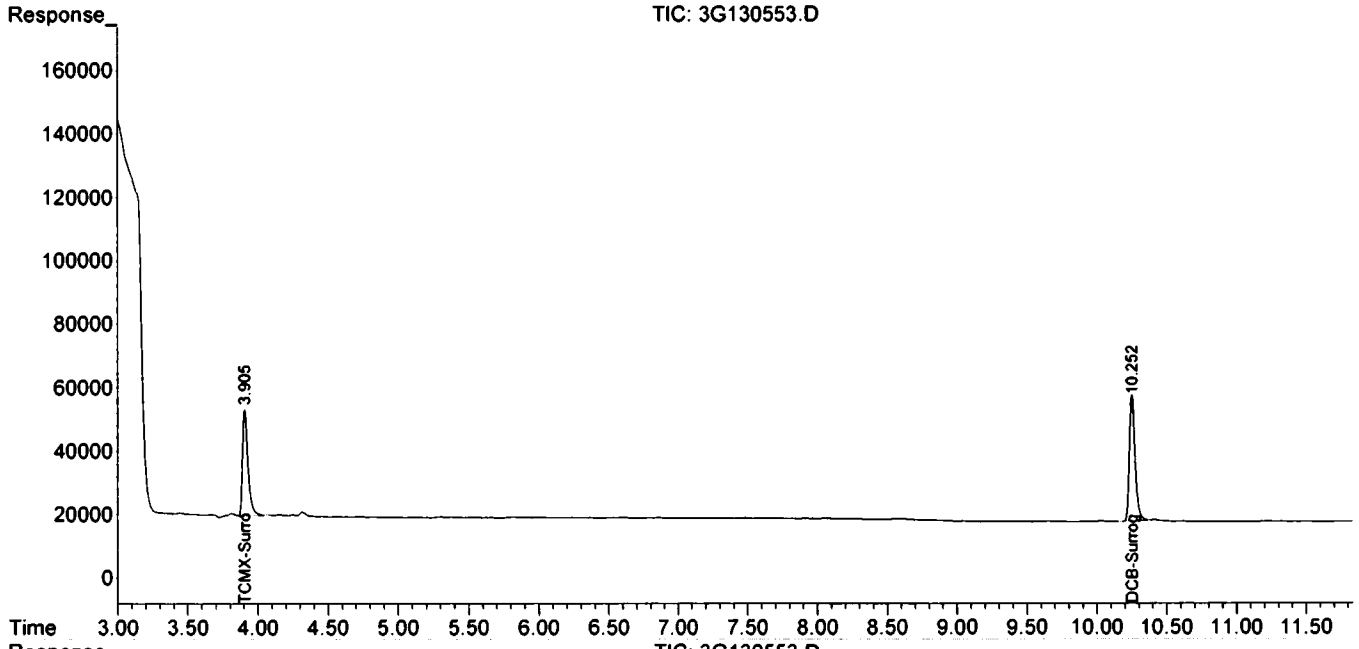
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.905 | 3.940 | 922140 | 1133450 | 57.423 | 71.109 |
| 45) | DCB-Surrogate | 10.253 | 10.898 | 1112892 | 1313248 | 74.848 | 85.888 |

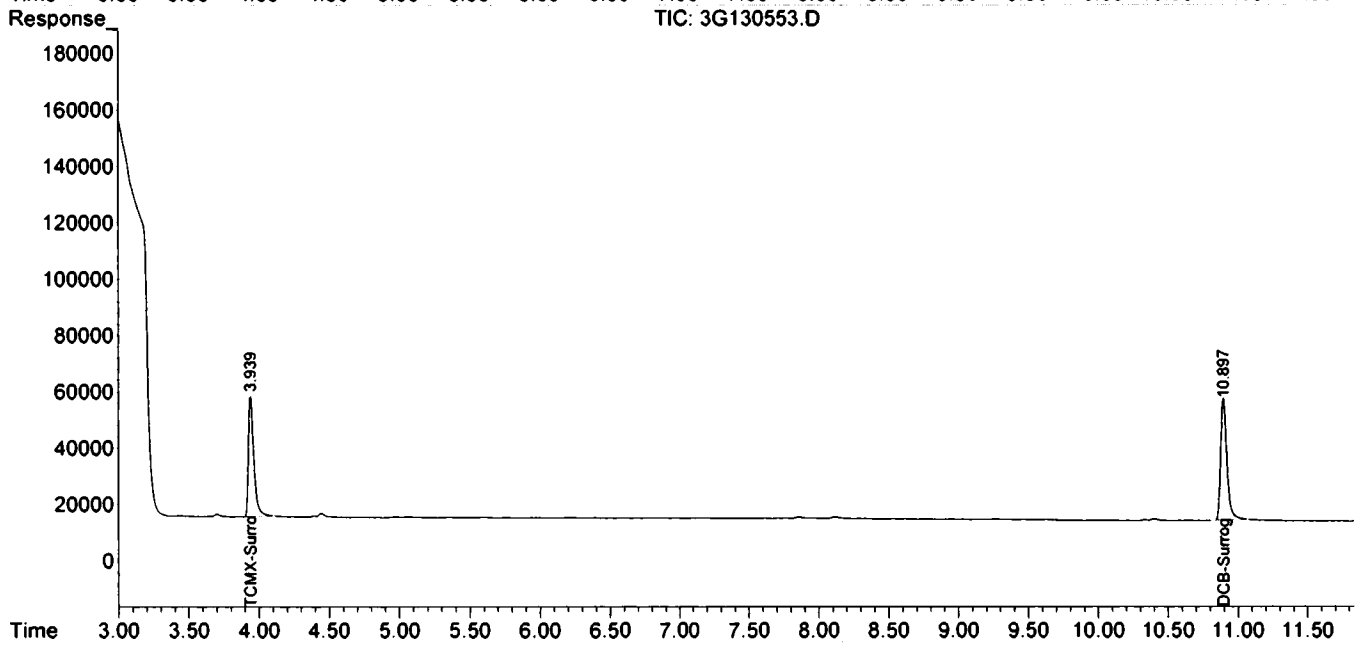
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130553.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 5:45
Operator : MS/MLC/MC
Sample : AD26083-011
Misc : A,PCB
ALS Vial : 54 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:13:50 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-012
Client Id: LTM-21-20210914 U
Data File: 3G130554.D
Analysis Date: 09/20/21 06:00
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130554.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 6:00
Operator : MS/MLC/MC
Sample : AD26083-012
Misc : A,PCB
ALS Vial : 55 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:13:58 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

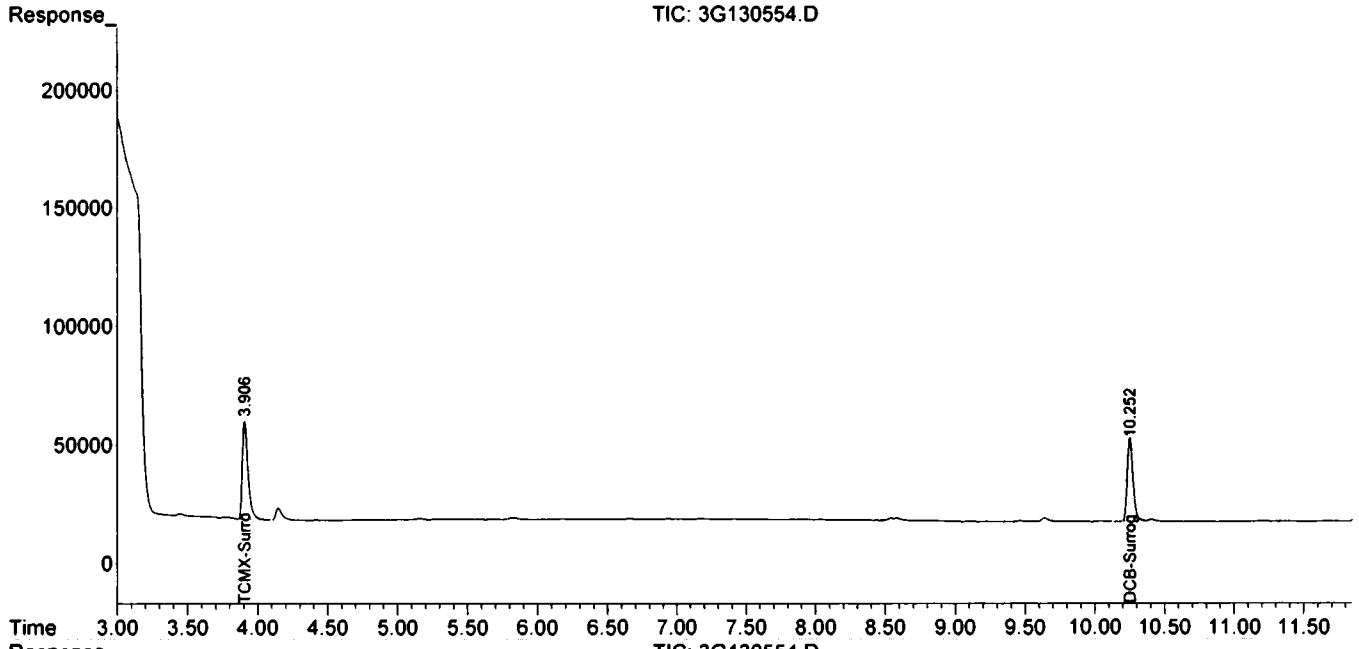
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | | |
| 1) | TCMX-Surrogate | 3.907 | 3.942 | 1175777 | 1590206 | 73.217 | 99.764 | # |
| 45) | DCB-Surrogate | 10.252 | 10.897 | 1016019 | 1186649 | 68.333 | 77.608 | |

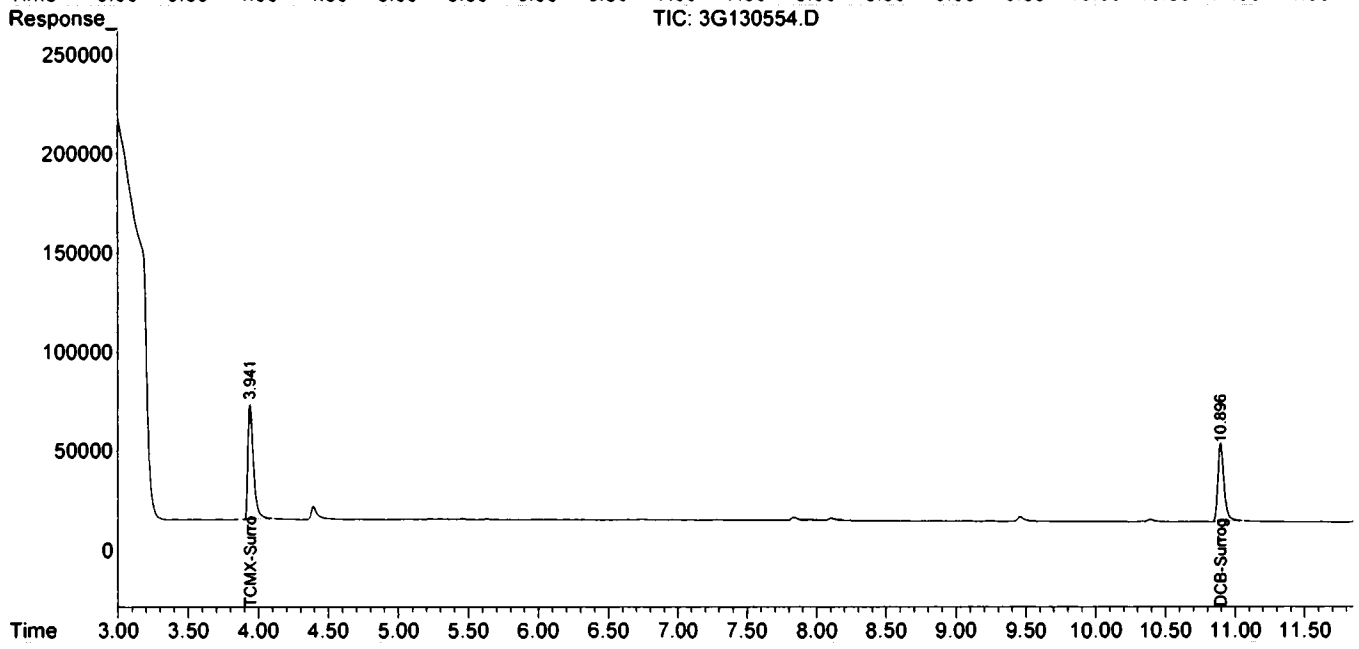
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130554.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 6:00
Operator : MS/MLC/MC
Sample : AD26083-012
Misc : A,PCB
ALS Vial : 55 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:13:58 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-014
Client Id: LTM-12-20210914 U
Data File: 3G130555.D
Analysis Date: 09/20/21 06:15
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130555.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 6:15
Operator : MS/MLC/MC
Sample : AD26083-014
Misc : A,PCB
ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:14:11 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

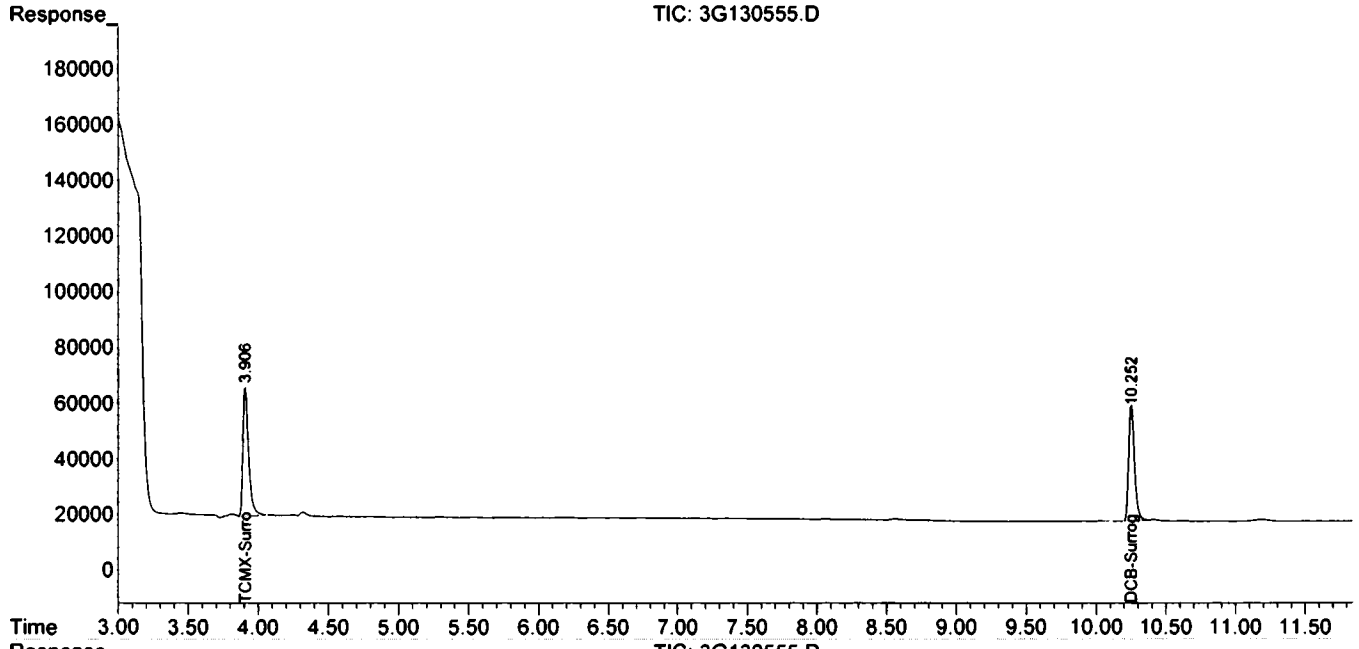
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.907 | 3.942 | 1309648 | 1598923 | 81.553 | 100.311 |
| 45) | DCB-Surrogate | 10.253 | 10.899 | 1182864 | 1413508 | 79.554 | 92.445 |

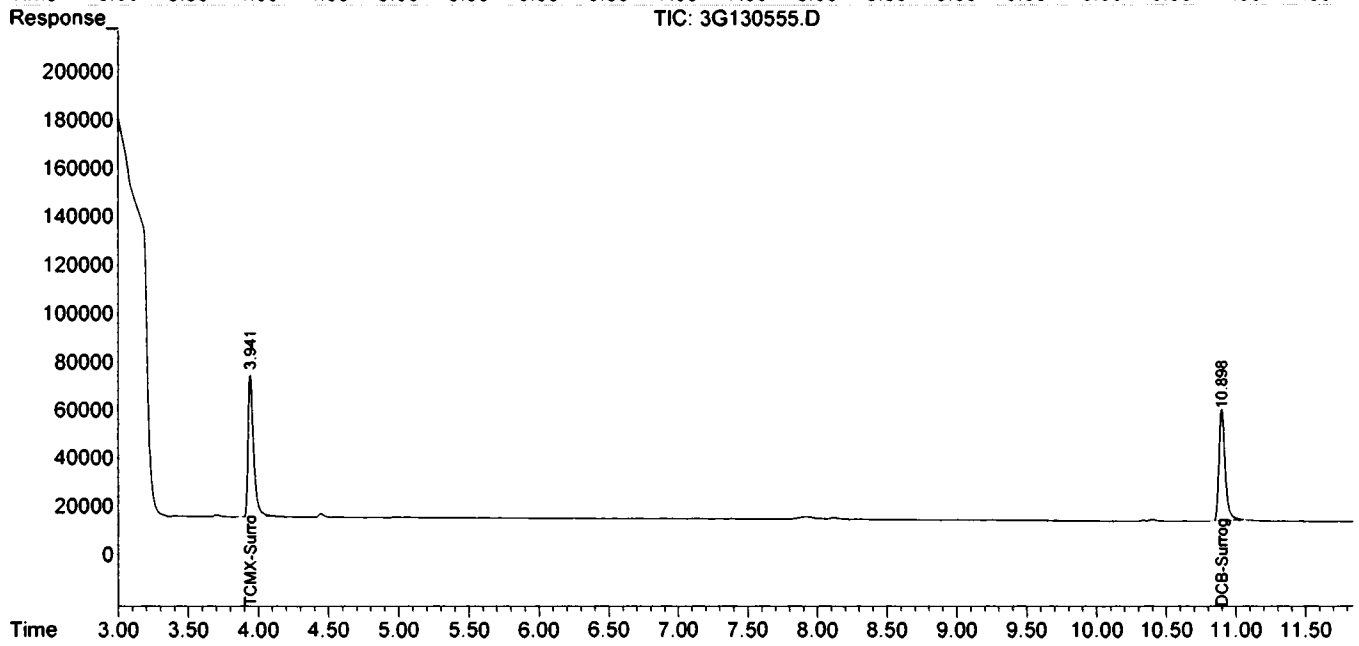
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130555.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 6:15
Operator : MS/MLC/MC
Sample : AD26083-014
Misc : A,PCB
ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:14:11 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-016
Client Id: LTM-6-20210914 U
Data File: 3G130556.D
Analysis Date: 09/20/21 06:29
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130556.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 6:29
Operator : MS/MLC/MC
Sample : AD26083-016
Misc : A,PCB
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:00:10 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

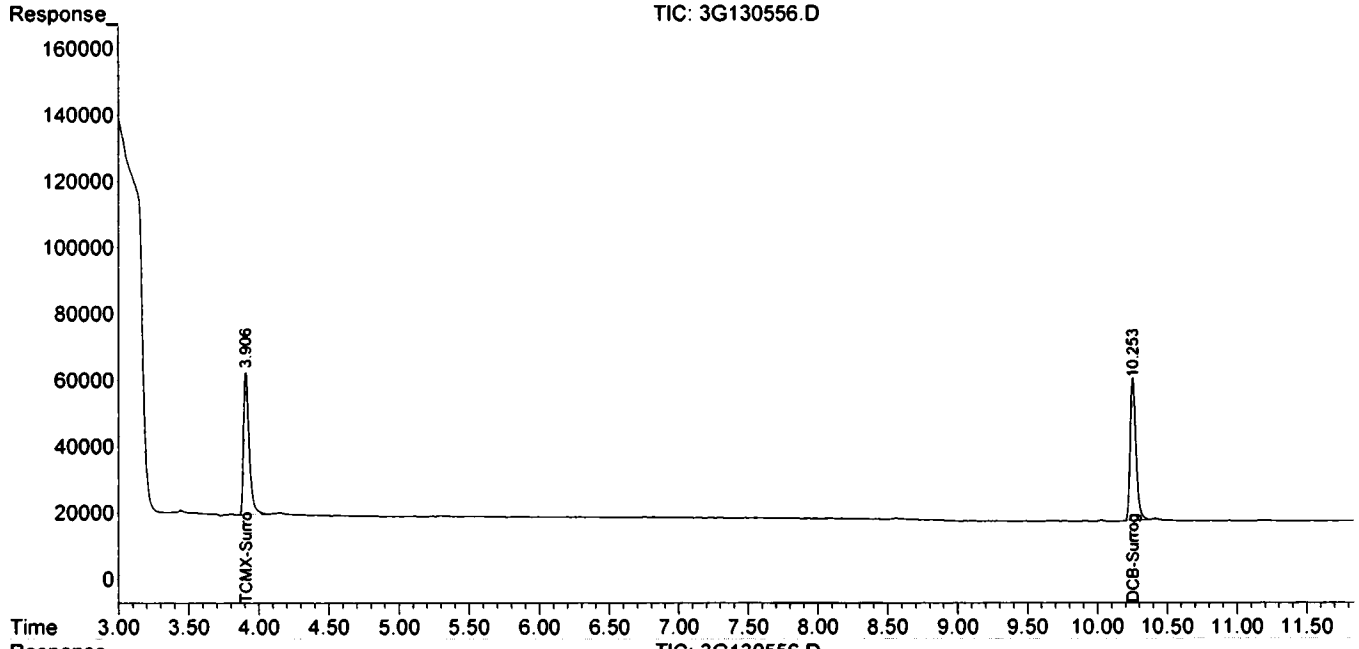
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.907 | 3.942 | 1198243 | 1431174 | 74.616 | 89.787 |
| 45) | DCB-Surrogate | 10.254 | 10.899 | 1234397 | 1451323 | 83.020 | 94.918 |

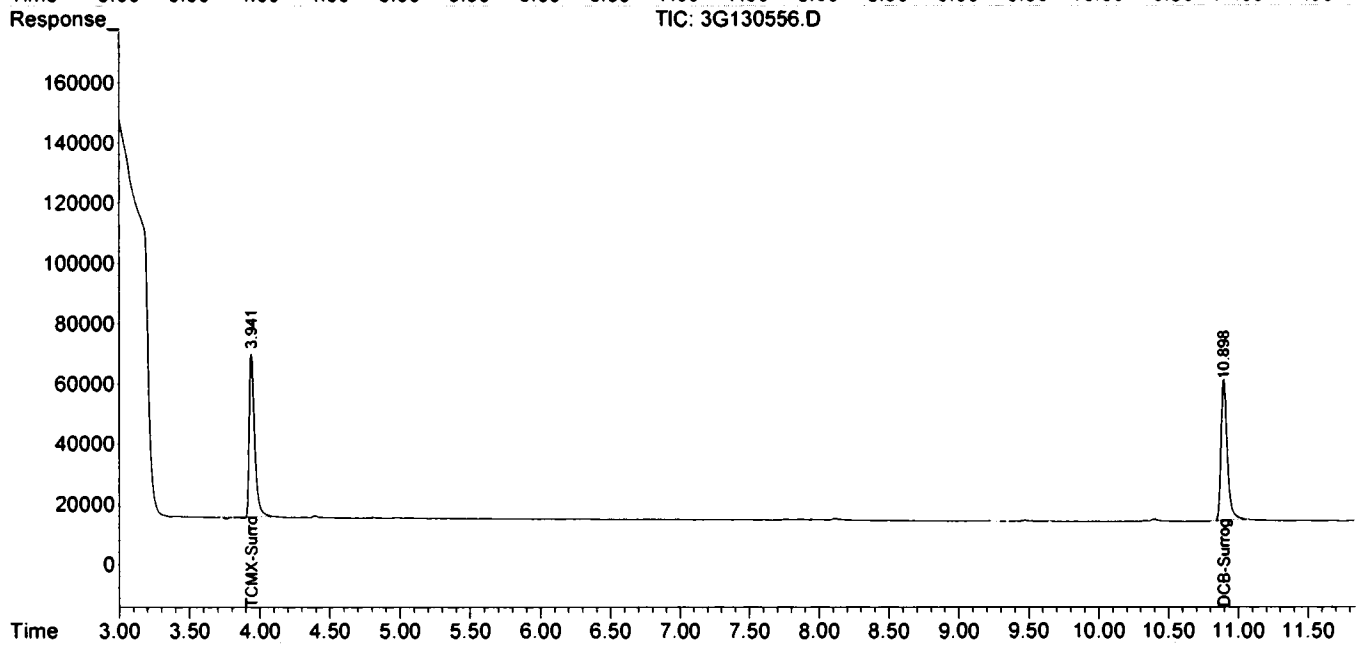
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130556.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 6:29
Operator : MS/MLC/MC
Sample : AD26083-016
Misc : A,PCB
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:00:10 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-018
Client Id: LTM-13-20210914
Data File: 3G130557.D
Analysis Date: 09/20/21 06:44
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130557.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 6:44
Operator : MS/MLC/MC
Sample : AD26083-018
Misc : A,PCB
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:14:25 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.906 | 3.941 | 1221552 | 1511174 | 76.068 | 94.806 |
| 45) | DCB-Surrogate | 10.252 | 10.898 | 1240321 | 1454232 | 83.418 | 95.108 |

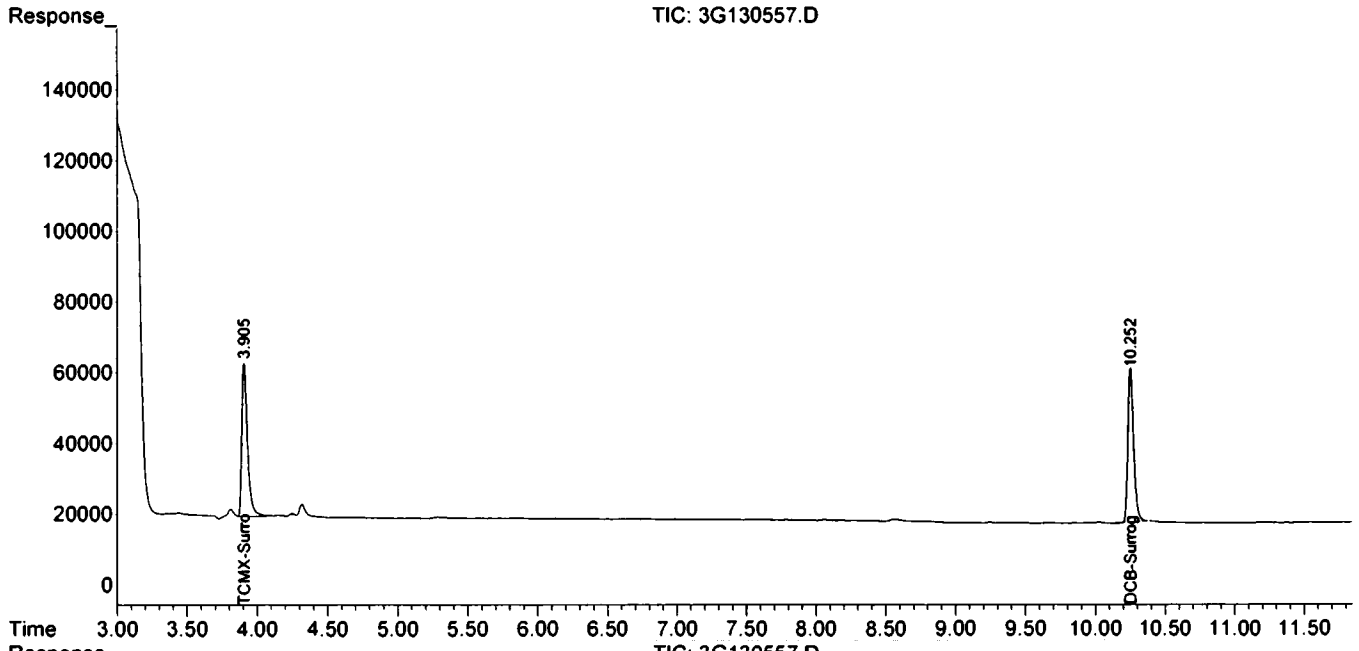
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

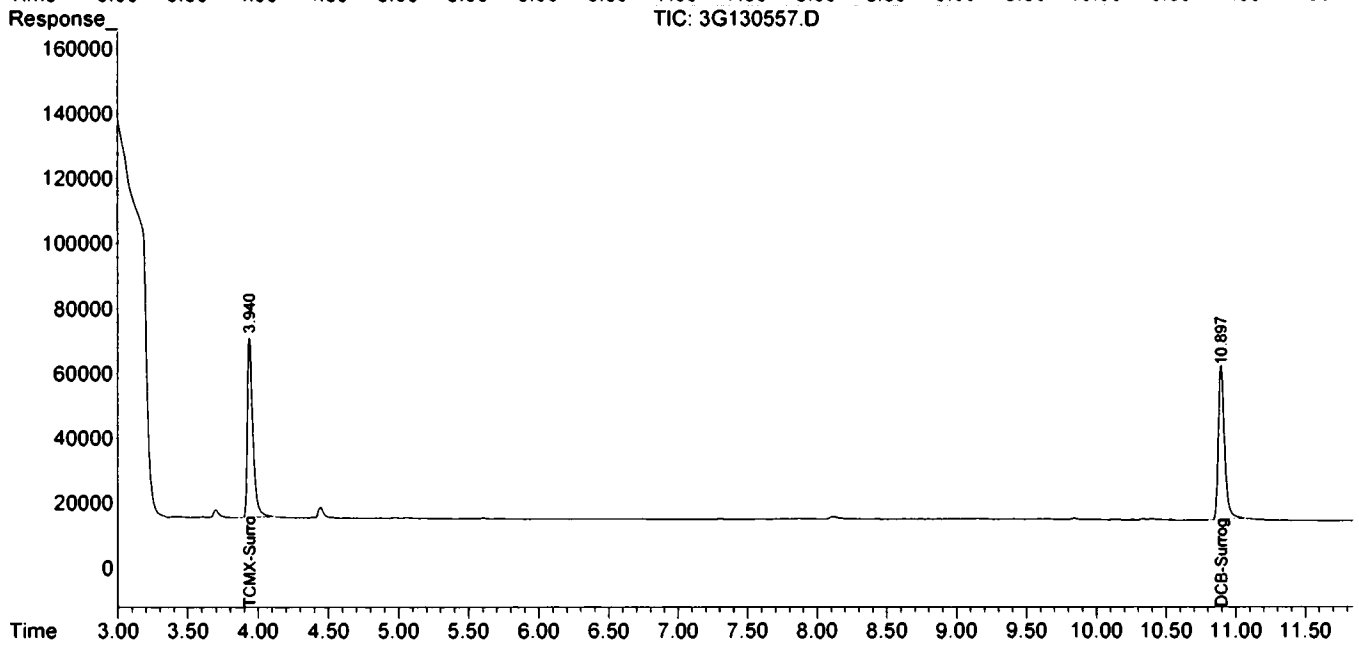
3

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130557.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 6:44
Operator : MS/MLC/MC
Sample : AD26083-018
Misc : A,PCB
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:14:25 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-019
Client Id: LTM-15-20210914 U
Data File: 3G130766.D
Analysis Date: 09/29/21 11:46
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 945ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.26 | U | 11097-69-1 | Aroclor-1254 | 0.26 | U |
| 11104-28-2 | Aroclor-1221 | 0.26 | U | 11096-82-5 | Aroclor-1260 | 0.26 | U |
| 11141-16-5 | Aroclor-1232 | 0.26 | U | 37324-23-5 | Aroclor-1262 | 0.26 | U |
| 53469-21-9 | Aroclor-1242 | 0.26 | U | 11100-14-4 | Aroclor-1268 | 0.26 | U |
| 12672-29-6 | Aroclor-1248 | 0.26 | U | 1336-36-3 | Aroclor (Total) | 0.26 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130766.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 11:46
Operator : MS/MLC/MC/PR
Sample : AD26083-019
Misc : A,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 12:54:18 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

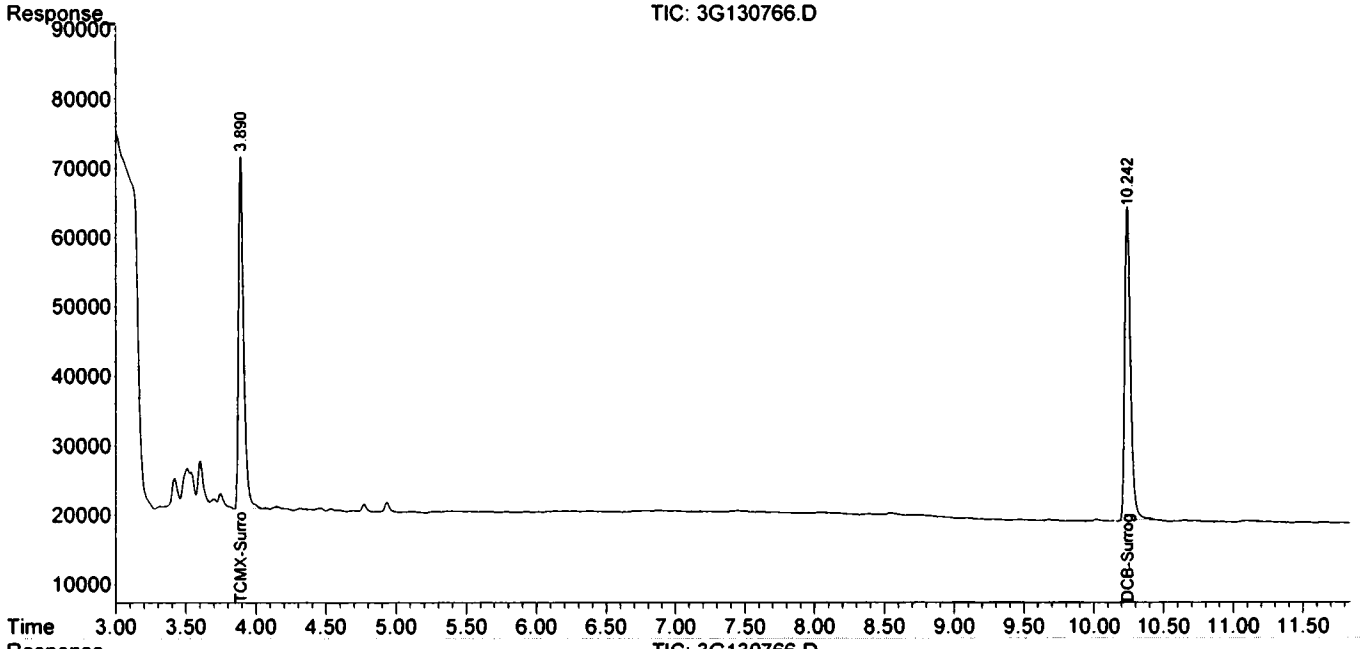
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.890 | 3.925 | 1277508 | 1631433 | 69.717 | 79.347 |
| 45) | DCB-Surrogate | 10.242 | 10.886 | 1308295 | 1555263 | 80.492 | 79.683 |

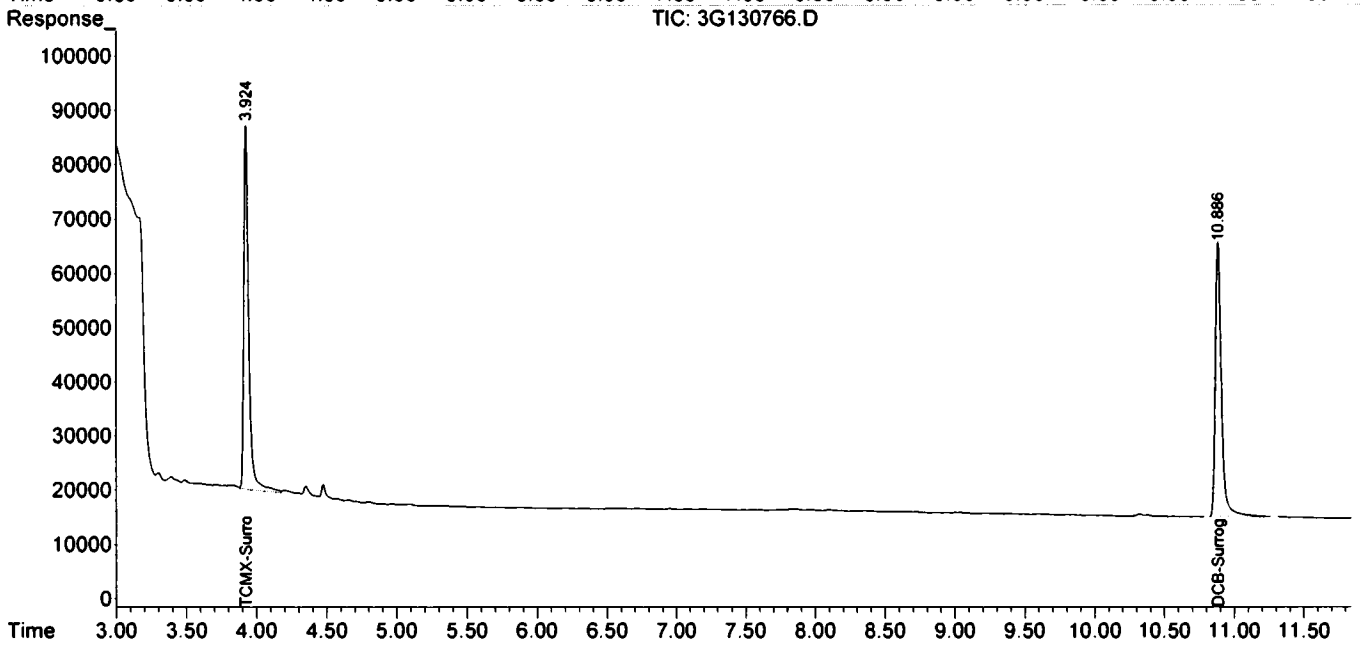
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130766.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 11:46
Operator : MS/MLC/MC/PR
Sample : AD26083-019
Misc : A,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 12:54:18 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-021
Client Id: LTM-5B-20210914 U
Data File: 3G130558.D
Analysis Date: 09/20/21 06:59
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130558.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 6:59
Operator : MS/MLC/MC
Sample : AD26083-021
Misc : A,PCB
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:00:13 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

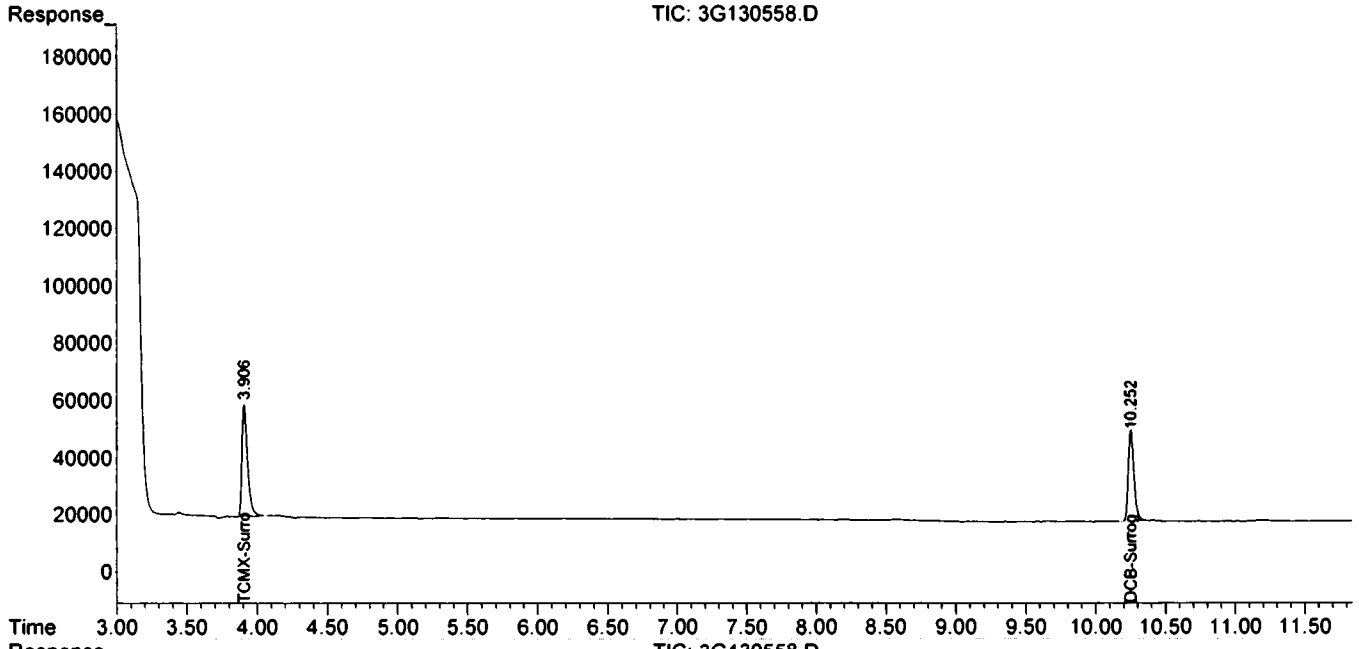
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.907 | 3.942 | 1088836 | 1329723 | 67.803 | 83.422 |
| 45) | DCB-Surrogate | 10.252 | 10.898 | 898590 | 1053460 | 60.435 | 68.897 |

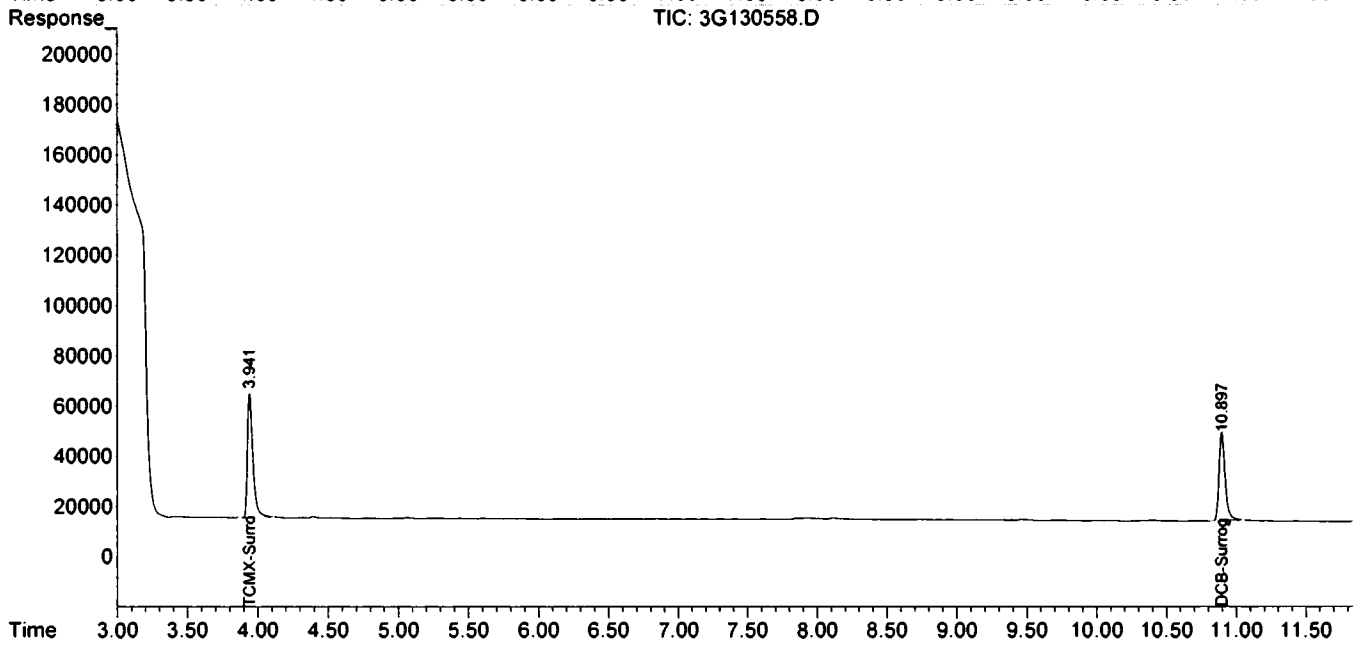
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130558.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 6:59
Operator : MS/MLC/MC
Sample : AD26083-021
Misc : A,PCB
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:00:13 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-023
Client Id: DUP-02-20210914 U
Data File: 3G130559.D
Analysis Date: 09/20/21 07:14
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130559.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 7:14
Operator : MS/MLC/MC
Sample : AD26083-023
Misc : A,PCB
ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:14:43 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.907 | 3.942 | 1271459 | 1549960 | 79.175 | 97.239 |
| 45) | DCB-Surrogate | 10.253 | 10.899 | 877390 | 1034935 | 59.009 | 67.686 |

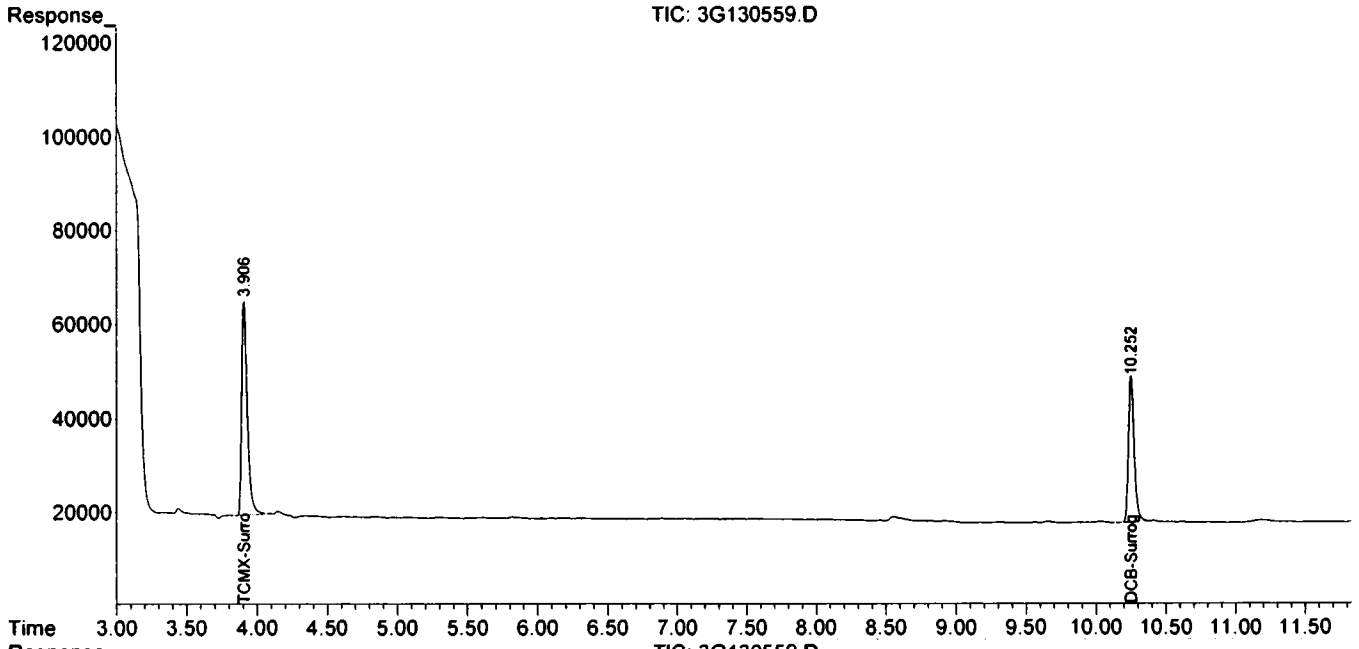
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

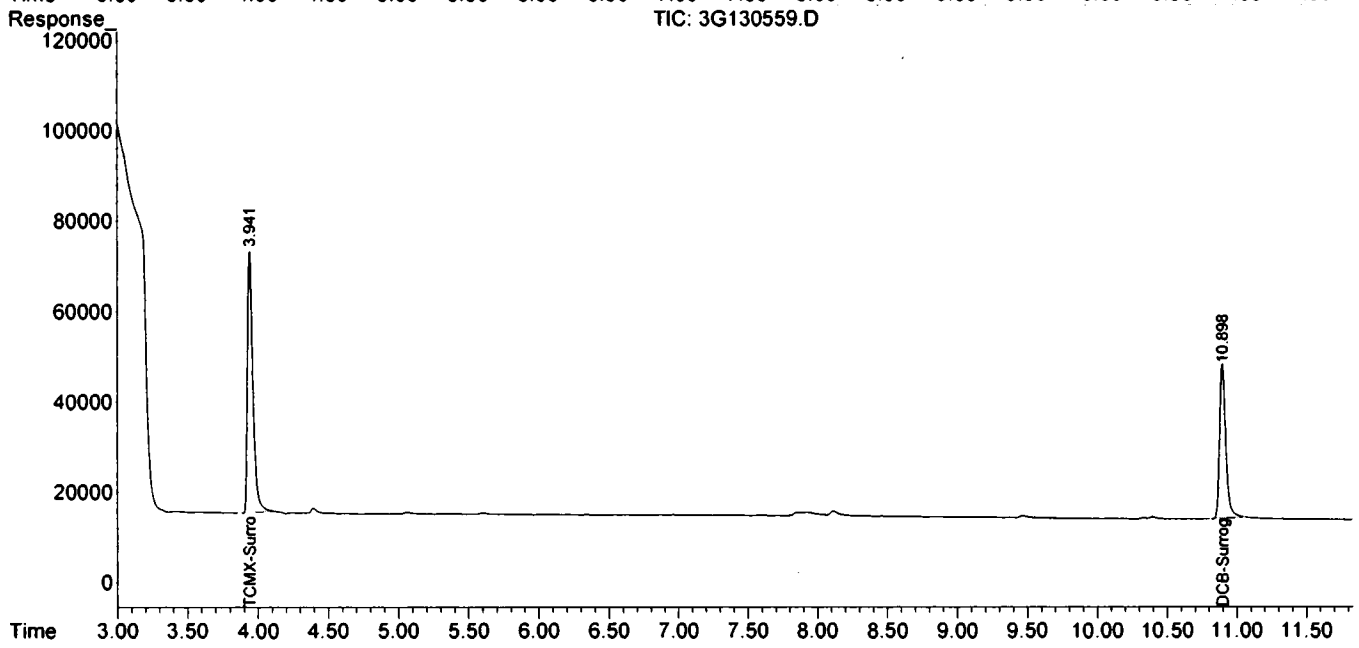
3

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130559.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 7:14
Operator : MS/MLC/MC
Sample : AD26083-023
Misc : A,PCB
ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:14:43 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-026
Client Id: LTM-5A-20210915
Data File: 3G130560.D
Analysis Date: 09/20/21 07:29
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130560.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 7:29
Operator : MS/MLC/MC
Sample : AD26083-026
Misc : A,PCB
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:14:56 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

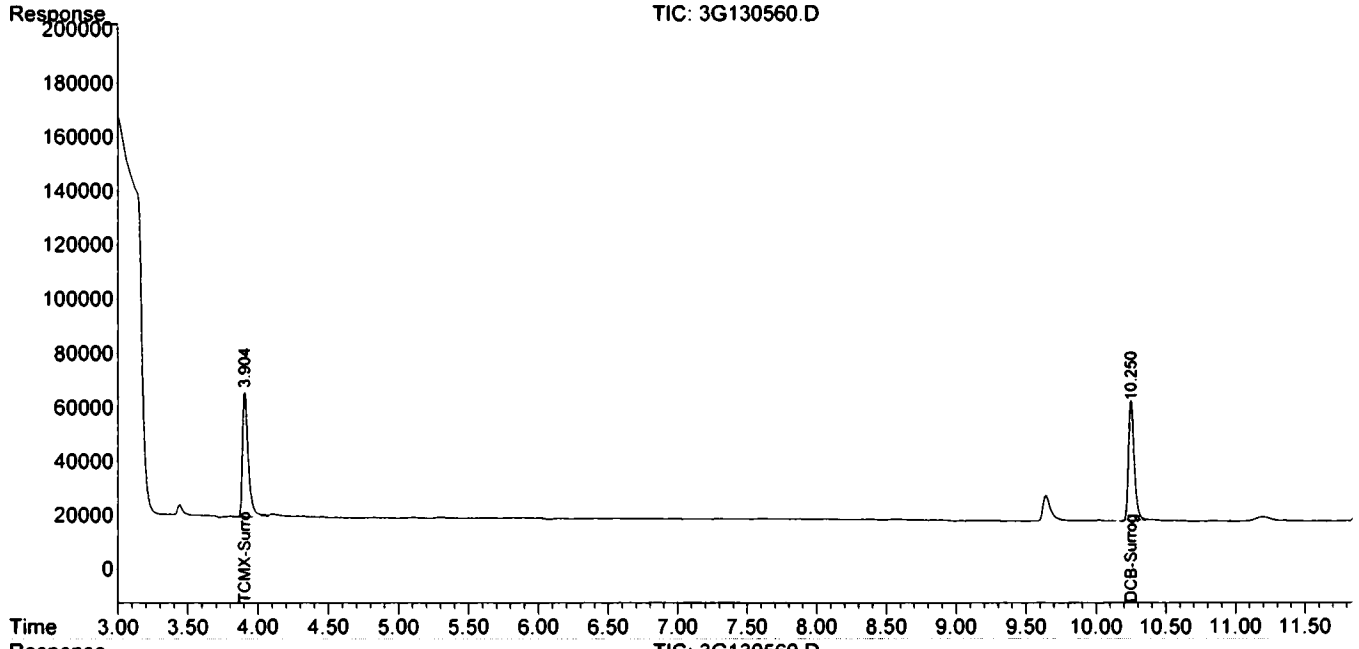
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.905 | 3.940 | 1306684 | 1576926 | 81.369 | 98.931 |
| 45) | DCB-Surrogate | 10.251 | 10.896 | 1263022 | 1517768 | 84.945 | 99.264 |

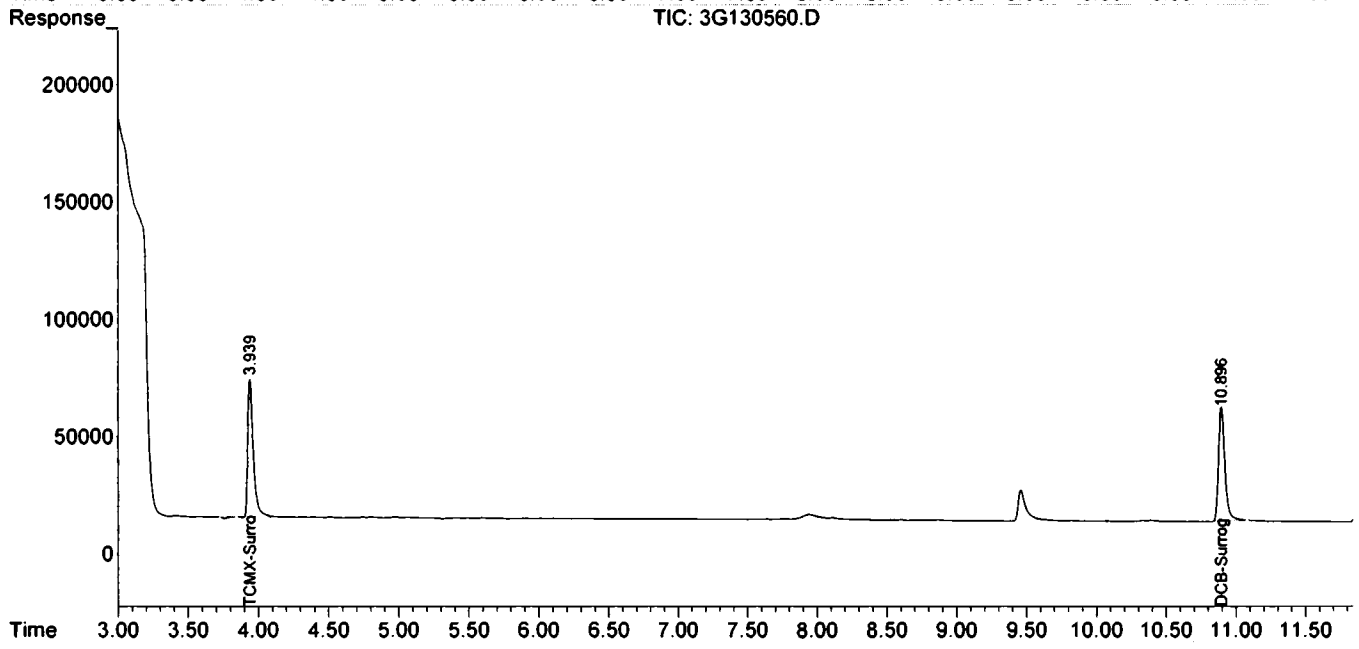
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130560.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 7:29
Operator : MS/MLC/MC
Sample : AD26083-026
Misc : A,PCB
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:14:56 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-027
Client Id: LTM-17-20210915
Data File: 3G130561.D
Analysis Date: 09/20/21 07:44
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130561.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 7:44
Operator : MS/MLC/MC
Sample : AD26083-027
Misc : A,PCB
ALS Vial : 62 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:00:17 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

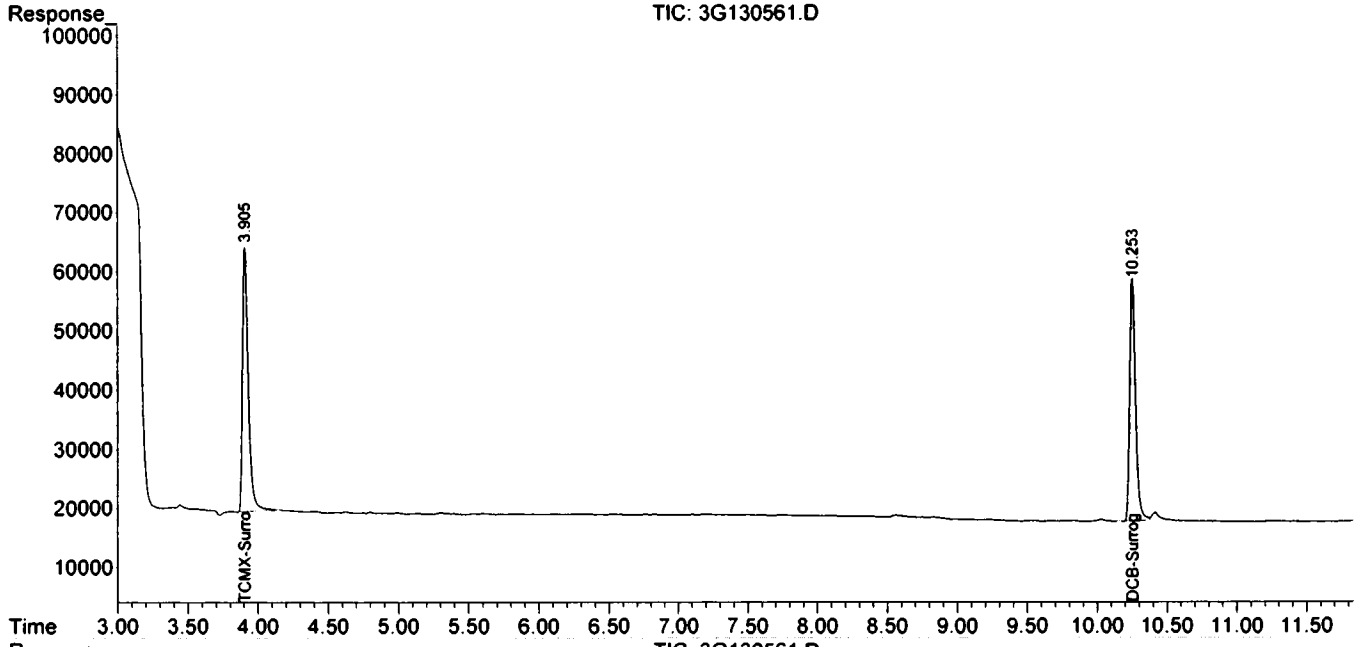
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.906 | 3.941 | 1289680 | 1541667 | 80.310 | 96.719 |
| 45) | DCB-Surrogate | 10.253 | 10.900 | 1185385 | 1385038 | 79.723 | 90.583 |

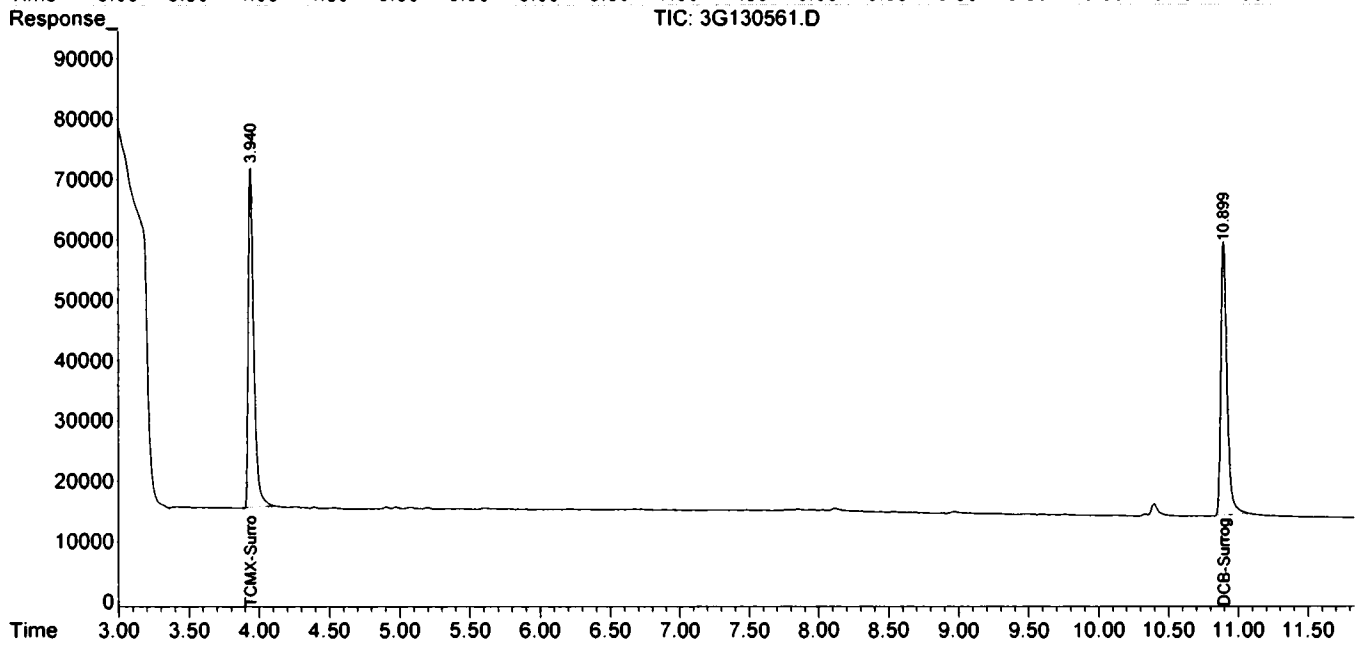
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130561.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 7:44
Operator : MS/MLC/MC
Sample : AD26083-027
Misc : A,PCB
ALS Vial : 62 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:00:17 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-028
Client Id: LTM-4-20210915 U
Data File: 3G130562.D
Analysis Date: 09/20/21 07:58
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130562.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 7:58
Operator : MS/MLC/MC
Sample : AD26083-028
Misc : A,PCB
ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:15:35 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

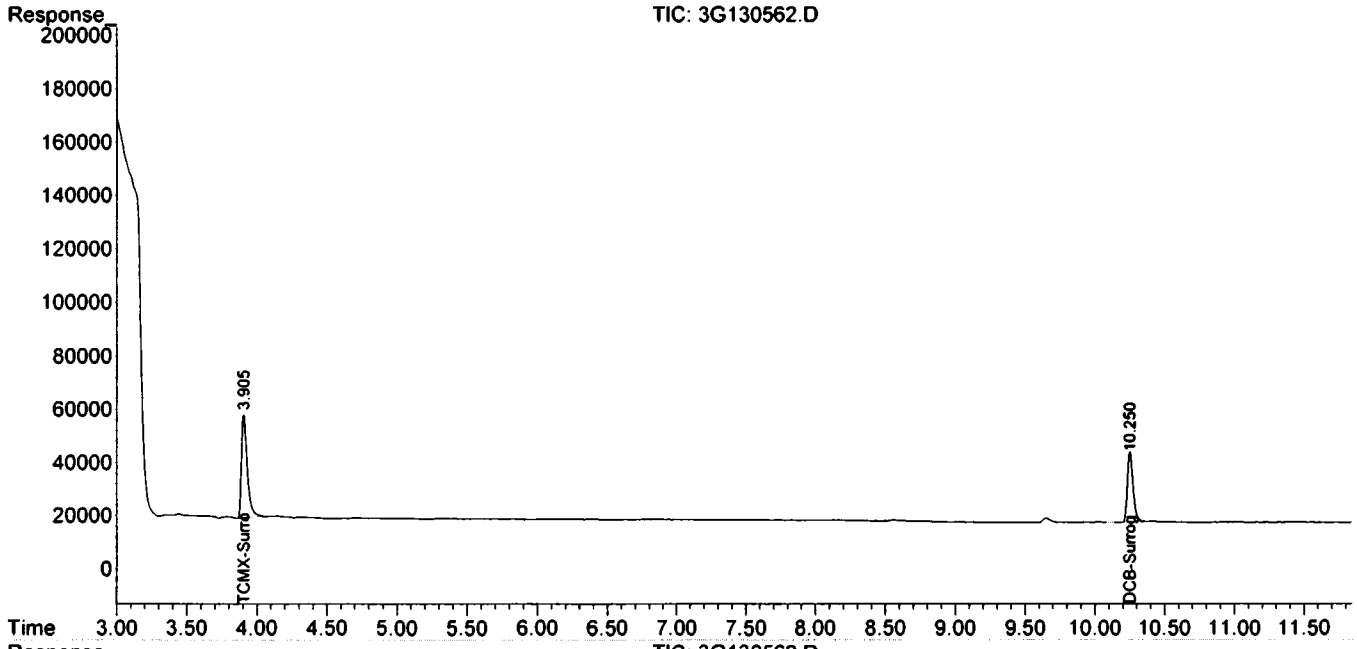
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.906 | 3.940 | 1117876 | 1352546 | 69.612 | 84.854 |
| 45) | DCB-Surrogate | 10.251 | 10.897 | 736011 | 864914 | 49.501 | 56.566 |

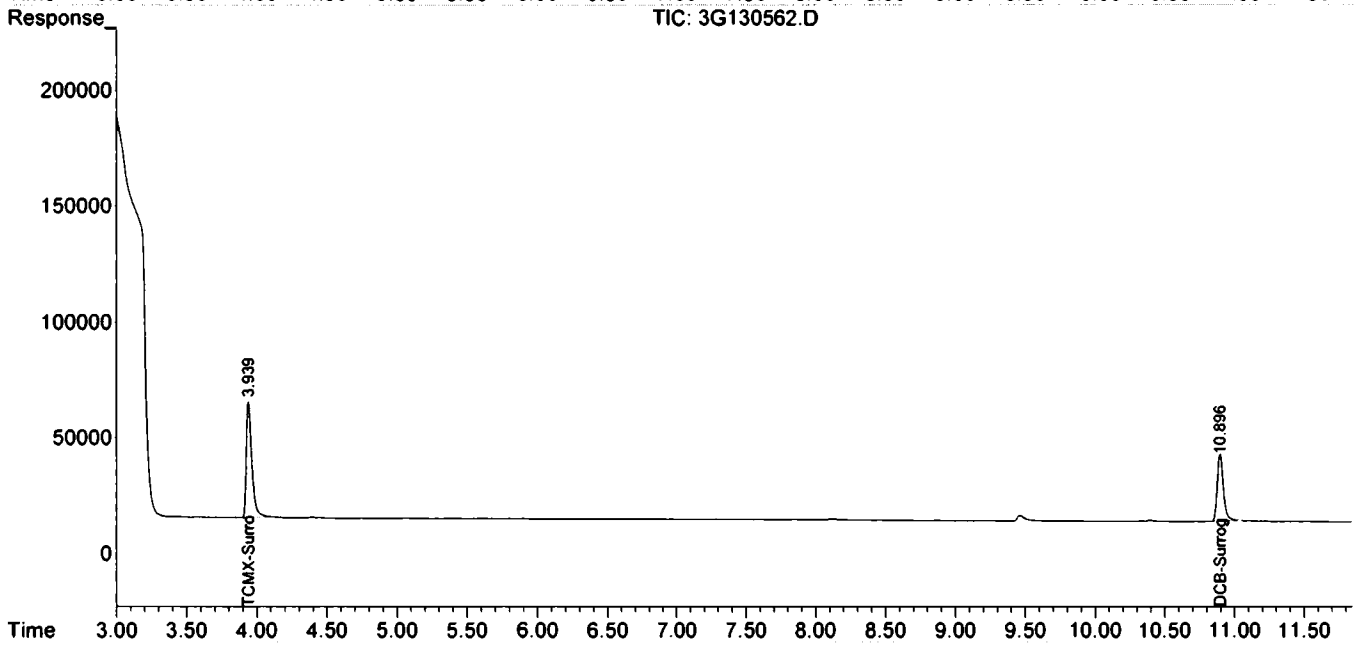
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130562.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 7:58
Operator : MS/MLC/MC
Sample : AD26083-028
Misc : A,PCB
ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:15:35 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-030
Client Id: LTM-16-20210915 U
Data File: 3G130767.D
Analysis Date: 09/29/21 12:01
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 985ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130767.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 12:01
Operator : MS/MLC/MC/PR
Sample : AD26083-030
Misc : A,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 12:54:27 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

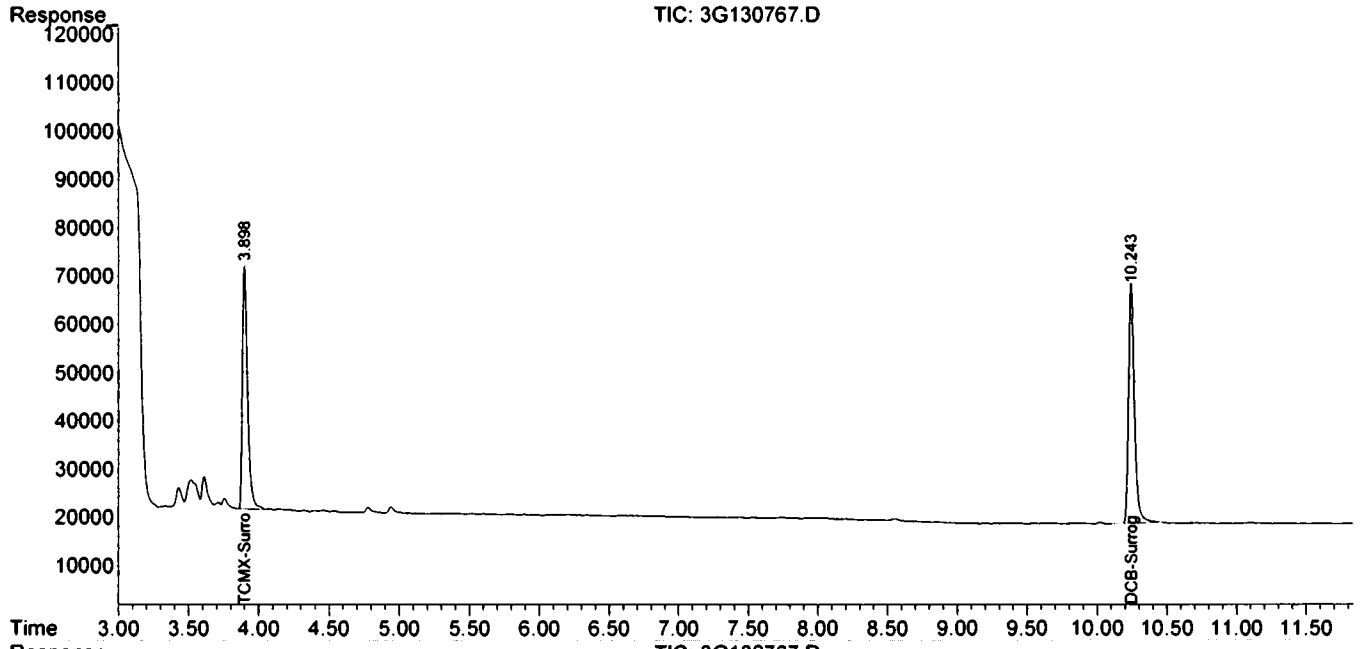
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.899 | 3.933 | 1282571 | 1598586 | 69.994 | 77.749 |
| 45) | DCB-Surrogate | 10.243 | 10.886 | 1453343 | 1683103 | 89.415 | 86.233 |

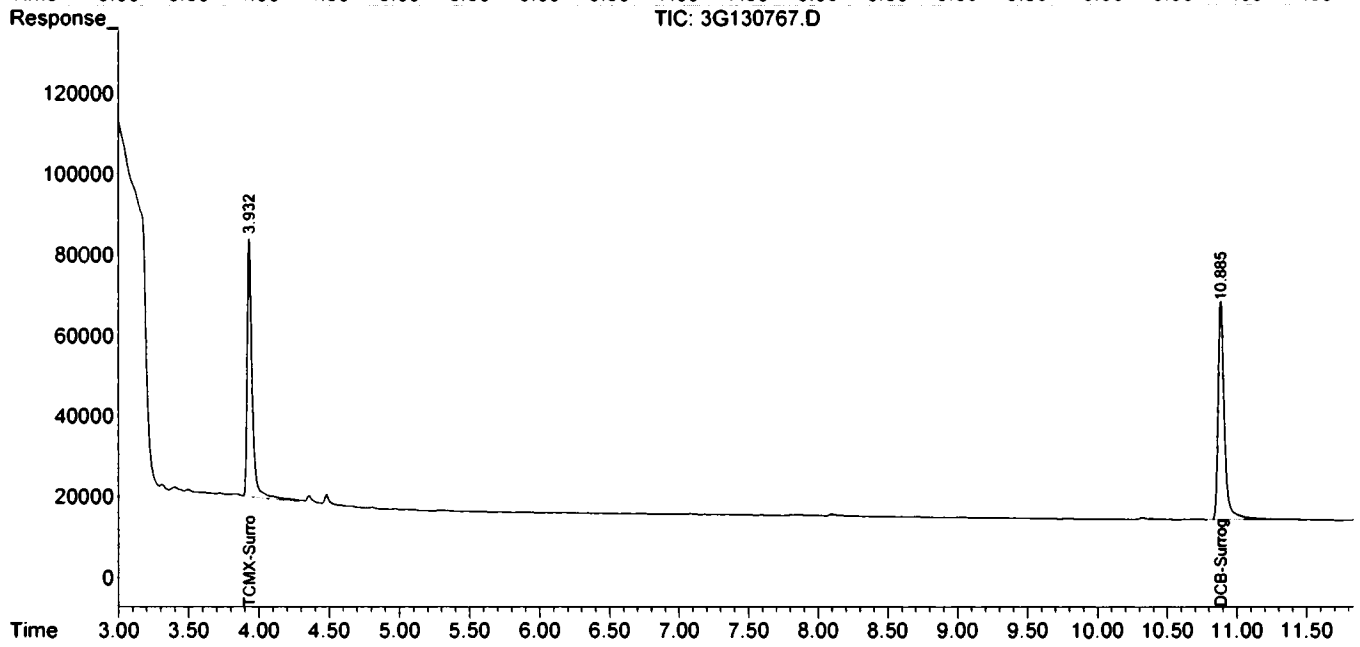
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130767.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 12:01
Operator : MS/MLC/MC/PR
Sample : AD26083-030
Misc : A,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 12:54:27 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-032
Client Id: LTM-3-20210915
Data File: 3G130768.D
Analysis Date: 09/29/21 12:15
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130768.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 12:15
Operator : MS/MLC/MC/PR
Sample : AD26083-032
Misc : A,PCB
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 12:54:36 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

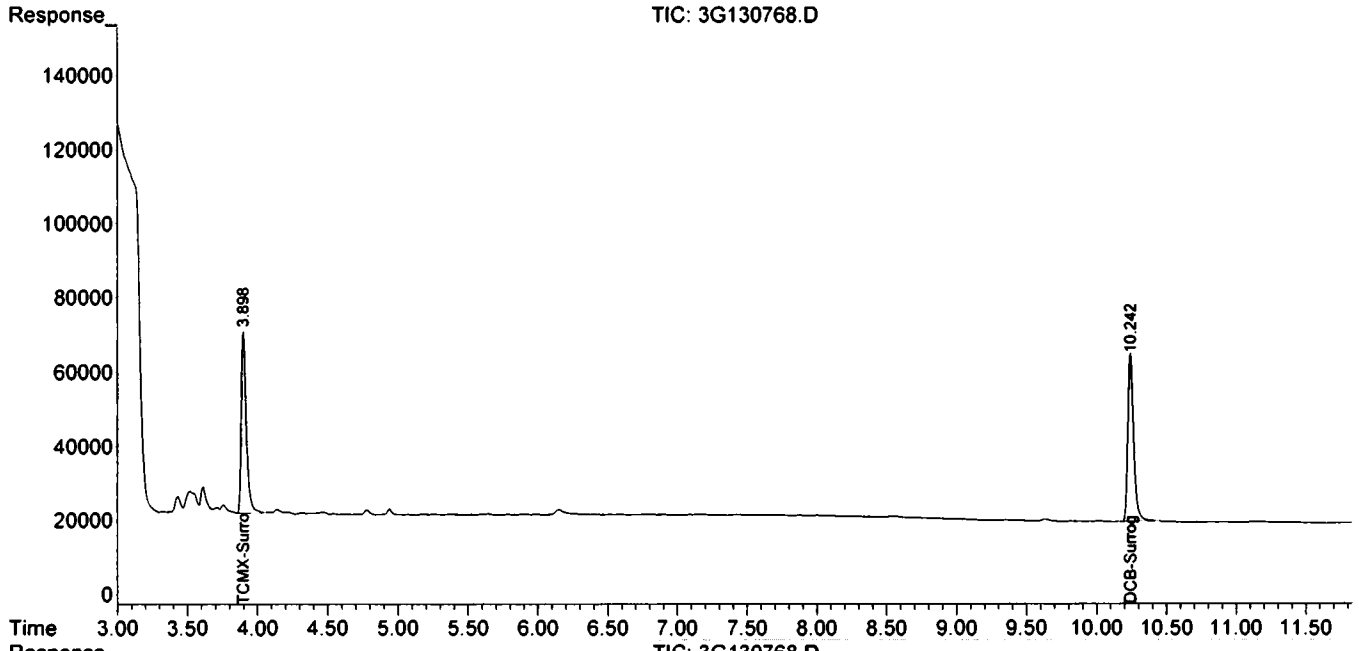
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.899 | 3.932 | 1219671 | 1457239 | 66.561 | 70.875 |
| 45) | DCB-Surrogate | 10.243 | 10.887 | 1309277 | 1529268 | 80.552 | 78.351 |

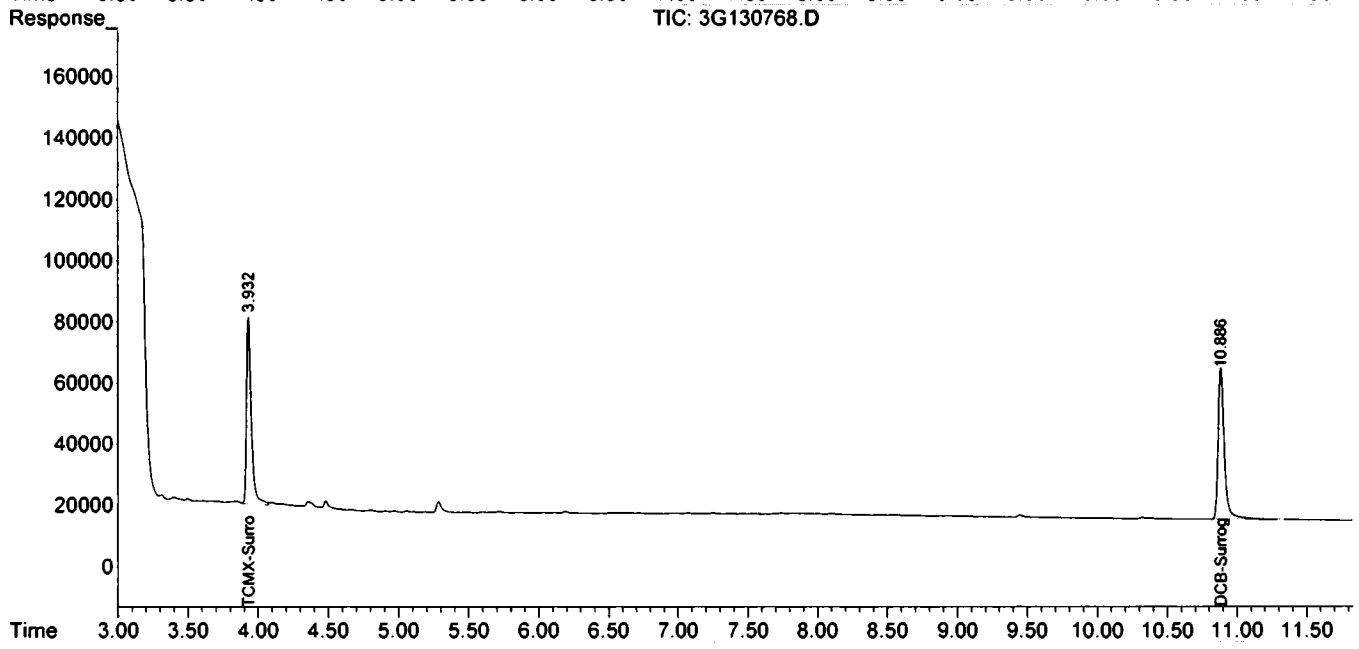
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130768.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 12:15
Operator : MS/MLC/MC/PR
Sample : AD26083-032
Misc : A,PCB
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 12:54:36 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-033
Client Id: FB-20210915
Data File: 3G130769.D
Analysis Date: 09/29/21 12:30
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130769.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 12:30
Operator : MS/MLC/MC/PR
Sample : AD26083-033
Misc : A,PCB
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 12:54:47 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

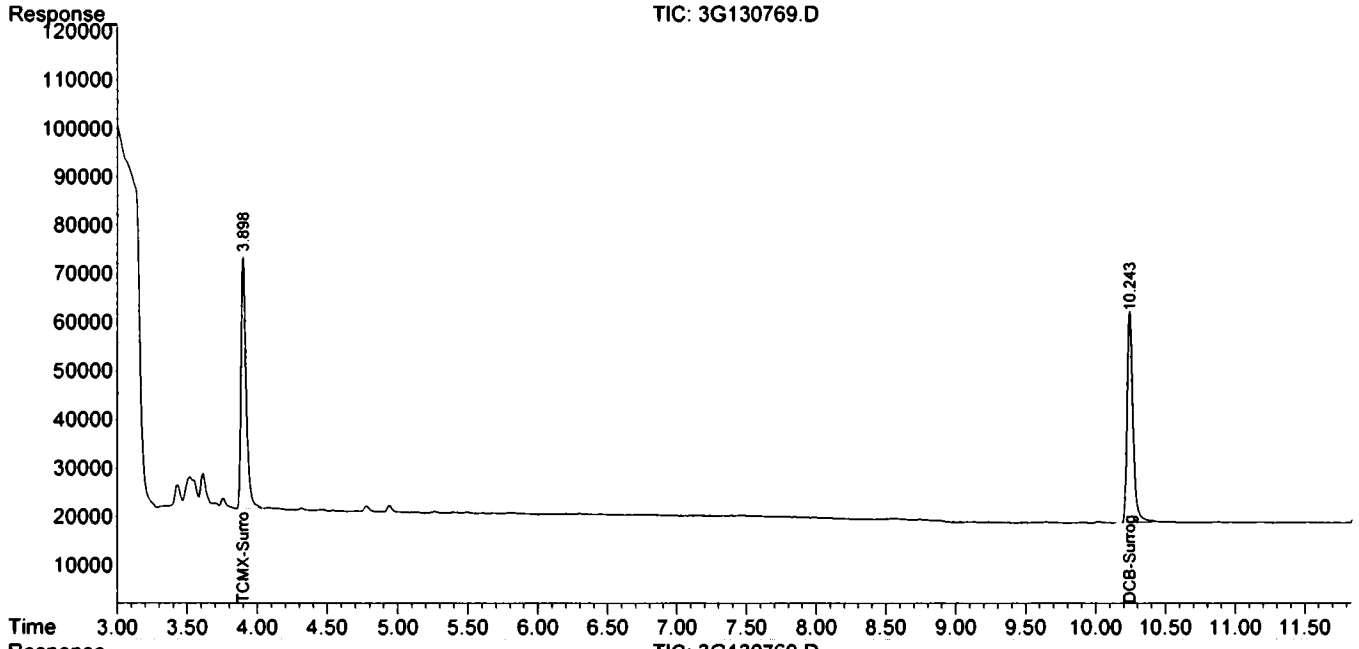
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.899 | 3.932 | 1310716 | 1583634 | 71.530 | 77.022 |
| 45) | DCB-Surrogate | 10.244 | 10.886 | 1262353 | 1435206 | 77.665 | 73.532 |

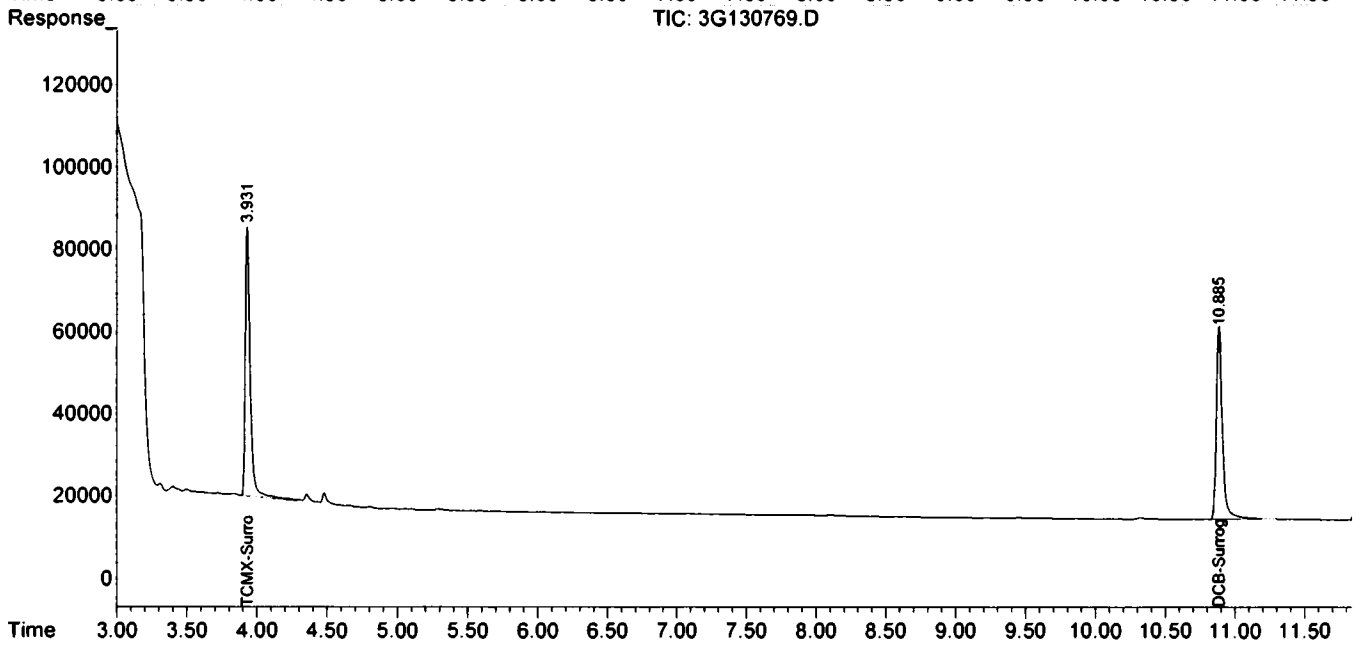
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130769.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 12:30
Operator : MS/MLC/MC/PR
Sample : AD26083-033
Misc : A,PCB
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 12:54:47 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-035
Client Id: LTM-18C-20210916
Data File: 3G130770.D
Analysis Date: 09/29/21 12:45
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 990ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130770.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 12:45
Operator : MS/MLC/MC/PR
Sample : AD26083-035
Misc : A,PCB
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 15:09:11 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

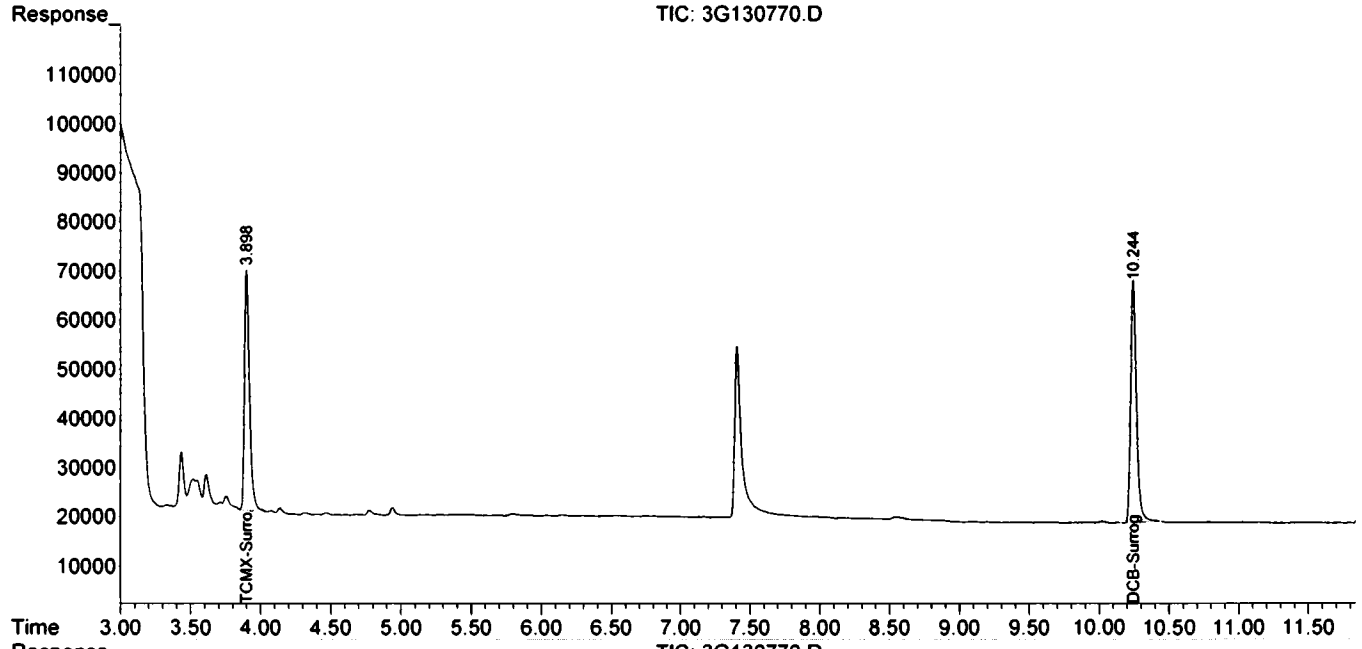
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.899 | 3.932 | 1218547 | 1465352 | 66.500 | 71.269 |
| 45) | DCB-Surrogate | 10.244 | 10.886 | 1426093 | 1646234 | 87.739 | 84.344 |

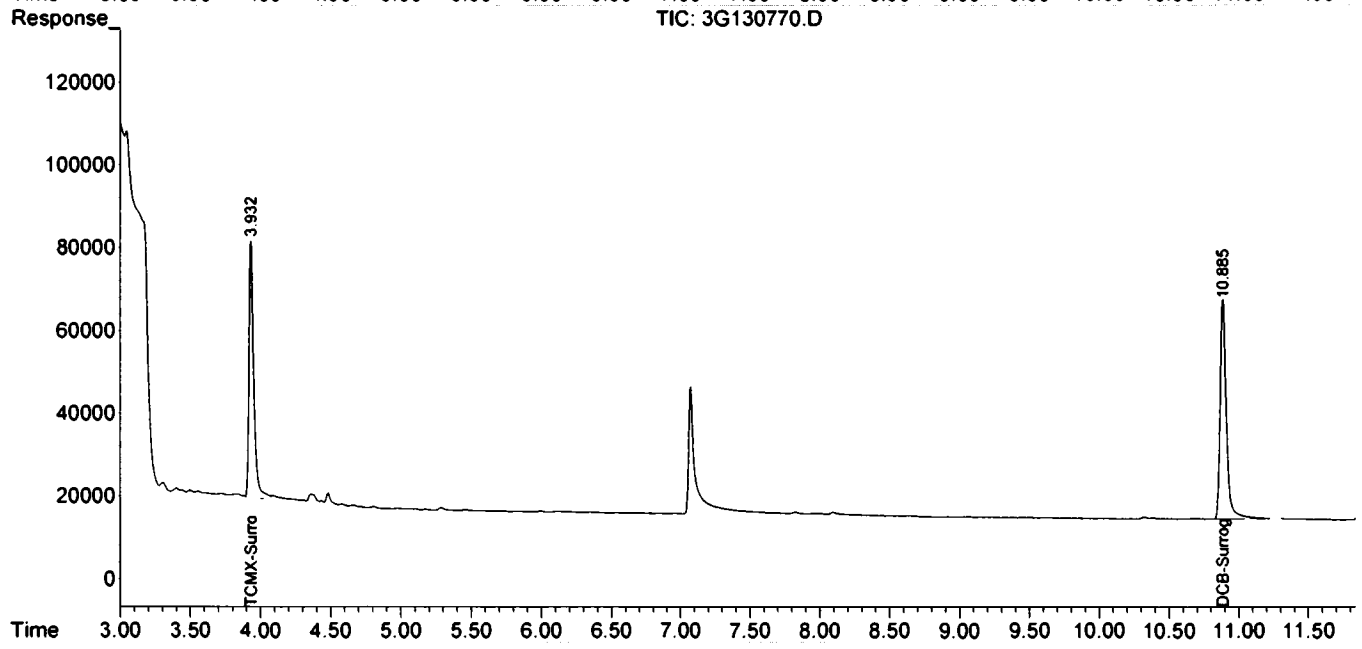
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130770.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 12:45
Operator : MS/MLC/MC/PR
Sample : AD26083-035
Misc : A,PCB
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 15:09:11 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-036
Client Id: LTM-2-20210916 U
Data File: 3G130771.D
Analysis Date: 09/29/21 13:00
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130771.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 13:00
Operator : MS/MLC/MC/PR
Sample : AD26083-036
Misc : A,PCB
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 15:09:19 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.900 | 3.933 | 1205953 | 1430574 | 65.812 | 69.578 |
| 45) | DCB-Surrogate | 10.244 | 10.887 | 1400050 | 1656919 | 86.137 | 84.891 |

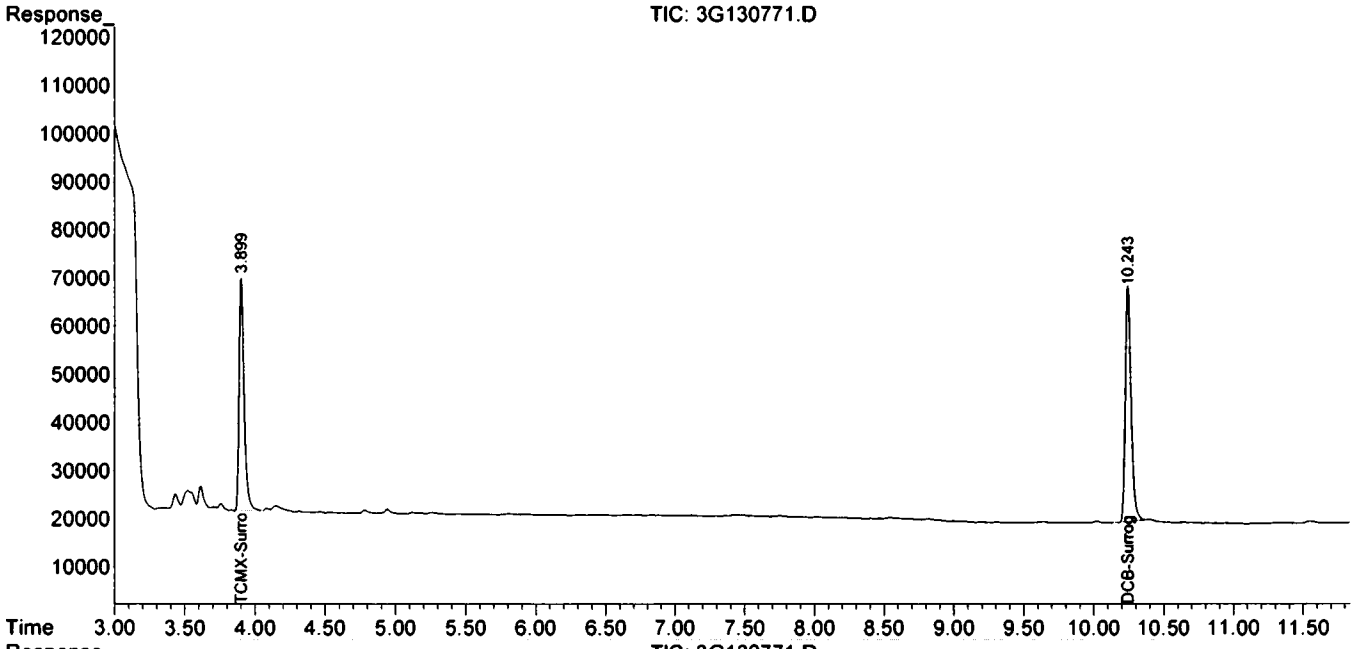
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

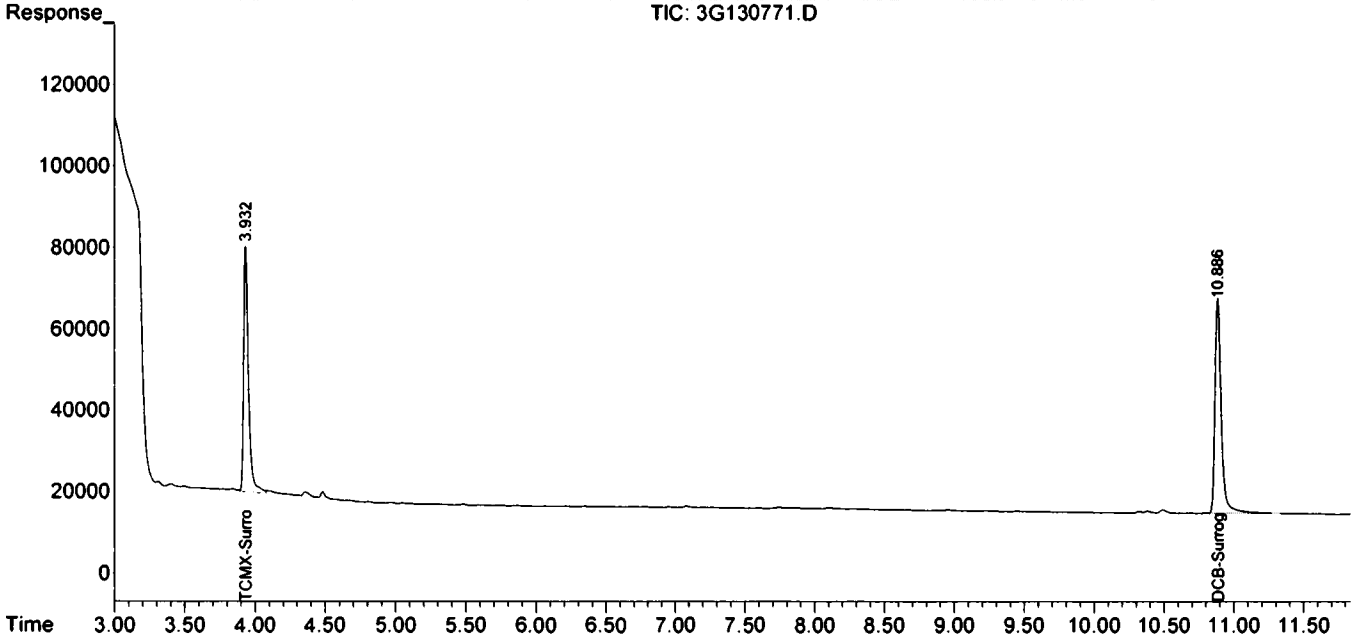
3

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130771.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 13:00
Operator : MS/MLC/MC/PR
Sample : AD26083-036
Misc : A,PCB
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 15:09:19 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-038
Client Id: LTM-18UG-20210916 U
Data File: 3G130772.D
Analysis Date: 09/29/21 13:15
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.26 | U | 11097-69-1 | Aroclor-1254 | 0.26 | U |
| 11104-28-2 | Aroclor-1221 | 0.26 | U | 11096-82-5 | Aroclor-1260 | 0.26 | U |
| 11141-16-5 | Aroclor-1232 | 0.26 | U | 37324-23-5 | Aroclor-1262 | 0.26 | U |
| 53469-21-9 | Aroclor-1242 | 0.26 | U | 11100-14-4 | Aroclor-1268 | 0.26 | U |
| 12672-29-6 | Aroclor-1248 | 0.26 | U | 1336-36-3 | Aroclor (Total) | 0.26 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130772.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 13:15
Operator : MS/MLC/MC/PR
Sample : AD26083-038
Misc : A,PCB
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 15:09:29 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

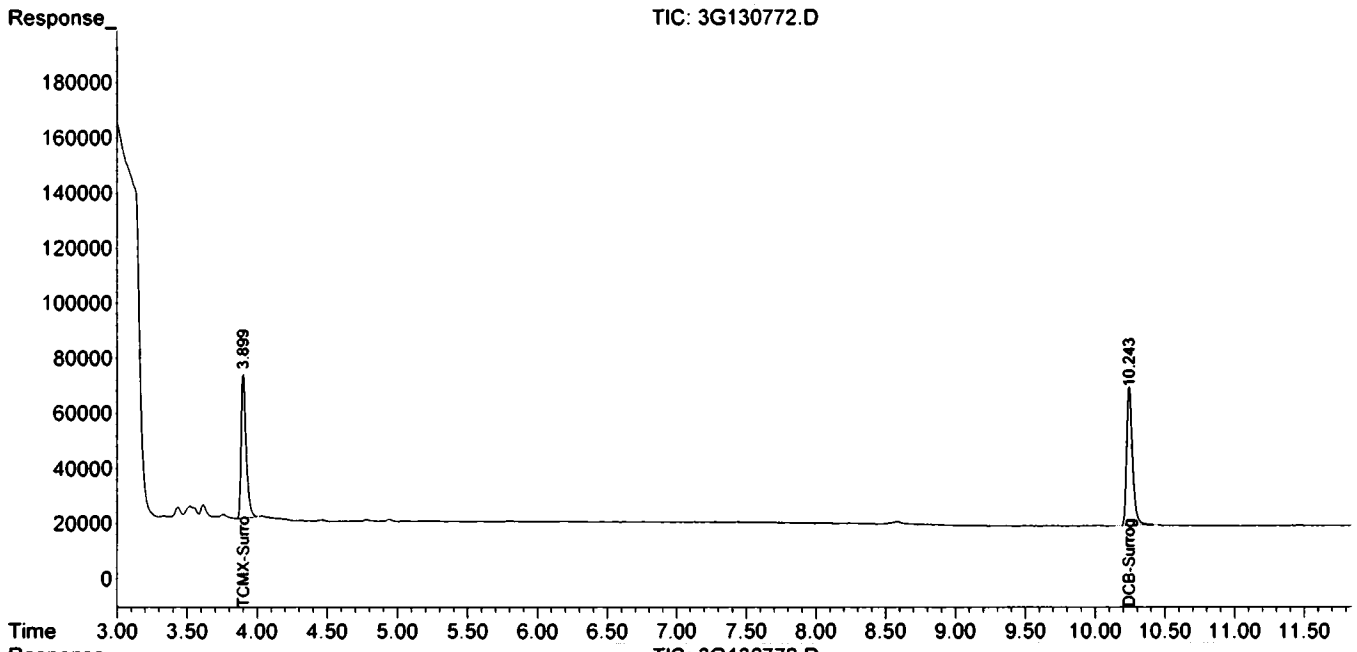
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.900 | 3.933 | 1289856 | 1628704 | 70.391 | 79.214 |
| 45) | DCB-Surrogate | 10.244 | 10.887 | 1459859 | 1691671 | 89.816 | 86.672 |

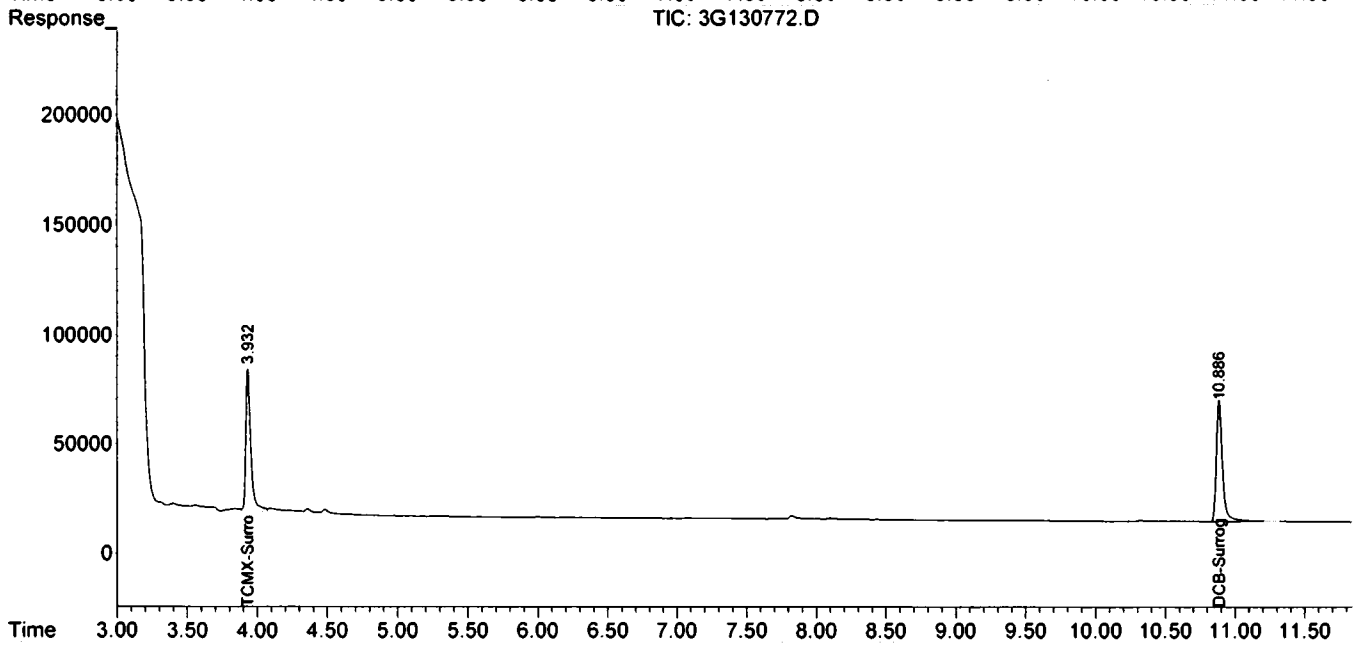
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130772.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 13:15
Operator : MS/MLC/MC/PR
Sample : AD26083-038
Misc : A,PCB
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 15:09:29 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-040(R)
Client Id: LTM-1-20210916 U
Data File: 3G130765.D
Analysis Date: 09/29/21 11:31
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130765.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 11:31
Operator : MS/MLC/MC/PR
Sample : AD26083-040(R)
Misc : A,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 11:49:04 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

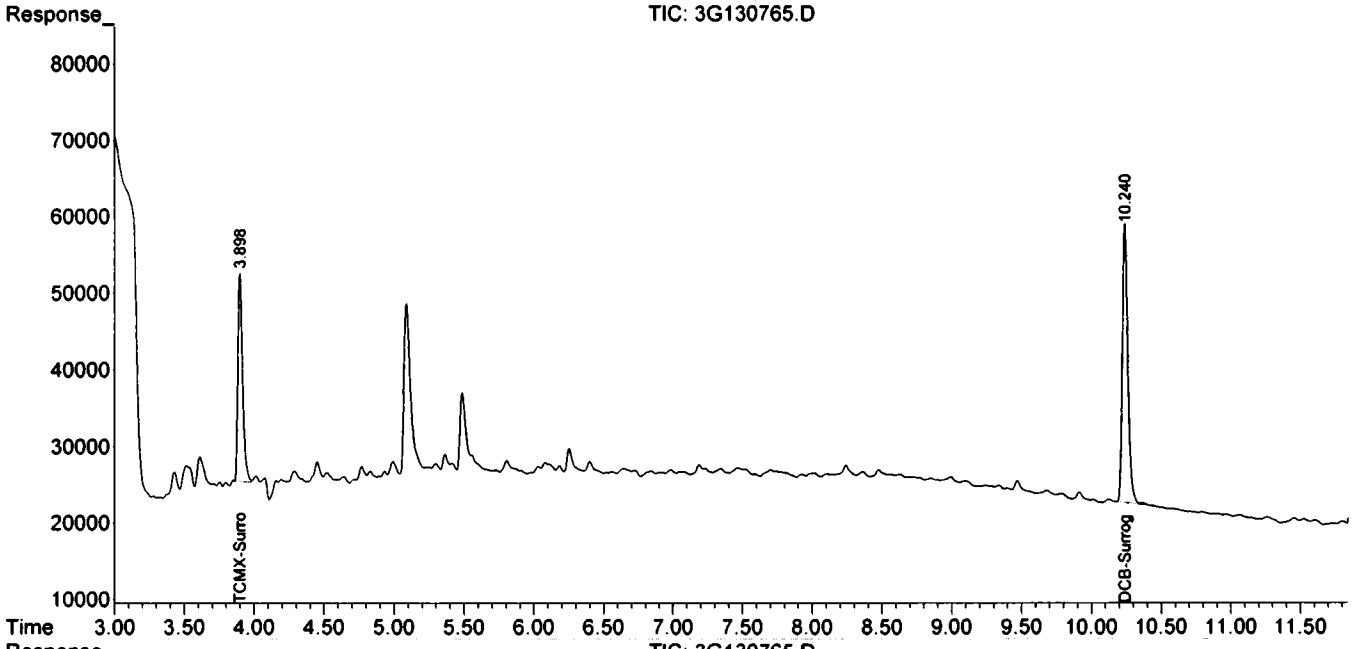
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.898 | 3.933 | 631298 | 851201 | 34.452m | 41.399 |
| 45) | DCB-Surrogate | 10.241 | 10.885 | 992222 | 1380542 | 61.045 | 70.731 |

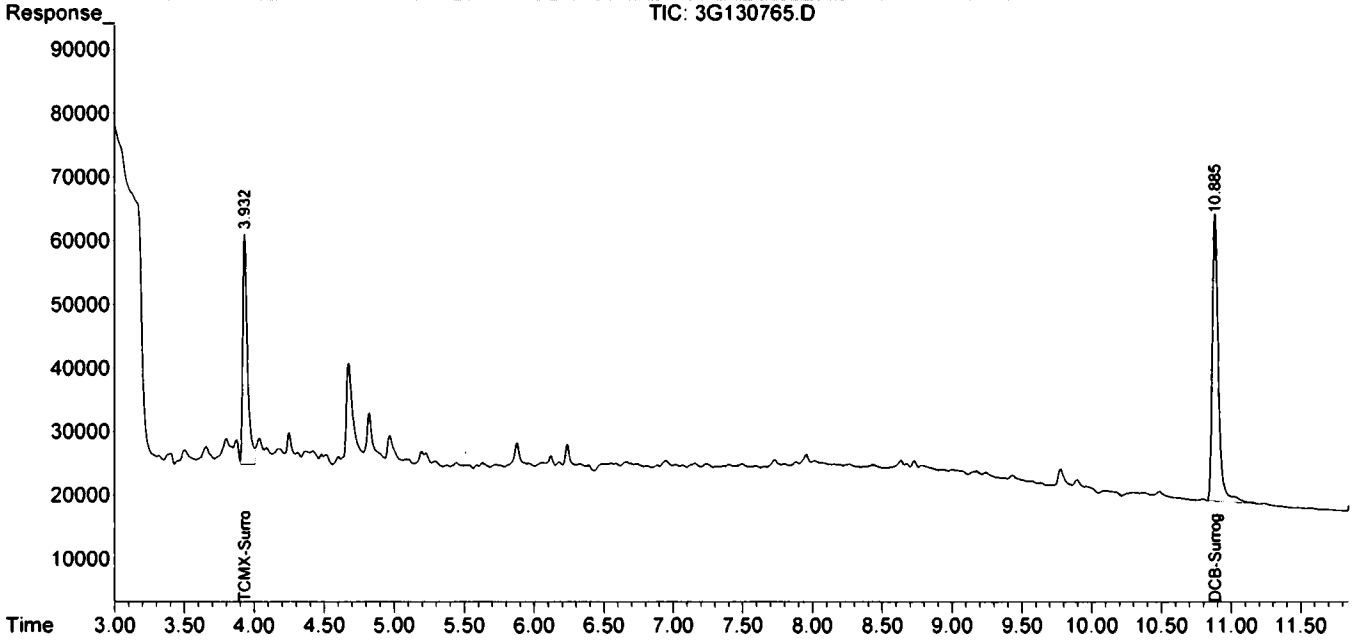
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130765.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 11:31
Operator : MS/MLC/MC/PR
Sample : AD26083-040(R)
Misc : A,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 11:49:04 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-042(MS:AD26
Client Id: LTM-1-20210916MS U
Data File: 3G130546.D
Analysis Date: 09/20/21 04:01
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **12674-11-2** | **(^)Aroclor-1016** | **0.25** | **4.1** | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | **11096-82-5** | **(^)Aroclor-1260** | **0.25** | **4.9** |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | **1336-36-3** | **Aroclor (Total)** | **0.25** | **9.0** |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130546.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 4:01
Operator : MS/MLC/MC
Sample : AD26083-042(MS:AD26083-040)
Misc : A,PCB
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:11:50 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

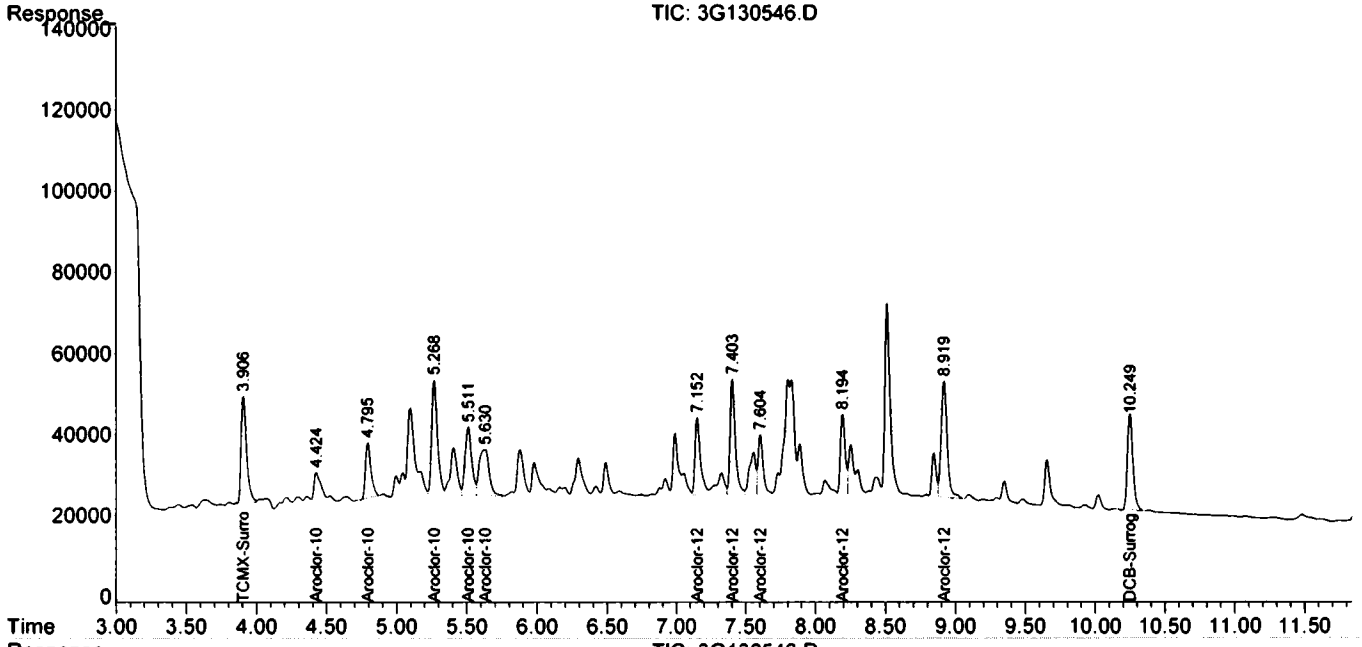
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 3.906 | 3.942 | 721589 | 946920 | 44.934 | 59.406 | # |
| 2)Aroclor-1016 {1} | 4.425 | 4.541 | 201259 | 202563 | 549.456 | 573.578 | |
| 3)Aroclor-1016 {2} | 4.796 | 4.971 | 370602 | 700737 | 523.355 | 944.050 | # |
| 4)Aroclor-1016 {3} | 5.269 | 5.352 | 850455 | 1236708 | 608.347 | 877.844 | # |
| 5)Aroclor-1016 {4} | 5.511 | 5.681 | 565690 | 549101 | 1214.360 | 879.603 | # |
| 6)Aroclor-1016 {5} | 5.629 | 6.056 | 575036 | 397667 | 587.873 | 870.779 | # |
| 7)Aroclor-1260 {1} | 7.153 | 7.371 | 521814 | 915128 | 591.798 | 1103.406 | # |
| 8)Aroclor-1260 {2} | 7.404 | 7.454 | 746145 | 1038379 | 667.113 | 977.586 | # |
| 9)Aroclor-1260 {3} | 7.605 | 8.087 | 385311 | 506493 | 635.048 | 959.472 | # |
| 10)Aroclor-1260 {4} | 8.195 | 8.447 | 479163 | 859476 | 694.797 | 998.585 | m# |
| 11)Aroclor-1260 {5} | 8.920 | 9.156 | 866916 | 738642 | 756.010 | 842.589 | |
| 45)DCB-Surrogate | 10.250 | 10.897 | 647905 | 951782 | 43.575 | 62.248 | # |

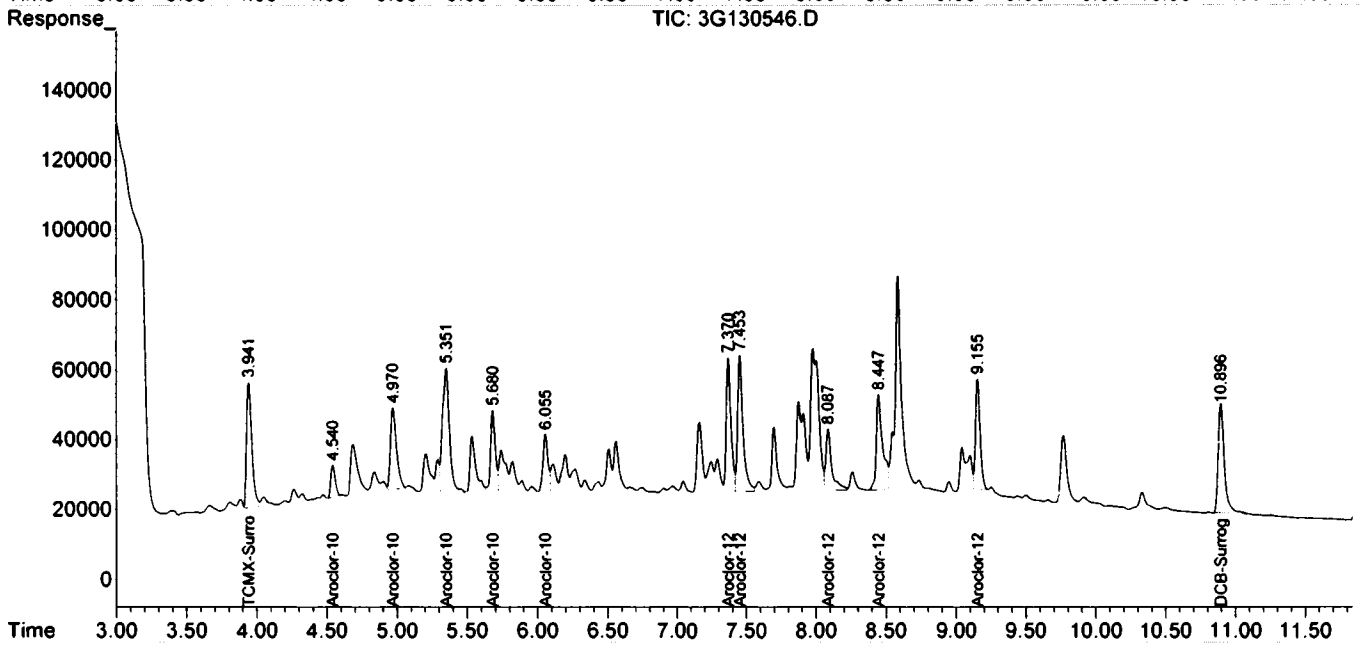
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130546.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 4:01
Operator : MS/MLC/MC
Sample : AD26083-042(MS:AD26083-040)
Misc : A,PCB
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:11:50 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-044(MSD:AD
Client Id: LTM-1-20210916MSD U
Data File: 3G130547.D
Analysis Date: 09/20/21 04:16
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **12674-11-2** | **(^)Aroclor-1016** | **0.25** | **3.8** | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | **11096-82-5** | **(^)Aroclor-1260** | **0.25** | **4.4** |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | **1336-36-3** | **Aroclor (Total)** | **0.25** | **8.2** |

Worksheet #: 610641

***Total Target Concentration*** 8.2

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130547.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 4:16
Operator : MS/MLC/MC
Sample : AD26083-044(MSD:AD26083-040)
Misc : A,PCB
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:12:09 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

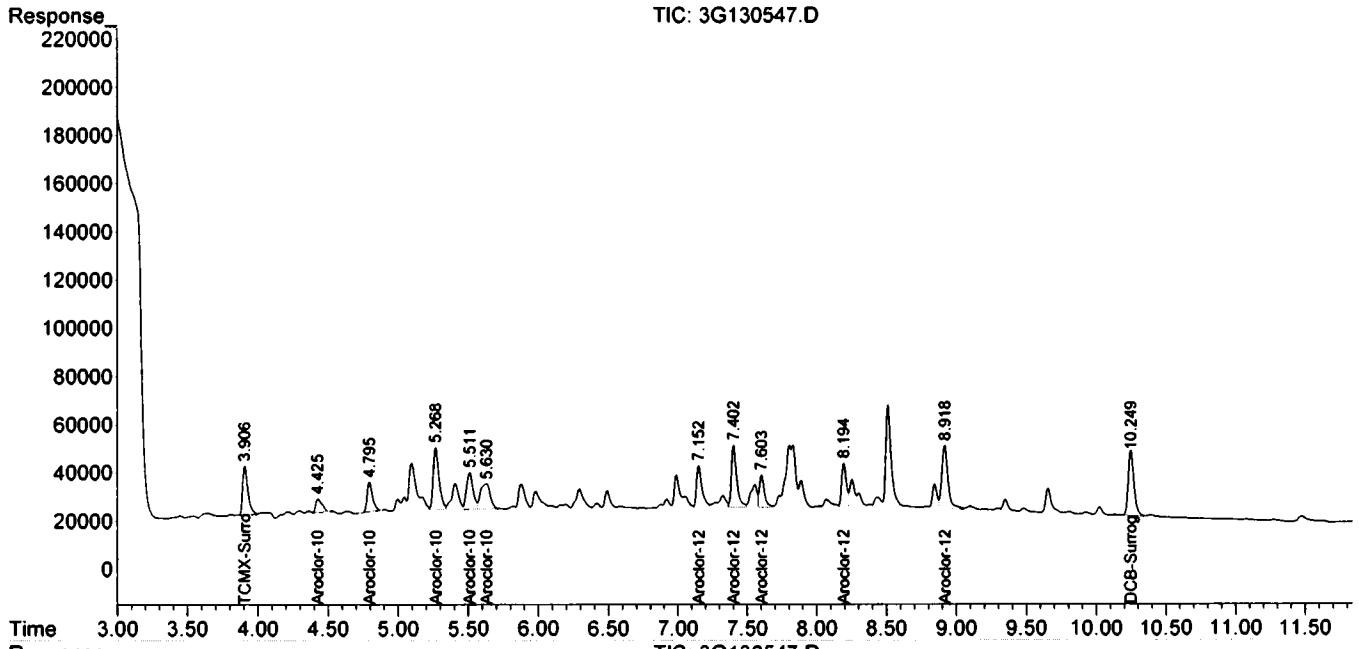
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 3.907 | 3.943 | 543093 | 681269 | 33.819 | 42.740 | # |
| 2)Aroclor-1016 {1} | 4.426 | 4.541 | 174978 | 184128 | 477.704 | 521.378 | |
| 3)Aroclor-1016 {2} | 4.796 | 4.971 | 326800 | 648493 | 461.498 | 873.667 | # |
| 4)Aroclor-1016 {3} | 5.269 | 5.352 | 764612 | 1123335 | 546.943 | 797.369 | # |
| 5)Aroclor-1016 {4} | 5.511 | 5.681 | 501908 | 498593 | 1077.442 | 798.694 | # |
| 6)Aroclor-1016 {5} | 5.631 | 6.056 | 503853 | 367588 | 515.101 | 804.916 | # |
| 7)Aroclor-1260 {1} | 7.153 | 7.370 | 476688 | 835203 | 540.620 | 994.941 | # |
| 8)Aroclor-1260 {2} | 7.404 | 7.453 | 674605 | 946453 | 603.150 | 891.042 | # |
| 9)Aroclor-1260 {3} | 7.604 | 8.087 | 347242 | 468991 | 572.306 | 888.430 | # |
| 10)Aroclor-1260 {4} | 8.195 | 8.448 | 429254 | 743269 | 622.428 | 863.569 | # |
| 11)Aroclor-1260 {5} | 8.919 | 9.156 | 794815 | 657957 | 693.132 | 750.549 | |
| 45)DCB-Surrogate | 10.250 | 10.897 | 761577 | 1123273 | 51.220 | 73.463 | # |

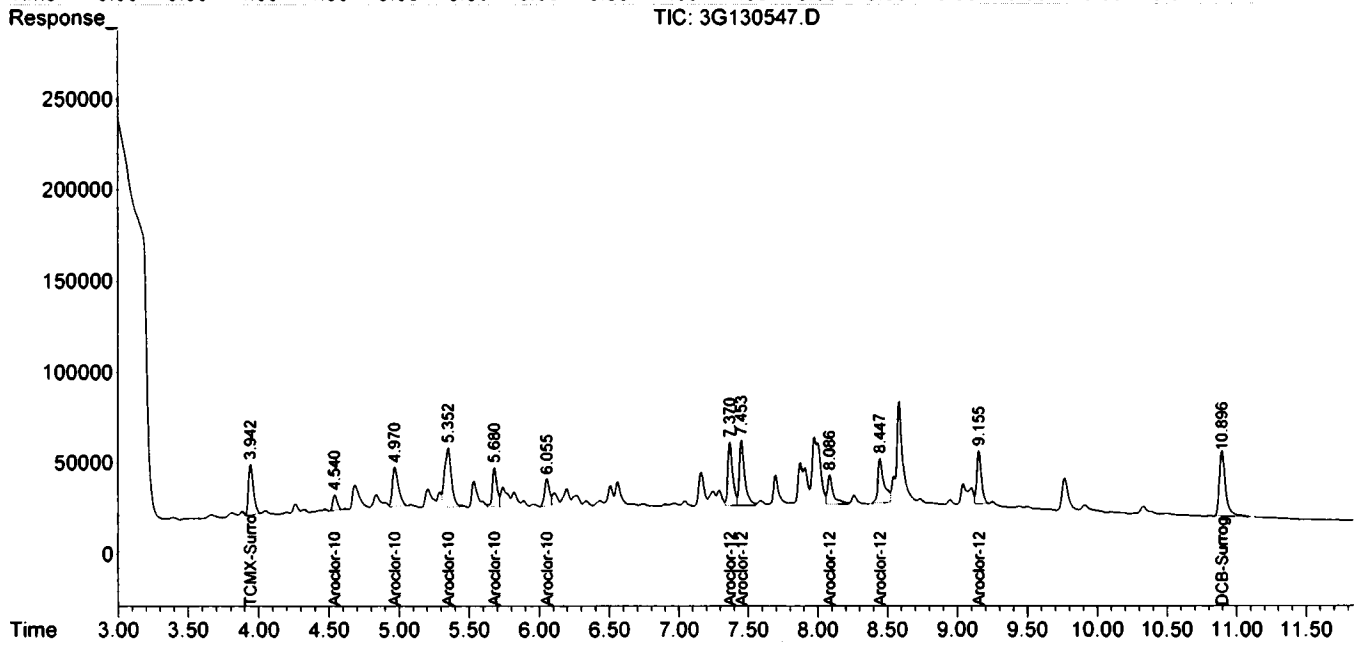
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130547.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 4:16
Operator : MS/MLC/MC
Sample : AD26083-044(MSD:AD26083-040)
Misc : A,PCB
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:12:09 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-046
Client Id: LTM-23-20210916 U
Data File: 3G130719.D
Analysis Date: 09/27/21 23:01
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.26 | U | 11097-69-1 | Aroclor-1254 | 0.26 | U |
| 11104-28-2 | Aroclor-1221 | 0.26 | U | 11096-82-5 | Aroclor-1260 | 0.26 | U |
| 11141-16-5 | Aroclor-1232 | 0.26 | U | 37324-23-5 | Aroclor-1262 | 0.26 | U |
| 53469-21-9 | Aroclor-1242 | 0.26 | U | 11100-14-4 | Aroclor-1268 | 0.26 | U |
| 12672-29-6 | Aroclor-1248 | 0.26 | U | 1336-36-3 | Aroclor (Total) | 0.26 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-27-21\
Data File : 3G130719.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2021 23:01
Operator : MS/MLC/MC
Sample : AD26083-046
Misc : A,PCB
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 11:34:38 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

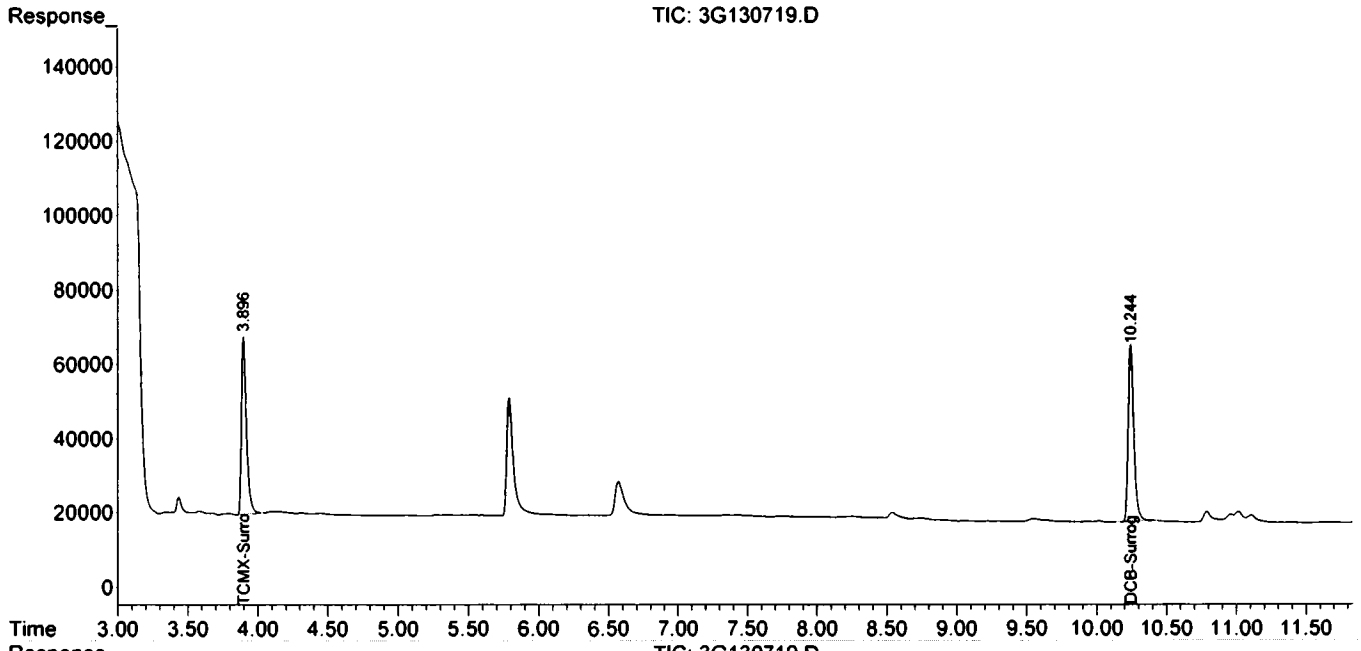
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.897 | 3.932 | 1172486 | 1528774 | 63.986 | 74.354 |
| 45) | DCB-Surrogate | 10.245 | 10.889 | 1340379 | 1852435 | 82.465 | 94.908 |

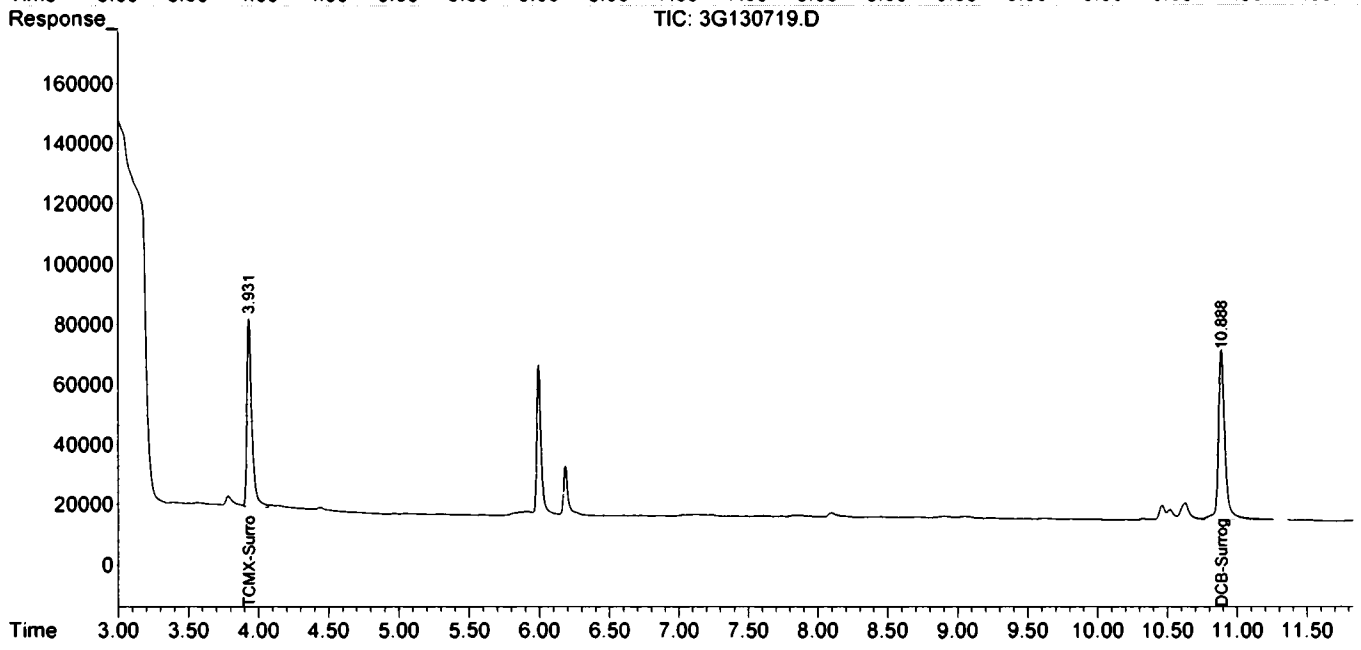
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-27-21\
Data File : 3G130719.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2021 23:01
Operator : MS/MLC/MC
Sample : AD26083-046
Misc : A,PCB
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 11:34:38 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-048
Client Id: LTM-19-20210916
Data File: 3G130720.D
Analysis Date: 09/27/21 23:16
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.26 | U | 11097-69-1 | Aroclor-1254 | 0.26 | U |
| 11104-28-2 | Aroclor-1221 | 0.26 | U | 11096-82-5 | Aroclor-1260 | 0.26 | U |
| 11141-16-5 | Aroclor-1232 | 0.26 | U | 37324-23-5 | Aroclor-1262 | 0.26 | U |
| 53469-21-9 | Aroclor-1242 | 0.26 | U | 11100-14-4 | Aroclor-1268 | 0.26 | U |
| 12672-29-6 | Aroclor-1248 | 0.26 | U | 1336-36-3 | Aroclor (Total) | 0.26 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-27-21\
Data File : 3G130720.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2021 23:16
Operator : MS/MLC/MC
Sample : AD26083-048
Misc : A,PCB
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 11:34:42 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

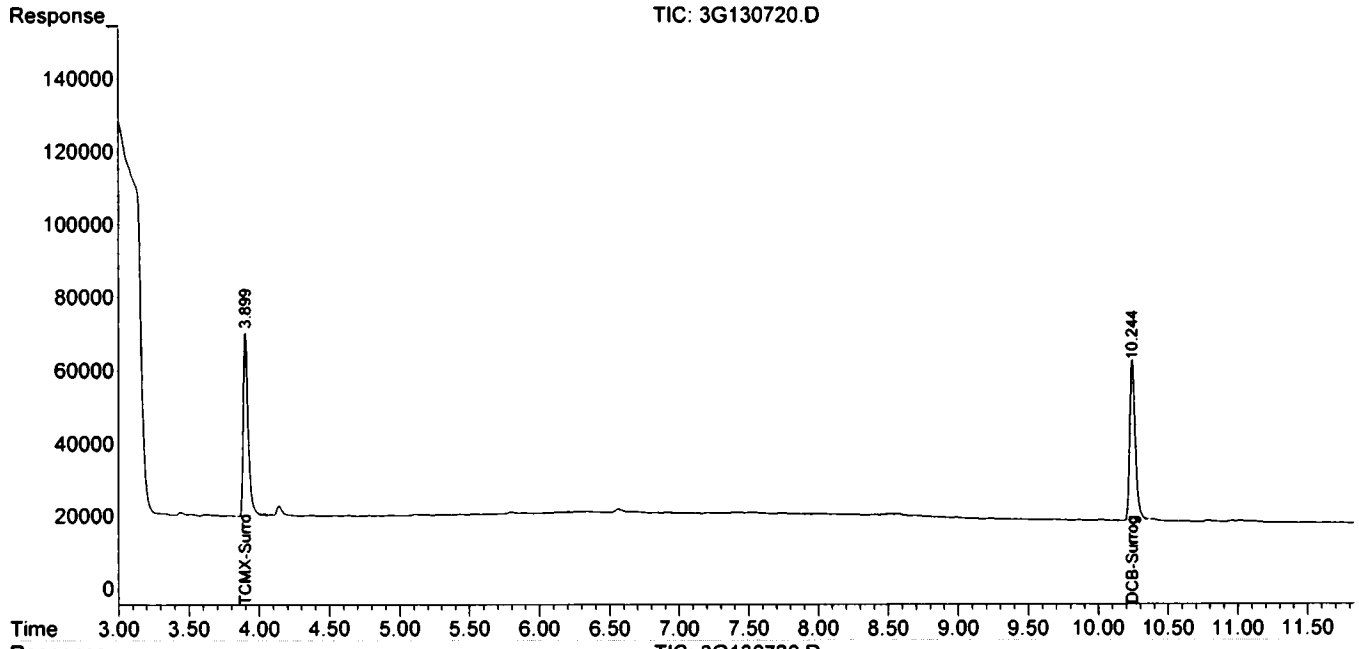
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.900 | 3.934 | 1205707 | 1453098 | 65.799 | 70.673 |
| 45) | DCB-Surrogate | 10.244 | 10.889 | 1206306 | 1525486 | 74.217 | 78.157 |

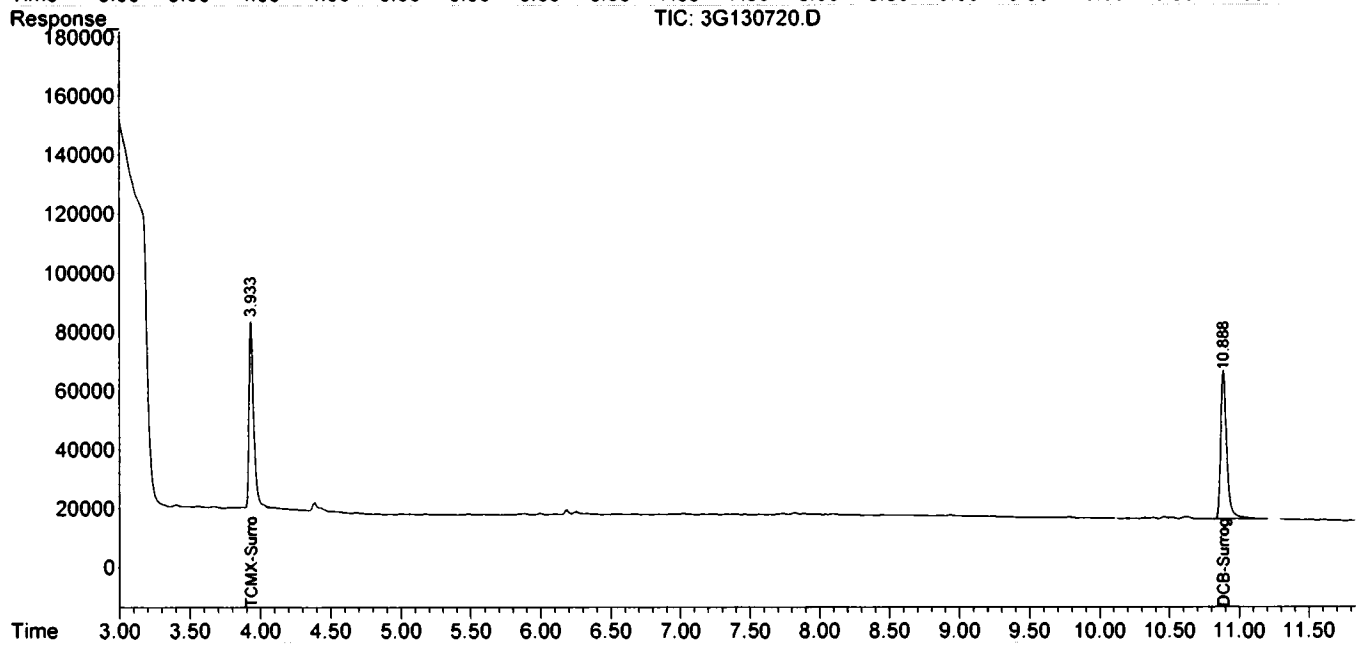
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-27-21\
Data File : 3G130720.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2021 23:16
Operator : MS/MLC/MC
Sample : AD26083-048
Misc : A,PCB
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 11:34:42 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-049(MS:AD26
Client Id: LTM-19-20210916MS
Data File: 3G130589.D
Analysis Date: 09/21/21 16:53
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 990ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **12674-11-2** | **(^)Aroclor-1016** | **0.25** | **4.7** | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | **11096-82-5** | **(^)Aroclor-1260** | **0.25** | **5.2** |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | **1336-36-3** | **Aroclor (Total)** | **0.25** | **9.9** |

Worksheet #: 610641

***Total Target Concentration*** 9.9

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130589.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 16:53
Operator : MS/MLC/MC
Sample : AD26083-049(MS:AD26083-048)
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 09:33:28 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

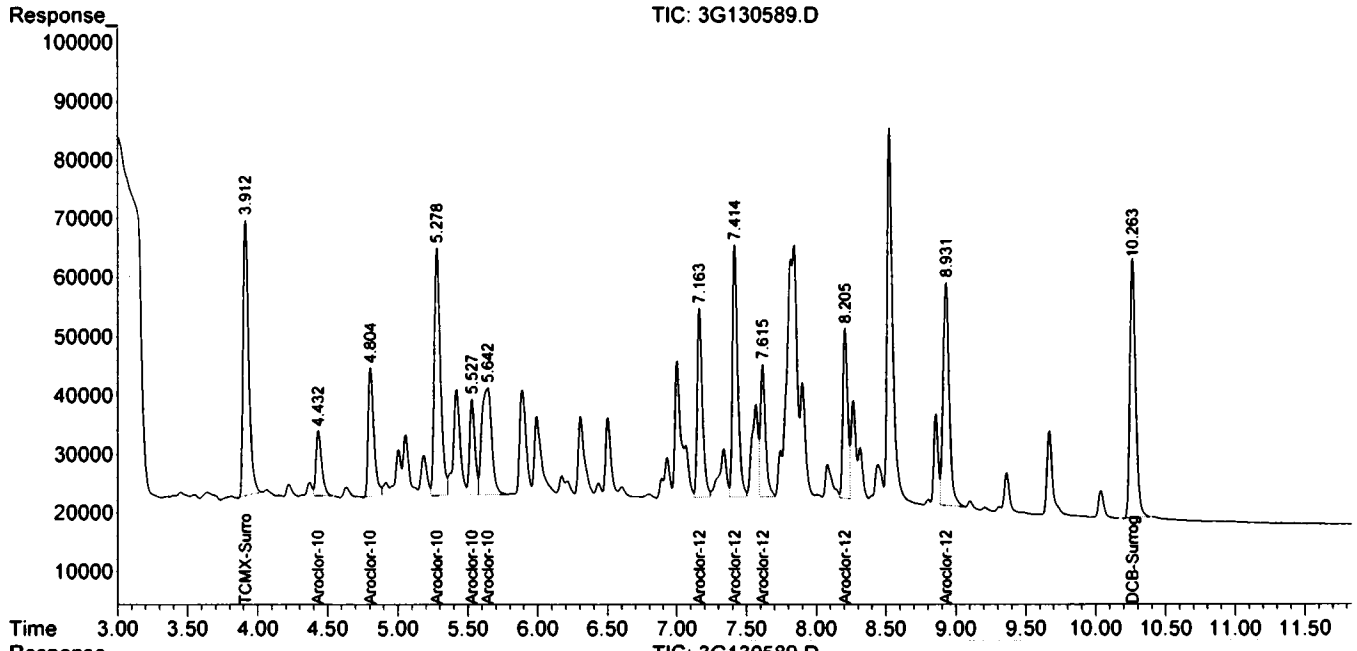
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.913 | 3.942 | 1297732 | 1388090 | 80.811 | 87.084 |
| 2)Aroclor-1016 {1} | 4.433 | 4.543 | 315148 | 309416 | 860.381 | 876.144 |
| 3)Aroclor-1016 {2} | 4.805 | 4.970 | 617748 | 647539 | 872.368 | 872.380 |
| 4)Aroclor-1016 {3} | 5.279 | 5.354 | 1288890 | 1339332 | 921.969 | 950.689 |
| 5)Aroclor-1016 {4} | 5.527 | 5.683 | 431961 | 615422 | 927.285 | 985.843 |
| 6)Aroclor-1016 {5} | 5.642 | 6.058 | 899296 | 445501 | 919.371 | 975.523 |
| 7)Aroclor-1260 {1} | 7.164 | 7.374 | 824215 | 962404 | 934.756 | 1167.564 |
| 8)Aroclor-1260 {2} | 7.415 | 7.457 | 1119650 | 1016282 | 1001.055 | 956.783 |
| 9)Aroclor-1260 {3} | 7.616 | 8.091 | 589728 | 523494 | 971.957 | 991.678 |
| 10)Aroclor-1260 {4} | 8.207 | 8.451 | 696381 | 948459 | 1009.768 | 1101.971m |
| 11)Aroclor-1260 {5} | 8.931 | 9.160 | 1170684 | 838775 | 1020.916 | 956.814m |
| 45)DCB-Surrogate | 10.264 | 10.905 | 1245236 | 1470974 | 83.749 | 96.203 |

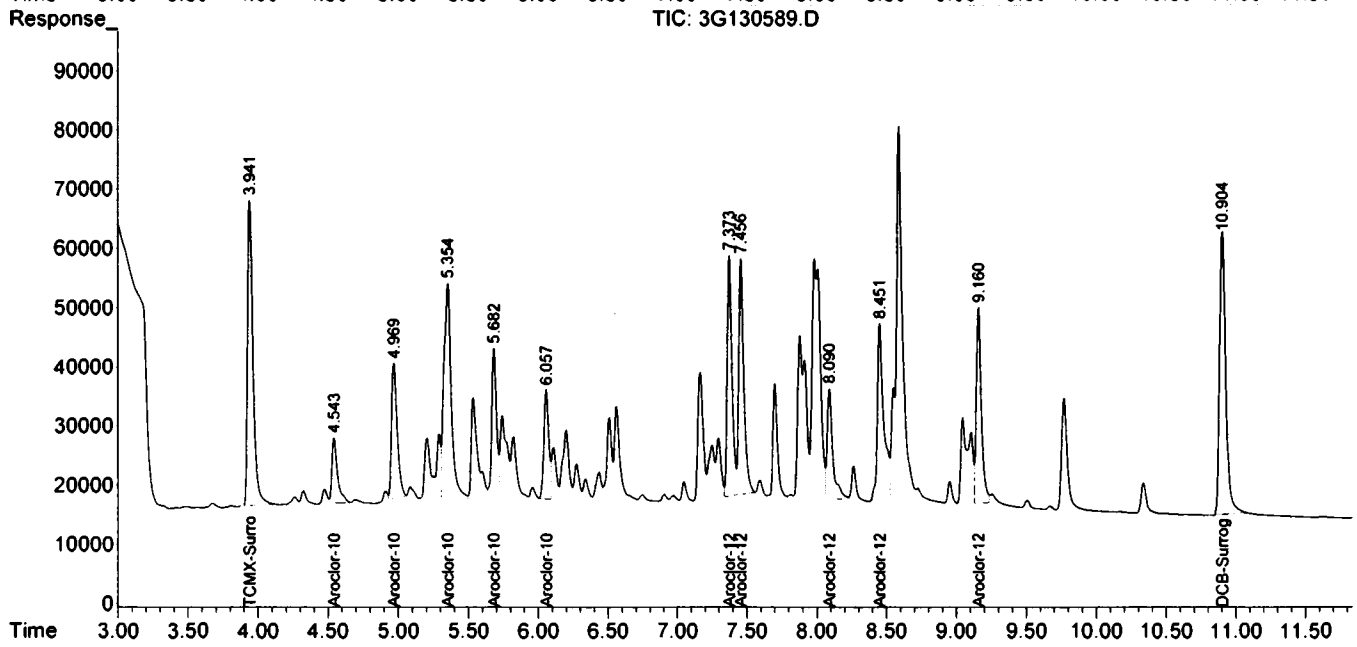
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130589.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 16:53
Operator : MS/MLC/MC
Sample : AD26083-049(MS:AD26083-048)
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 09:33:28 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: AD26083-050(MSD:AD
Client Id: LTM-19-20210916MSD
Data File: 3G130590.D
Analysis Date: 09/21/21 17:08
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **12674-11-2** | **(^)Aroclor-1016** | **0.26** | **5.0** | 11097-69-1 | Aroclor-1254 | 0.26 | U |
| 11104-28-2 | Aroclor-1221 | 0.26 | U | **11096-82-5** | **(^)Aroclor-1260** | **0.26** | **5.6** |
| 11141-16-5 | Aroclor-1232 | 0.26 | U | 37324-23-5 | Aroclor-1262 | 0.26 | U |
| 53469-21-9 | Aroclor-1242 | 0.26 | U | 11100-14-4 | Aroclor-1268 | 0.26 | U |
| 12672-29-6 | Aroclor-1248 | 0.26 | U | **1336-36-3** | **Aroclor (Total)** | **0.26** | **11** |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130590.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 17:08
Operator : MS/MLC/MC
Sample : AD26083-050(MSD:AD26083-048)
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 09:33:54 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

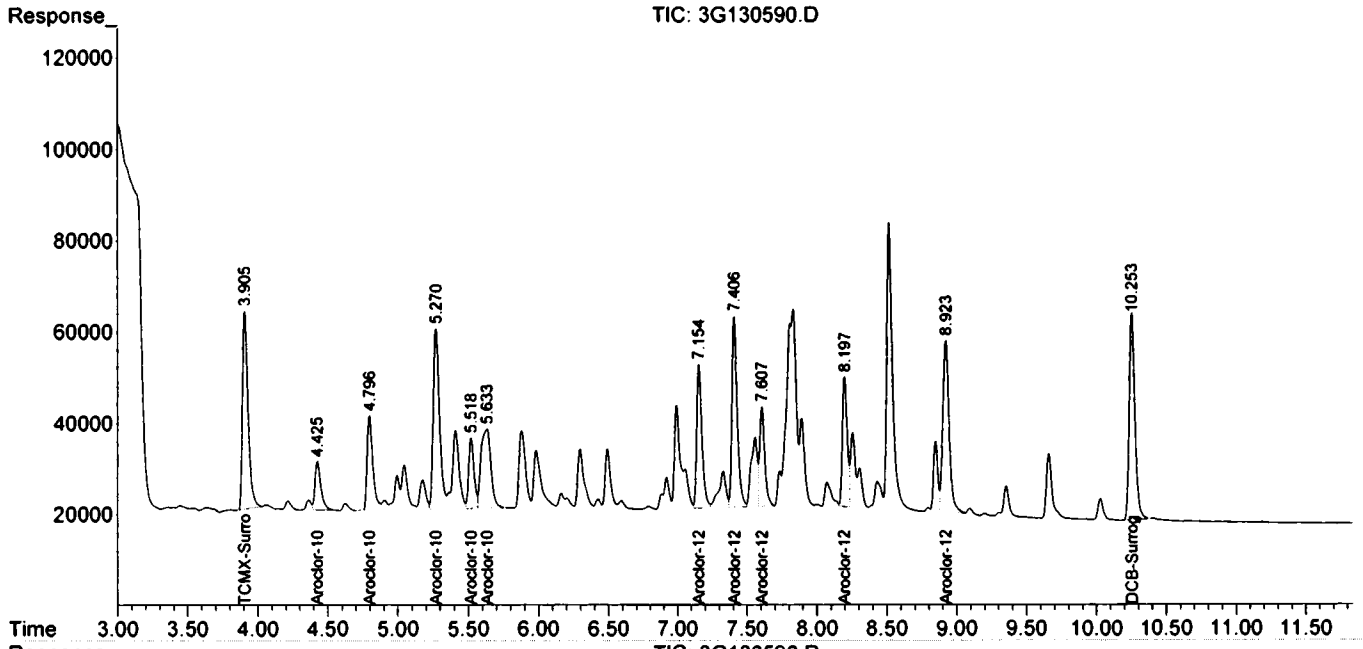
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.906 | 3.940 | 1211074 | 1425599 | 75.415 | 89.437 |
| 2)Aroclor-1016 {1} | 4.426 | 4.541 | 310406 | 322726 | 847.434 | 913.832 |
| 3)Aroclor-1016 {2} | 4.797 | 4.968 | 591160 | 670253 | 834.820 | 902.982 |
| 4)Aroclor-1016 {3} | 5.271 | 5.351 | 1221980 | 1379276 | 874.107 | 979.042 |
| 5)Aroclor-1016 {4} | 5.519 | 5.681 | 405518 | 628750 | 870.520 | 1007.192 |
| 6)Aroclor-1016 {5} | 5.633 | 6.055 | 847036 | 459713 | 865.944 | 1006.644 |
| 7)Aroclor-1260 {1} | 7.155 | 7.371 | 815643 | 1006930 | 925.035 | 1227.989 # |
| 8)Aroclor-1260 {2} | 7.407 | 7.454 | 1100004 | 1067100 | 983.490 | 1004.626 |
| 9)Aroclor-1260 {3} | 7.608 | 8.087 | 569465 | 553947 | 938.560 | 1049.365 |
| 10)Aroclor-1260 {4} | 8.198 | 8.448 | 684019 | 999797 | 991.842 | 1161.618m |
| 11)Aroclor-1260 {5} | 8.924 | 9.156 | 1188968 | 878783 | 1036.861 | 1002.452m |
| 45)DCB-Surrogate | 10.254 | 10.898 | 1280609 | 1568998 | 86.128 | 102.614 |

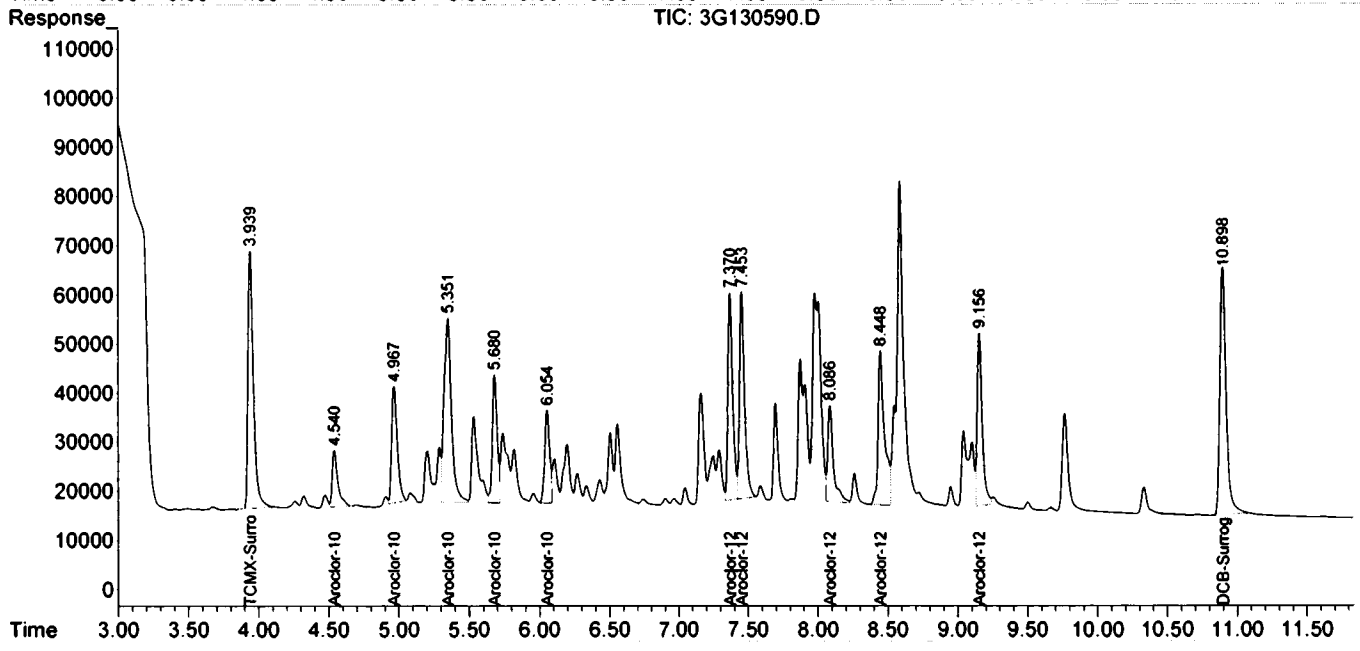
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130590.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 17:08
Operator : MS/MLC/MC
Sample : AD26083-050(MSD:AD26083-048)
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 09:33:54 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# GC PCB Data
# Standards Data

1091738 1360

# Form 6

## Initial Calibration

Method: EPA 8082A

Instrument: GC_3

| Level # | Data File | Cal Identifier | Analysis Date/Time | Level # | Data File | Cal Identifier | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 3G128892.D | CAL 1660@50PPB | 07/19/21 11:51 | 2 | 3G128893.D | CAL 1660@200PPB | 07/19/21 12:06 |
| 3 | 3G128894.D | CAL 1660@500PPB | 07/19/21 12:21 | 4 | 3G128895.D | CAL 1660@1000PPB | 07/19/21 12:36 |
| 5 | 3G128896.D | CAL 1660@2000PPB | 07/19/21 12:51 | 6 | 3G128897.D | CAL 1660@4000PPB | 07/19/21 13:06 |
| 7 | 3G128888.D | CAL 3268@500PPB | 07/19/21 10:52 | 8 | 3G128889.D | CAL 1242@500PPB | 07/19/21 11:07 |
| 9 | 3G128890.D | CAL 1248@500PPB | 07/19/21 11:21 | 10 | 3G128887.D | CAL 2154@500PPB | 07/19/21 10:37 |
| 11 | 3G128891.D | CAL 1262@500PPB | 07/19/21 11:36 | | | | |

| Compound | Col | Mr | Fit | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | AvgRf | RT | Corr1 | Corr2 | %Rsd | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCMX-Surrogate | 1 | 0 | Avg | 1.8230 | 1.7096 | 1.6205 | 1.5950 | 1.4857 | 1.4012 | ---- | ---- | 1.61 | 3.91 | 0.999 | 1.00 | 9.4 | 5.00 | 20.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Aroclor-1016 | 1 | 1 | Avg | 0.0470 | 0.0406 | 0.0363 | 0.0347 | 0.0314 | 0.0295 | ---- | ---- | 0.0366 | 4.44 | 0.998 | 1.00 | 18 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 1 | 2 | Avg | 0.0893 | 0.0827 | 0.0747 | 0.0662 | 0.0596 | 0.0521 | ---- | ---- | 0.0708 | 4.81 | 0.994 | 1.00 | 20 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 1 | 3 | Avg | 0.1760 | 0.1606 | 0.1464 | 0.1305 | 0.1187 | 0.1063 | ---- | ---- | 0.140 | 5.28 | 0.996 | 1.00 | 19 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 1 | 4 | Avg | 0.0549 | 0.0509 | 0.0486 | 0.0449 | 0.0420 | 0.0379 | ---- | ---- | 0.0466 | 5.53 | 0.997 | 1.00 | 13 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 1 | 5 | Avg | 0.1197 | 0.1084 | 0.1021 | 0.0932 | 0.0864 | 0.0768 | ---- | ---- | 0.0978 | 5.65 | 0.996 | 1.00 | 16 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 1 | 1 | Avg | 0.1080 | 0.1048 | 0.0911 | 0.0833 | 0.0748 | 0.0667 | ---- | ---- | 0.0882 | 7.17 | 0.995 | 1.00 | 19 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 1 | 2 | Avg | 0.1346 | 0.1312 | 0.1148 | 0.1060 | 0.0967 | 0.0876 | ---- | ---- | 0.112 | 7.42 | 0.997 | 1.00 | 17 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 1 | 3 | Avg | 0.0659 | 0.0675 | 0.0611 | 0.0602 | 0.0564 | 0.0527 | ---- | ---- | 0.0607 | 7.62 | 0.998 | 1.00 | 9.2 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 1 | 4 | Avg | 0.0803 | 0.0780 | 0.0666 | 0.0678 | 0.0628 | 0.0581 | ---- | ---- | 0.0690 | 8.22 | 0.998 | 1.00 | 13 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 1 | 5 | Avg | 0.1227 | 0.1206 | 0.1161 | 0.1116 | 0.1100 | 0.1067 | ---- | ---- | 0.115 | 8.95 | 1.00 | 1.00 | 5.5 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1221 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0276 | 4.23 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1221 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0157 | 4.39 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1221 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0640 | 4.45 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1232 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0440 | 4.44 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0386 | 4.81 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0729 | 5.28 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 1 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0314 | 5.42 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 1 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0347 | 5.89 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1242 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0362 | 4.44 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0677 | 4.81 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.135 | 5.28 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 1 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0977 | 5.65 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 1 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0628 | 5.89 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1248 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0310 | 4.81 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0845 | 5.28 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.143 | 5.63 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 1 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0919 | 5.89 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 1 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0945 | 6.60 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1254 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0450 | 6.82 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.134 | 7.03 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0812 | 7.19 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 1 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.122 | 7.31 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 1 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0551 | 7.70 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1262 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.151 | 7.85 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0913 | 8.87 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |

Avg Rsd Col 1: 14.19  Avg Rsd Col 2: 15.17

***Flags***

e - failed the initial calibration criteria(if applicable)

***Note:***

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

'Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1091738 1361

# Form 6

## Initial Calibration

Method: EPA 8082A

Instrument: GC_3

| Level # | Data File | Cal Identifier | Analysis Date/Time | Level # | Data File | Cal Identifier | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 3G128892.D | CAL 1660@50PPB | 07/19/21 11:51 | 2 | 3G128893.D | CAL 1660@200PPB | 07/19/21 12:06 |
| 3 | 3G128894.D | CAL 1660@500PPB | 07/19/21 12:21 | 4 | 3G128895.D | CAL 1660@1000PPB | 07/19/21 12:36 |
| 5 | 3G128896.D | CAL 1660@2000PPB | 07/19/21 12:51 | 6 | 3G128897.D | CAL 1660@4000PPB | 07/19/21 13:06 |
| 7 | 3G128888.D | CAL 3268@500PPB | 07/19/21 10:52 | 8 | 3G128889.D | CAL 1242@500PPB | 07/19/21 11:07 |
| 9 | 3G128890.D | CAL 1248@500PPB | 07/19/21 11:21 | 10 | 3G128887.D | CAL 2154@500PPB | 07/19/21 10:37 |
| 11 | 3G128891.D | CAL 1262@500PPB | 07/19/21 11:36 | | | | |

| Compound | Col | Mr | Fit | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | AvgRf | RT | Corr1 | Corr2 | %Rsd | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1262 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.176 | 8.93 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 1 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0796 | 9.69 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 1 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0297 | 10.05 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1268 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0224 | 8.21 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0243 | 8.53 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.211 | 9.11 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 1 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0649 | 9.22 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 1 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.590 | 10.05 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| DCB-Surrogate | 1 | 0 | Avg | 1.7791 | 1.6276 | 1.5109 | 1.4226 | 1.3322 | 1.2486 | ---- | ---- | 1.49 | 10.28 | 0.999 | 1.00 | 13 | 5.00 | 20.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| TCMX-Surrogate | 2 | 0 | Avg | 1.7503 | 1.6397 | 1.6016 | 1.5497 | 1.5339 | 1.4883 | ---- | ---- | 1.59 | 3.95 | 1.00 | 1.00 | 5.8 | 5.00 | 20.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Aroclor-1016 | 2 | 1 | Avg | 0.0427 | 0.0410 | 0.0367 | 0.0328 | 0.0304 | 0.0280 | ---- | ---- | 0.0353 | 4.55 | 0.998 | 1.00 | 17 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 2 | 2 | Avg | 0.0921 | 0.0881 | 0.0783 | 0.0693 | 0.0618 | 0.0555 | ---- | ---- | 0.0742 | 4.98 | 0.995 | 0.999 | 20 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 2 | 3 | Avg | 0.1758 | 0.1606 | 0.1452 | 0.1314 | 0.1205 | 0.1115 | ---- | ---- | 0.141 | 5.36 | 0.998 | 1.00 | 17 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 2 | 4 | Avg | 0.0793 | 0.0723 | 0.0646 | 0.0579 | 0.0523 | 0.0479 | ---- | ---- | 0.0624 | 5.69 | 0.997 | 1.00 | 19 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 2 | 5 | Avg | 0.0584 | 0.0523 | 0.0471 | 0.0423 | 0.0383 | 0.0353 | ---- | ---- | 0.0457 | 6.06 | 0.997 | 1.00 | 19 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 2 | 1 | Lin | 0.1298 | 0.1131 | 0.0993 | 0.0896 | 0.0817 | 0.0751 | ---- | ---- | 0.0981 | 7.38 | 0.997 | 1.00 | 21 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 2 | 2 | Avg | 0.1324 | 0.1229 | 0.1072 | 0.0985 | 0.0913 | 0.0847 | ---- | ---- | 0.106 | 7.46 | 0.998 | 1.00 | 17 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 2 | 3 | Avg | 0.0622 | 0.0577 | 0.0523 | 0.0494 | 0.0485 | 0.0464 | ---- | ---- | 0.0528 | 8.10 | 1.00 | 1.00 | 11 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 2 | 4 | Avg | 0.1031 | 0.0939 | 0.0866 | 0.0796 | 0.0779 | 0.0749 | ---- | ---- | 0.0861 | 8.46 | 1.00 | 1.00 | 13 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 2 | 5 | Avg | 0.0952 | 0.0970 | 0.0888 | 0.0823 | 0.0822 | 0.0802 | ---- | ---- | 0.0877 | 9.17 | 1.00 | 1.00 | 8.2 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1221 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0247 | 4.33 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1221 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0143 | 4.48 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1221 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0462 | 4.55 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1232 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0397 | 4.55 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0408 | 4.98 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0718 | 5.36 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 2 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0242 | 6.21 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 2 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0167 | 6.29 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1242 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0351 | 4.55 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0685 | 4.98 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.129 | 5.36 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 2 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0571 | 5.69 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 2 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0479 | 6.06 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1248 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0341 | 4.98 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0803 | 5.36 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0642 | 5.69 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |

Avg Rsd Col 1: 14.19  Avg Rsd Col 2: 15.17

***Flags***

c - failed the initial calibration criteria(if applicable)

***Note:***

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF Linear or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1091738 1362

# Form 6

## Initial Calibration

Method: EPA 8082A

Instrument: GC_3

| Level # | Data File | Cal Identifier | Analysis Date/Time | Level # | Data File | Cal Identifier | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 3G128892.D | CAL 1660@50PPB | 07/19/21 11:51 | 2 | 3G128893.D | CAL 1660@200PPB | 07/19/21 12:06 |
| 3 | 3G128894.D | CAL 1660@500PPB | 07/19/21 12:21 | 4 | 3G128895.D | CAL 1660@1000PPB | 07/19/21 12:36 |
| 5 | 3G128896.D | CAL 1660@2000PPB | 07/19/21 12:51 | 6 | 3G128897.D | CAL 1660@4000PPB | 07/19/21 13:06 |
| 7 | 3G128888.D | CAL 3268@500PPB | 07/19/21 10:52 | 8 | 3G128889.D | CAL 1242@500PPB | 07/19/21 11:07 |
| 9 | 3G128890.D | CAL 1248@500PPB | 07/19/21 11:21 | 10 | 3G128887.D | CAL 2154@500PPB | 07/19/21 10:37 |
| 11 | 3G128891.D | CAL 1262@500PPB | 07/19/21 11:36 | | | | |

| Compound | Col | Mr | Fit | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | AvgRf | RT | Corr1 | Corr2 | %Rsd | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1248 | 2 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0632 | 6.21 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 2 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0710 | 6.34 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1254 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.104 | 6.57 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0336 | 6.91 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0794 | 7.31 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 2 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0367 | 7.83 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 2 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0383 | 8.52 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1262 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.101 | 7.89 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0769 | 9.05 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.107 | 9.17 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 2 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.101 | 9.78 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 2 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0301 | 10.35 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1268 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0177 | 8.56 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0337 | 8.60 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.187 | 9.52 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 2 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0536 | 9.68 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 2 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.569 | 10.35 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| DCB-Surrogate | 2 | 0 | Avg | 1.8556 | 1.6917 | 1.5306 | 1.4151 | 1.3609 | 1.3200 | ---- | ---- | 1.53 | 10.92 | 1.00 | 1.00 | 14 | 5.00 | 20.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |

Avg Rsd Col 1: 14.19  Avg Rsd Col 2: 15.17

***Flags***

c - failed the initial calibration criteria(if applicable)

***Note:***

Col = Column Number

Mr = MultiPeak Analyte (0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.))

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound

Corr 1 = Correlation Coefficient for linear Eq

Corr 2 = Correlation Coefficient for quad Eq

All Response Factors = Response Factors / 10000

Initial Calibration Criteria: either %RSD <=20 or Corr >= .995

Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128892.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 11:51
Operator : MS/MLC/JKR
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 10:00:44 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.912 | 3.946 | 91150 | 87519 | 3.967m | 4.109 |
| 2)Aroclor-1016 {1} | 4.436 | 4.549 | 23529 | 21388 | 64.239m | 42.519 # |
| 3)Aroclor-1016 {2} | 4.807 | 4.976 | 44655 | 46048 | 55.011m | 45.568 |
| 4)Aroclor-1016 {3} | 5.282 | 5.361 | 88037 | 87900 | 49.615 | 44.214 |
| 5)Aroclor-1016 {4} | 5.531 | 5.689 | 27485 | 39660 | 48.870 | 47.372 |
| 6)Aroclor-1016 {5} | 5.649 | 6.064 | 59859 | 29242 | 52.568 | 47.526 |
| 7)Aroclor-1260 {1} | 7.170 | 7.380 | 54009 | 64902 | 49.834 | 51.511 |
| 8)Aroclor-1260 {2} | 7.421 | 7.463 | 67315 | 66226 | 40.569 | 47.039 |
| 9)Aroclor-1260 {3} | 7.623 | 8.097 | 32963 | 31104 | 38.920 | 47.321 |
| 10)Aroclor-1260 {4} | 8.213 | 8.459 | 40154 | 51582 | 40.618m | 44.547 |
| 11)Aroclor-1260 {5} | 8.947 | 9.170 | 61371 | 47643 | 39.955 | 45.449 |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128892.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 11:51
Operator : MS/MLC/JKR
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 10:00:44 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

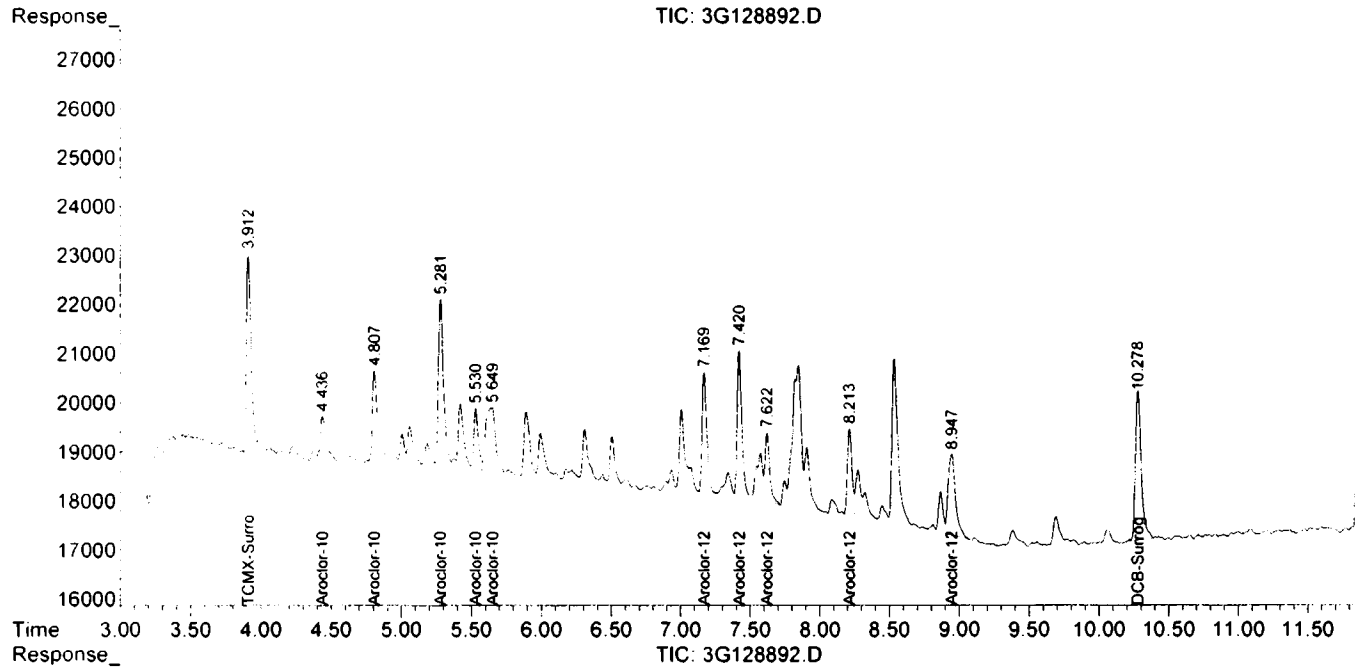
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.279 | 10.919 | 88957 | 92783 | 4.660 | 4.983 |

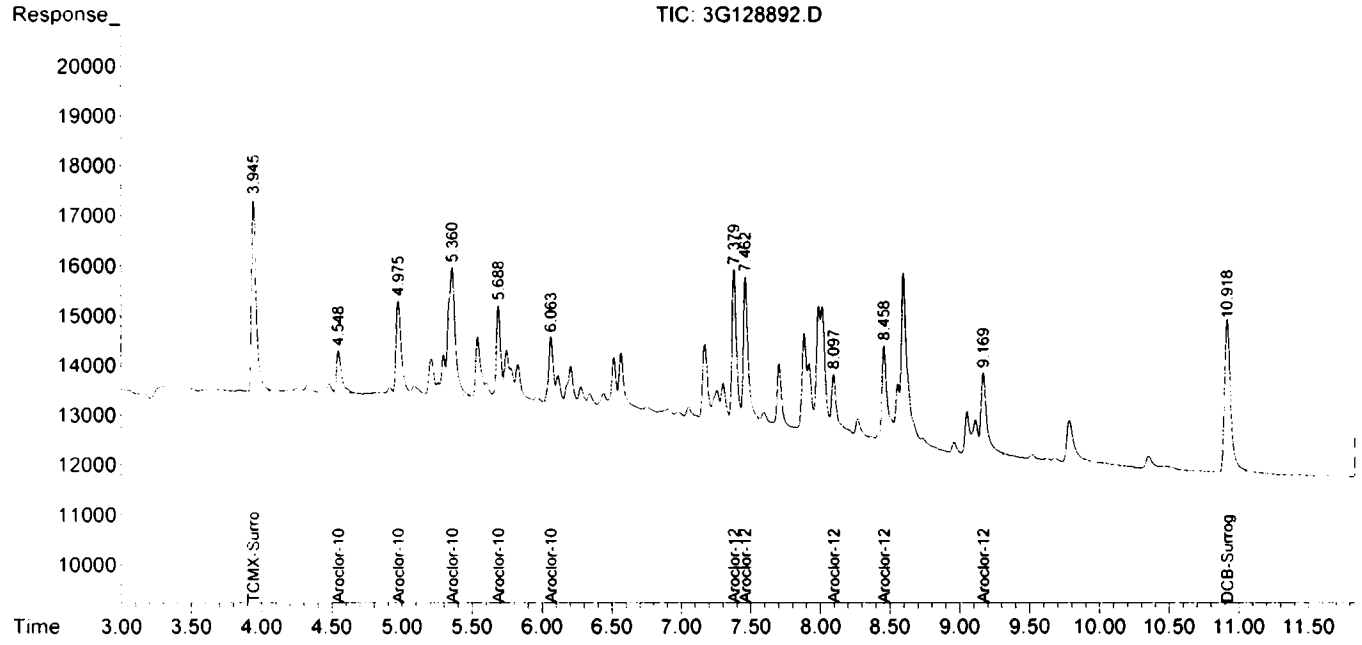
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128892.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 11:51
Operator : MS/MLC/JKR
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 10:00:44 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128893.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 12:06
Operator : MS/MLC/JKR
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:48:52 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.913 | 3.947 | 341932 | 327947 | 14.881 | 15.399 |
| 2)Aroclor-1016 {1} | 4.437 | 4.549 | 81302 | 82075 | 221.974 | 163.164 # |
| 3)Aroclor-1016 {2} | 4.809 | 4.976 | 165483 | 176374 | 203.859 | 174.536 |
| 4)Aroclor-1016 {3} | 5.282 | 5.361 | 321285 | 321375 | 181.068 | 161.653 |
| 5)Aroclor-1016 {4} | 5.532 | 5.689 | 101940 | 144629 | 181.255 | 172.749 |
| 6)Aroclor-1016 {5} | 5.647 | 6.064 | 216951 | 104667 | 190.527 | 170.111 |
| 7)Aroclor-1260 {1} | 7.170 | 7.380 | 209743 | 226323 | 193.529 | 179.625 |
| 8)Aroclor-1260 {2} | 7.422 | 7.463 | 262392 | 245877 | 158.137 | 174.639 |
| 9)Aroclor-1260 {3} | 7.624 | 8.097 | 134995 | 115548 | 159.392 | 175.794 |
| 10)Aroclor-1260 {4} | 8.215 | 8.459 | 156034 | 187949 | 157.837 | 162.317 |
| 11)Aroclor-1260 {5} | 8.947 | 9.170 | 241278 | 194024 | 157.082 | 185.091 |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128893.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 12:06
Operator : MS/MLC/JKR
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:48:52 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.280 | 10.919 | 325535 | 338346 | 17.055 | 18.172 |

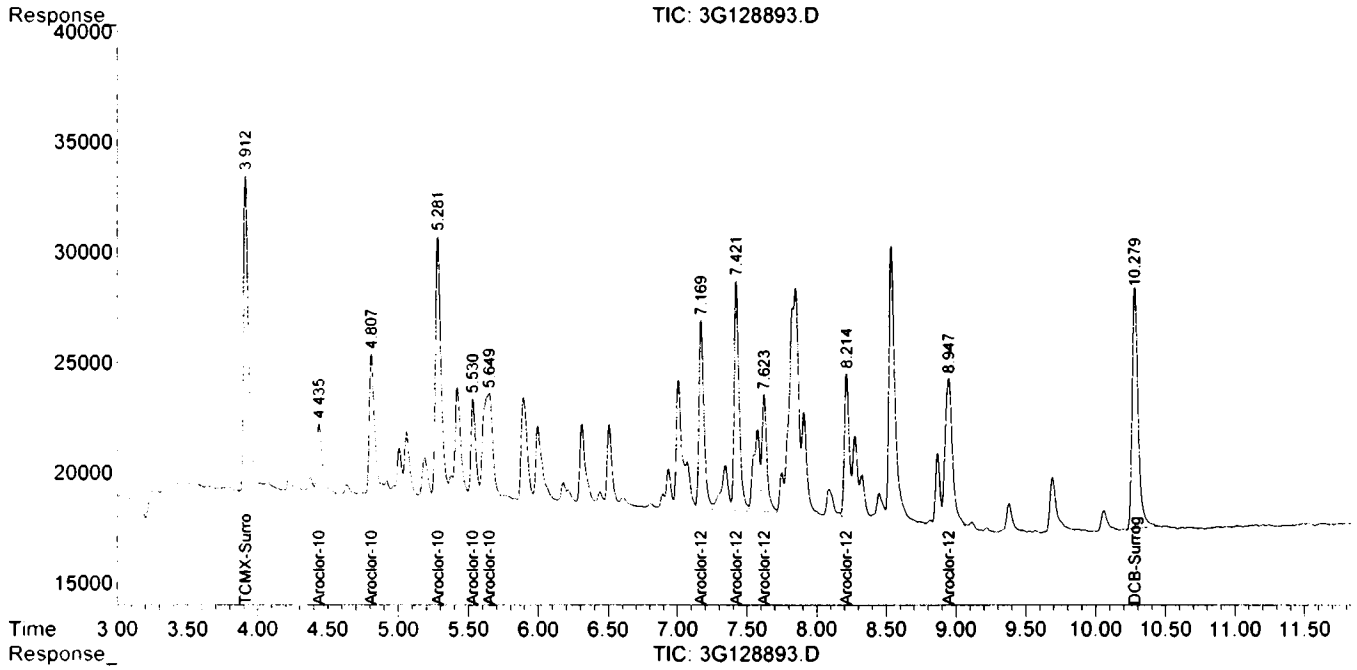
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

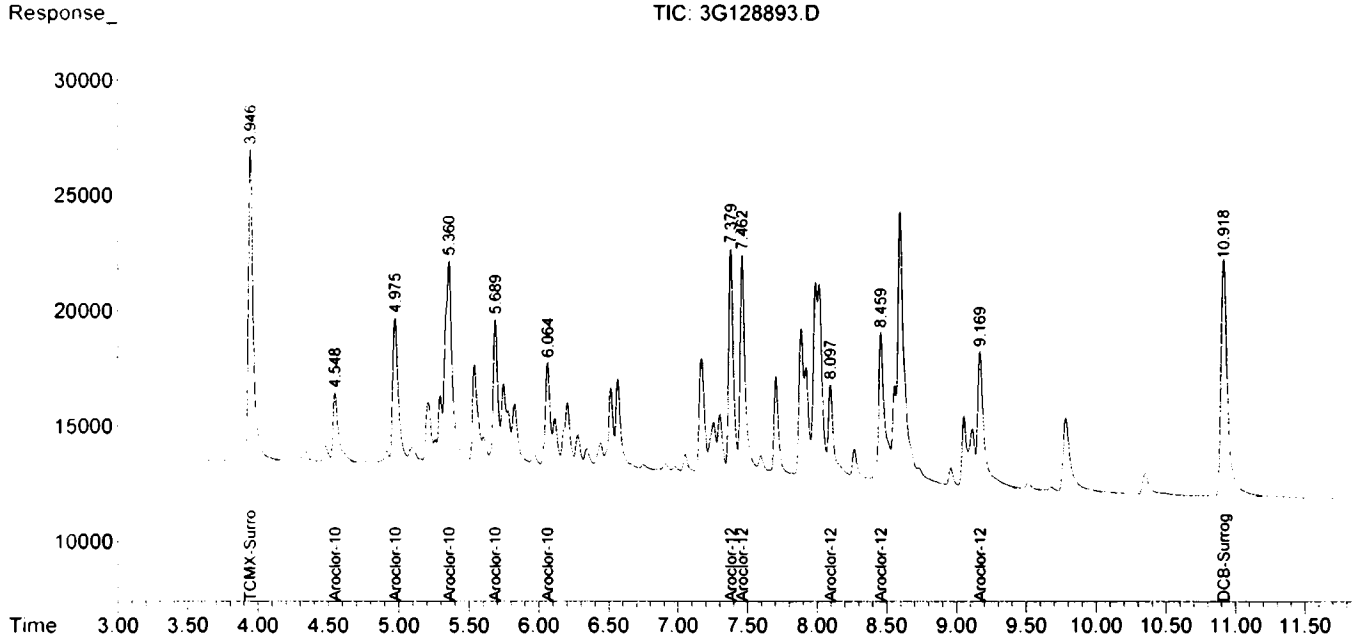
3

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128893.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 12:06
Operator : MS/MLC/JKR
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:48:52 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128894.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 12:21
Operator : MS/MLC/JKR
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:47:30 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:20 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.913 | 3.947 | 810271 | 800831 | 35.263 | 37.603 |
| 2)Aroclor-1016 {1} | 4.436 | 4.550 | 181668 | 183840 | 495.996 | 365.471 # |
| 3)Aroclor-1016 {2} | 4.809 | 4.976 | 373571 | 391585 | 460.205 | 387.504 |
| 4)Aroclor-1016 {3} | 5.282 | 5.361 | 731991 | 726100 | 412.532 | 365.231 |
| 5)Aroclor-1016 {4} | 5.531 | 5.689 | 243315 | 323352 | 432.628 | 386.222 |
| 6)Aroclor-1016 {5} | 5.648 | 6.064 | 510871 | 235933 | 448.648 | 383.451 |
| 7)Aroclor-1260 {1} | 7.170 | 7.380 | 455872 | 496583 | 420.630 | 394.120 |
| 8)Aroclor-1260 {2} | 7.421 | 7.463 | 574192 | 536392 | 346.049 | 380.983 |
| 9)Aroclor-1260 {3} | 7.623 | 8.097 | 305616 | 261633 | 360.848 | 398.046 |
| 10)Aroclor-1260 {4} | 8.215 | 8.460 | 333357 | 433350 | 337.210 | 374.250 |
| 11)Aroclor-1260 {5} | 8.947 | 9.171 | 580910 | 444288 | 378.197 | 423.833 |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128894.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 12:21
Operator : MS/MLC/JKR
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:47:30 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:20 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

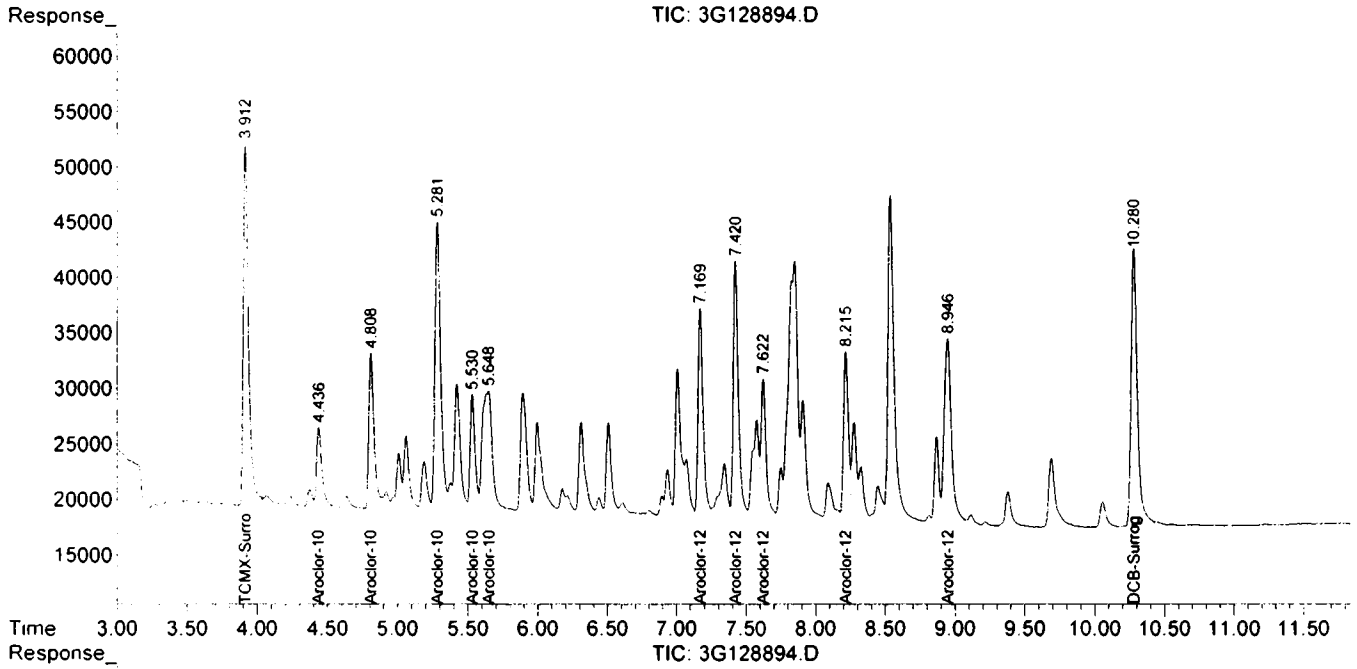
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.280 | 10.919 | 755470 | 765335 | 39.579 | 41.105 |

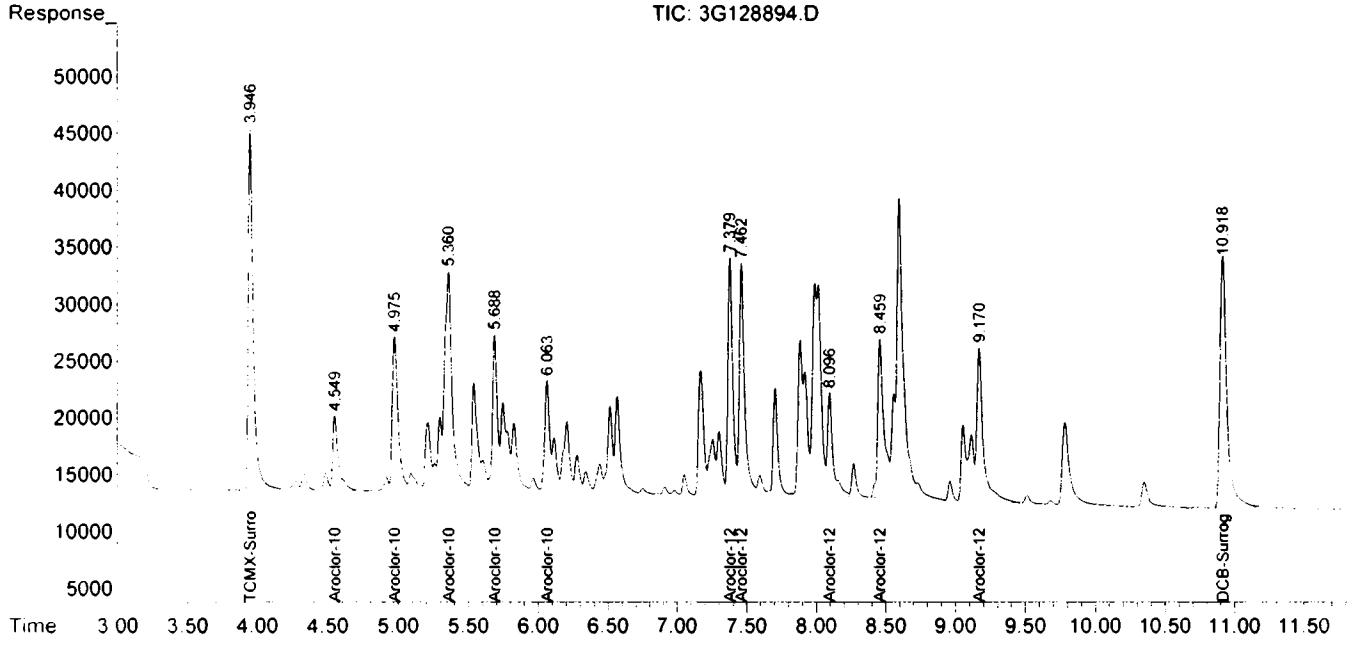
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128894.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 12:21
Operator : MS/MLC/JKR
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:47:30 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:20 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 12:36
Operator : MS/MLC/JKR
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:50:49 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.912 | 3.947 | 1595084 | 1549748 | 69.419m | 72.769 |
| 2)Aroclor-1016 {1} | 4.436 | 4.549 | 347362 | 328039 | 948.380 | 652.136 # |
| 3)Aroclor-1016 {2} | 4.809 | 4.976 | 662561 | 693928 | 816.213 | 686.697 |
| 4)Aroclor-1016 {3} | 5.282 | 5.360 | 1305544 | 1314148 | 735.772 | 661.021 |
| 5)Aroclor-1016 {4} | 5.532 | 5.689 | 449227 | 579355 | 798.751 | 691.999 |
| 6)Aroclor-1016 {5} | 5.646 | 6.065 | 932473 | 423361 | 818.900 | 688.069 |
| 7)Aroclor-1260 {1} | 7.170 | 7.381 | 833894 | 896144 | 769.429 | 711.238 |
| 8)Aroclor-1260 {2} | 7.422 | 7.463 | 1060540 | 985168 | 639.158 | 699.735 |
| 9)Aroclor-1260 {3} | 7.624 | 8.098 | 602746 | 494344 | 711.677 | 752.091 |
| 10)Aroclor-1260 {4} | 8.215 | 8.459 | 678187 | 796665 | 686.025 | 688.016m |
| 11)Aroclor-1260 {5} | 8.946 | 9.170 | 1116089 | 823233 | 726.622 | 785.332 |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 12:36
Operator : MS/MLC/JKR
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:50:49 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

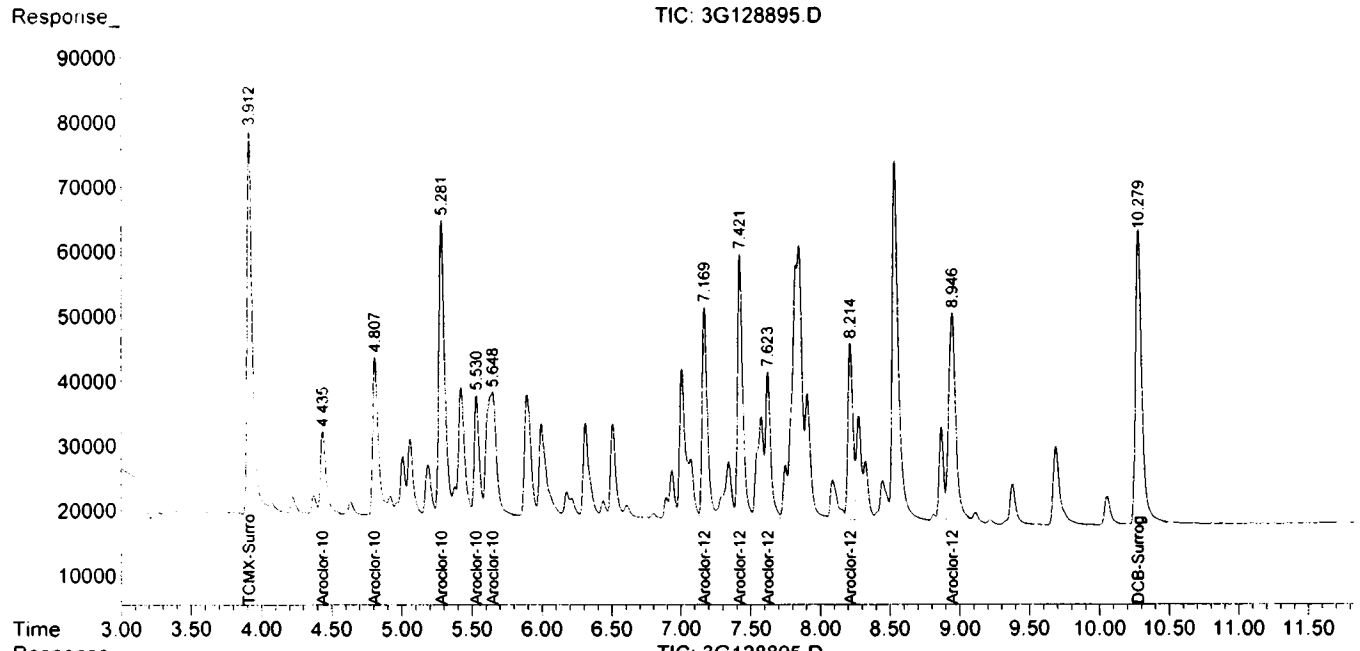
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.280 | 10.919 | 1422605 | 1415165 | 74.530 | 76.007 |

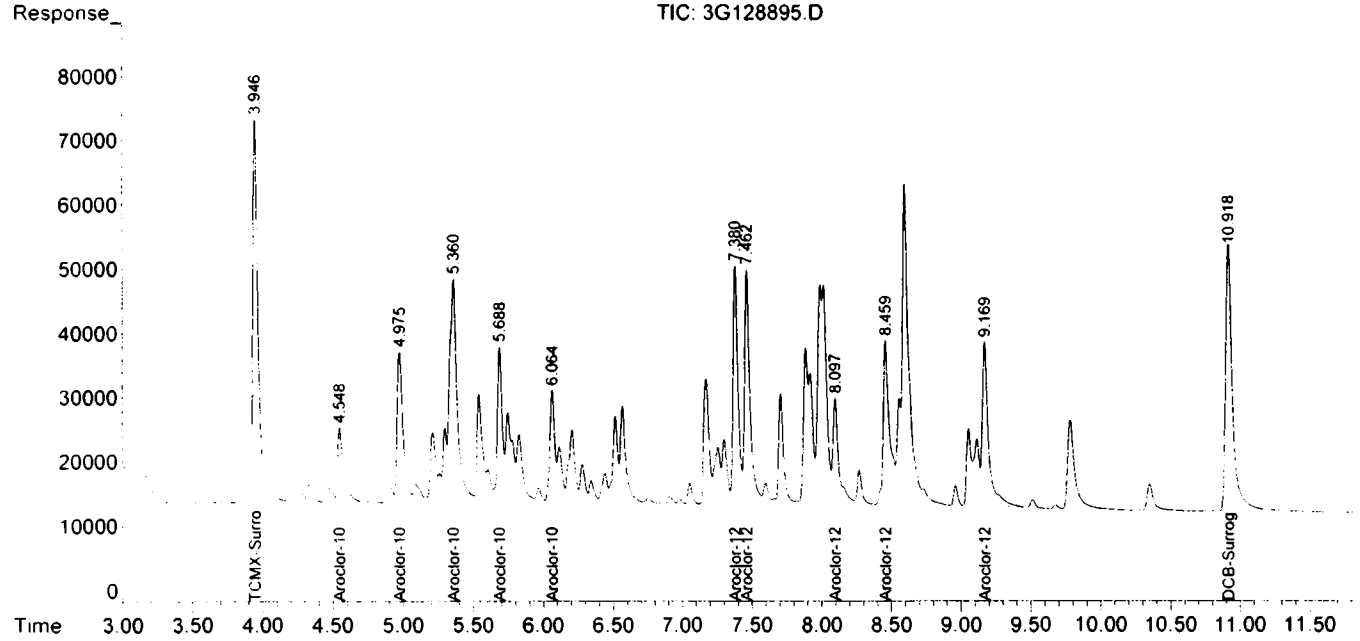
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128895.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 12:36
Operator : MS/MLC/JKR
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:50:49 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128896.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 12:51
Operator : MS/MLC/JKR
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:51:05 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.913 | 3.947 | 2971518 | 3067965 | 129.321 | 144.057 |
| 2)Aroclor-1016 {1} | 4.436 | 4.549 | 629415 | 608444 | 1718.450 | 1209.578 # |
| 3)Aroclor-1016 {2} | 4.808 | 4.976 | 1193778 | 1237289 | 1470.623 | 1224.395 |
| 4)Aroclor-1016 {3} | 5.281 | 5.360 | 2374888 | 2411586 | 1338.429 | 1213.037 |
| 5)Aroclor-1016 {4} | 5.531 | 5.689 | 840835 | 1046452 | 1495.054 | 1249.913 |
| 6)Aroclor-1016 {5} | 5.648 | 6.064 | 1728445 | 766021 | 1517.924 | 1244.978 |
| 7)Aroclor-1260 {1} | 7.170 | 7.380 | 1496316 | 1634368 | 1380.642 | 1297.140 |
| 8)Aroclor-1260 {2} | 7.420 | 7.462 | 1934284 | 1826664 | 1165.739 | 1297.425 |
| 9)Aroclor-1260 {3} | 7.623 | 8.097 | 1129298 | 970771 | 1333.389 | 1476.923 |
| 10)Aroclor-1260 {4} | 8.215 | 8.459 | 1256818 | 1559558 | 1271.344 | 1346.867 |
| 11)Aroclor-1260 {5} | 8.946 | 9.169 | 2201300 | 1644610 | 1433.140 | 1568.894 |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128896.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 12:51
Operator : MS/MLC/JKR
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:51:05 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

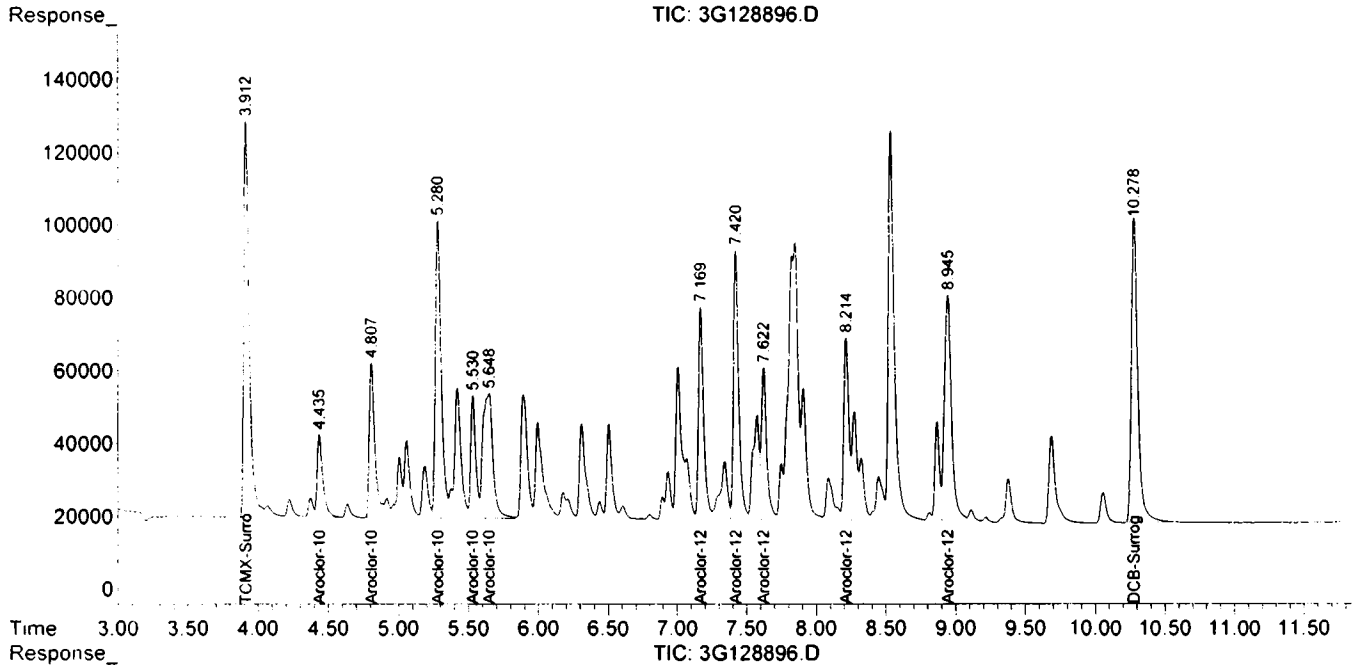
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.279 | 10.920 | 2664556 | 2721803 | 139.596 | 146.185 |

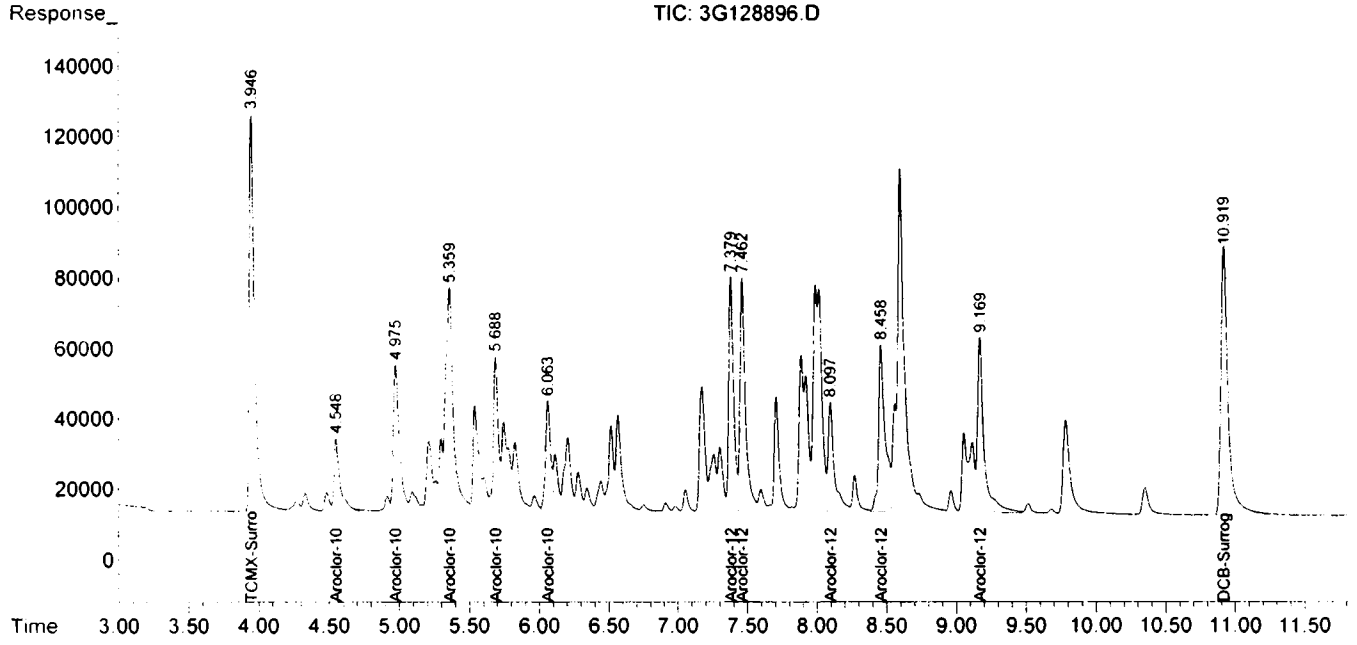
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128896.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 12:51
Operator : MS/MLC/JKR
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:51:05 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128897.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 13:06
Operator : MS/MLC/JKR
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:51:21 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.913 | 3.947 | 5604834 | 5953262 | 243.924 | 279.537 |
| 2)Aroclor-1016 {1} | 4.436 | 4.549 | 1180973 | 1123452 | 3224.334 | 2233.405 # |
| 3)Aroclor-1016 {2} | 4.809 | 4.976 | 2086629 | 2220143 | 2570.532 | 2197.007 |
| 4)Aroclor-1016 {3} | 5.281 | 5.360 | 4254888 | 4463130 | 2397.951 | 2244.971 |
| 5)Aroclor-1016 {4} | 5.531 | 5.689 | 1517281 | 1919692 | 2697.814 | 2292.937 |
| 6)Aroclor-1016 {5} | 5.649 | 6.064 | 3074439 | 1414640 | 2699.979 | 2299.148 |
| 7)Aroclor-1260 {1} | 7.169 | 7.380 | 2671071 | 3004796 | 2464.582 | 2384.800 |
| 8)Aroclor-1260 {2} | 7.421 | 7.463 | 3505980 | 3391706 | 2112.956 | 2409.027 |
| 9)Aroclor-1260 {3} | 7.623 | 8.097 | 2110430 | 1858062 | 2491.835 | 2826.840 |
| 10)Aroclor-1260 {4} | 8.215 | 8.460 | 2325223 | 2998543 | 2352.097 | 2589.604 |
| 11)Aroclor-1260 {5} | 8.944 | 9.170 | 4271336 | 3210872 | 2780.821 | 3063.047 |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128897.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 13:06
Operator : MS/MLC/JKR
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:51:21 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

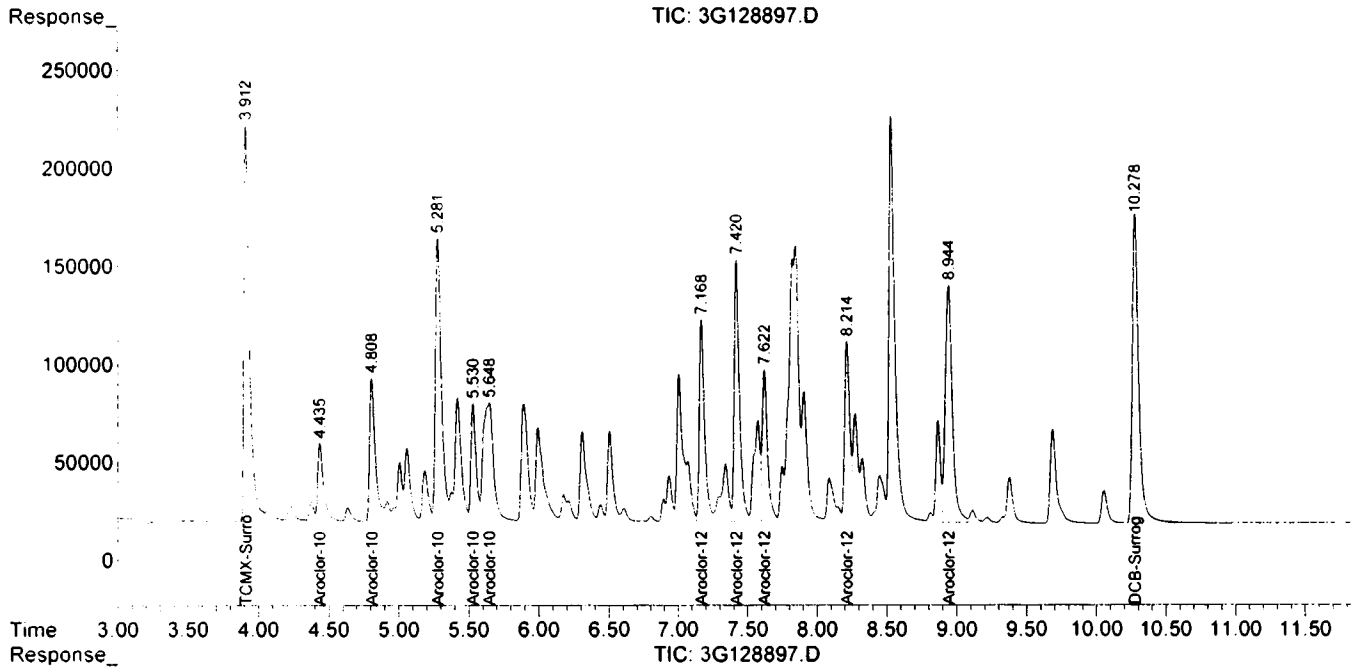
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.279 | 10.920 | 4994402 | 5280081 | 261.657 | 283.587 |

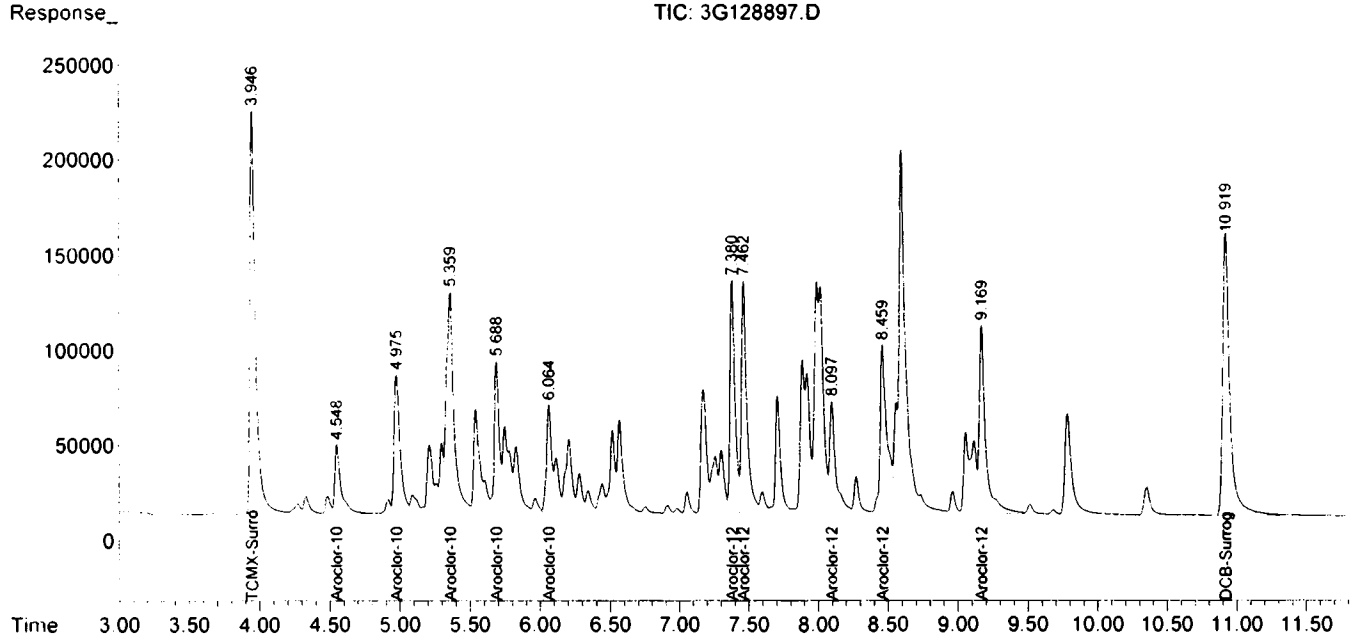
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128897.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 13:06
Operator : MS/MLC/JKR
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:51:21 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128888.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 10:52
Operator : MS/MLC/JKR
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:54:45 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:54:23 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.913 | 3.947 | 913659 | 873779 | 39.763 | 41.028 |
| 2)Aroclor-1016 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 3)Aroclor-1016 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 4)Aroclor-1016 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 5)Aroclor-1016 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 6)Aroclor-1016 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 7)Aroclor-1260 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8)Aroclor-1260 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 9)Aroclor-1260 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 10)Aroclor-1260 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 11)Aroclor-1260 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 4.437 | 4.550 | 219861 | 198697 | 469.444 | 344.300 # |
| 16)Aroclor-1232 {2} | 4.809 | 4.976 | 193001 | 204161 | 381.477 | 405.531 |
| 17)Aroclor-1232 {3} | 5.282 | 5.361 | 364689 | 359087 | 361.918 | 363.882 |
| 18)Aroclor-1232 {4} | 5.421 | 6.207 | 157016 | 121208 | 314.257 | 382.119 |
| 19)Aroclor-1232 {5} | 5.892 | 6.285 | 173467 | 83685 | 351.100 | 353.646 |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 8.207 | 8.556 | 112119 | 88563 | 346.241 | 399.829 |
| 41)Aroclor-1268 {2} | 8.533 | 8.597 | 121398 | 168332 | 326.168m | 405.278 |
| 42)Aroclor-1268 {3} | 9.113 | 9.516 | 1052924 | 934634 | 356.864 | 399.266 |

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128888.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 10:52
Operator : MS/MLC/JKR
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:54:45 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:54:23 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

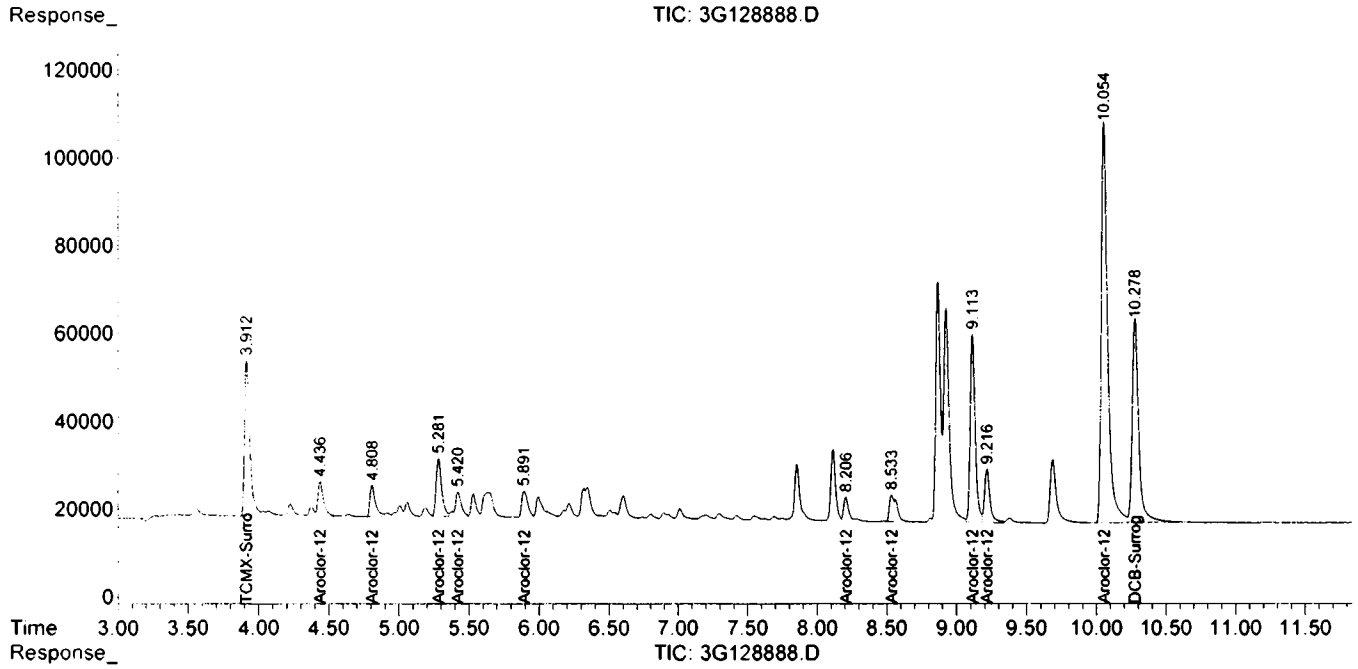
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 9.217 | 9.681 | 324593 | 268239 | 404.660 | 408.804 |
| 44)Aroclor-1268 {5} | 10.055 | 10.351 | 2949970 | 2845595 | 362.464 | 391.366 |
| 45)DCB-Surrogate | 10.278 | 10.918 | 1495495 | 1453708 | 78.349 | 78.077 |

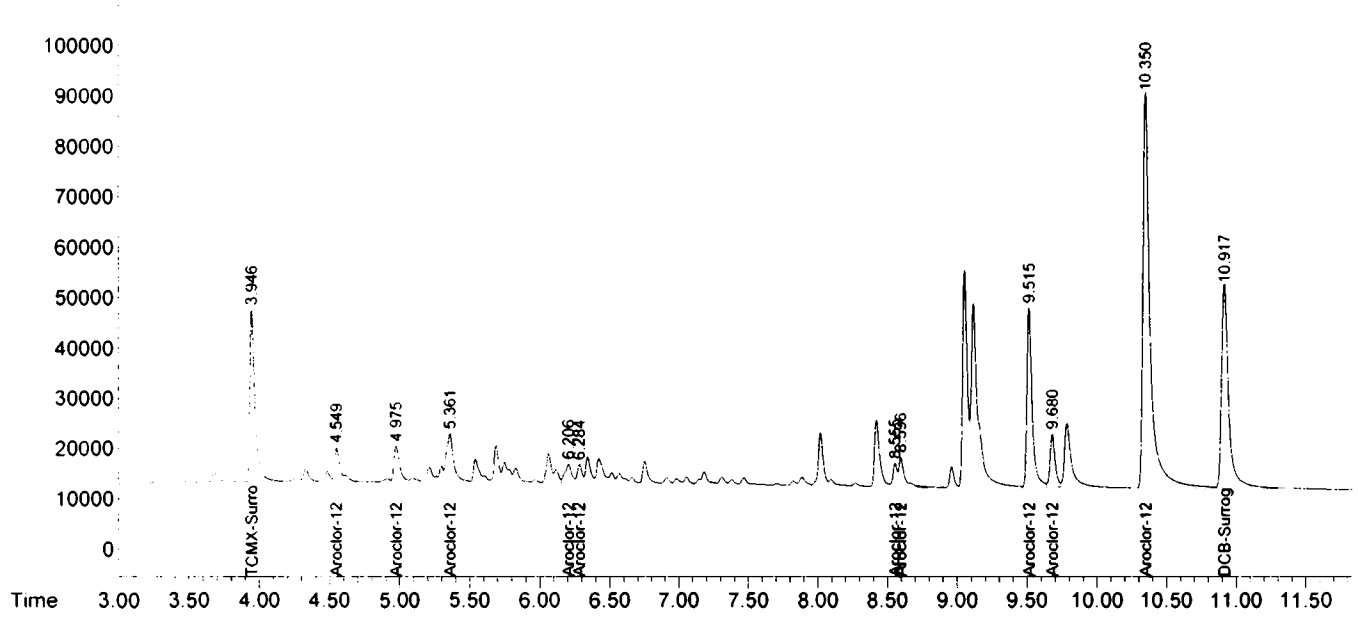
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128888.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 10:52
Operator : MS/MLC/JKR
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:54:45 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:54:23 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128889.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 11:07
Operator : MS/MLC/JKR
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:55:22 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:55:11 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.914 | 3.948 | 935547 | 879051 | 40.715 | 41.276 |
| 2)Aroclor-1016 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 3)Aroclor-1016 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 4)Aroclor-1016 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 5)Aroclor-1016 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 6)Aroclor-1016 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 7)Aroclor-1260 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8)Aroclor-1260 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 9)Aroclor-1260 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 10)Aroclor-1260 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 11)Aroclor-1260 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 4.437 | 4.550 | 181206 | 175360 | 475.230 | 350.225 # |
| 21)Aroclor-1242 {2} | 4.808 | 4.977 | 338548 | 342288 | 424.539 | 356.933 |
| 22)Aroclor-1242 {3} | 5.282 | 5.360 | 673899 | 645614 | 384.053 | 343.804 |
| 23)Aroclor-1242 {4} | 5.648 | 5.690 | 488535 | 285226 | 416.018 | 357.375 |
| 24)Aroclor-1242 {5} | 5.891 | 6.064 | 314059 | 239452 | 396.768 | 360.822 |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128889.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 11:07
Operator : MS/MLC/JKR
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:55:22 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:55:11 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

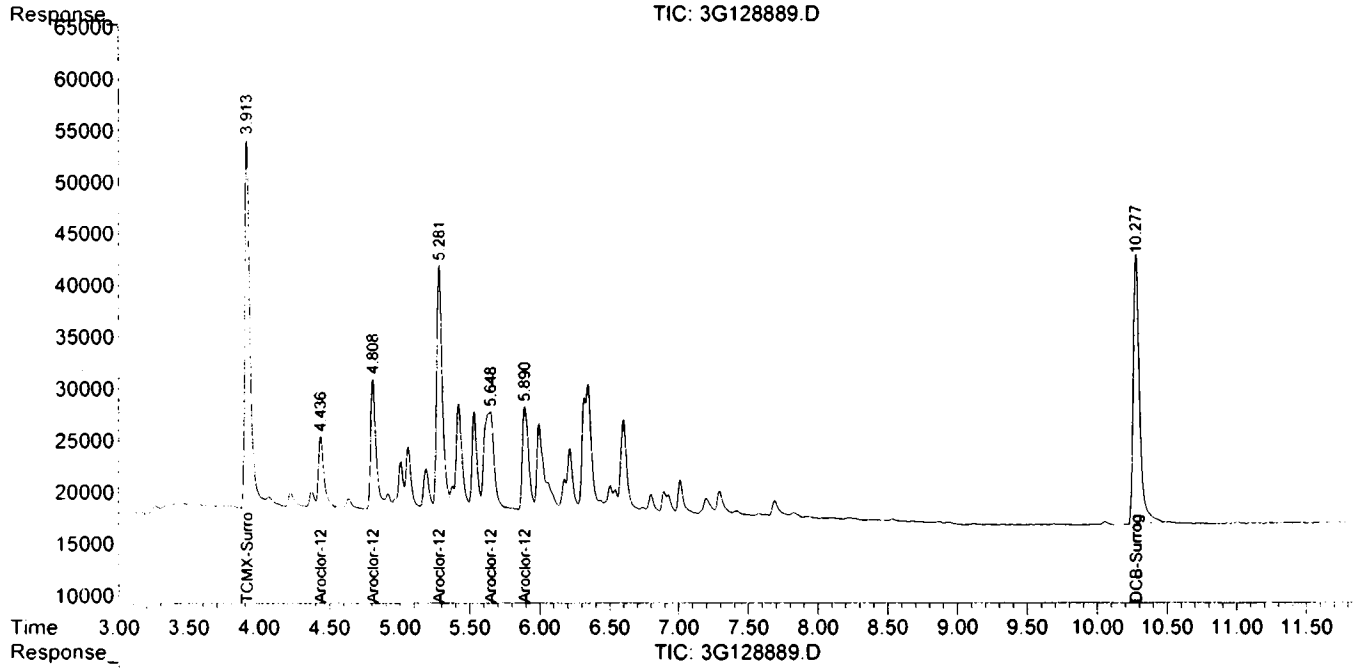
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.278 | 10.918 | 814288 | 825721 | 42.661 | 44.349 |

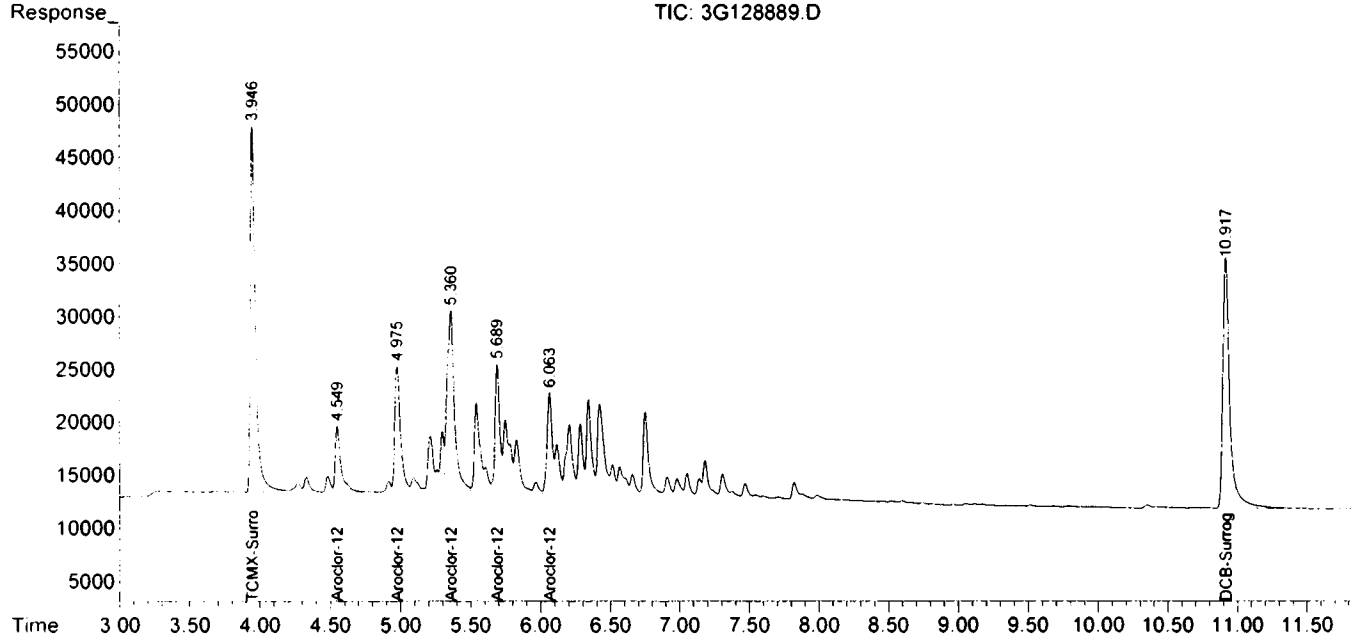
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128889.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 11:07
Operator : MS/MLC/JKR
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:55:22 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:55:11 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128890.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 11:21
Operator : MS/MLC/JKR
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:55:54 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:55:43 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.914 | 3.948 | 958110 | 889561 | 41.697 | 41.770 |
| 2)Aroclor-1016 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 3)Aroclor-1016 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 4)Aroclor-1016 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 5)Aroclor-1016 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 6)Aroclor-1016 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 7)Aroclor-1260 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8)Aroclor-1260 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 9)Aroclor-1260 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 10)Aroclor-1260 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 11)Aroclor-1260 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 4.808 | 4.975 | 155003 | 170679 | 437.049 | 400.669 |
| 26)Aroclor-1248 {2} | 5.281 | 5.360 | 422500 | 401455 | 379.662 | 345.076 |
| 27)Aroclor-1248 {3} | 5.631 | 5.690 | 714634 | 321116 | 401.211 | 366.129 |
| 28)Aroclor-1248 {4} | 5.892 | 6.207 | 459480 | 315923 | 405.947 | 359.889 |
| 29)Aroclor-1248 {5} | 6.602 | 6.343 | 472552 | 354983 | 399.700 | 343.439 |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128890.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 11:21
Operator : MS/MLC/JKR
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:55:54 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:55:43 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

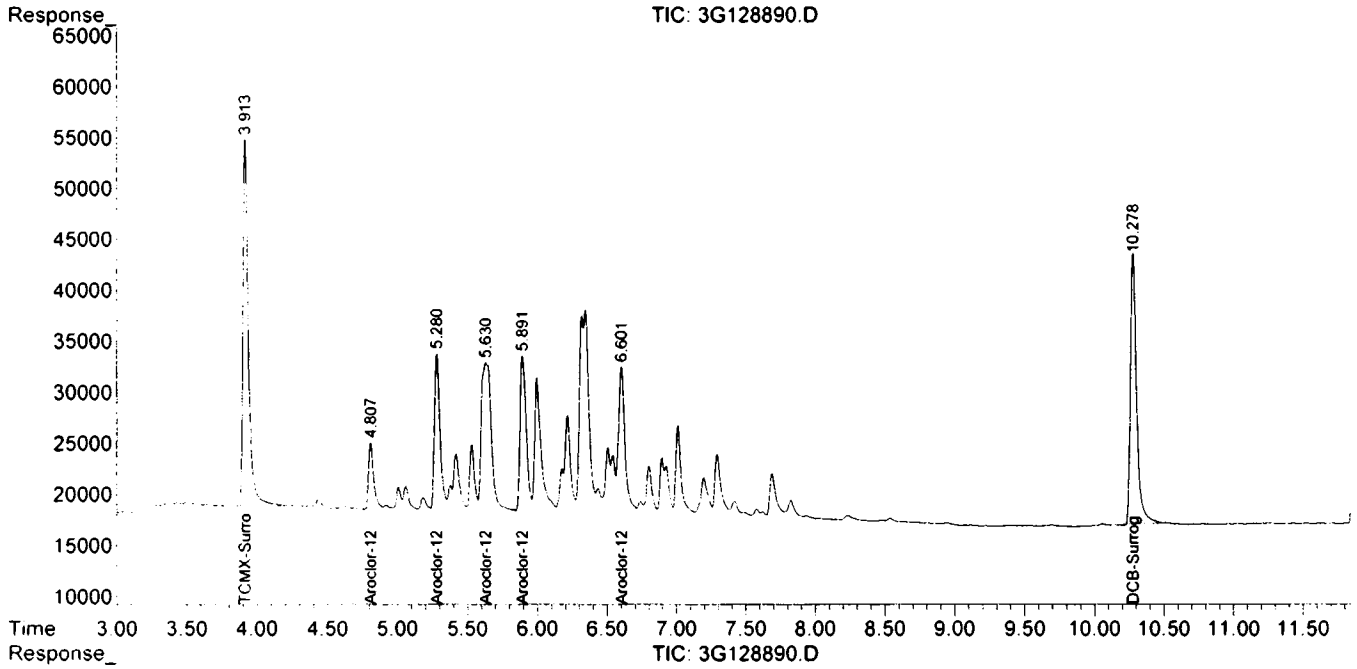
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.279 | 10.920 | 822896 | 830723 | 43.112 | 44.617 |

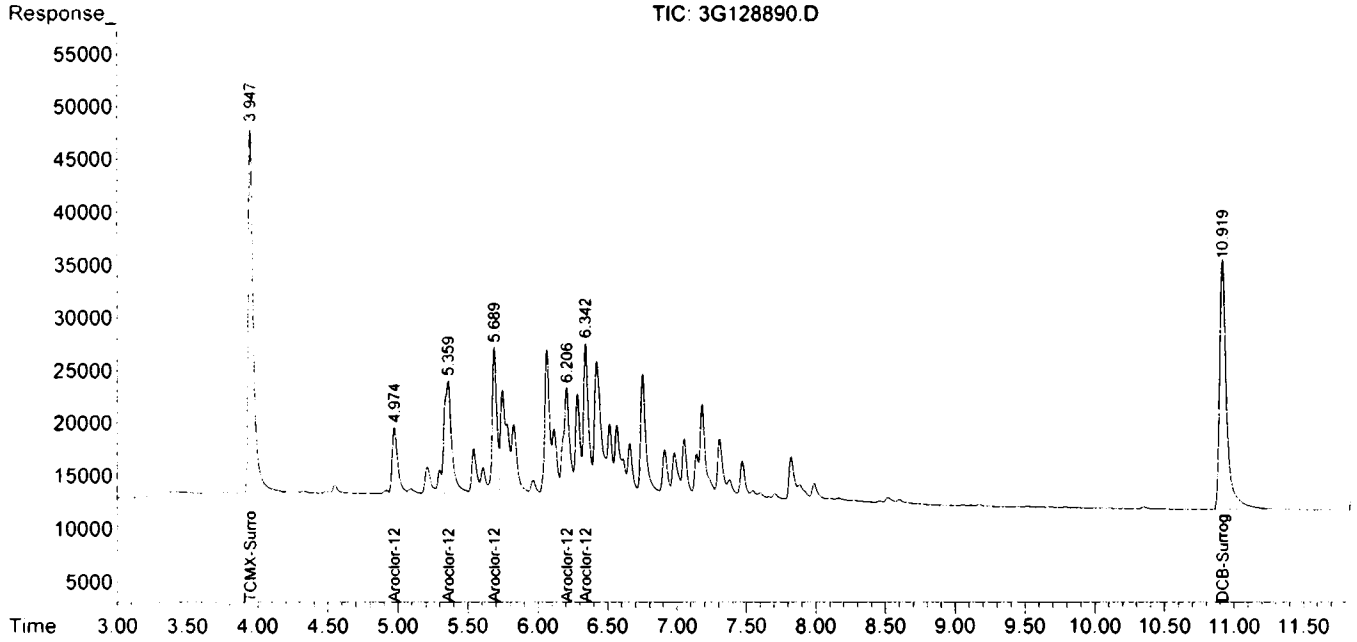
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128890.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 11:21
Operator : MS/MLC/JKR
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:55:54 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:55:43 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128887.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 10:37
Operator : MS/MLC/JKR
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:52:36 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.913 | 3.948 | 902037 | 874349 | 39.257 | 41.055 |
| 2)Aroclor-1016 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 3)Aroclor-1016 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 4)Aroclor-1016 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 5)Aroclor-1016 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 6)Aroclor-1016 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 7)Aroclor-1260 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8)Aroclor-1260 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 9)Aroclor-1260 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 10)Aroclor-1260 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 11)Aroclor-1260 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 12)Aroclor-1221 {1} | 4.224 | 4.331 | 138071 | 123602 | 450.990 | 362.849 |
| 13)Aroclor-1221 {2} | 4.374 | 4.483 | 78547 | 71401 | 420.080 | 355.687 |
| 14)Aroclor-1221 {3} | 4.437 | 4.550 | 319895 | 231173 | 394.944 | 352.046 |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 6.801 | 6.567 | 225139 | 520328 | 401.848 | 368.443 |
| 31)Aroclor-1254 {2} | 7.012 | 6.911 | 669326 | 168114 | 361.163m | 386.171 |
| 32)Aroclor-1254 {3} | 7.172 | 7.307 | 406115 | 397246 | 393.073 | 336.432 |
| 33)Aroclor-1254 {4} | 7.293 | 7.823 | 611058 | 183298 | 343.908 | 300.679 |
| 34)Aroclor-1254 {5} | 7.687 | 8.517 | 275233 | 191516 | 400.899 | 332.896 |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128887.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 10:37
Operator : MS/MLC/JKR
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:52:36 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

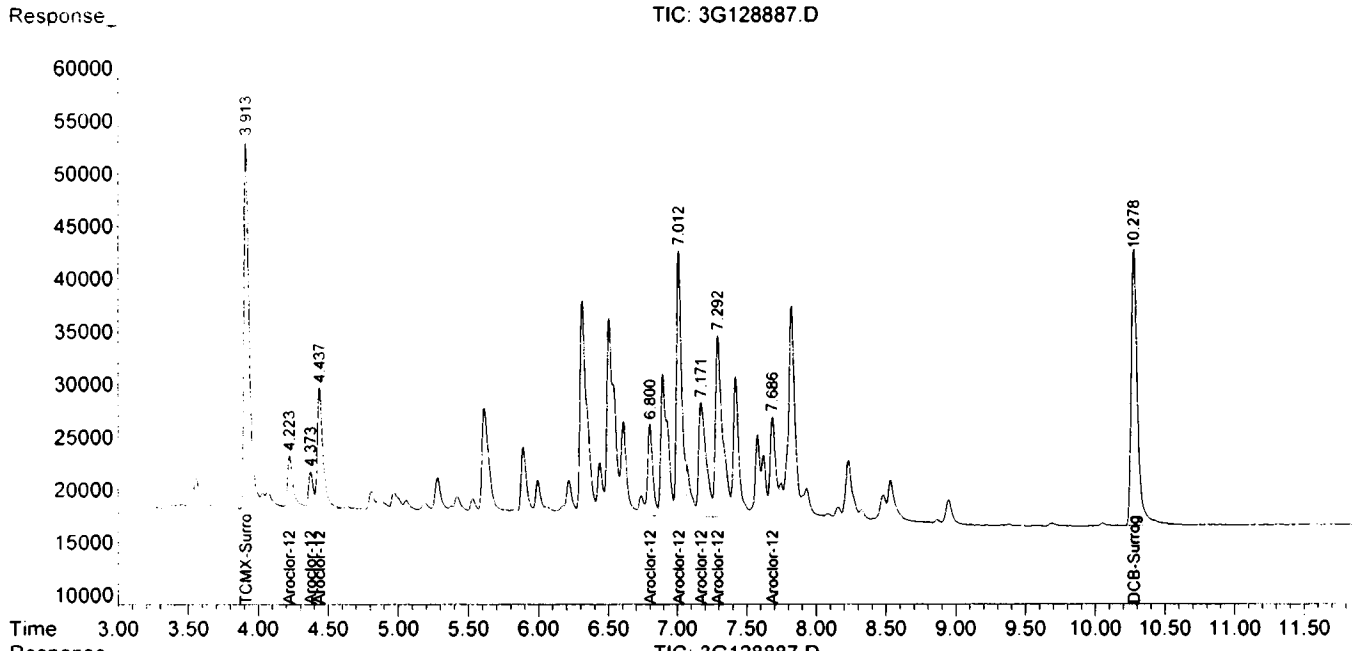
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.279 | 10.920 | 825781 | 819346 | 43.263 | 44.006 |

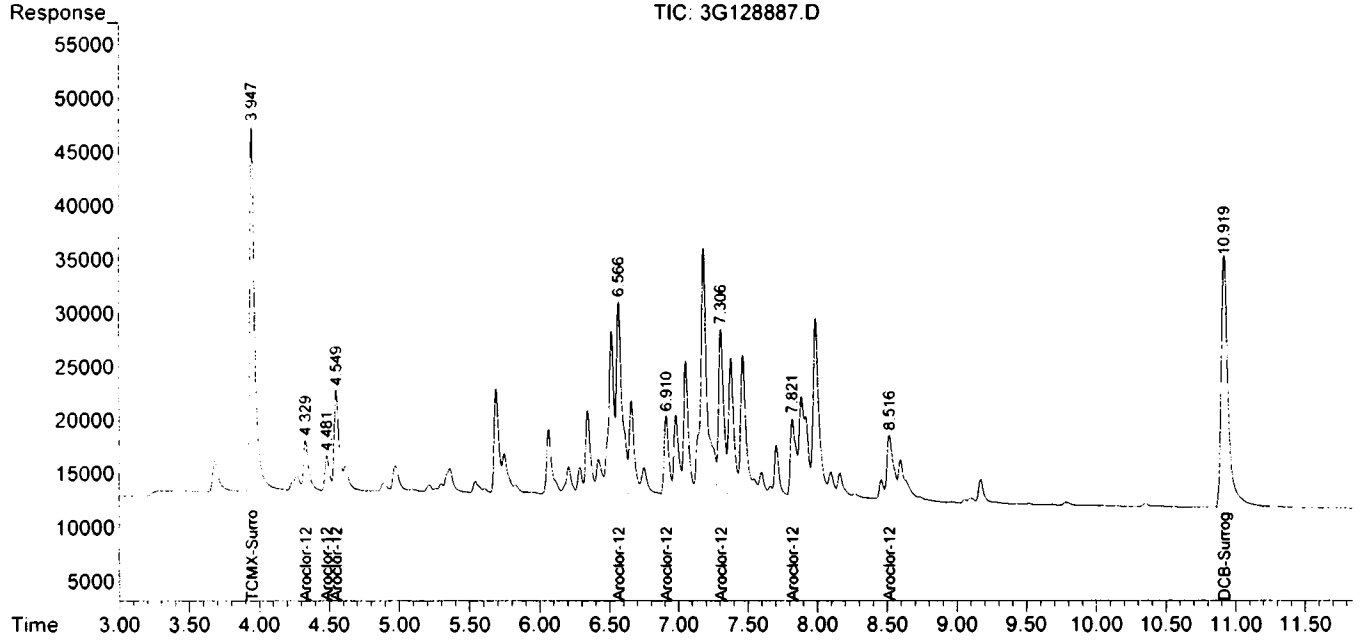
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128887.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 10:37
Operator : MS/MLC/JKR
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:52:36 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:47:39 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128891.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 11:36
Operator : MS/MLC/JKR
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:56:33 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:56:13 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.912 | 3.946 | 936313 | 878987 | 40.749 | 41.273 |
| 2)Aroclor-1016 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 3)Aroclor-1016 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 4)Aroclor-1016 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 5)Aroclor-1016 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 6)Aroclor-1016 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 7)Aroclor-1260 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8)Aroclor-1260 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 9)Aroclor-1260 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 10)Aroclor-1260 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 11)Aroclor-1260 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 7.851 | 7.885 | 755439 | 505322 | 292.135m | 400.456 # |
| 36)Aroclor-1262 {2} | 8.867 | 9.054 | 456312 | 384588 | 354.263 | 379.906 |
| 37)Aroclor-1262 {3} | 8.933 | 9.167 | 880483 | 536280 | 356.884 | 418.781 |
| 38)Aroclor-1262 {4} | 9.688 | 9.783 | 397904 | 504186 | 367.001 | 399.744 |
| 39)Aroclor-1262 {5} | 10.054 | 10.350 | 148411 | 150656 | 390.163 | 417.936 |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128891.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 11:36
Operator : MS/MLC/JKR
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:56:33 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:56:13 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

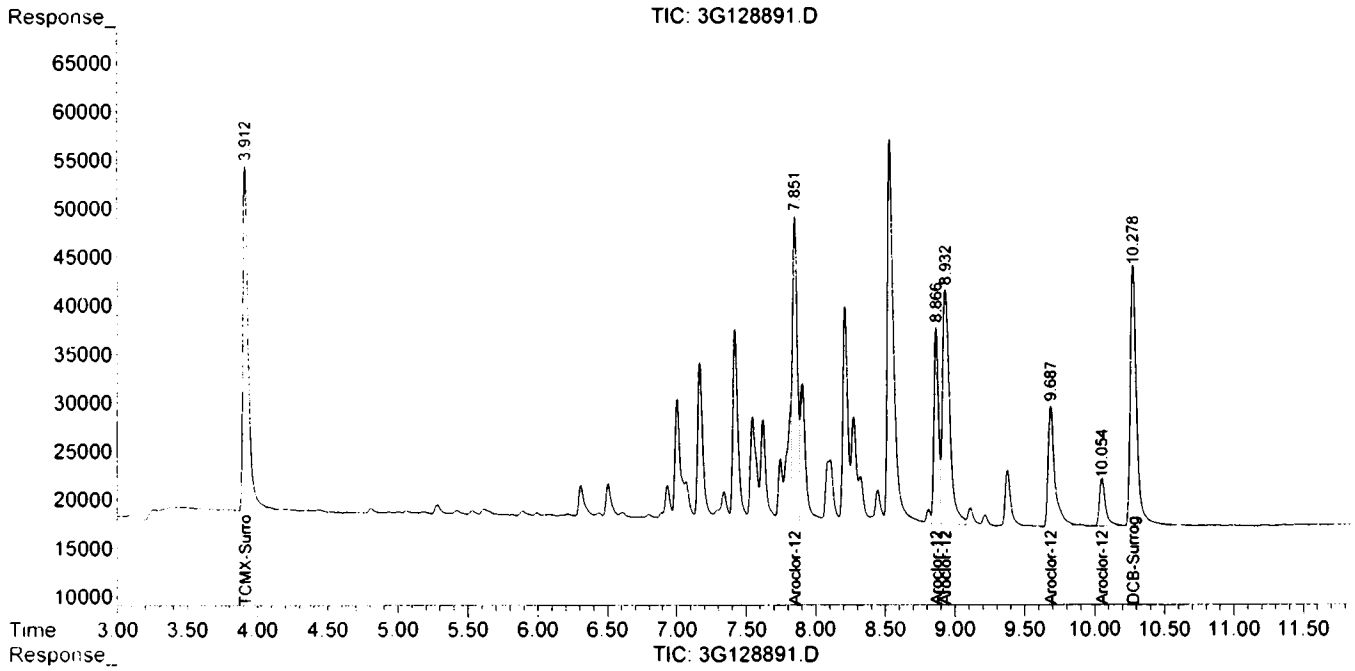
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.278 | 10.919 | 839624 | 833302 | 43.988 | 44.756 |

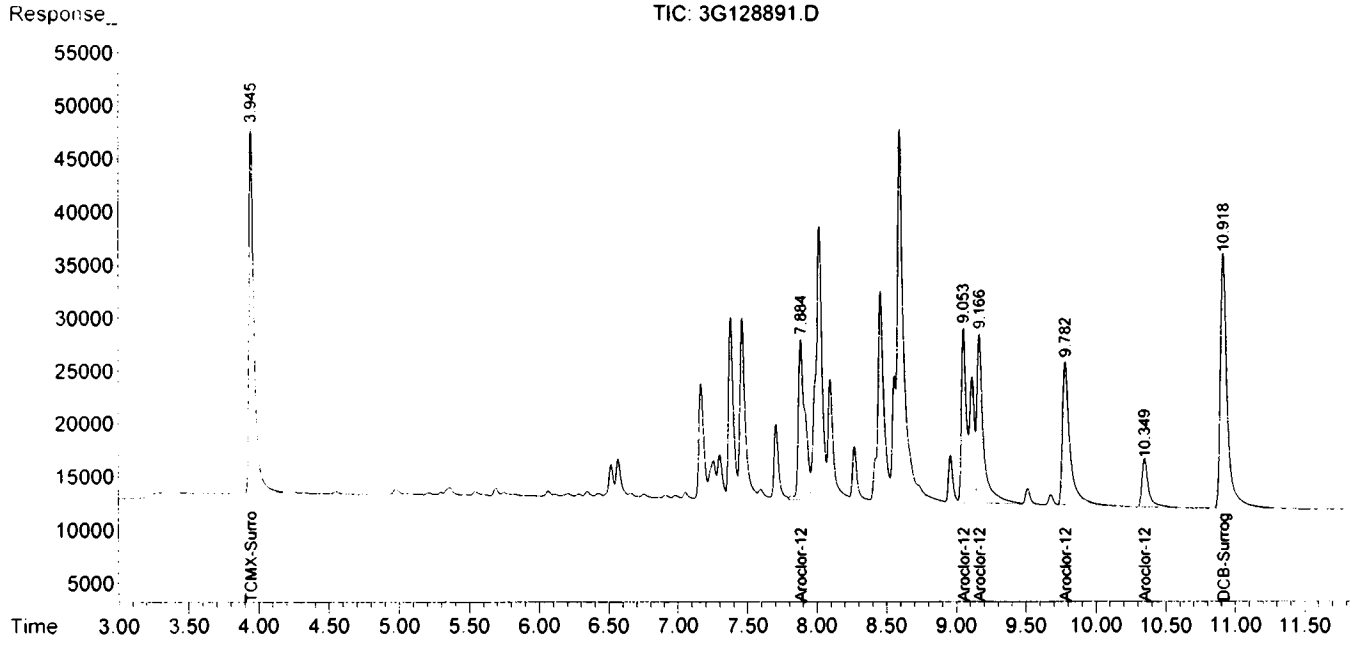
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\07-19-21\
Data File : 3G128891.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Jul 2021 11:36
Operator : MS/MLC/JKR
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 09:56:33 2021
Quant Method : G:\Gcdata\2021\GC_3\MethodQt\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 09:56:13 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



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# Form 6

Initial Calibration

Method: EPA 8082A

Instrument: GC_3

| Level # | Data File | Cal Identifier | Analysis Date/Time | Level # | Data File | Cal Identifier | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 3G130616.D | CAL 1660@50PPB | 09/22/21 12:31 | 2 | 3G130617.D | CAL 1660@200PPB | 09/22/21 12:46 |
| 3 | 3G130618.D | CAL 1660@500PPB | 09/22/21 13:01 | 4 | 3G130619.D | CAL 1660@1000PPB | 09/22/21 13:16 |
| 5 | 3G130620.D | CAL 1660@2000PPB | 09/22/21 13:31 | 6 | 3G130621.D | CAL 1660@4000PPB | 09/22/21 13:45 |
| 7 | 3G130612.D | CAL 3268@500PPB | 09/22/21 11:32 | 8 | 3G130613.D | CAL 1242@500PPB | 09/22/21 11:47 |
| 9 | 3G130614.D | CAL 1248@500PPB | 09/22/21 12:01 | 10 | 3G130611.D | CAL 2154@500PPB | 09/22/21 10:45 |
| 11 | 3G130615.D | CAL 1262@500PPB | 09/22/21 12:16 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | AvgRf | RT | Corr1 | Corr2 | %Rsd | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCMX-Surrogate | 1 | 0 | Avg | 2.3016 | 1.8451 | 1.9023 | 1.7681 | 1.6647 | 1.5123 | ---- | ---- | 1.83 | 3.90 | 0.997 | 1.00 | 15 | 5.00 | 20.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Aroclor-1016 | 1 | 1 | Avg | 0.0478 | 0.0432 | 0.0415 | 0.0379 | 0.0354 | 0.0316 | ---- | ---- | 0.0396 | 4.42 | 0.996 | 1.00 | 15 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 1 | 2 | Lin | 0.1058 | 0.0853 | 0.0819 | 0.0742 | 0.0661 | 0.0569 | ---- | ---- | 0.0784 | 4.79 | 0.992 | 1.00 | 22 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 1 | 3 | Avg | 0.1976 | 0.1672 | 0.1582 | 0.1438 | 0.1305 | 0.1152 | ---- | ---- | 0.152 | 5.26 | 0.995 | 1.00 | 19 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 1 | 4 | Avg | 0.0654 | 0.0535 | 0.0546 | 0.0506 | 0.0460 | 0.0413 | ---- | ---- | 0.0519 | 5.51 | 0.996 | 1.00 | 16 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 1 | 5 | Avg | 0.1457 | 0.1170 | 0.1142 | 0.1034 | 0.0935 | 0.0836 | ---- | ---- | 0.110 | 5.63 | 0.995 | 1.00 | 20 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 1 | 1 | Avg | 0.1304 | 0.1095 | 0.1025 | 0.0934 | 0.0855 | 0.0739 | ---- | ---- | 0.0993 | 7.15 | 0.993 | 1.00 | 20 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 1 | 2 | Avg | 0.1602 | 0.1424 | 0.1351 | 0.1236 | 0.1154 | 0.0998 | ---- | ---- | 0.129 | 7.40 | 0.993 | 1.00 | 16 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 1 | 3 | Avg | 0.0782 | 0.0707 | 0.0702 | 0.0662 | 0.0655 | 0.0591 | ---- | ---- | 0.0684 | 7.60 | 0.997 | 1.00 | 9.3 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 1 | 4 | Avg | 0.1041 | 0.0860 | 0.0852 | 0.0791 | 0.0738 | 0.0652 | ---- | ---- | 0.0823 | 8.19 | 0.995 | 1.00 | 16 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 1 | 5 | Avg | 0.1562 | 0.1317 | 0.1348 | 0.1327 | 0.1291 | 0.1179 | ---- | ---- | 0.134 | 8.92 | 0.998 | 1.00 | 9.4 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1221 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0249 | 4.20 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1221 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0149 | 4.35 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1221 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0631 | 4.42 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1232 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0466 | 4.43 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0431 | 4.80 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0824 | 5.27 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 1 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0359 | 5.41 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 1 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0383 | 5.88 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1242 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0379 | 4.42 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0699 | 4.79 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.144 | 5.26 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 1 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0971 | 5.63 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 1 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0649 | 5.87 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1248 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0329 | 4.79 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0897 | 5.26 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.151 | 5.61 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 1 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0943 | 5.87 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 1 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0995 | 6.58 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1254 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0415 | 6.78 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.135 | 6.99 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0779 | 7.15 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 1 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.121 | 7.27 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 1 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0491 | 7.66 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1262 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.175 | 7.83 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0979 | 8.84 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |

Avg Rsd Col 1: 15.79  Avg Rsd Col 2: 14.19

***Flags***

c - failed the initial calibration criteria(if applicable)

***Note:***

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

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# Form 6

Initial Calibration

Method: EPA 8082A

Instrument: GC_3

| Level # | Data File | Cal Identifier | Analysis Date/Time | Level # | Data File | Cal Identifier | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 3G130616.D | CAL 1660@50PPB | 09/22/21 12:31 | 2 | 3G130617.D | CAL 1660@200PPB | 09/22/21 12:46 |
| 3 | 3G130618.D | CAL 1660@500PPB | 09/22/21 13:01 | 4 | 3G130619.D | CAL 1660@1000PPB | 09/22/21 13:16 |
| 5 | 3G130620.D | CAL 1660@2000PPB | 09/22/21 13:31 | 6 | 3G130621.D | CAL 1660@4000PPB | 09/22/21 13:45 |
| 7 | 3G130612.D | CAL 3268@500PPB | 09/22/21 11:32 | 8 | 3G130613.D | CAL 1242@500PPB | 09/22/21 11:47 |
| 9 | 3G130614.D | CAL 1248@500PPB | 09/22/21 12:01 | 10 | 3G130611.D | CAL 2154@500PPB | 09/22/21 10:45 |
| 11 | 3G130615.D | CAL 1262@500PPB | 09/22/21 12:16 | | | | |

| Compound | Col | Mr | Fit | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | AvgRf | RT | Corr1 | Corr2 | %Rsd | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1262 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.179 | 8.91 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 1 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0865 | 9.65 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 1 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0292 | 10.02 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1268 | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0249 | 8.19 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0274 | 8.52 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.225 | 9.10 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 1 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0626 | 9.20 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 1 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.609 | 10.03 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| DCB-Surrogate | 1 | 0 | Avg | 1.9326 | 1.6966 | 1.6994 | 1.6095 | 1.4832 | 1.3309 | ---- | ---- | 1.63 | 10.24 | 0.996 | 1.00 | 13 | 5.00 | 20.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| TCMX-Surrogate | 2 | 0 | Avg | 2.3129 | 2.1173 | 2.0105 | 2.0406 | 1.9909 | 1.8640 | ---- | ---- | 2.06 | 3.93 | 0.999 | 1.00 | 7.3 | 5.00 | 20.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Aroclor-1016 | 2 | 1 | Avg | 0.0422 | 0.0435 | 0.0421 | 0.0401 | 0.0390 | 0.0348 | ---- | ---- | 0.0403 | 4.53 | 0.996 | 1.00 | 7.7 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 2 | 2 | Avg | 0.1088 | 0.0945 | 0.0898 | 0.0856 | 0.0776 | 0.0674 | ---- | ---- | 0.0873 | 4.96 | 0.993 | 1.00 | 16 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 2 | 3 | Avg | 0.2236 | 0.1844 | 0.1738 | 0.1635 | 0.1522 | 0.1364 | ---- | ---- | 0.172 | 5.34 | 0.996 | 1.00 | 18 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 2 | 4 | Avg | 0.0979 | 0.0840 | 0.0768 | 0.0715 | 0.0665 | 0.0591 | ---- | ---- | 0.0760 | 5.67 | 0.996 | 1.00 | 18 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1016 | 2 | 5 | Avg | 0.0690 | 0.0603 | 0.0566 | 0.0527 | 0.0486 | 0.0435 | ---- | ---- | 0.0551 | 6.05 | 0.996 | 1.00 | 16 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 2 | 1 | Lin | 0.1672 | 0.1346 | 0.1252 | 0.1155 | 0.1036 | 0.0915 | ---- | ---- | 0.123 | 7.36 | 0.994 | 1.00 | 22 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 2 | 2 | Avg | 0.1703 | 0.1420 | 0.1337 | 0.1263 | 0.1113 | 0.1041 | ---- | ---- | 0.131 | 7.44 | 0.997 | 0.999 | 18 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 2 | 3 | Avg | 0.0768 | 0.0719 | 0.0599 | 0.0641 | 0.0610 | 0.0573 | ---- | ---- | 0.0652 | 8.08 | 0.999 | 1.00 | 12 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 2 | 4 | Avg | 0.1408 | 0.1189 | 0.1140 | 0.1066 | 0.1011 | 0.0948 | ---- | ---- | 0.113 | 8.44 | 0.999 | 1.00 | 14 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1260 | 2 | 5 | Avg | 0.1112 | 0.0985 | 0.1009 | 0.0964 | 0.0932 | 0.0878 | ---- | ---- | 0.0980 | 9.15 | 0.999 | 1.00 | 8.1 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Aroclor-1221 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0288 | 4.31 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1221 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0166 | 4.46 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1221 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0579 | 4.53 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1232 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0343 | 4.53 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0395 | 4.96 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0734 | 5.34 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 2 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0243 | 6.19 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1232 | 2 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0177 | 6.27 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1242 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0389 | 4.53 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0733 | 4.96 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.146 | 5.34 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 2 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0662 | 5.67 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1242 | 2 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0546 | 6.05 | -1 | -1 | Lvl=8 | 500.0 | | | | | | | |
| Aroclor-1248 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0371 | 4.96 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0965 | 5.34 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0764 | 5.67 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |

Avg Rsd Col 1: 15.79  Avg Rsd Col 2: 14.19

***Flags***

e - failed the initial calibration criteria(if applicable)

***Note:***

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF Linear or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

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# Form 6

## Initial Calibration

Method: EPA 8082A

Instrument: GC_3

| Level # | Data File | Cal Identifier | Analysis Date/Time | Level # | Data File | Cal Identifier | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 3G130616.D | CAL 1660@50PPB | 09/22/21 12:31 | 2 | 3G130617.D | CAL 1660@200PPB | 09/22/21 12:46 |
| 3 | 3G130618.D | CAL 1660@500PPB | 09/22/21 13:01 | 4 | 3G130619.D | CAL 1660@1000PPB | 09/22/21 13:16 |
| 5 | 3G130620.D | CAL 1660@2000PPB | 09/22/21 13:31 | 6 | 3G130621.D | CAL 1660@4000PPB | 09/22/21 13:45 |
| 7 | 3G130612.D | CAL 3268@500PPB | 09/22/21 11:32 | 8 | 3G130613.D | CAL 1242@500PPB | 09/22/21 11:47 |
| 9 | 3G130614.D | CAL 1248@500PPB | 09/22/21 12:01 | 10 | 3G130611.D | CAL 2154@500PPB | 09/22/21 10:45 |
| 11 | 3G130615.D | CAL 1262@500PPB | 09/22/21 12:16 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | AvgRf | RT | Corr1 | Corr2 | %Rsd | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1248 | 2 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0746 | 6.19 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1248 | 2 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0864 | 6.32 | -1 | -1 | Lvl=9 | 500.0 | | | | | | | |
| Aroclor-1254 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.128 | 6.55 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0407 | 6.89 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.106 | 7.29 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 2 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0521 | 7.80 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1254 | 2 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0497 | 8.50 | -1 | -1 | Lvl=10 | 500.0 | | | | | | | |
| Aroclor-1262 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.117 | 7.87 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0981 | 9.03 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.116 | 9.14 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 2 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.116 | 9.76 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1262 | 2 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0335 | 10.32 | -1 | -1 | Lvl=11 | 500.0 | | | | | | | |
| Aroclor-1268 | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0198 | 8.54 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0335 | 8.58 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.211 | 9.50 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 2 | 4 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0577 | 9.66 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| Aroclor-1268 | 2 | 5 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.641 | 10.33 | -1 | -1 | Lvl=7 | 500.0 | | | | | | | |
| DCB-Surrogate | 2 | 0 | Avg | 2.4250 | 1.9955 | 1.9170 | 1.9209 | 1.7987 | 1.6535 | ---- | ---- | 1.95 | 10.88 | 0.998 | 1.00 | 13 | 5.00 | 20.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |

Avg Rsd Col 1: 15.79 Avg Rsd Col 2: 14.19

***Flags***

c - failed the initial calibration criteria(if applicable)

***Note:***

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 12:31
Operator : MS/MLC/MC
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 13:59:35 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.896 | 3.928 | 115084 | 115648 | 7.166 | 7.255 |
| 2)Aroclor-1016 {1} | 4.415 | 4.530 | 23907 | 21109 | 65.267m | 59.773m |
| 3)Aroclor-1016 {2} | 4.787 | 4.958 | 52913 | 54421 | 74.722m | 73.318 |
| 4)Aroclor-1016 {3} | 5.263 | 5.342 | 98839 | 111829 | 70.702 | 79.379m |
| 5)Aroclor-1016 {4} | 5.511 | 5.671 | 32708 | 48993 | 70.214 | 78.481m |
| 6)Aroclor-1016 {5} | 5.623 | 6.045 | 72895 | 34499 | 74.522 | 75.542m |
| 7)Aroclor-1260 {1} | 7.147 | 7.361 | 65238 | 83621 | 73.988 | N.D. # |
| 8)Aroclor-1260 {2} | 7.399 | 7.443 | 80139 | 85178 | 71.651 | 80.192 |
| 9)Aroclor-1260 {3} | 7.600 | 8.077 | 39109 | 38420 | 64.457 | 72.780 |
| 10)Aroclor-1260 {4} | 8.188 | 8.438 | 52058 | 70441 | 75.485m | 81.842 |
| 11)Aroclor-1260 {5} | 8.917 | 9.145 | 78108 | 55629 | 68.115 | 63.457 |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 12:31
Operator : MS/MLC/MC
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 13:59:35 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.244 | 10.884 | 96630 | 121254 | 6.499 | 7.930 |

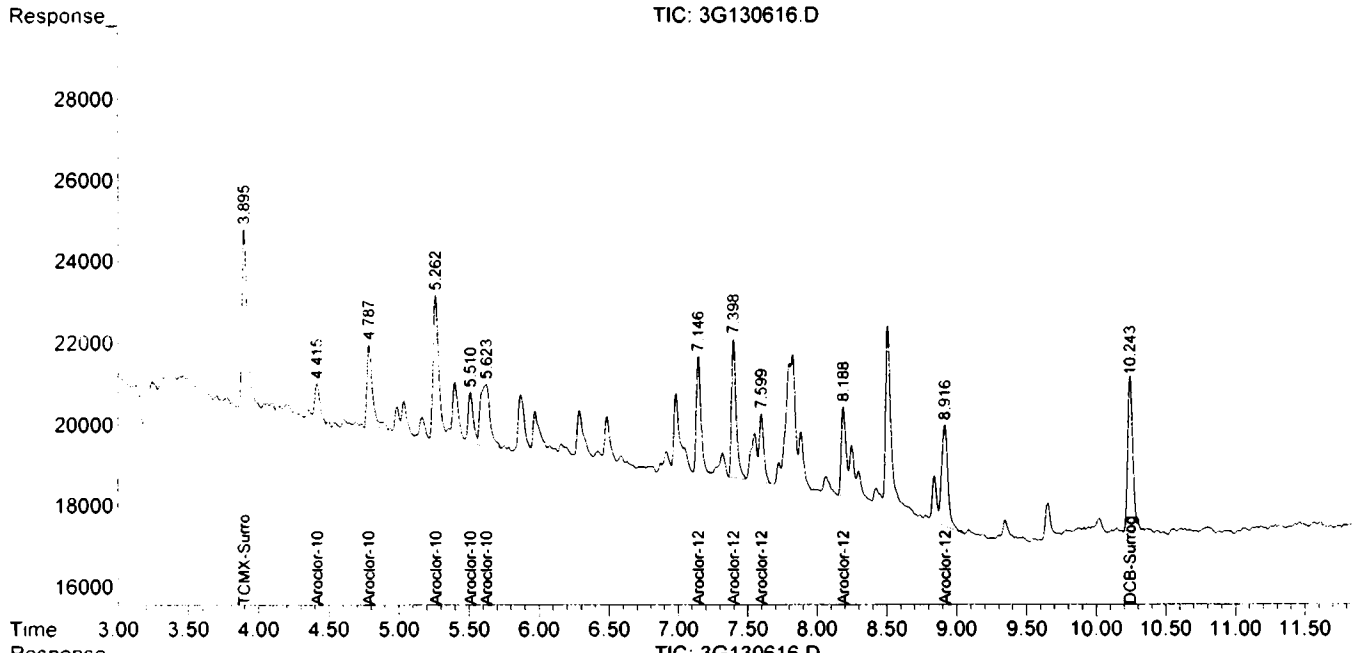
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

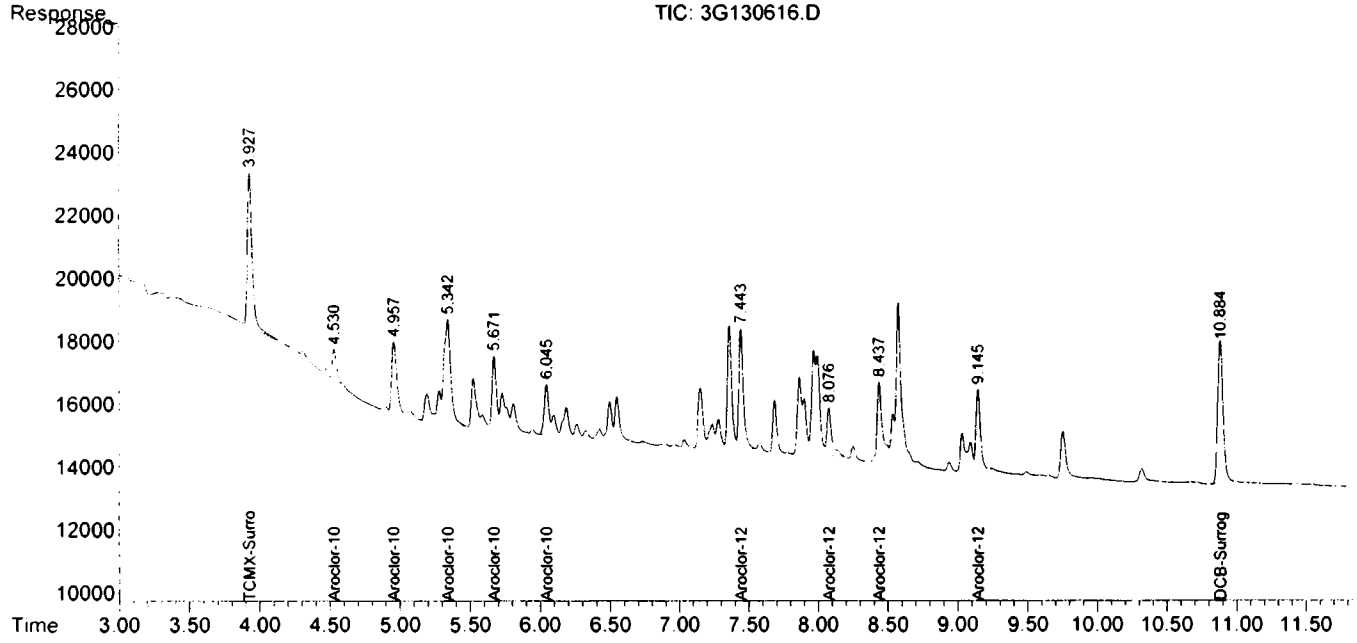
3

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 12:31
Operator : MS/MLC/MC
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 13:59:35 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130617.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 12:46
Operator : MS/MLC/MC
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 13:53:34 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.896 | 3.929 | 369033 | 423472 | 22.980 | 26.567 |
| 2)Aroclor-1016 {1} | 4.417 | 4.531 | 86433 | 86991 | 235.970 | 246.324 |
| 3)Aroclor-1016 {2} | 4.788 | 4.958 | 170685 | 189105 | 241.038 | 254.767 |
| 4)Aroclor-1016 {3} | 5.262 | 5.343 | 334503 | 368941 | 239.277 | 261.883 |
| 5)Aroclor-1016 {4} | 5.511 | 5.672 | 107044 | 168041 | 229.791 | 269.184 |
| 6)Aroclor-1016 {5} | 5.627 | 6.046 | 234035 | 120669 | 239.260 | 264.232 |
| 7)Aroclor-1260 {1} | 7.147 | 7.361 | 219111 | 269265 | 248.498 | 226.919 |
| 8)Aroclor-1260 {2} | 7.398 | 7.444 | 284933 | 284161 | 254.753 | 267.524 |
| 9)Aroclor-1260 {3} | 7.600 | 8.078 | 141425 | 143835 | 233.089 | 272.472 |
| 10)Aroclor-1260 {4} | 8.190 | 8.438 | 172165 | 237876 | 249.643 | 276.377m |
| 11)Aroclor-1260 {5} | 8.917 | 9.145 | 263501 | 197022 | 229.791 | 224.748m |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130617.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 12:46
Operator : MS/MLC/MC
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 13:53:34 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

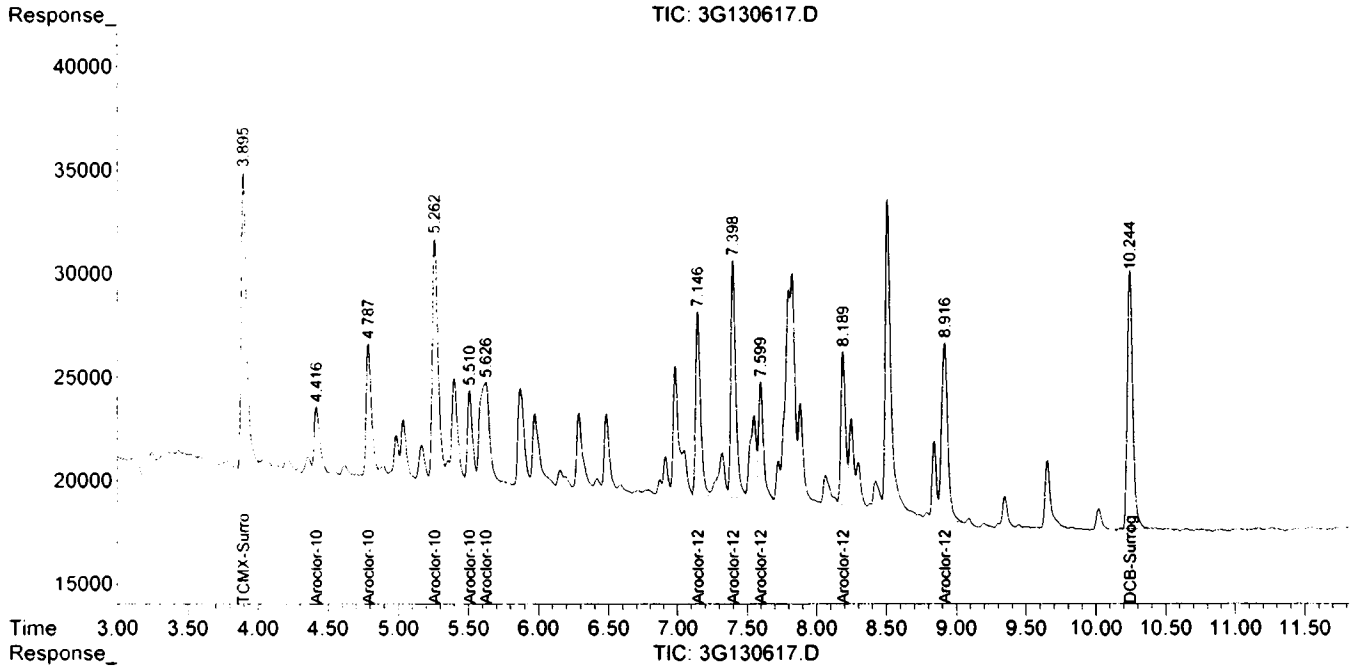
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.245 | 10.885 | 339330 | 399103 | 22.822 | 26.102 |

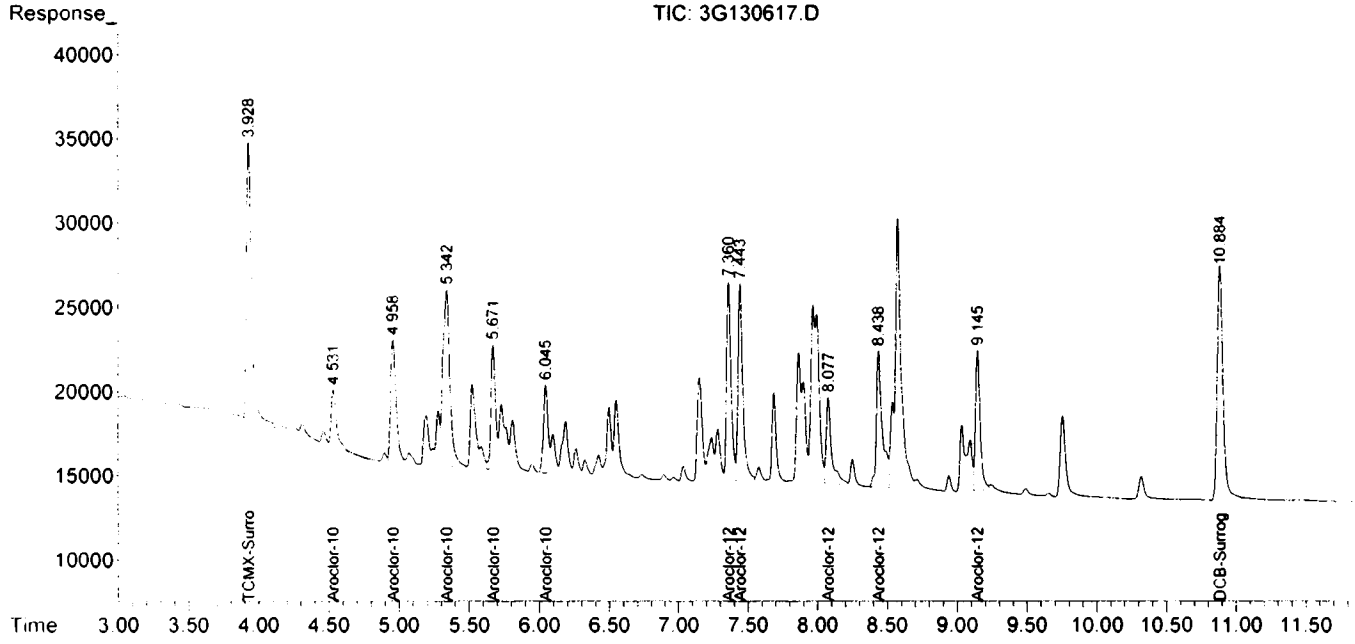
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130617.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 12:46
Operator : MS/MLC/MC
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 13:53:34 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130618.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 13:01
Operator : MS/MLC/MC
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 13:52:31 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.897 | 3.930 | 951187 | 1005287 | 59.232m | 63.068 |
| 2)Aroclor-1016 {1} | 4.418 | 4.532 | 207765 | 210768 | 567.216 | 596.811 |
| 3)Aroclor-1016 {2} | 4.789 | 4.959 | 409761 | 449079 | 578.655 | 605.011 |
| 4)Aroclor-1016 {3} | 5.263 | 5.343 | 791418 | 869327 | 566.117 | 617.069 |
| 5)Aroclor-1016 {4} | 5.511 | 5.672 | 273318 | 384175 | 586.729 | 615.409 |
| 6)Aroclor-1016 {5} | 5.627 | 6.046 | 571212 | 283204 | 583.963 | 620.138 |
| 7)Aroclor-1260 {1} | 7.147 | 7.361 | 512507 | 626358 | 581.243 | 711.522 |
| 8)Aroclor-1260 {2} | 7.398 | 7.445 | 675728 | 668494 | 604.155 | 629.356 |
| 9)Aroclor-1260 {3} | 7.600 | 8.078 | 351458 | 299576 | 579.253 | 567.500 |
| 10)Aroclor-1260 {4} | 8.190 | 8.439 | 426141 | 570466 | 617.914 | 662.798m |
| 11)Aroclor-1260 {5} | 8.916 | 9.146 | 674264 | 504701 | 588.004 | 575.726m |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130618.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 13:01
Operator : MS/MLC/MC
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 13:52:31 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

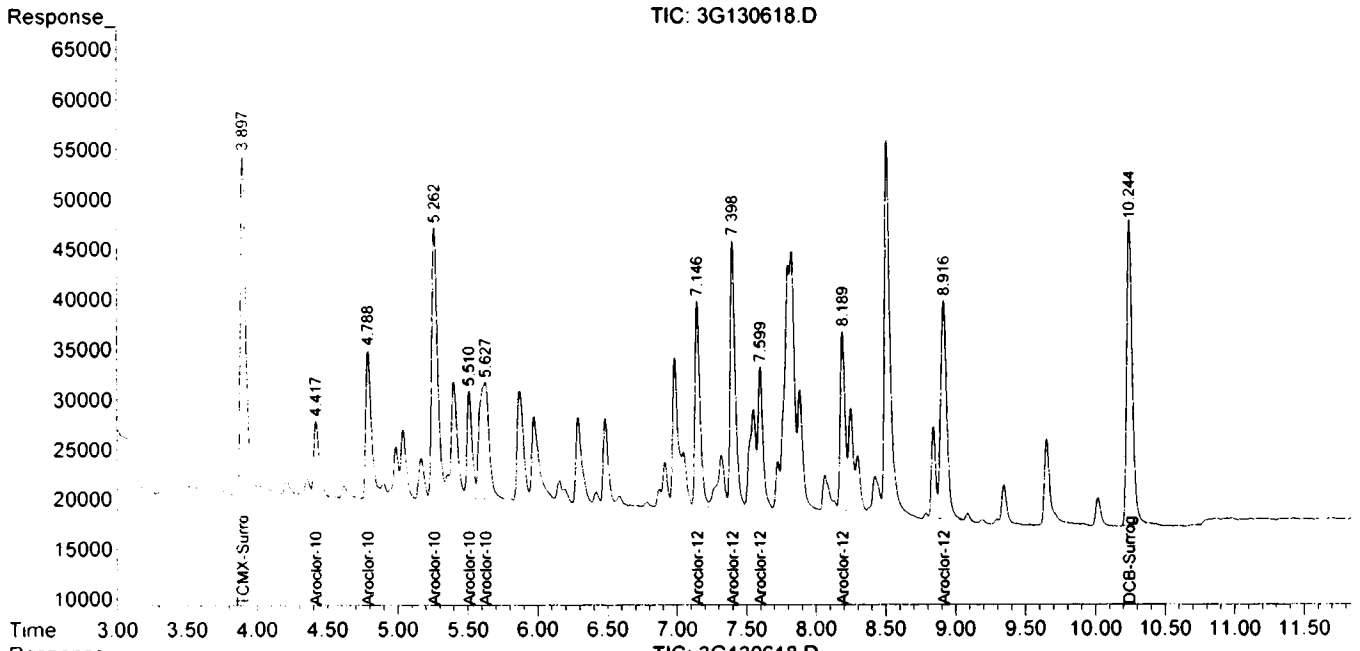
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.245 | 10.885 | 849703 | 958538 | 57.147 | 62.689 |

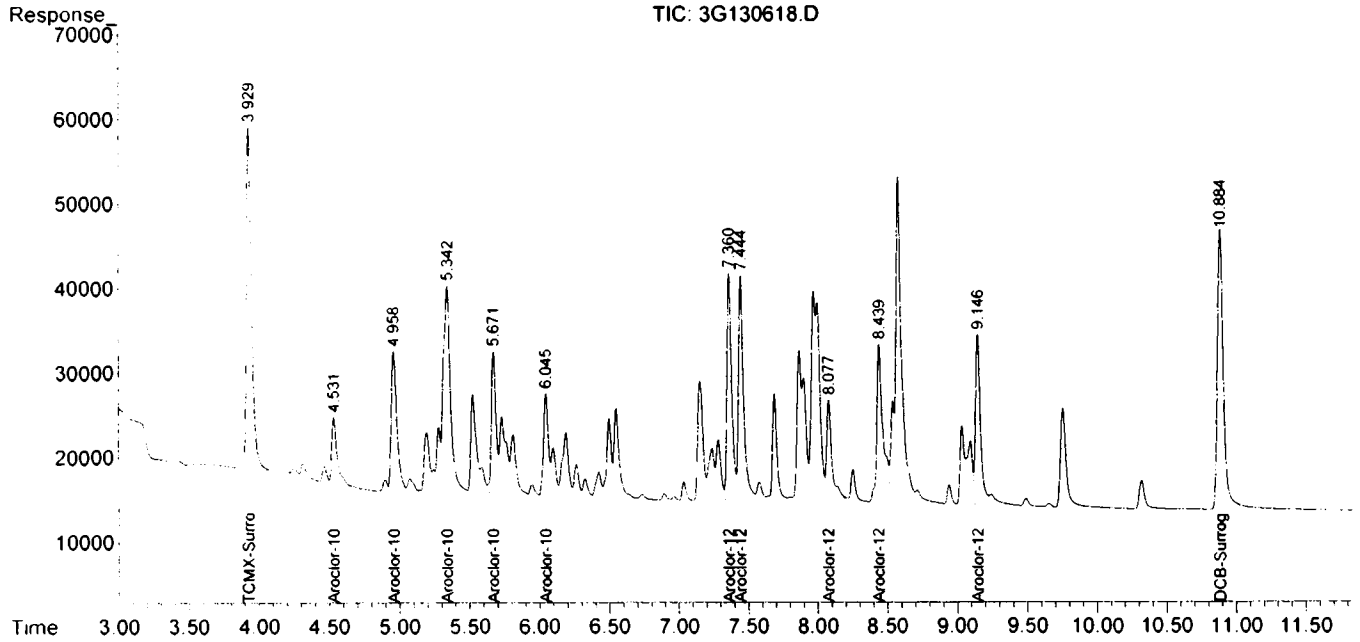
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130618.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 13:01
Operator : MS/MLC/MC
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 13:52:31 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130619.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 13:16
Operator : MS/MLC/MC
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:01:04 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.897 | 3.930 | 1768141 | 2040654 | 110.104 | 128.023 |
| 2)Aroclor-1016 {1} | 4.417 | 4.532 | 379198 | 401560 | 1035.244 | 1137.059 |
| 3)Aroclor-1016 {2} | 4.788 | 4.958 | 742524 | 856792 | 1048.573 | 1154.292 |
| 4)Aroclor-1016 {3} | 5.261 | 5.342 | 1438206 | 1635856 | 1028.778 | 1161.169 |
| 5)Aroclor-1016 {4} | 5.510 | 5.671 | 506638 | 714994 | 1087.595 | 1145.347 |
| 6)Aroclor-1016 {5} | 5.627 | 6.046 | 1034384 | 527663 | 1057.474 | 1155.436 |
| 7)Aroclor-1260 {1} | 7.147 | 7.361 | 934274 | 1155929 | 1059.576 | 1430.193 # |
| 8)Aroclor-1260 {2} | 7.398 | 7.444 | 1236169 | 1263396 | 1105.233 | 1189.429 |
| 9)Aroclor-1260 {3} | 7.599 | 8.078 | 662070 | 641464 | 1091.187 | 1215.154 |
| 10)Aroclor-1260 {4} | 8.190 | 8.438 | 791692 | 1066902 | 1147.971 | 1239.584m |
| 11)Aroclor-1260 {5} | 8.916 | 9.145 | 1327277 | 964256 | 1157.476 | 1099.953m |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130619.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 13:16
Operator : MS/MLC/MC
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:01:04 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

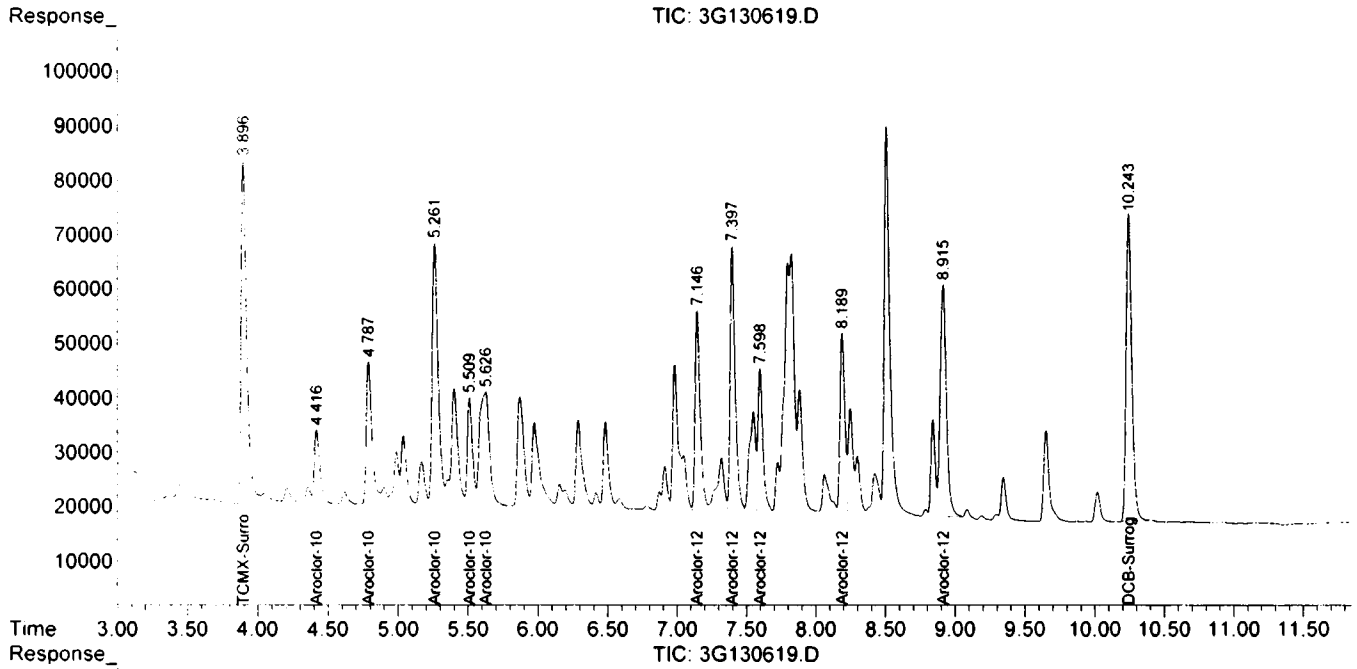
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.244 | 10.886 | 1609525 | 1920941 | 108.249 | 125.632 |

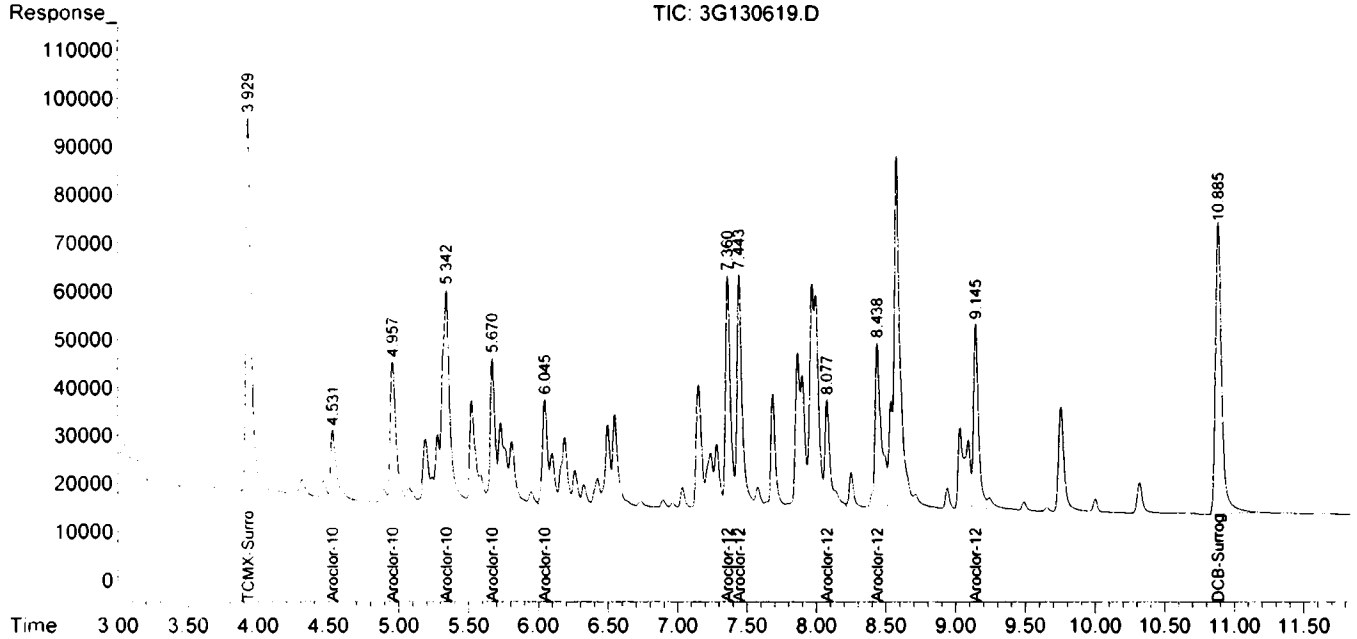
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130619.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 13:16
Operator : MS/MLC/MC
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:01:04 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130620.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 13:31
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:01:21 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.897 | 3.930 | 3329538 | 3981824 | 207.335 | 249.805 |
| 2)Aroclor-1016 {1} | 4.417 | 4.532 | 708136 | 780184 | 1933.274 | 2209.173 |
| 3)Aroclor-1016 {2} | 4.789 | 4.959 | 1323177 | 1553395 | 1868.556 | 2092.773 |
| 4)Aroclor-1016 {3} | 5.262 | 5.343 | 2610438 | 3044227 | 1867.299 | 2160.863 |
| 5)Aroclor-1016 {4} | 5.510 | 5.672 | 920053 | 1331740 | 1975.069 | 2133.309 |
| 6)Aroclor-1016 {5} | 5.627 | 6.046 | 1871100 | 972229 | 1912.869 | 2128.912 |
| 7)Aroclor-1260 {1} | 7.147 | 7.362 | 1711505 | 2073700 | 1941.047 | 2675.679 # |
| 8)Aroclor-1260 {2} | 7.397 | 7.444 | 2308451 | 2226338 | 2063.938 | 2095.994 |
| 9)Aroclor-1260 {3} | 7.599 | 8.078 | 1310194 | 1220760 | 2159.389 | 2312.538 |
| 10)Aroclor-1260 {4} | 8.190 | 8.440 | 1477817 | 2023875 | 2142.867 | 2351.446 |
| 11)Aroclor-1260 {5} | 8.916 | 9.147 | 2583524 | 1865027 | 2253.008 | 2127.487 |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130620.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 13:31
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:01:21 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

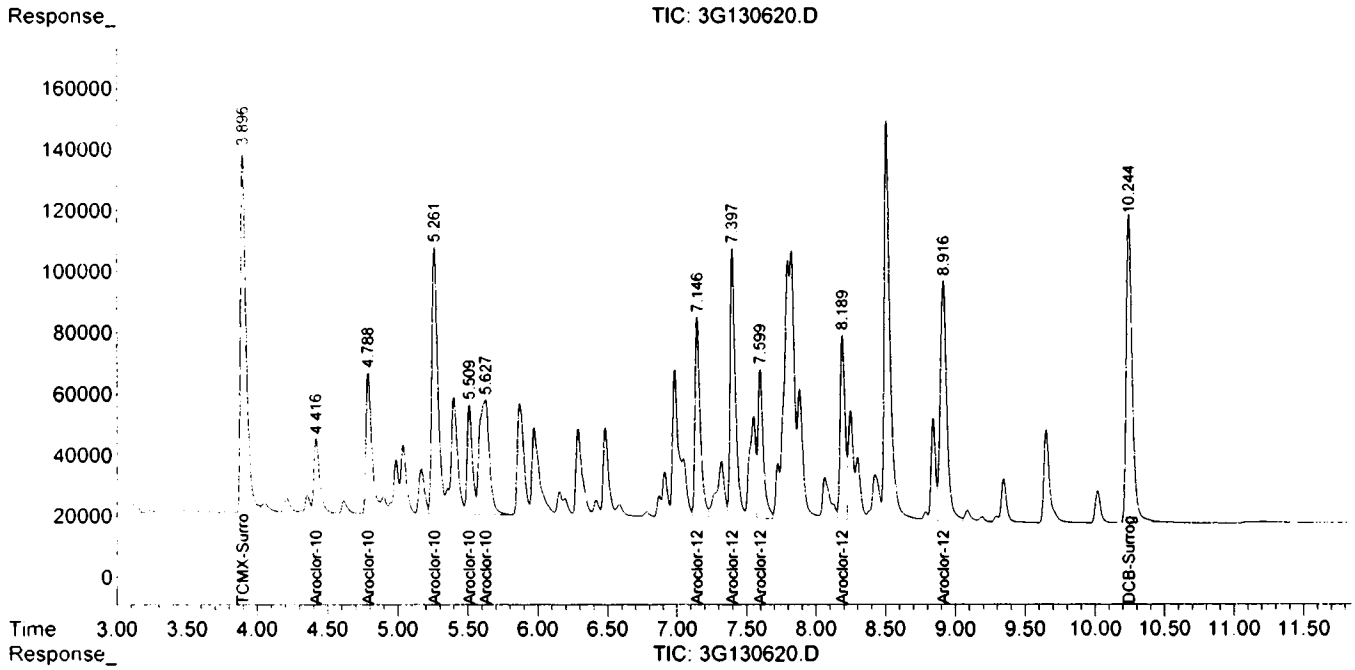
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.244 | 10.885 | 2966429 | 3597555 | 199.508 | 235.284 |

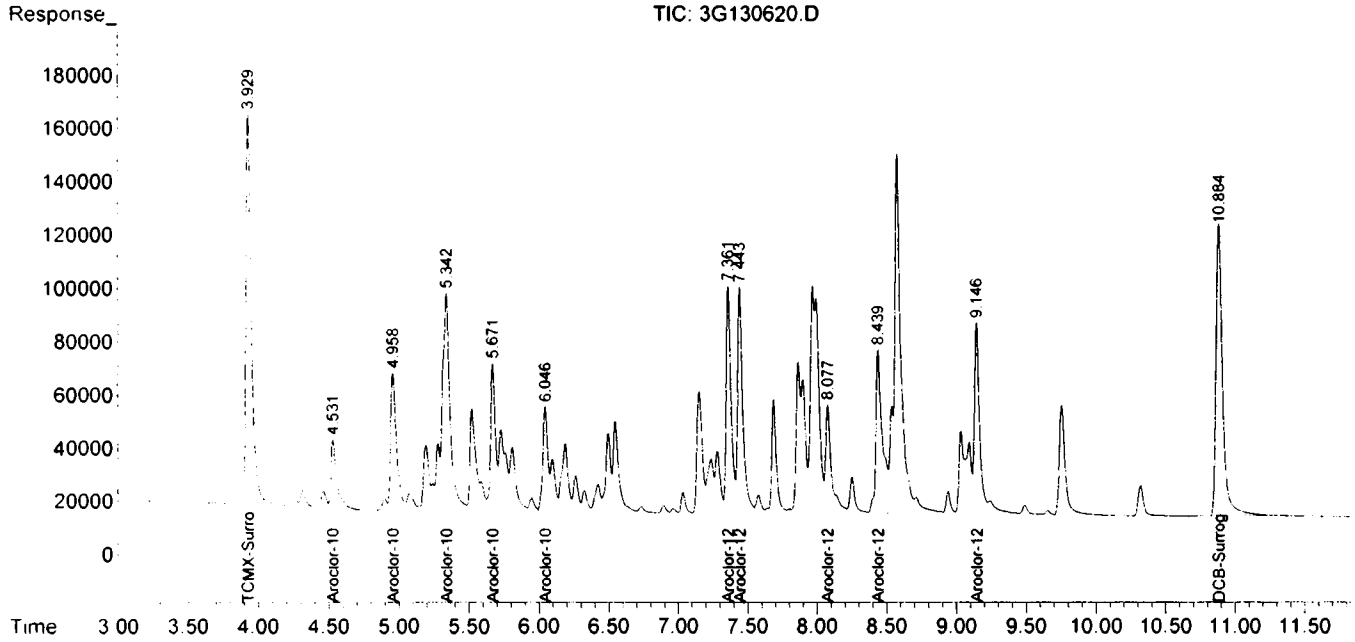
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130620.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 13:31
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:01:21 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130621.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 13:45
Operator : MS/MLC/MC
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:01:39 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.896 | 3.929 | 6049412 | 7455994 | 376.705 | 467.763 |
| 2)Aroclor-1016 {1} | 4.416 | 4.531 | 1263823 | 1395781 | 3450.347 | 3952.302 |
| 3)Aroclor-1016 {2} | 4.788 | 4.958 | 2278558 | 2699052 | 3217.721 | 3636.231 |
| 4)Aroclor-1016 {3} | 5.260 | 5.342 | 4610529 | 5458977 | 3298.004 | 3874.909 |
| 5)Aroclor-1016 {4} | 5.509 | 5.670 | 1654092 | 2364365 | 3550.822 | 3787.468 |
| 6)Aroclor-1016 {5} | 5.626 | 6.046 | 3344899 | 1741417 | 3419.567 | 3813.221 |
| 7)Aroclor-1260 {1} | 7.145 | 7.361 | 2957747 | 3662962 | 3354.432 | 4832.433 # |
| 8)Aroclor-1260 {2} | 7.396 | 7.443 | 3994180 | 4164633 | 3571.113 | 3920.809 |
| 9)Aroclor-1260 {3} | 7.598 | 8.078 | 2366087 | 2292334 | 3899.651 | 4342.467 |
| 10)Aroclor-1260 {4} | 8.189 | 8.439 | 2608336 | 3793856 | 3782.144 | 4407.905 |
| 11)Aroclor-1260 {5} | 8.915 | 9.146 | 4716224 | 3515220 | 4112.867 | 4009.907 |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130621.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 13:45
Operator : MS/MLC/MC
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:01:39 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

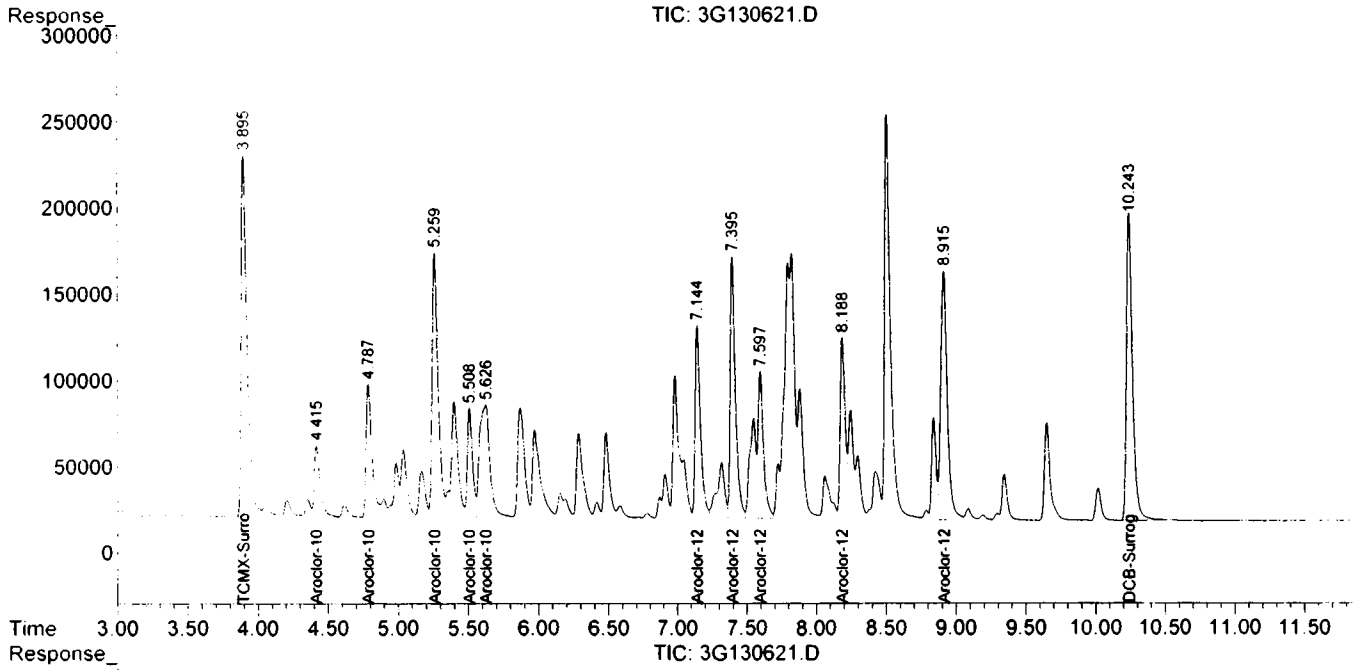
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.244 | 10.885 | 5323600 | 6614040 | 358.040 | 432.566 |

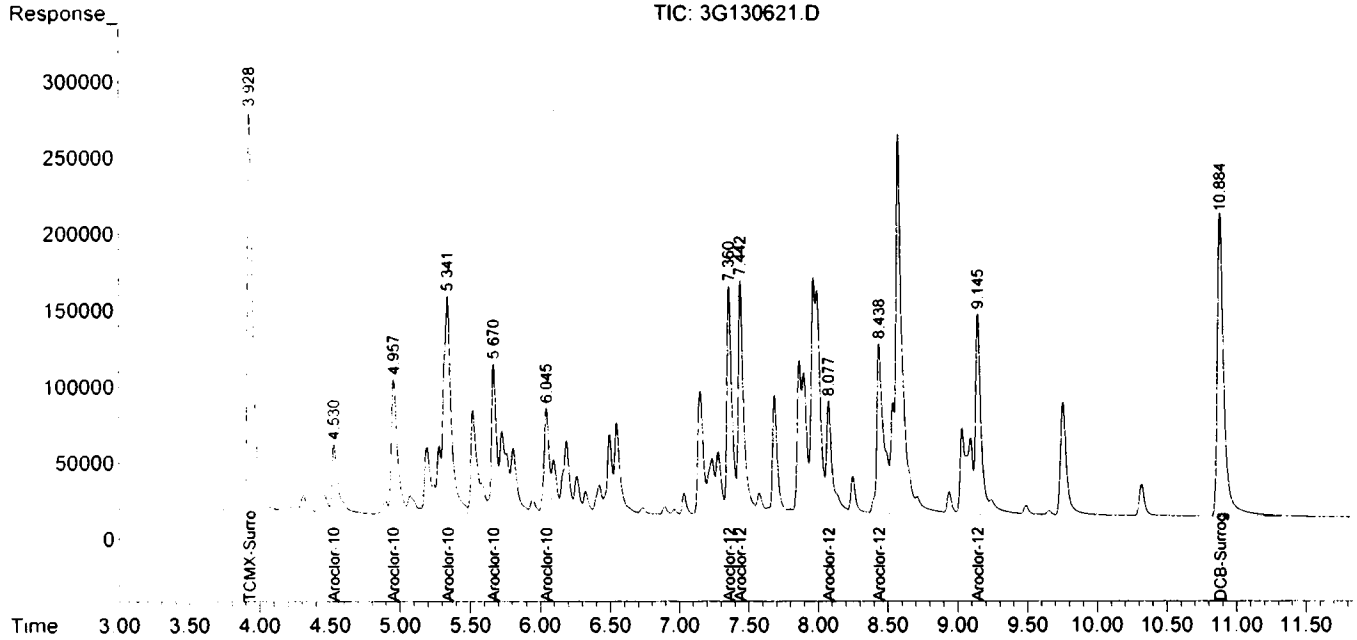
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130621.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 13:45
Operator : MS/MLC/MC
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:01:39 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 13:52:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130612.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 11:32
Operator : MS/MLC/MC
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:59:10 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 14:58:43 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.903 | 3.930 | 964649 | 966493 | 60.070 | 60.634 |
| 2)Aroclor-1016 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 3)Aroclor-1016 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 4)Aroclor-1016 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 5)Aroclor-1016 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 6)Aroclor-1016 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 7)Aroclor-1260 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8)Aroclor-1260 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 9)Aroclor-1260 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 10)Aroclor-1260 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 11)Aroclor-1260 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 4.425 | 4.532 | 233137 | 171553 | 530.192 | 431.695m |
| 16)Aroclor-1232 {2} | 4.797 | 4.959 | 215615 | 197240 | 558.586 | 483.050 |
| 17)Aroclor-1232 {3} | 5.271 | 5.345 | 411740 | 367038 | 564.509 | 511.072 |
| 18)Aroclor-1232 {4} | 5.409 | 6.191 | 179416 | 121227 | 571.329 | 500.078 |
| 19)Aroclor-1232 {5} | 5.879 | 6.268 | 191483 | 88562 | 551.932 | 529.139 |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 8.193 | 8.539 | 124627 | 99030 | 555.778 | 559.094 |
| 41)Aroclor-1268 {2} | 8.517 | 8.580 | 137018 | 167378 | 564.335 | 497.166 |
| 42)Aroclor-1268 {3} | 9.098 | 9.496 | 1126624 | 1055975 | 534.998 | 564.914 |

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130612.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 11:32
Operator : MS/MLC/MC
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:59:10 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 14:58:43 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

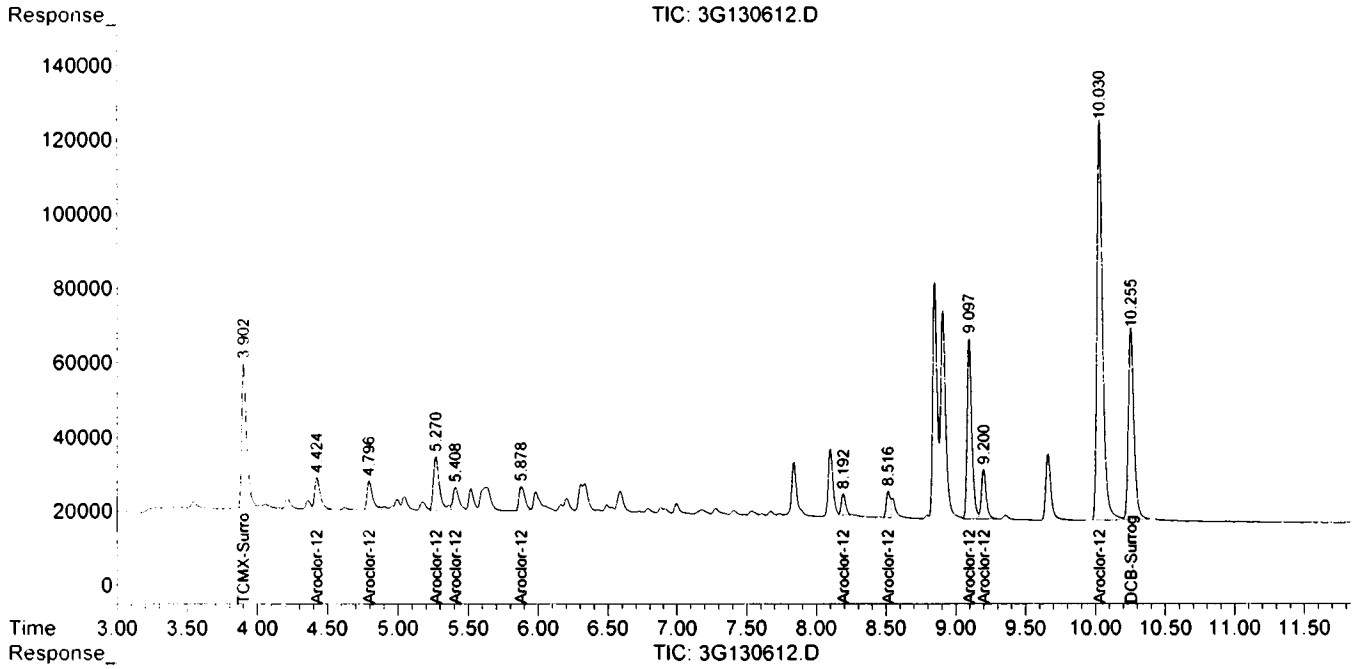
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 9.201 | 9.660 | 312835 | 288577 | 481.888 | 537.910 |
| 44)Aroclor-1268 {5} | 10.031 | 10.326 | 3044983 | 3203829 | 516.104 | 562.945 |
| 45)DCB-Surrogate | 10.256 | 10.891 | 1445892 | 1599363 | 97.244 | 104.600 |

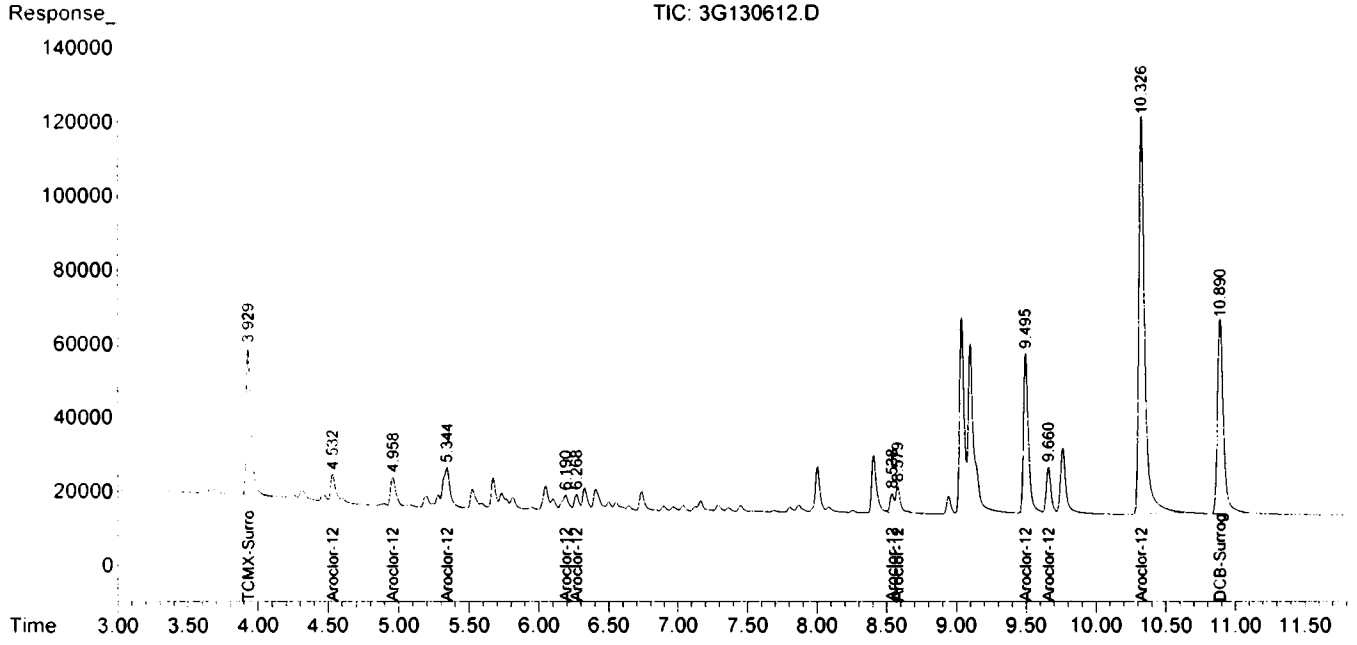
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130612.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 11:32
Operator : MS/MLC/MC
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:59:10 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 14:58:43 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130613.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 11:47
Operator : MS/MLC/MC
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:59:58 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 14:59:41 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.896 | 3.929 | 970954 | 1061993 | 60.463 | 66.626 |
| 2)Aroclor-1016 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 3)Aroclor-1016 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 4)Aroclor-1016 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 5)Aroclor-1016 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 6)Aroclor-1016 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 7)Aroclor-1260 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8)Aroclor-1260 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 9)Aroclor-1260 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 10)Aroclor-1260 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 11)Aroclor-1260 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 4.417 | 4.531 | 189681 | 194453 | 523.383 | 554.438 |
| 21)Aroclor-1242 {2} | 4.789 | 4.957 | 349735 | 366307 | 516.522 | 535.086 |
| 22)Aroclor-1242 {3} | 5.262 | 5.342 | 717606 | 729384 | 532.429 | 564.876 |
| 23)Aroclor-1242 {4} | 5.627 | 5.671 | 485684 | 330849 | 497.082 | 579.976 |
| 24)Aroclor-1242 {5} | 5.871 | 6.045 | 324761 | 272896 | 517.038 | 569.835 |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130613.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 11:47
Operator : MS/MLC/MC
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:59:58 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 14:59:41 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

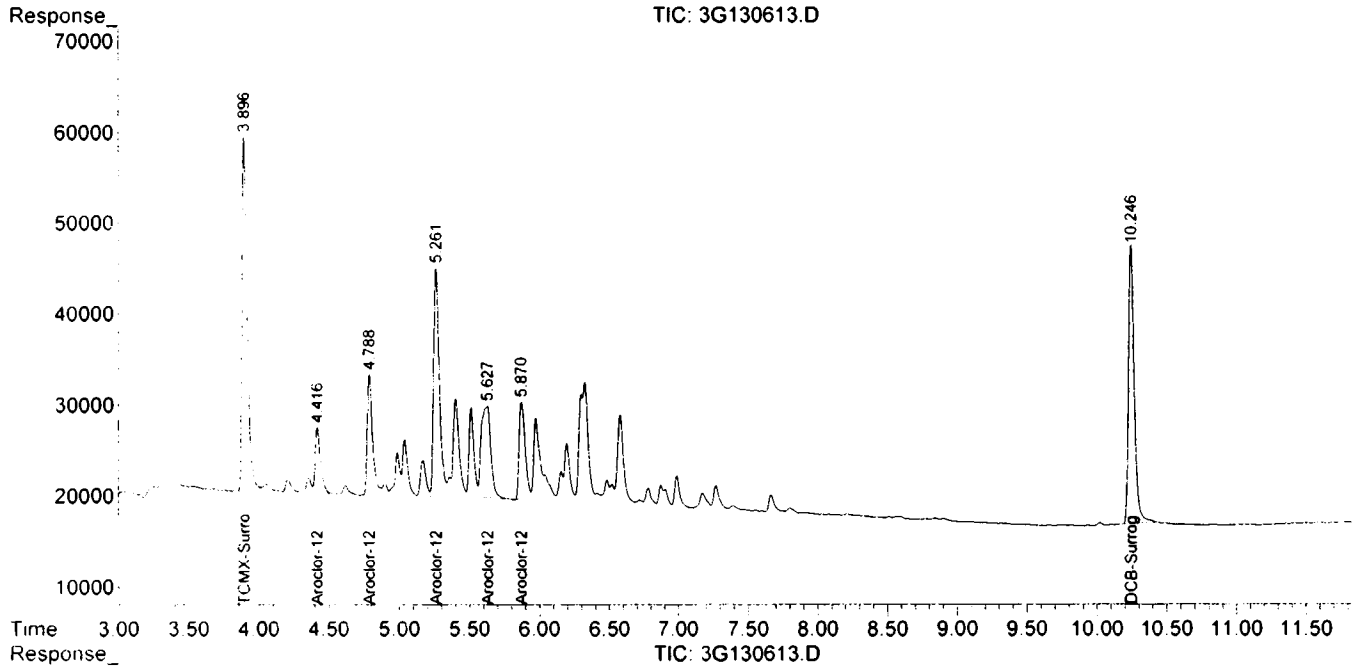
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 45)DCB-Surrogate | 10.246 | 10.885 | 875821 | 981883 | 58.903 | 64.216 |

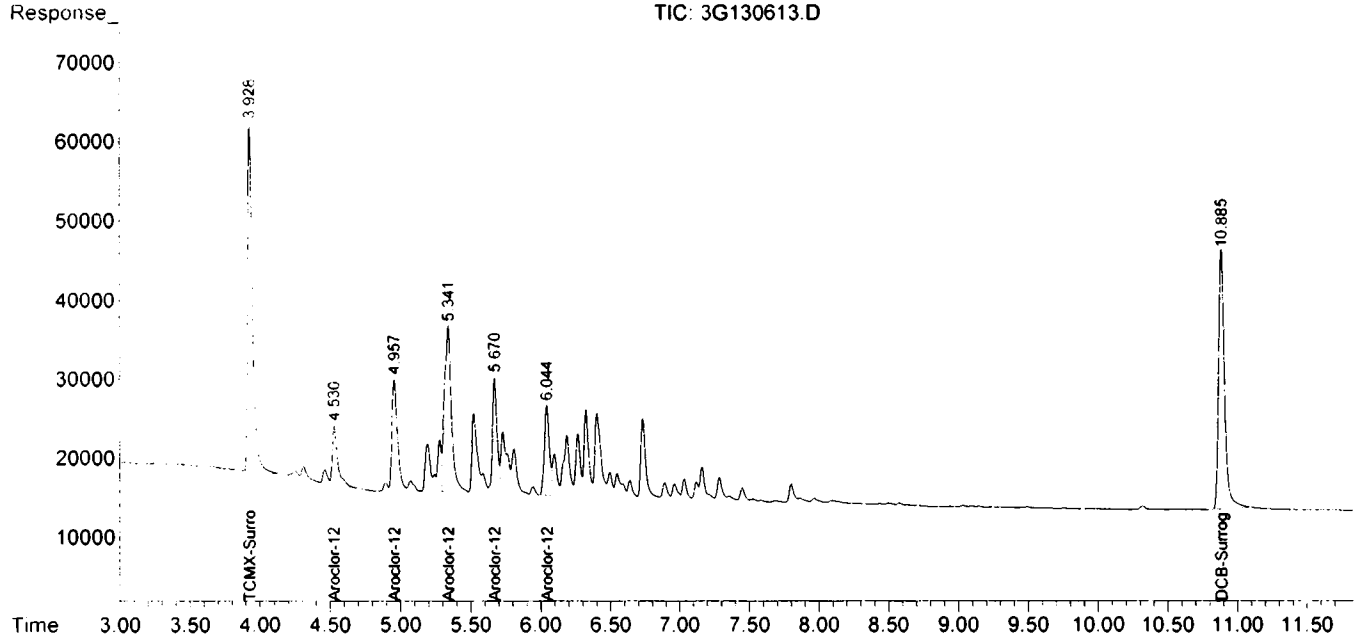
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130613.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 11:47
Operator : MS/MLC/MC
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:59:58 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 14:59:41 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130614.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 12:01
Operator : MS/MLC/MC
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 15:01:02 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:00:37 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.897 | 3.929 | 986072 | 1078665 | 61.404 | 67.672 |
| 2)Aroclor-1016 {1} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 3)Aroclor-1016 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 4)Aroclor-1016 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 5)Aroclor-1016 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 6)Aroclor-1016 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 7)Aroclor-1260 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8)Aroclor-1260 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 9)Aroclor-1260 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 10)Aroclor-1260 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 11)Aroclor-1260 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 4.788 | 4.958 | 164335 | 185659 | 530.100 | 543.884 |
| 26)Aroclor-1248 {2} | 5.262 | 5.341 | 448684 | 482268 | 530.988 | 600.651 |
| 27)Aroclor-1248 {3} | 5.611 | 5.672 | 755734 | 382227 | 528.756 | 595.153 |
| 28)Aroclor-1248 {4} | 5.871 | 6.189 | 471498 | 373195 | 513.077 | 590.641 |
| 29)Aroclor-1248 {5} | 6.579 | 6.325 | 497337 | 431845 | 526.225 | 608.262 |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130614.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 12:01
Operator : MS/MLC/MC
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 15:01:02 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:00:37 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

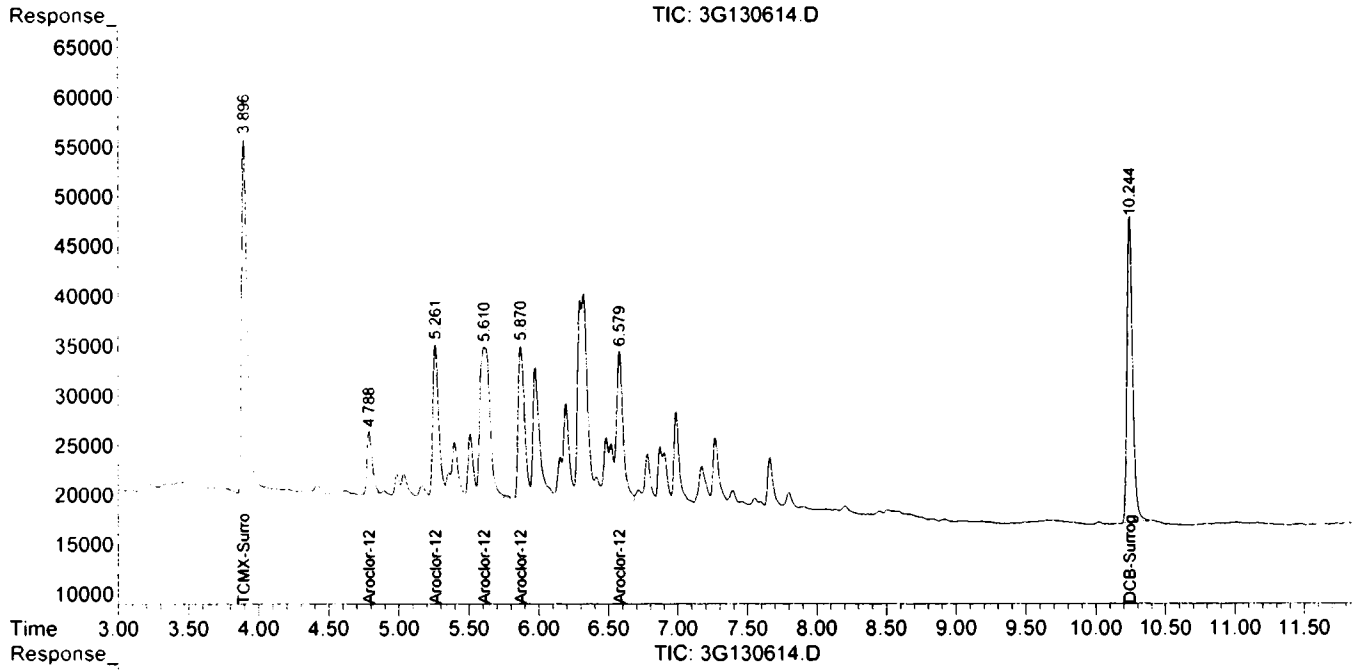
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 45)DCB-Surrogate | 10.245 | 10.885 | 857950 | 991554 | 57.702 | 64.849 |

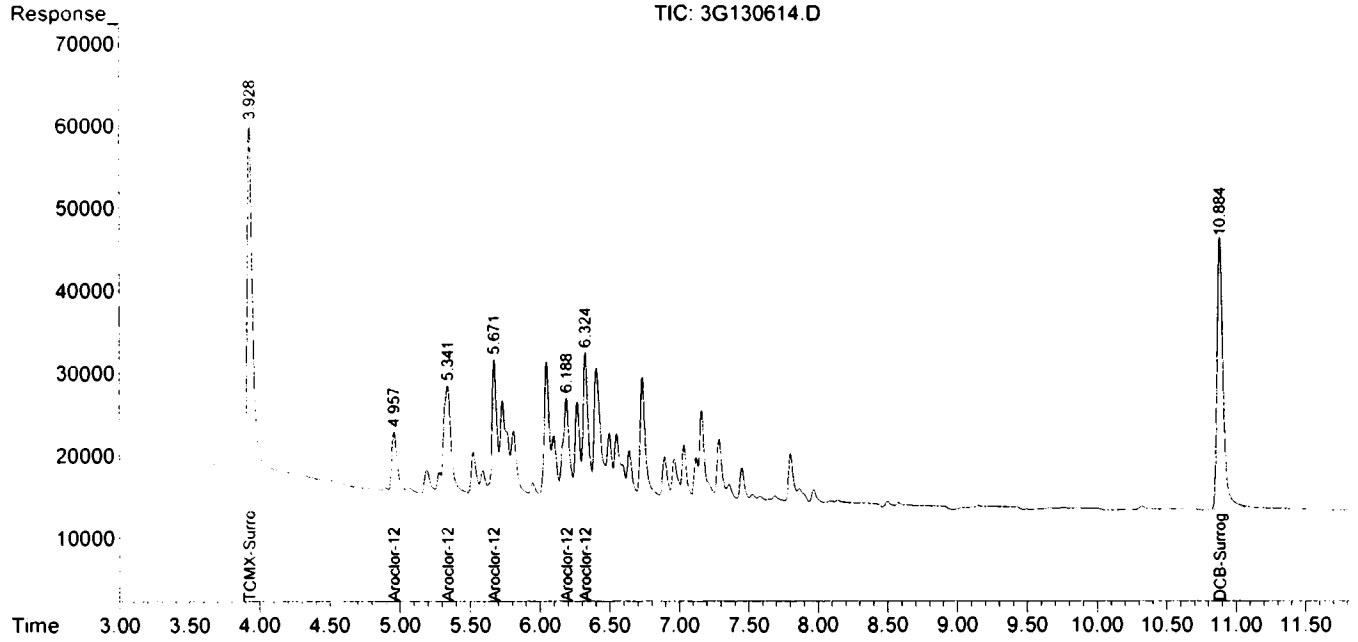
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130614.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 12:01
Operator : MS/MLC/MC
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 15:01:02 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:00:37 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130611.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 10:45
Operator : MS/MLC/MC
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:56:48 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 14:55:51 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.895 | 3.927 | 919822 | 1107683 | 57.278 | 69.492 |
| 2)Aroclor-1016 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 3)Aroclor-1016 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 4)Aroclor-1016 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 5)Aroclor-1016 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 6)Aroclor-1016 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 7)Aroclor-1260 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8)Aroclor-1260 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 9)Aroclor-1260 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 10)Aroclor-1260 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 11)Aroclor-1260 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 12)Aroclor-1221 {1} | 4.204 | 4.310 | 124477 | 143818 | 450.772 | 581.780 # |
| 13)Aroclor-1221 {2} | 4.353 | 4.462 | 74709 | 82768 | 475.567 | 579.603m |
| 14)Aroclor 1221 {3} | 4.416 | 4.529 | 315411 | 289578 | 492.992 | 626.322m# |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 6.777 | 6.548 | 207416 | 642188 | 460.638 | 617.099 # |
| 31)Aroclor-1254 {2} | 6.987 | 6.892 | 673610 | 203322 | 503.200m | 604.714 |
| 32)Aroclor-1254 {3} | 7.149 | 7.288 | 389297 | 528577 | 479.294 | 665.301 # |
| 33)Aroclor-1254 {4} | 7.269 | 7.802 | 606361 | 260600 | 496.156 | 710.864 # |
| 34)Aroclor-1254 {5} | 7.661 | 8.497 | 245525 | 248601 | 446.031 | 649.032 # |
| 35)Aroclor-1262 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 36)Aroclor-1262 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 37)Aroclor-1262 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 38)Aroclor-1262 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 39)Aroclor-1262 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130611.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 10:45
Operator : MS/MLC/MC
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:56:48 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 14:55:51 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

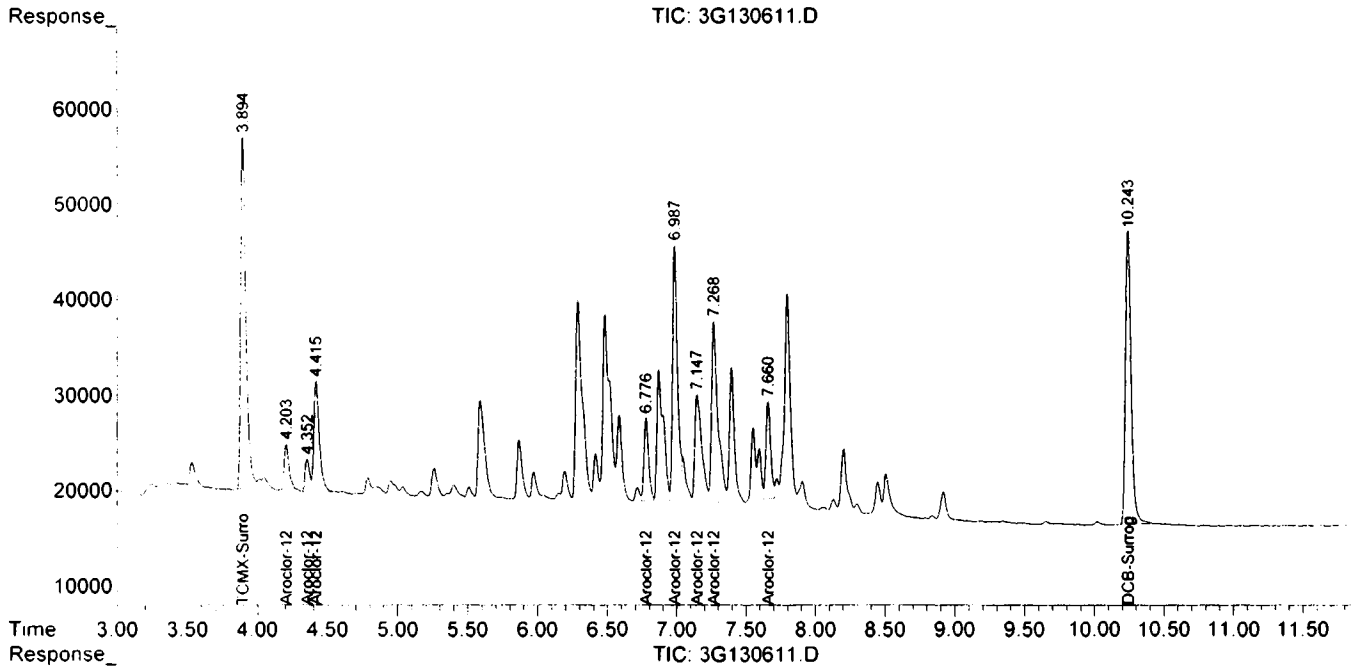
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.244 | 10.885 | 868848 | 1018734 | 58.435 | 66.626 |

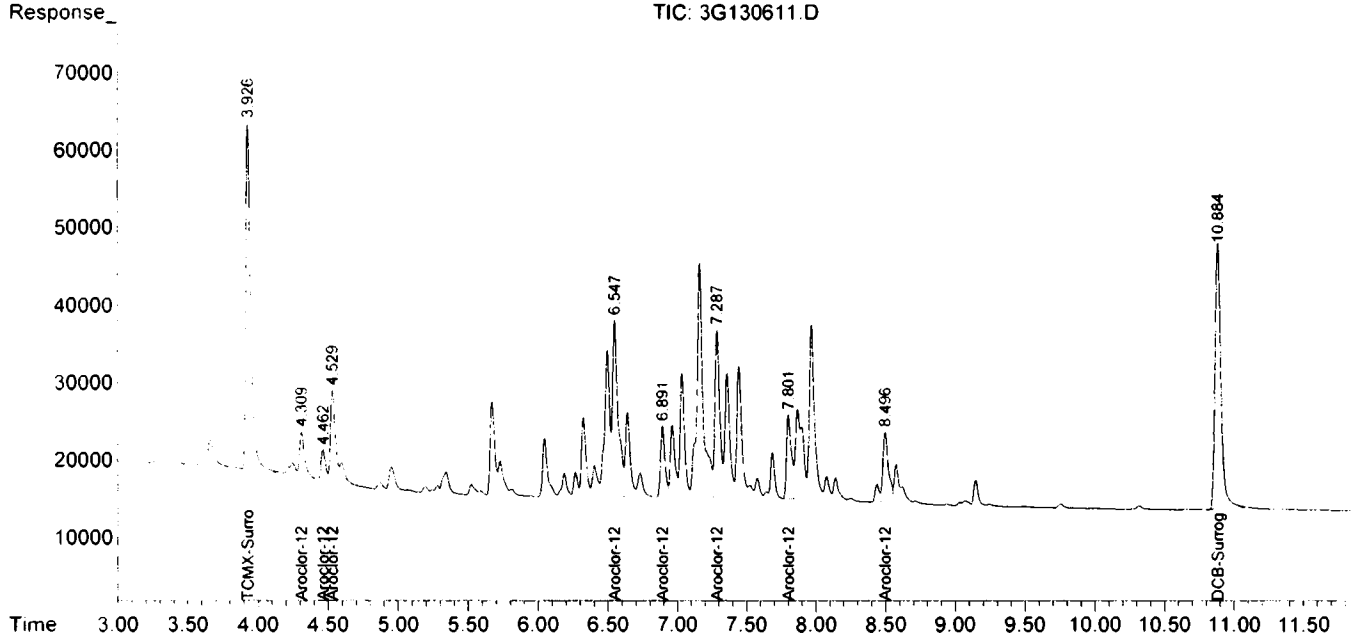
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130611.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 10:45
Operator : MS/MLC/MC
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 14:56:48 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 14:55:51 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130615.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 12:16
Operator : MS/MLC/MC
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 15:02:27 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:02:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.895 | 3.928 | 977957 | 1084874 | 60.899 | 68.061 |
| 2)Aroclor-1016 {1} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 3)Aroclor-1016 {2} | 0.000 | 0.000 | 0 | 0 | N.D. | N.D. |
| 4)Aroclor-1016 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 5)Aroclor-1016 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 6)Aroclor-1016 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 7)Aroclor-1260 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8)Aroclor-1260 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 9)Aroclor-1260 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 10)Aroclor-1260 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 11)Aroclor-1260 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 12)Aroclor-1221 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Aroclor-1221 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Aroclor-1221 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)Aroclor-1232 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Aroclor-1232 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)Aroclor-1232 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Aroclor-1232 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Aroclor-1232 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Aroclor-1242 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Aroclor-1242 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)Aroclor-1242 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 23)Aroclor-1242 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Aroclor-1242 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Aroclor-1248 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Aroclor-1248 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Aroclor-1248 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Aroclor-1248 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Aroclor-1248 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Aroclor-1254 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 31)Aroclor-1254 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 32)Aroclor-1254 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 33)Aroclor-1254 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 34)Aroclor-1254 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 35)Aroclor-1262 {1} | 7.829 | 7.866 | 873052 | 582958 | 577.845m | 576.819 |
| 36)Aroclor-1262 {2} | 8.842 | 9.033 | 489719 | 490548 | 536.605 | 637.757 |
| 37)Aroclor-1262 {3} | 8.908 | 9.144 | 892595 | 578120 | 506.878 | 539.009 |
| 38)Aroclor-1262 {4} | 9.652 | 9.755 | 432336 | 579004 | 543.267 | 574.197 |
| 39)Aroclor-1262 {5} | 10.019 | 10.319 | 146130 | 167358 | 492.317 | 555.431 |
| 40)Aroclor-1268 {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 41)Aroclor-1268 {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 42)Aroclor-1268 {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130615.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 12:16
Operator : MS/MLC/MC
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 15:02:27 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:02:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

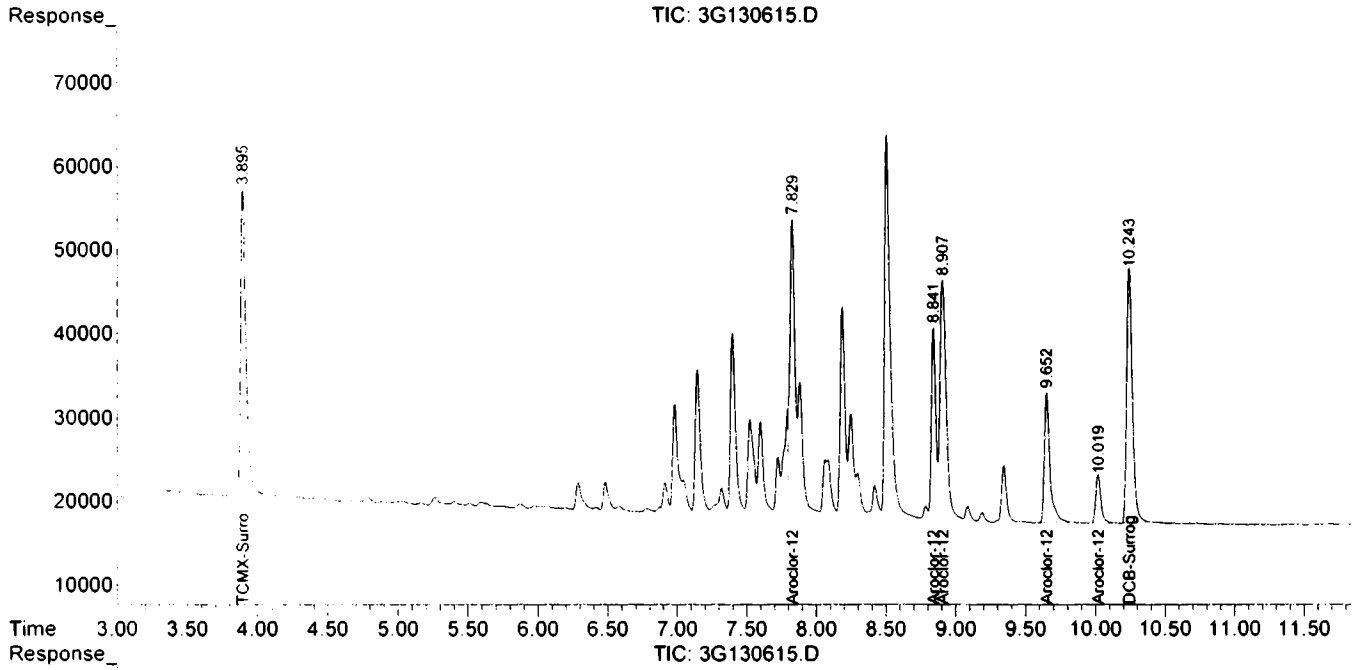
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| 43)Aroclor-1268 {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 44)Aroclor-1268 {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 45)DCB-Surrogate | 10.244 | 10.885 | 851836 | 989624 | 57.290 | 64.723 |

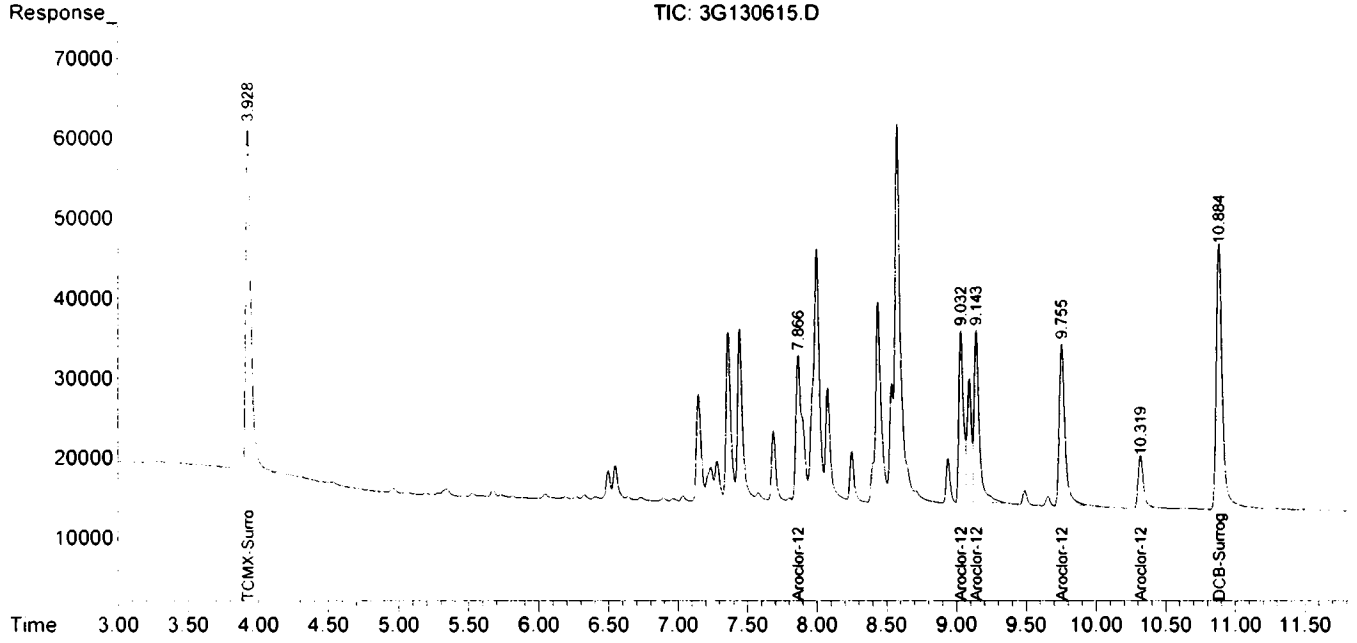
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-22-21\
Data File : 3G130615.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Sep 2021 12:16
Operator : MS/MLC/MC
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 15:02:27 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:02:00 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



TxtDfile: 3G128898.D

ICV FORM

Date/Time: 07/19/21 13:31

1091738 1432

| Compound | bytCol Num: | bytMr Num: | Type | sngConc: | Exp Conc | Rec | Flag | sngLoLim: | sngHiLim: |
|---|---|---|---|---|---|---|---|---|---|
| TCMX-Surrogate | 2 | 0 | | 109.54 | 100 | 110 | | 70 | 130 |
| TCMX-Surrogate | 1 | 0 | | 112.03 | 100 | 112 | | 70 | 130 |
| Aroclor-1016 | 2 | 1 | | 1084.02 | 1000 | 108 | | 70 | 130 |
| Aroclor-1016 | 1 | 1 | | 1138.79 | 1000 | 114 | | 70 | 130 |
| Aroclor-1016 | 1 | 2 | | 1119.14 | 1000 | 112 | | 70 | 130 |
| Aroclor-1016 | 2 | 2 | | 1089.84 | 1000 | 109 | | 70 | 130 |
| Aroclor-1016 | 1 | 3 | | 1117.09 | 1000 | 112 | | 70 | 130 |
| Aroclor-1016 | 2 | 3 | | 1101.76 | 1000 | 110 | | 70 | 130 |
| Aroclor-1016 | 1 | 4 | | 1159.49 | 1000 | 116 | | 70 | 130 |
| Aroclor-1016 | 2 | 4 | | 1091.2 | 1000 | 109 | | 70 | 130 |
| Aroclor-1016 | 1 | 5 | | 1143.97 | 1000 | 114 | | 70 | 130 |
| Aroclor-1016 | 2 | 5 | | 1091.54 | 1000 | 109 | | 70 | 130 |
| Aroclor-1260 | 2 | 1 | | 1263.37 | 1000 | 126 | | 70 | 130 |
| Aroclor-1260 | 1 | 1 | | 1137.08 | 1000 | 114 | | 70 | 130 |
| Aroclor-1260 | 1 | 2 | | 1132.87 | 1000 | 113 | | 70 | 130 |
| Aroclor-1260 | 2 | 2 | | 1082.94 | 1000 | 108 | | 70 | 130 |
| Aroclor-1260 | 1 | 3 | | 1199.16 | 1000 | 120 | | 70 | 130 |
| Aroclor-1260 | 2 | 3 | | 1094.11 | 1000 | 109 | | 70 | 130 |
| Aroclor-1260 | 2 | 4 | | 1078 | 1000 | 108 | | 70 | 130 |
| Aroclor-1260 | 1 | 4 | | 1182.09 | 1000 | 118 | | 70 | 130 |
| Aroclor-1260 | 2 | 5 | | 1101.64 | 1000 | 110 | | 70 | 130 |
| Aroclor-1260 | 1 | 5 | | 1175.76 | 1000 | 118 | | 70 | 130 |
| DCB-Surrogate | 2 | 0 | | 105.1 | 100 | 105 | | 70 | 130 |
| DCB-Surrogate | 1 | 0 | | 106.25 | 100 | 106 | | 70 | 130 |

TxtDfile: 3G130622.D

ICV FORM

Date/Time: 09/22/21 14:00

1091738 1433

| Compound | bytCol Num: | bytMr Num: | Type | sngConc: | Exp Conc | Rec | Flag | sngLoLim: | sngHiLim: |
|---|---|---|---|---|---|---|---|---|---|
| TCMX-Surrogate | 2 | 0 | | 103.41 | 100 | 103 | | 70 | 130 |
| TCMX-Surrogate | 1 | 0 | | 94.21 | 100 | 94 | | 70 | 130 |
| Aroclor-1016 | 1 | 1 | | 1083.54 | 1000 | 108 | | 70 | 130 |
| Aroclor-1016 | 2 | 1 | | 1160.74 | 1000 | 116 | | 70 | 130 |
| Aroclor-1016 | 1 | 2 | | 1278.34 | 1000 | 128 | | 70 | 130 |
| Aroclor-1016 | 2 | 2 | | 1103.1 | 1000 | 110 | | 70 | 130 |
| Aroclor-1016 | 1 | 3 | | 1085.88 | 1000 | 109 | | 70 | 130 |
| Aroclor-1016 | 2 | 3 | | 1088.11 | 1000 | 109 | | 70 | 130 |
| Aroclor-1016 | 1 | 4 | | 1092.56 | 1000 | 109 | | 70 | 130 |
| Aroclor-1016 | 2 | 4 | | 1087.53 | 1000 | 109 | | 70 | 130 |
| Aroclor-1016 | 2 | 5 | | 1086.05 | 1000 | 109 | | 70 | 130 |
| Aroclor-1016 | 1 | 5 | | 1082.17 | 1000 | 108 | | 70 | 130 |
| Aroclor-1260 | 1 | 1 | | 1046.38 | 1000 | 105 | | 70 | 130 |
| Aroclor-1260 | 2 | 1 | | 1222.36 | 1000 | 122 | | 70 | 130 |
| Aroclor-1260 | 1 | 2 | | 1064.03 | 1000 | 106 | | 70 | 130 |
| Aroclor-1260 | 2 | 2 | | 1048.61 | 1000 | 105 | | 70 | 130 |
| Aroclor-1260 | 2 | 3 | | 1045.99 | 1000 | 105 | | 70 | 130 |
| Aroclor-1260 | 1 | 3 | | 1125.04 | 1000 | 113 | | 70 | 130 |
| Aroclor-1260 | 2 | 4 | | 1046.19 | 1000 | 105 | | 70 | 130 |
| Aroclor-1260 | 1 | 4 | | 1071.95 | 1000 | 107 | | 70 | 130 |
| Aroclor-1260 | 2 | 5 | | 1089.18 | 1000 | 109 | | 70 | 130 |
| Aroclor-1260 | 1 | 5 | | 1112.04 | 1000 | 111 | | 70 | 130 |
| DCB-Surrogate | 2 | 0 | | 97.34 | 100 | 97 | | 70 | 130 |
| DCB-Surrogate | 1 | 0 | | 98.98 | 100 | 99 | | 70 | 130 |

# Form7
Continuing Calibration

Method: EPA 8082A

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Data File:** | | | | 3G130521.D | | | 3G130543.D | | | 3G130564.D | | | 3G130567.D | | | 3G130588.D | | | |
| **Method:** | | | | 8082 | | | 8082 | | | 8082 | | | 8082 | | | 8082 | | | |
| **Calibration Name:** | | | | CAL 1660@2000PP | | | CAL 1660@2000PP | | | CAL 1660@2000PP | | | CAL 1660@2000PP | | | CAL 1660@2000PP | | | |
| **Calibration Date/Time** | | | | 09/19/21 21:51 | | | 09/20/21 03:17 | | | 09/20/21 12:45 | | | 09/21/21 07:55 | | | 09/21/21 16:11 | | | |
| Compound | Limit | Col | Mr | Conc | Conc Exp | %Diff | Conc | Conc Exp | %Diff | Conc | Conc Exp | %Diff | Conc | Conc Exp | %Diff | Conc | Conc Exp | %Diff |
| TCMX-Surrogate | 20 | 1 | 0 | 191.0 | 200 | 4.5 | 202.2 | 200 | 1.1 | 228.8 | 200 | 14.4 | 200.8 | 200 | 0.4 | 217.4 | 200 | 8.7 |
| Aroclor-1016 | 20 | 1 | 1 | 1922 | 2000 | 3.9 | 1974 | 2000 | 1.3 | 2144 | 2000 | 7.2 | 1974 | 2000 | 1.3 | 2139 | 2000 | 7.0 |
| Aroclor-1016 | 20 | 1 | 2 | 1786 | 2000 | 10.7 | 1856 | 2000 | 7.2 | 2063 | 2000 | 3.2 | 1916 | 2000 | 4.2 | 2052 | 2000 | 2.6 |
| Aroclor-1016 | 20 | 1 | 3 | 1796 | 2000 | 10.2 | 1877 | 2000 | 6.1 | 2084 | 2000 | 4.2 | 1941 | 2000 | 3.0 | 2068 | 2000 | 3.4 |
| Aroclor-1016 | 20 | 1 | 4 | 1941 | 2000 | 3.0 | 2023 | 2000 | 1.1 | 2204 | 2000 | 10.2 | 2045 | 2000 | 2.3 | 2197 | 2000 | 9.9 |
| Aroclor-1016 | 20 | 1 | 5 | 1940 | 2000 | 3.0 | 2011 | 2000 | 0.5 | 2117 | 2000 | 5.9 | 1975 | 2000 | 1.2 | 2102 | 2000 | 5.1 |
| Aroclor-1260 | 20 | 1 | 1 | 1860 | 2000 | 7.0 | 1974 | 2000 | 1.3 | 2096 | 2000 | 4.8 | 1943 | 2000 | 2.8 | 2090 | 2000 | 4.5 |
| Aroclor-1260 | 20 | 1 | 2 | 1955 | 2000 | 2.3 | 2072 | 2000 | 3.6 | 2218 | 2000 | 10.9 | 2027 | 2000 | 1.4 | 2211 | 2000 | 10.5 |
| Aroclor-1260 | 20 | 1 | 3 | 2059 | 2000 | 3.0 | 2220 | 2000 | 11.0 | 2309 | 2000 | 15.4 | 2070 | 2000 | 3.5 | 2322 | 2000 | 16.1 |
| Aroclor-1260 | 20 | 1 | 4 | 1987 | 2000 | 0.6 | 2165 | 2000 | 8.2 | 2290 | 2000 | 14.5 | 2108 | 2000 | 5.4 | 2273 | 2000 | 13.6 |
| Aroclor-1260 | 20 | 1 | 5 | 2004 | 2000 | 0.2 | 2224 | 2000 | 11.2 | 2238 | 2000 | 11.9 | 2103 | 2000 | 5.1 | 2229 | 2000 | 11.4 |
| DCB-Surrogate | 20 | 1 | 0 | 166.7 | 200 | 16.7 | 183.5 | 200 | 8.3 | 179.4 | 200 | 10.3 | 175.5 | 200 | 12.3 | 179.4 | 200 | 10.3 |
| Average Difference | 20 | 1 | 0 | | | 5.4 | | | 5.1 | | | 9.4 | | | 3.6 | | | 8.6 |
| TCMX-Surrogate | 20 | 2 | 0 | 242.9 | 200 | 21.4* | 249.5 | 200 | 24.7* | 236.9 | 200 | 18.4 | 226.5 | 200 | 13.3 | 229 | 200 | 14.5 |
| Aroclor-1016 | 20 | 2 | 1 | 2255 | 2000 | 12.7 | 2323 | 2000 | 16.2 | 2163 | 2000 | 8.1 | 1962 | 2000 | 1.9 | 2024 | 2000 | 1.2 |
| Aroclor-1016 | 20 | 2 | 2 | 2194 | 2000 | 9.7 | 2252 | 2000 | 12.6 | 2131 | 2000 | 6.6 | 2008 | 2000 | 0.4 | 2041 | 2000 | 2.0 |
| Aroclor-1016 | 20 | 2 | 3 | 2356 | 2000 | 17.8 | 2418 | 2000 | 20.9* | 2270 | 2000 | 13.5 | 2038 | 2000 | 1.9 | 2103 | 2000 | 5.1 |
| Aroclor-1016 | 20 | 2 | 4 | 2277 | 2000 | 13.8 | 2359 | 2000 | 17.9 | 2237 | 2000 | 11.9 | 2048 | 2000 | 2.4 | 2112 | 2000 | 5.6 |
| Aroclor-1016 | 20 | 2 | 5 | 2244 | 2000 | 12.2 | 2326 | 2000 | 16.3 | 2207 | 2000 | 10.4 | 2039 | 2000 | 2.0 | 2107 | 2000 | 5.4 |
| Aroclor-1260 | 20 | 2 | 1 | 2778 | 2000 | 38.9* | 2888 | 2000 | 44.4* | 2774 | 2000 | 38.7* | 2600 | 2000 | 30.0* | 2665 | 2000 | 33.2* |
| Aroclor-1260 | 20 | 2 | 2 | 2297 | 2000 | 14.8 | 2396 | 2000 | 19.8 | 2278 | 2000 | 13.9 | 2114 | 2000 | 5.7 | 2175 | 2000 | 8.7 |
| Aroclor-1260 | 20 | 2 | 3 | 2305 | 2000 | 15.3 | 2395 | 2000 | 19.8 | 2290 | 2000 | 14.5 | 2216 | 2000 | 10.8 | 2265 | 2000 | 13.3 |
| Aroclor-1260 | 20 | 2 | 4 | 2325 | 2000 | 16.2 | 2412 | 2000 | 20.6* | 2373 | 2000 | 18.6 | 2066 | 2000 | 3.3 | 2203 | 2000 | 10.1 |
| Aroclor-1260 | 20 | 2 | 5 | 2094 | 2000 | 4.7 | 2242 | 2000 | 12.1 | 2113 | 2000 | 5.6 | 2199 | 2000 | 9.9 | 1830 | 2000 | 8.5 |
| DCB-Surrogate | 20 | 2 | 0 | 211.2 | 200 | 5.6 | 218.6 | 200 | 9.3 | 208.6 | 200 | 4.3 | 203.8 | 200 | 1.9 | 202.6 | 200 | 1.3 |
| Average Difference | 20 | 2 | 0 | | | 15.3 | | | 19.6 | | | 13.7 | | | 7.0 | | | 9.1 |

***Flags/Notes:*** **** - Values outside of limits for this column/run***

# Form7
Continuing Calibration

Method: EPA 8082A

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Data File:** | | | | 3G130605.D | | | 3G130715.D | | | 3G130735.D | | | 3G130755.D | | | 3G130774.D | | |
| **Method:** | | | | 8082 | | | 8082 | | | 8082 | | | 8082 | | | 8082 | | |
| **Calibration Name:** | | | | CAL 1660@2000PP | | | CAL 1660@1000PP | | | CAL 1660@2000PP | | | CAL 1660@1000PP | | | CAL 1660@1000PP | | |
| **Calibration Date/Time** | | | | 09/21/21 20:51 | | | 09/27/21 22:02 | | | 09/28/21 02:58 | | | 09/29/21 09:01 | | | 09/29/21 13:53 | | |
| Compound | Limit | Col | Mr | Conc | Conc Exp | %Diff | Conc | Conc Exp | %Diff | Conc | Conc Exp | %Diff | Conc | Conc Exp | %Diff | Conc | Conc Exp | %Diff |
| TCMX-Surrogate | 20 | 1 | 0 | 184.0 | 200 | 8.0 | 93.71 | 100 | 6.3 | 166.0 | 200 | 17.0 | 99.94 | 100 | 0.1 | 98.42 | 100 | 1.6 |
| Aroclor-1016 | 20 | 1 | 1 | 1787 | 2000 | 10.7 | 938.2 | 1000 | 6.2 | 1646 | 2000 | 17.7 | 992.8 | 1000 | 0.7 | 1011 | 1000 | 1.1 |
| Aroclor-1016 | 20 | 1 | 2 | 1742 | 2000 | 12.9 | 1075 | 1000 | 7.5 | 1943 | 2000 | 2.8 | 1135 | 1000 | 13.5 | 1084 | 1000 | 8.4 |
| Aroclor-1016 | 20 | 1 | 3 | 1774 | 2000 | 11.3 | 921.3 | 1000 | 7.9 | 1607 | 2000 | 19.6 | 968.7 | 1000 | 3.1 | 922.2 | 1000 | 7.8 |
| Aroclor-1016 | 20 | 1 | 4 | 1848 | 2000 | 7.6 | 935.4 | 1000 | 6.5 | 1641 | 2000 | 17.9 | 980.2 | 1000 | 2.0 | 919.9 | 1000 | 8.0 |
| Aroclor-1016 | 20 | 1 | 5 | 1808 | 2000 | 9.6 | 913.6 | 1000 | 8.6 | 1560 | 2000 | 22.0* | 949.9 | 1000 | 5.0 | 887.2 | 1000 | 11.3 |
| Aroclor-1260 | 20 | 1 | 1 | 1828 | 2000 | 8.6 | 884.6 | 1000 | 11.5 | 1446 | 2000 | 27.7* | 984.4 | 1000 | 1.6 | 879.0 | 1000 | 12.1 |
| Aroclor-1260 | 20 | 1 | 2 | 1948 | 2000 | 2.6 | 917.3 | 1000 | 8.3 | 1500 | 2000 | 25.0* | 1023 | 1000 | 2.3 | 919.6 | 1000 | 8.0 |
| Aroclor-1260 | 20 | 1 | 3 | 2022 | 2000 | 1.1 | 910.7 | 1000 | 8.9 | 1579 | 2000 | 21.1* | 1053 | 1000 | 5.3 | 939 | 1000 | 6.1 |
| Aroclor-1260 | 20 | 1 | 4 | 1999 | 2000 | 0.0 | 896.2 | 1000 | 10.4 | 1451 | 2000 | 27.4* | 1031 | 1000 | 3.1 | 925.1 | 1000 | 7.5 |
| Aroclor-1260 | 20 | 1 | 5 | 1999 | 2000 | 0.0 | 897.3 | 1000 | 10.3 | 1593 | 2000 | 20.3 | 1027 | 1000 | 2.7 | 943.2 | 1000 | 5.7 |
| DCB-Surrogate | 20 | 1 | 0 | 166.1 | 200 | 17.0 | 89.6 | 100 | 10.4 | 158.8 | 200 | 20.6* | 96 | 100 | 4.0 | 97.27 | 100 | 2.7 |
| Average Difference | 20 | 1 | 0 | | | 7.4 | | | 8.6 | | | 19.9 | | | 3.6 | | | 6.7 |
| TCMX-Surrogate | 20 | 2 | 0 | 238.5 | 200 | 19.3 | 102.6 | 100 | 2.6 | 203 | 200 | 1.5 | 87.5 | 100 | 12.5 | 96.86 | 100 | 3.1 |
| Aroclor-1016 | 20 | 2 | 1 | 2251 | 2000 | 12.5 | 1084 | 1000 | 8.4 | 2071 | 2000 | 3.6 | 880.3 | 1000 | 12.0 | 958.2 | 1000 | 4.2 |
| Aroclor-1016 | 20 | 2 | 2 | 2166 | 2000 | 8.3 | 1013 | 1000 | 1.3 | 1867 | 2000 | 6.7 | 850.3 | 1000 | 15.0 | 928.7 | 1000 | 7.1 |
| Aroclor-1016 | 20 | 2 | 3 | 2350 | 2000 | 17.5 | 1005 | 1000 | 0.5 | 1921 | 2000 | 3.9 | 800.7 | 1000 | 19.9 | 864.8 | 1000 | 13.5 |
| Aroclor-1016 | 20 | 2 | 4 | 2254 | 2000 | 12.7 | 992.4 | 1000 | 0.8 | 1872 | 2000 | 6.4 | 841 | 1000 | 15.9 | 903.2 | 1000 | 9.7 |
| Aroclor-1016 | 20 | 2 | 5 | 2210 | 2000 | 10.5 | 1019 | 1000 | 1.9 | 1870 | 2000 | 6.5 | 879.6 | 1000 | 12.0 | 929.6 | 1000 | 7.0 |
| Aroclor-1260 | 20 | 2 | 1 | 2745 | 2000 | 37.2* | 1115 | 1000 | 11.5 | 2118 | 2000 | 5.9 | 1013 | 1000 | 1.3 | 1062 | 1000 | 6.2 |
| Aroclor-1260 | 20 | 2 | 2 | 2291 | 2000 | 14.5 | 968.8 | 1000 | 3.1 | 1754 | 2000 | 12.3 | 830.5 | 1000 | 17.0 | 902.6 | 1000 | 9.7 |
| Aroclor-1260 | 20 | 2 | 3 | 2321 | 2000 | 16.1 | 981.8 | 1000 | 1.8 | 1858 | 2000 | 7.1 | 734.4 | 1000 | 26.6* | 813.3 | 1000 | 18.7 |
| Aroclor-1260 | 20 | 2 | 4 | 2326 | 2000 | 16.3 | 960.6 | 1000 | 3.9 | 1727 | 2000 | 13.7 | 920.3 | 1000 | 8.0 | 961.6 | 1000 | 3.8 |
| Aroclor-1260 | 20 | 2 | 5 | 2124 | 2000 | 6.2 | 978.9 | 1000 | 2.1 | 1838 | 2000 | 8.1 | 927.4 | 1000 | 7.3 | 974.2 | 1000 | 2.6 |
| DCB-Surrogate | 20 | 2 | 0 | 204.8 | 200 | 2.4 | 97.2 | 100 | 2.8 | 178.6 | 200 | 10.7 | 94.45 | 100 | 5.6 | 97.41 | 100 | 2.6 |
| Average Difference | 20 | 2 | 0 | | | 14.5 | | | 3.4 | | | 7.2 | | | 12.7 | | | 7.4 |

*Flags/Notes:* ** - Values outside of limits for this column/run*

# Form7

RtWindow Summary

**Method**: EPA 8082A

| | Data File: | 3G128892.D | 3G130616.D | 3G130521.D | 3G130543.D | 3G130567.D |
|---|---|---|---|---|---|---|
| | Calibration Name: | CAL 1660@50PPB | CAL 1660@50PPB | CAL 1660@2000PPB | CAL 1660@2000PPB | CAL 1660@2000PPB |
| | Calibration Date/Time | 7/19/2021 11:51:00 AM | 9/22/2021 12:31:00 PM | 9/19/2021 9:51:00 PM | 9/20/2021 3:17:00 AM | 9/21/2021 7:55:00 AM |

| Compound | Col | Mr | Cal RT | Limit | Cal RT | Limit | Cal RT | Limit | Cal RT | Limit | Cal RT | Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCMX-Surrogate | 1 | 0 | 3.91 | (3.85 - 3.97) | 3.90 | (3.84 - 3.96) | 3.91 | (3.85 - 3.97) | 3.91 | (3.85 - 3.97) | 3.91 | (3.85 - 3.97) |
| Aroclor-1016 | 1 | 1 | 4.44 | (4.40 - 4.48) | 4.42 | (4.38 - 4.46) | 4.42 | (4.38 - 4.46) | 4.43 | (4.39 - 4.47) | 4.43 | (4.39 - 4.47) |
| Aroclor-1016 | 1 | 2 | 4.81 | (4.77 - 4.85) | 4.79 | (4.75 - 4.83) | 4.80 | (4.76 - 4.84) | 4.80 | (4.76 - 4.84) | 4.80 | (4.76 - 4.84) |
| Aroclor-1016 | 1 | 3 | 5.28 | (5.24 - 5.32) | 5.26 | (5.22 - 5.30) | 5.27 | (5.23 - 5.31) | 5.27 | (5.23 - 5.31) | 5.27 | (5.23 - 5.31) |
| Aroclor-1016 | 1 | 4 | 5.53 | (5.49 - 5.57) | 5.51 | (5.47 - 5.55) | 5.52 | (5.48 - 5.56) | 5.52 | (5.48 - 5.56) | 5.52 | (5.48 - 5.56) |
| Aroclor-1016 | 1 | 5 | 5.65 | (5.61 - 5.69) | 5.63 | (5.59 - 5.67) | 5.63 | (5.59 - 5.67) | 5.63 | (5.59 - 5.67) | 5.64 | (5.60 - 5.68) |
| Aroclor-1260 | 1 | 1 | 7.17 | (7.13 - 7.21) | 7.15 | (7.11 - 7.19) | 7.15 | (7.11 - 7.19) | 7.15 | (7.11 - 7.19) | 7.16 | (7.12 - 7.20) |
| Aroclor-1260 | 1 | 2 | 7.42 | (7.38 - 7.46) | 7.40 | (7.36 - 7.44) | 7.41 | (7.37 - 7.45) | 7.41 | (7.37 - 7.45) | 7.41 | (7.37 - 7.45) |
| Aroclor-1260 | 1 | 3 | 7.62 | (7.58 - 7.66) | 7.60 | (7.56 - 7.64) | 7.61 | (7.57 - 7.65) | 7.61 | (7.57 - 7.65) | 7.61 | (7.57 - 7.65) |
| Aroclor-1260 | 1 | 4 | 8.21 | (8.17 - 8.25) | 8.19 | (8.15 - 8.23) | 8.20 | (8.16 - 8.24) | 8.20 | (8.16 - 8.24) | 8.20 | (8.16 - 8.24) |
| Aroclor-1260 | 1 | 5 | 8.95 | (8.91 - 8.99) | 8.92 | (8.88 - 8.96) | 8.92 | (8.88 - 8.96) | 8.92 | (8.88 - 8.96) | 8.93 | (8.89 - 8.97) |
| Aroclor-1221 | 1 | 1 | 4.22 | (4.18 - 4.26) | 4.20 | (4.16 - 4.24) | | | | | | |
| Aroclor-1221 | 1 | 2 | 4.37 | (4.33 - 4.41) | 4.35 | (4.31 - 4.39) | | | | | | |
| Aroclor-1221 | 1 | 3 | 4.44 | (4.40 - 4.48) | 4.42 | (4.38 - 4.46) | | | | | | |
| Aroclor-1232 | 1 | 1 | 4.44 | (4.40 - 4.48) | 4.43 | (4.39 - 4.47) | | | | | | |
| Aroclor-1232 | 1 | 2 | 4.81 | (4.77 - 4.85) | 4.80 | (4.76 - 4.84) | | | | | | |
| Aroclor-1232 | 1 | 3 | 5.28 | (5.24 - 5.32) | 5.27 | (5.23 - 5.31) | | | | | | |
| Aroclor-1232 | 1 | 4 | 5.42 | (5.38 - 5.46) | 5.41 | (5.37 - 5.45) | | | | | | |
| Aroclor-1232 | 1 | 5 | 5.89 | (5.85 - 5.93) | 5.88 | (5.84 - 5.92) | | | | | | |
| Aroclor-1242 | 1 | 1 | 4.44 | (4.40 - 4.48) | 4.42 | (4.38 - 4.46) | | | | | | |
| Aroclor-1242 | 1 | 2 | 4.81 | (4.77 - 4.85) | 4.79 | (4.75 - 4.83) | | | | | | |
| Aroclor-1242 | 1 | 3 | 5.28 | (5.24 - 5.32) | 5.26 | (5.22 - 5.30) | | | | | | |
| Aroclor-1242 | 1 | 4 | 5.65 | (5.61 - 5.69) | 5.63 | (5.59 - 5.67) | | | | | | |
| Aroclor-1242 | 1 | 5 | 5.89 | (5.85 - 5.93) | 5.87 | (5.83 - 5.91) | | | | | | |
| Aroclor-1248 | 1 | 1 | 4.81 | (4.77 - 4.85) | 4.79 | (4.75 - 4.83) | | | | | | |
| Aroclor-1248 | 1 | 2 | 5.28 | (5.24 - 5.32) | 5.26 | (5.22 - 5.30) | | | | | | |
| Aroclor-1248 | 1 | 3 | 5.63 | (5.59 - 5.67) | 5.61 | (5.57 - 5.65) | | | | | | |
| Aroclor-1248 | 1 | 4 | 5.89 | (5.85 - 5.93) | 5.87 | (5.83 - 5.91) | | | | | | |
| Aroclor-1248 | 1 | 5 | 6.60 | (6.56 - 6.64) | 6.58 | (6.54 - 6.62) | | | | | | |
| Aroclor-1254 | 1 | 1 | 6.80 | (6.76 - 6.84) | 6.78 | (6.74 - 6.82) | | | | | | |
| Aroclor-1254 | 1 | 2 | 7.01 | (6.97 - 7.05) | 6.99 | (6.95 - 7.03) | | | | | | |
| Aroclor-1254 | 1 | 3 | 7.17 | (7.13 - 7.21) | 7.15 | (7.11 - 7.19) | | | | | | |
| Aroclor-1254 | 1 | 4 | 7.29 | (7.25 - 7.33) | 7.27 | (7.23 - 7.31) | | | | | | |
| Aroclor-1254 | 1 | 5 | 7.69 | (7.65 - 7.73) | 7.66 | (7.62 - 7.70) | | | | | | |
| Aroclor-1262 | 1 | 1 | 7.85 | (7.81 - 7.89) | 7.83 | (7.79 - 7.87) | | | | | | |
| Aroclor-1262 | 1 | 2 | 8.87 | (8.83 - 8.91) | 8.84 | (8.80 - 8.88) | | | | | | |
| Aroclor-1262 | 1 | 3 | 8.93 | (8.89 - 8.97) | 8.91 | (8.87 - 8.95) | | | | | | |
| Aroclor-1262 | 1 | 4 | 9.69 | (9.65 - 9.73) | 9.65 | (9.61 - 9.69) | | | | | | |
| Aroclor-1262 | 1 | 5 | 10.05 | (10.01 - 10.09) | 10.02 | (9.98 - 10.06) | | | | | | |
| Aroclor-1268 | 1 | 1 | 8.21 | (8.17 - 8.25) | 8.19 | (8.15 - 8.23) | | | | | | |
| Aroclor-1268 | 1 | 2 | 8.53 | (8.49 - 8.57) | 8.52 | (8.48 - 8.56) | | | | | | |
| Aroclor-1268 | 1 | 3 | 9.11 | (9.07 - 9.15) | 9.10 | (9.06 - 9.14) | | | | | | |
| Aroclor-1268 | 1 | 4 | 9.22 | (9.18 - 9.26) | 9.20 | (9.16 - 9.24) | | | | | | |
| Aroclor-1268 | 1 | 5 | 10.06 | (10.02 - 10.10) | 10.03 | (9.99 - 10.07) | | | | | | |
| DCB-Surrogate | 1 | 0 | 10.28 | (10.22 - 10.34) | 10.25 | (10.19 - 10.31) | 10.25 | (10.19 - 10.31) | 10.25 | (10.19 - 10.31) | 10.26 | (10.20 - 10.32) |
| TCMX-Surrogate | 2 | 0 | 3.95 | (3.89 - 4.01) | 3.93 | (3.87 - 3.99) | 3.94 | (3.88 - 4.00) | 3.94 | (3.88 - 4.00) | 3.94 | (3.88 - 4.00) |
| Aroclor-1016 | 2 | 1 | 4.55 | (4.51 - 4.59) | 4.53 | (4.49 - 4.57) | 4.54 | (4.50 - 4.58) | 4.54 | (4.50 - 4.58) | 4.54 | (4.50 - 4.58) |
| Aroclor-1016 | 2 | 2 | 4.98 | (4.94 - 5.02) | 4.96 | (4.92 - 5.00) | 4.97 | (4.93 - 5.01) | 4.97 | (4.93 - 5.01) | 4.97 | (4.93 - 5.01) |
| Aroclor-1016 | 2 | 3 | 5.36 | (5.32 - 5.40) | 5.34 | (5.30 - 5.38) | 5.35 | (5.31 - 5.39) | 5.35 | (5.31 - 5.39) | 5.35 | (5.31 - 5.39) |
| Aroclor-1016 | 2 | 4 | 5.69 | (5.65 - 5.73) | 5.67 | (5.63 - 5.71) | 5.68 | (5.64 - 5.72) | 5.68 | (5.64 - 5.72) | 5.68 | (5.64 - 5.72) |
| Aroclor-1016 | 2 | 5 | 6.06 | (6.02 - 6.10) | 6.05 | (6.01 - 6.09) | 6.05 | (6.01 - 6.09) | 6.06 | (6.02 - 6.10) | 6.06 | (6.02 - 6.10) |
| Aroclor-1260 | 2 | 1 | 7.38 | (7.34 - 7.42) | 7.36 | (7.32 - 7.40) | 7.37 | (7.33 - 7.41) | 7.37 | (7.33 - 7.41) | 7.37 | (7.33 - 7.41) |
| Aroclor-1260 | 2 | 2 | 7.46 | (7.42 - 7.50) | 7.44 | (7.40 - 7.48) | 7.45 | (7.41 - 7.49) | 7.45 | (7.41 - 7.49) | 7.45 | (7.41 - 7.49) |
| Aroclor-1260 | 2 | 3 | 8.10 | (8.06 - 8.14) | 8.08 | (8.04 - 8.12) | 8.09 | (8.05 - 8.13) | 8.09 | (8.05 - 8.13) | 8.09 | (8.05 - 8.13) |
| Aroclor-1260 | 2 | 4 | 8.46 | (8.42 - 8.50) | 8.44 | (8.40 - 8.48) | 8.45 | (8.41 - 8.49) | 8.45 | (8.41 - 8.49) | 8.45 | (8.41 - 8.49) |
| Aroclor-1260 | 2 | 5 | 9.17 | (9.13 - 9.21) | 9.15 | (9.11 - 9.19) | 9.16 | (9.12 - 9.20) | 9.16 | (9.12 - 9.20) | 9.16 | (9.12 - 9.20) |
| Aroclor-1221 | 2 | 1 | 4.33 | (4.29 - 4.37) | 4.31 | (4.27 - 4.35) | | | | | | |
| Aroclor-1221 | 2 | 2 | 4.48 | (4.44 - 4.52) | 4.46 | (4.42 - 4.50) | | | | | | |
| Aroclor-1221 | 2 | 3 | 4.55 | (4.51 - 4.59) | 4.53 | (4.49 - 4.57) | | | | | | |
| Aroclor-1232 | 2 | 1 | 4.55 | (4.51 - 4.59) | 4.53 | (4.49 - 4.57) | | | | | | |
| Aroclor-1232 | 2 | 2 | 4.98 | (4.94 - 5.02) | 4.96 | (4.92 - 5.00) | | | | | | |
| Aroclor-1232 | 2 | 3 | 5.36 | (5.32 - 5.40) | 5.34 | (5.30 - 5.38) | | | | | | |
| Aroclor-1232 | 2 | 4 | 6.21 | (6.17 - 6.25) | 6.19 | (6.15 - 6.23) | | | | | | |
| Aroclor-1232 | 2 | 5 | 6.29 | (6.25 - 6.33) | 6.27 | (6.23 - 6.31) | | | | | | |
| Aroclor-1242 | 2 | 1 | 4.55 | (4.51 - 4.59) | 4.53 | (4.49 - 4.57) | | | | | | |
| Aroclor-1242 | 2 | 2 | 4.98 | (4.94 - 5.02) | 4.96 | (4.92 - 5.00) | | | | | | |
| Aroclor-1242 | 2 | 3 | 5.36 | (5.32 - 5.40) | 5.34 | (5.30 - 5.38) | | | | | | |
| Aroclor-1242 | 2 | 4 | 5.69 | (5.65 - 5.73) | 5.67 | (5.63 - 5.71) | | | | | | |
| Aroclor-1242 | 2 | 5 | 6.06 | (6.02 - 6.10) | 6.05 | (6.01 - 6.09) | | | | | | |
| Aroclor-1248 | 2 | 1 | 4.98 | (4.94 - 5.02) | 4.96 | (4.92 - 5.00) | | | | | | |
| Aroclor-1248 | 2 | 2 | 5.36 | (5.32 - 5.40) | 5.34 | (5.30 - 5.38) | | | | | | |
| Aroclor-1248 | 2 | 3 | 5.69 | (5.65 - 5.73) | 5.67 | (5.63 - 5.71) | | | | | | |
| Aroclor-1248 | 2 | 4 | 6.21 | (6.17 - 6.25) | 6.19 | (6.15 - 6.23) | | | | | | |
| Aroclor-1248 | 2 | 5 | 6.34 | (6.30 - 6.38) | 6.32 | (6.28 - 6.36) | | | | | | |
| Aroclor-1254 | 2 | 1 | 6.57 | (6.53 - 6.61) | 6.55 | (6.51 - 6.59) | | | | | | |
| Aroclor-1254 | 2 | 2 | 6.91 | (6.87 - 6.95) | 6.89 | (6.85 - 6.93) | | | | | | |
| Aroclor-1254 | 2 | 3 | 7.31 | (7.27 - 7.35) | 7.29 | (7.25 - 7.33) | | | | | | |
| Aroclor-1254 | 2 | 4 | 7.82 | (7.78 - 7.86) | 7.80 | (7.76 - 7.84) | | | | | | |
| Aroclor-1254 | 2 | 5 | 8.52 | (8.48 - 8.56) | 8.50 | (8.46 - 8.54) | | | | | | |
| Aroclor-1262 | 2 | 1 | 7.89 | (7.85 - 7.93) | 7.87 | (7.83 - 7.91) | | | | | | |
| Aroclor-1262 | 2 | 2 | 9.05 | (9.01 - 9.09) | 9.03 | (8.99 - 9.07) | | | | | | |
| Aroclor-1262 | 2 | 3 | 9.17 | (9.13 - 9.21) | 9.14 | (9.10 - 9.18) | | | | | | |
| Aroclor-1262 | 2 | 4 | 9.78 | (9.74 - 9.82) | 9.76 | (9.72 - 9.80) | | | | | | |
| Aroclor-1262 | 2 | 5 | 10.35 | (10.31 - 10.39) | 10.32 | (10.28 - 10.36) | | | | | | |
| Aroclor-1268 | 2 | 1 | 8.56 | (8.52 - 8.60) | 8.54 | (8.50 - 8.58) | | | | | | |
| Aroclor-1268 | 2 | 2 | 8.60 | (8.56 - 8.64) | 8.58 | (8.54 - 8.62) | | | | | | |
| Aroclor-1268 | 2 | 3 | 9.52 | (9.48 - 9.56) | 9.50 | (9.46 - 9.54) | | | | | | |
| Aroclor-1268 | 2 | 4 | 9.68 | (9.64 - 9.72) | 9.66 | (9.62 - 9.70) | | | | | | |
| Aroclor-1268 | 2 | 5 | 10.35 | (10.31 - 10.39) | 10.33 | (10.29 - 10.37) | | | | | | |
| DCB-Surrogate | 2 | 0 | 10.92 | (10.86 - 10.98) | 10.89 | (10.83 - 10.95) | 10.90 | (10.84 - 10.96) | 10.90 | (10.84 - 10.96) | 10.90 | (10.84 - 10.96) |

# Form7
RtWindow Summary

Method: EPA 8082A

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Data File:** | | | 3G130588.D | | 3G130715.D | | 3G130755.D | | | | |
| **Calibration Name:** | | | CAL 1660@2000PPB | | CAL 1660@1000PPB | | CAL 1660@1000PPB | | | | |
| **Calibration Date/Time** | | | 9/21/2021 4:11:00 PM | | 9/27/2021 10:02:00 PM | | 9/29/2021 9:01:00 AM | | | | |
| Compound | Col | Mr | Cal RT | Limit | Cal RT | Limit | Cal RT | Limit | Cal RT | Limit | Cal RT | Limit |
| TCMX-Surrogate | 1 | 0 | 3.91 | (3.85 - 3.97) | 3.90 | (3.84 - 3.96) | 3.90 | (3.84 - 3.96) | | | | |
| Aroclor-1016 | 1 | 1 | 4.43 | (4.39 - 4.47) | 4.42 | (4.38 - 4.46) | 4.42 | (4.38 - 4.46) | | | | |
| Aroclor-1016 | 1 | 2 | 4.81 | (4.76 - 4.84) | 4.79 | (4.75 - 4.83) | 4.79 | (4.75 - 4.83) | | | | |
| Aroclor-1016 | 1 | 3 | 5.28 | (5.24 - 5.32) | 5.26 | (5.22 - 5.30) | 5.26 | (5.22 - 5.30) | | | | |
| Aroclor-1016 | 1 | 4 | 5.53 | (5.49 - 5.57) | 5.51 | (5.47 - 5.55) | 5.51 | (5.47 - 5.55) | | | | |
| Aroclor-1016 | 1 | 5 | 5.64 | (5.60 - 5.68) | 5.63 | (5.59 - 5.67) | 5.63 | (5.59 - 5.67) | | | | |
| Aroclor-1260 | 1 | 1 | 7.16 | (7.12 - 7.20) | 7.15 | (7.11 - 7.19) | 7.15 | (7.11 - 7.19) | | | | |
| Aroclor-1260 | 1 | 2 | 7.42 | (7.38 - 7.46) | 7.40 | (7.36 - 7.44) | 7.40 | (7.36 - 7.44) | | | | |
| Aroclor-1260 | 1 | 3 | 7.62 | (7.58 - 7.66) | 7.60 | (7.56 - 7.64) | 7.60 | (7.56 - 7.64) | | | | |
| Aroclor-1260 | 1 | 4 | 8.21 | (8.17 - 8.25) | 8.19 | (8.15 - 8.23) | 8.19 | (8.15 - 8.23) | | | | |
| Aroclor-1260 | 1 | 5 | 8.93 | (8.89 - 8.97) | 8.92 | (8.88 - 8.96) | 8.92 | (8.88 - 8.96) | | | | |
| Aroclor-1221 | 1 | 1 | | | | | | | | | | |
| Aroclor-1221 | 1 | 2 | | | | | | | | | | |
| Aroclor-1221 | 1 | 3 | | | | | | | | | | |
| Aroclor-1232 | 1 | 1 | | | | | | | | | | |
| Aroclor-1232 | 1 | 2 | | | | | | | | | | |
| Aroclor-1232 | 1 | 3 | | | | | | | | | | |
| Aroclor-1232 | 1 | 4 | | | | | | | | | | |
| Aroclor-1232 | 1 | 5 | | | | | | | | | | |
| Aroclor-1242 | 1 | 1 | | | | | | | | | | |
| Aroclor-1242 | 1 | 2 | | | | | | | | | | |
| Aroclor-1242 | 1 | 3 | | | | | | | | | | |
| Aroclor-1242 | 1 | 4 | | | | | | | | | | |
| Aroclor-1242 | 1 | 5 | | | | | | | | | | |
| Aroclor-1248 | 1 | 1 | | | | | | | | | | |
| Aroclor-1248 | 1 | 2 | | | | | | | | | | |
| Aroclor-1248 | 1 | 3 | | | | | | | | | | |
| Aroclor-1248 | 1 | 4 | | | | | | | | | | |
| Aroclor-1248 | 1 | 5 | | | | | | | | | | |
| Aroclor-1254 | 1 | 1 | | | | | | | | | | |
| Aroclor-1254 | 1 | 2 | | | | | | | | | | |
| Aroclor-1254 | 1 | 3 | | | | | | | | | | |
| Aroclor-1254 | 1 | 4 | | | | | | | | | | |
| Aroclor-1254 | 1 | 5 | | | | | | | | | | |
| Aroclor-1262 | 1 | 1 | | | | | | | | | | |
| Aroclor-1262 | 1 | 2 | | | | | | | | | | |
| Aroclor-1262 | 1 | 3 | | | | | | | | | | |
| Aroclor-1262 | 1 | 4 | | | | | | | | | | |
| Aroclor-1262 | 1 | 5 | | | | | | | | | | |
| Aroclor-1268 | 1 | 1 | | | | | | | | | | |
| Aroclor-1268 | 1 | 2 | | | | | | | | | | |
| Aroclor-1268 | 1 | 3 | | | | | | | | | | |
| Aroclor-1268 | 1 | 4 | | | | | | | | | | |
| Aroclor-1268 | 1 | 5 | | | | | | | | | | |
| DCB-Surrogate | 1 | 0 | 10.26 | (10.20 - 10.32) | 10.25 | (10.19 - 10.31) | 10.25 | (10.19 - 10.31) | | | | |
| TCMX-Surrogate | 2 | 0 | 3.94 | (3.88 - 4.00) | 3.93 | (3.87 - 3.99) | 3.93 | (3.87 - 3.99) | | | | |
| Aroclor-1016 | 2 | 1 | 4.54 | (4.50 - 4.58) | 4.53 | (4.49 - 4.57) | 4.53 | (4.49 - 4.57) | | | | |
| Aroclor-1016 | 2 | 2 | 4.97 | (4.93 - 5.01) | 4.96 | (4.92 - 5.00) | 4.96 | (4.92 - 5.00) | | | | |
| Aroclor-1016 | 2 | 3 | 5.35 | (5.31 - 5.39) | 5.35 | (5.30 - 5.38) | 5.34 | (5.30 - 5.38) | | | | |
| Aroclor-1016 | 2 | 4 | 5.68 | (5.64 - 5.72) | 5.67 | (5.63 - 5.71) | 5.67 | (5.63 - 5.71) | | | | |
| Aroclor-1016 | 2 | 5 | 6.06 | (6.02 - 6.10) | 6.05 | (6.01 - 6.09) | 6.05 | (6.01 - 6.09) | | | | |
| Aroclor-1260 | 2 | 1 | 7.37 | (7.33 - 7.41) | 7.36 | (7.32 - 7.40) | 7.36 | (7.32 - 7.40) | | | | |
| Aroclor-1260 | 2 | 2 | 7.46 | (7.42 - 7.50) | 7.45 | (7.41 - 7.49) | 7.44 | (7.40 - 7.48) | | | | |
| Aroclor-1260 | 2 | 3 | 8.09 | (8.05 - 8.13) | 8.08 | (8.04 - 8.12) | 8.08 | (8.04 - 8.12) | | | | |
| Aroclor-1260 | 2 | 4 | 8.45 | (8.41 - 8.49) | 8.44 | (8.40 - 8.48) | 8.44 | (8.40 - 8.48) | | | | |
| Aroclor-1260 | 2 | 5 | 9.16 | (9.12 - 9.20) | 9.15 | (9.11 - 9.19) | 9.15 | (9.11 - 9.19) | | | | |
| Aroclor-1221 | 2 | 1 | | | | | | | | | | |
| Aroclor-1221 | 2 | 2 | | | | | | | | | | |
| Aroclor-1221 | 2 | 3 | | | | | | | | | | |
| Aroclor-1232 | 2 | 1 | | | | | | | | | | |
| Aroclor-1232 | 2 | 2 | | | | | | | | | | |
| Aroclor-1232 | 2 | 3 | | | | | | | | | | |
| Aroclor-1232 | 2 | 4 | | | | | | | | | | |
| Aroclor-1232 | 2 | 5 | | | | | | | | | | |
| Aroclor-1242 | 2 | 1 | | | | | | | | | | |
| Aroclor-1242 | 2 | 2 | | | | | | | | | | |
| Aroclor-1242 | 2 | 3 | | | | | | | | | | |
| Aroclor-1242 | 2 | 4 | | | | | | | | | | |
| Aroclor-1242 | 2 | 5 | | | | | | | | | | |
| Aroclor-1248 | 2 | 1 | | | | | | | | | | |
| Aroclor-1248 | 2 | 2 | | | | | | | | | | |
| Aroclor-1248 | 2 | 3 | | | | | | | | | | |
| Aroclor-1248 | 2 | 4 | | | | | | | | | | |
| Aroclor-1248 | 2 | 5 | | | | | | | | | | |
| Aroclor-1254 | 2 | 1 | | | | | | | | | | |
| Aroclor-1254 | 2 | 2 | | | | | | | | | | |
| Aroclor-1254 | 2 | 3 | | | | | | | | | | |
| Aroclor-1254 | 2 | 4 | | | | | | | | | | |
| Aroclor-1254 | 2 | 5 | | | | | | | | | | |
| Aroclor-1262 | 2 | 1 | | | | | | | | | | |
| Aroclor-1262 | 2 | 2 | | | | | | | | | | |
| Aroclor-1262 | 2 | 3 | | | | | | | | | | |
| Aroclor-1262 | 2 | 4 | | | | | | | | | | |
| Aroclor-1262 | 2 | 5 | | | | | | | | | | |
| Aroclor-1268 | 2 | 1 | | | | | | | | | | |
| Aroclor-1268 | 2 | 2 | | | | | | | | | | |
| Aroclor-1268 | 2 | 3 | | | | | | | | | | |
| Aroclor-1268 | 2 | 4 | | | | | | | | | | |
| Aroclor-1268 | 2 | 5 | | | | | | | | | | |
| DCB-Surrogate | 2 | 0 | 10.90 | (10.84 - 10.96) | 10.89 | (10.83 - 10.95) | 10.89 | (10.83 - 10.95) | | | | |

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130521.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Sep 2021 21:51
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 11:57:57 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

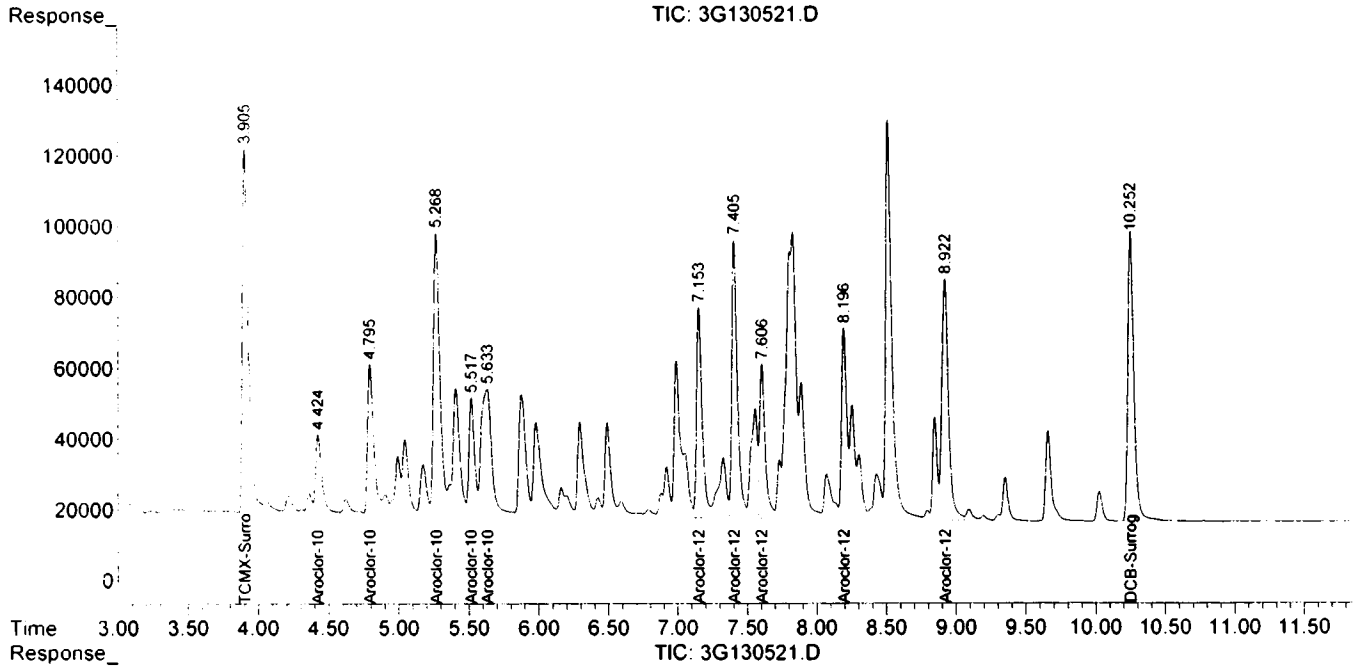
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.906 | 3.940 | 3067463 | 3871325 | 191.015 | 242.873 # |
| 2)Aroclor-1016 {1} | 4.425 | 4.541 | 703992 | 796215 | 1921.961 | 2254.567 |
| 3)Aroclor-1016 {2} | 4.796 | 4.967 | 1264572 | 1628896 | 1785.796 | 2194.490 |
| 4)Aroclor-1016 {3} | 5.269 | 5.351 | 2511331 | 3318480 | 1796.406 | 2355.534 # |
| 5)Aroclor-1016 {4} | 5.518 | 5.680 | 904067 | 1421306 | 1940.751 | 2276.786 |
| 6)Aroclor-1016 {5} | 5.633 | 6.054 | 1897359 | 1024682 | 1939.714 | 2243.768 |
| 7)Aroclor-1260 {1} | 7.154 | 7.370 | 1639949 | 2148917 | 1859.895 | 2777.755 # |
| 8)Aroclor-1260 {2} | 7.406 | 7.453 | 2186205 | 2439733 | 1954.640 | 2296.896 |
| 9)Aroclor-1260 {3} | 7.606 | 8.087 | 1249457 | 1216902 | 2059.286 | 2305.230 |
| 10)Aroclor-1260 {4} | 8.197 | 8.447 | 1370561 | 2001100 | 1987.344 | 2324.985m |
| 11)Aroclor-1260 {5} | 8.923 | 9.155 | 2297504 | 1835718 | 2003.580 | 2094.053m |
| 45)DCB-Surrogate | 10.253 | 10.898 | 2478232 | 3228482 | 166.674 | 211.146 # |

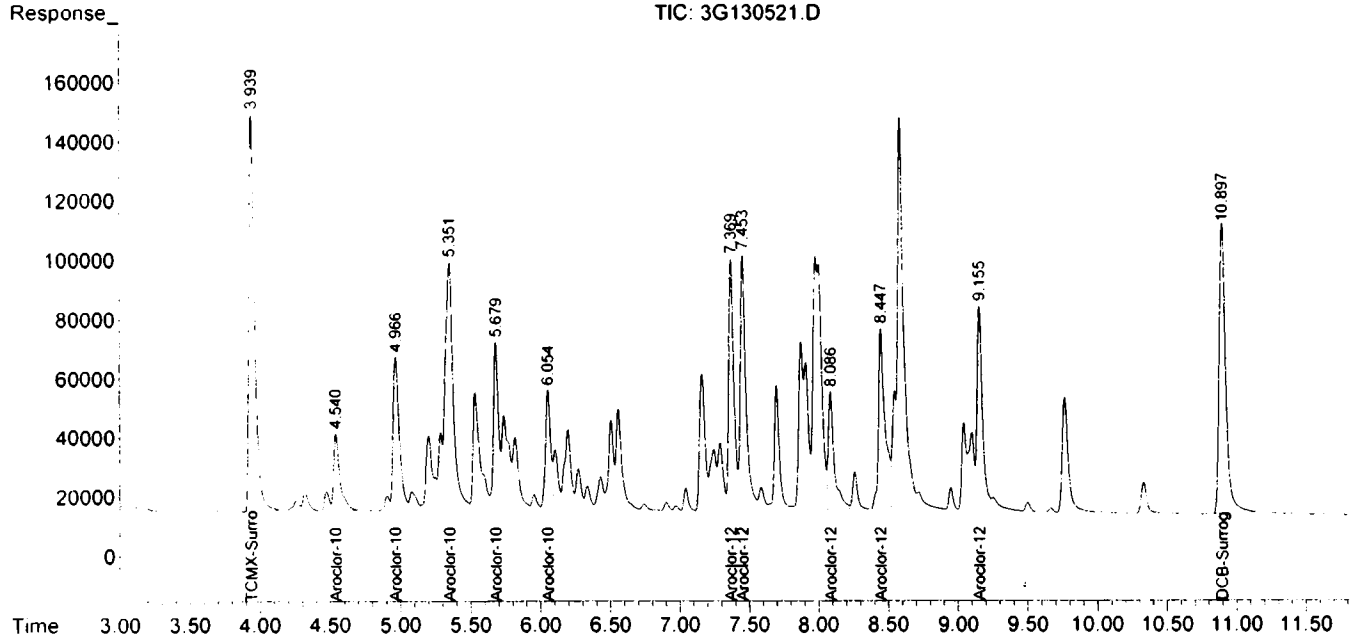
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130521.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19 Sep 2021 21:51
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 11:57:57 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130543.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 3:17
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:09:28 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

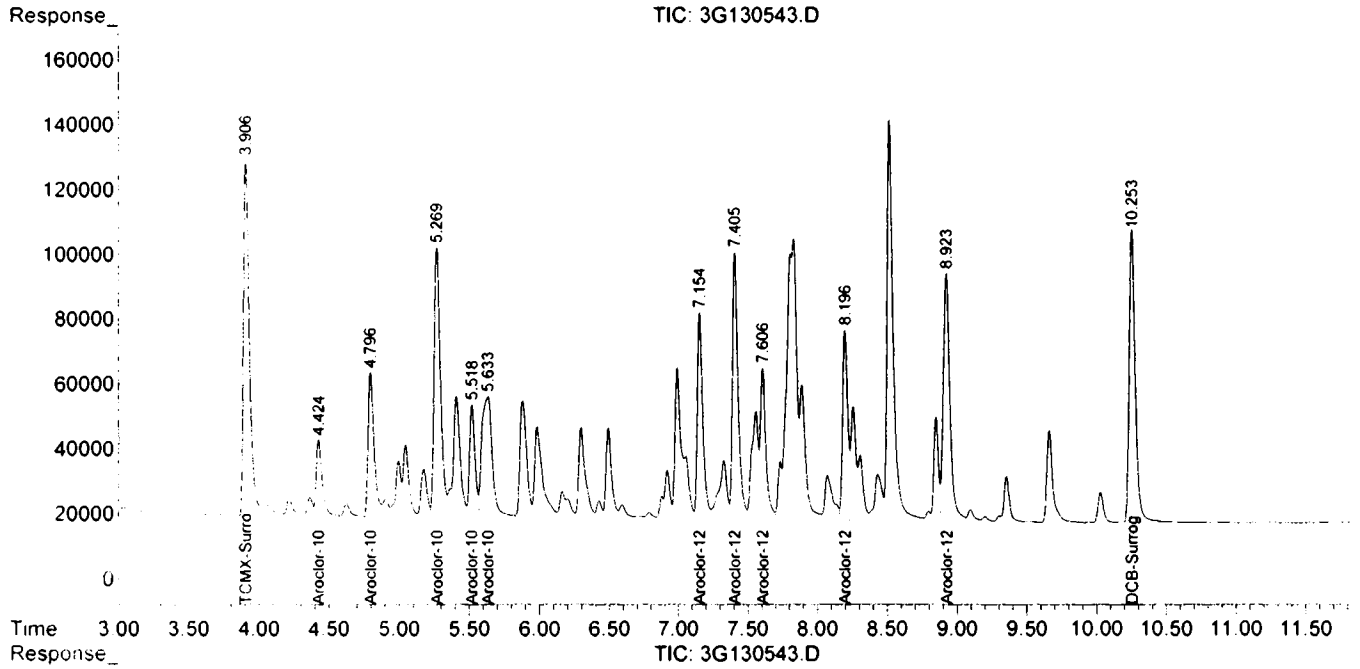
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.906 | 3.941 | 3246298 | 3976161 | 202.151 | 249.450 |
| 2)Aroclor-1016 {1} | 4.425 | 4.542 | 723186 | 820540 | 1974.361 | 2323.447 |
| 3)Aroclor-1016 {2} | 4.797 | 4.968 | 1314056 | 1671936 | 1855.676 | 2252.474 |
| 4)Aroclor-1016 {3} | 5.270 | 5.353 | 2624177 | 3406532 | 1877.127 | 2418.036 # |
| 5)Aroclor-1016 {4} | 5.519 | 5.681 | 942371 | 1472556 | 2022.979 | 2358.883 |
| 6)Aroclor-1016 {5} | 5.634 | 6.056 | 1966983 | 1062402 | 2010.892 | 2326.365 |
| 7)Aroclor-1260 {1} | 7.154 | 7.371 | 1740166 | 2230470 | 1973.553 | 2888.429 # |
| 8)Aroclor-1260 {2} | 7.406 | 7.455 | 2317439 | 2544836 | 2071.974 | 2395.846 |
| 9)Aroclor-1260 {3} | 7.607 | 8.088 | 1347252 | 1264313 | 2220.465 | 2395.042 |
| 10)Aroclor-1260 {4} | 8.197 | 8.448 | 1492957 | 2076261 | 2164.820 | 2412.311m |
| 11)Aroclor-1260 {5} | 8.923 | 9.157 | 2550563 | 1965350 | 2224.264 | 2241.929m |
| 45)DCB-Surrogate | 10.254 | 10.899 | 2728228 | 3342192 | 183.487 | 218.583 |

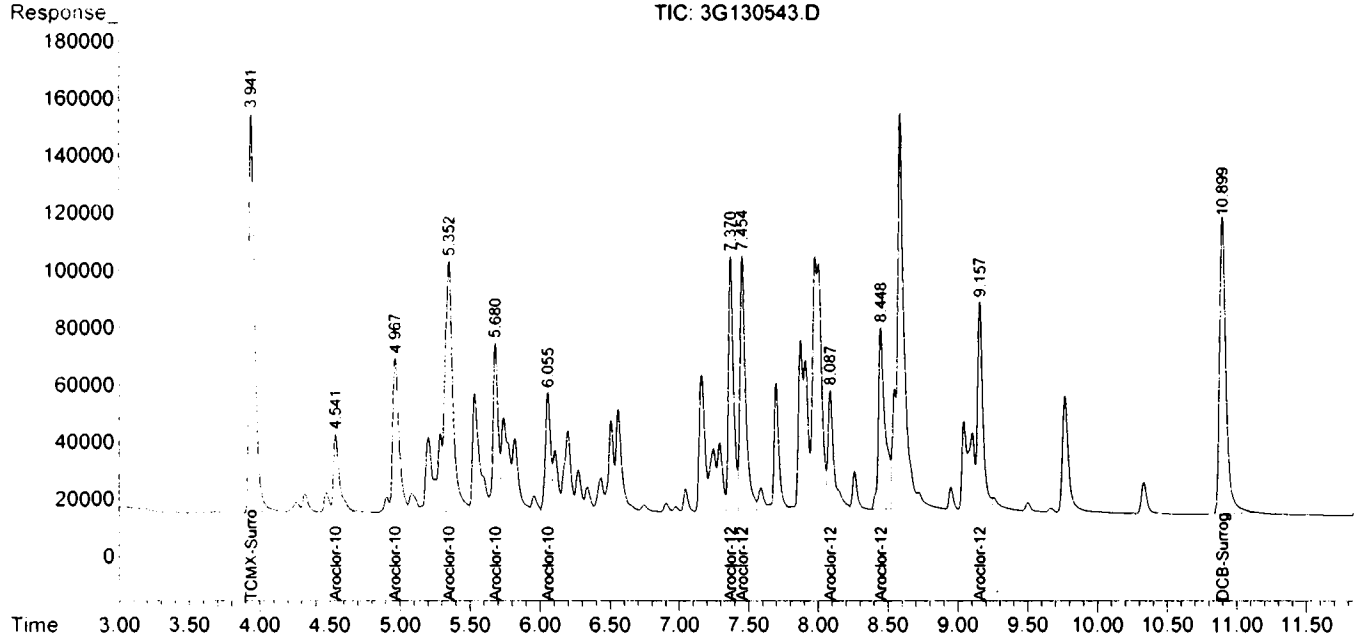
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130543.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 3:17
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:09:28 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130564.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 12:45
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 65 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 13:04:42 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

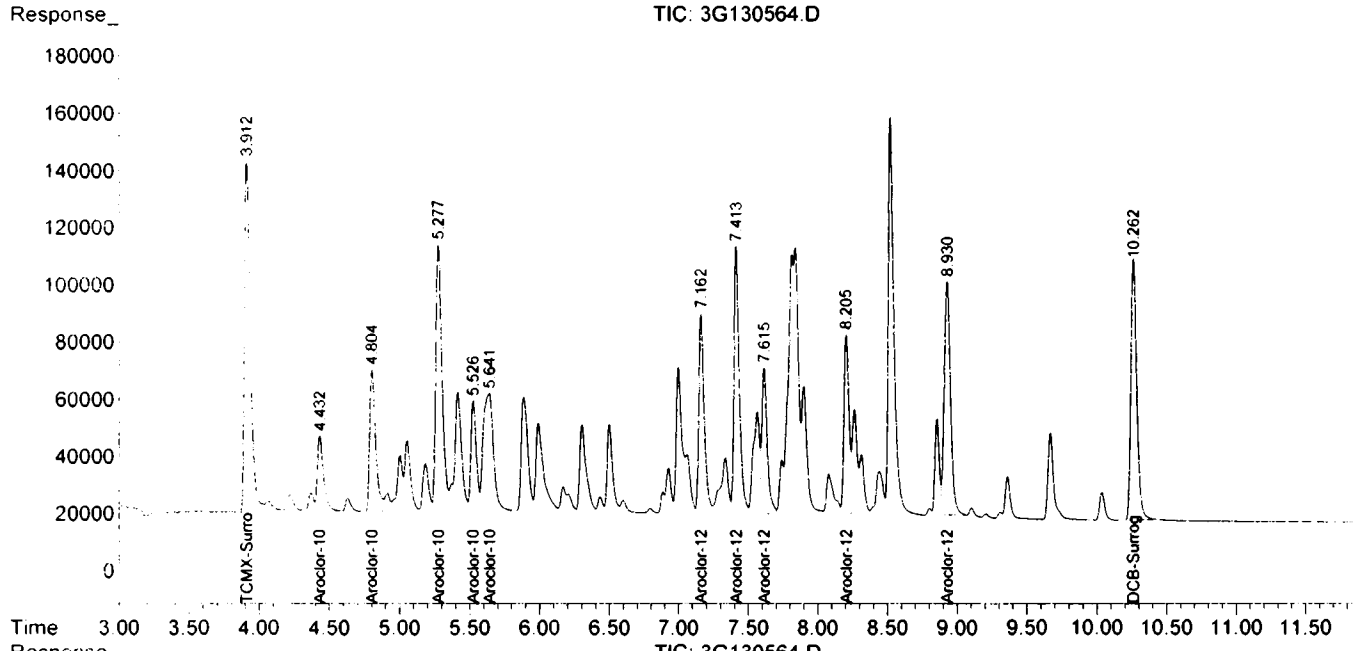
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.912 | 3.942 | 3673613 | 3775280 | 228.761m | 236.848 |
| 2)Aroclor-1016 {1} | 4.432 | 4.543 | 785472 | 763815 | 2144.408 | 2162.825 |
| 3)Aroclor-1016 {2} | 4.804 | 4.969 | 1461044 | 1581858 | 2063.249 | 2131.119 |
| 4)Aroclor-1016 {3} | 5.278 | 5.353 | 2913608 | 3197866 | 2084.163 | 2269.920 |
| 5)Aroclor-1016 {4} | 5.526 | 5.682 | 1026484 | 1396539 | 2203.542 | 2237.112 |
| 6)Aroclor-1016 {5} | 5.642 | 6.057 | 2070945 | 1007905 | 2117.175 | 2207.031 |
| 7)Aroclor-1260 {1} | 7.163 | 7.372 | 1847840 | 2145847 | 2095.668 | 2773.589 # |
| 8)Aroclor-1260 {2} | 7.414 | 7.456 | 2481315 | 2420037 | 2218.492 | 2278.353 |
| 9)Aroclor-1260 {3} | 7.616 | 8.089 | 1400952 | 1208944 | 2308.971 | 2290.154 |
| 10)Aroclor-1260 {4} | 8.206 | 8.450 | 1579055 | 2042150 | 2289.665 | 2372.679m |
| 11)Aroclor-1260 {5} | 8.931 | 9.159 | 2566468 | 1852209 | 2238.134 | 2112.865m |
| 45)DCB-Surrogate | 10.263 | 10.902 | 2666920 | 3190009 | 179.364 | 208.630m |

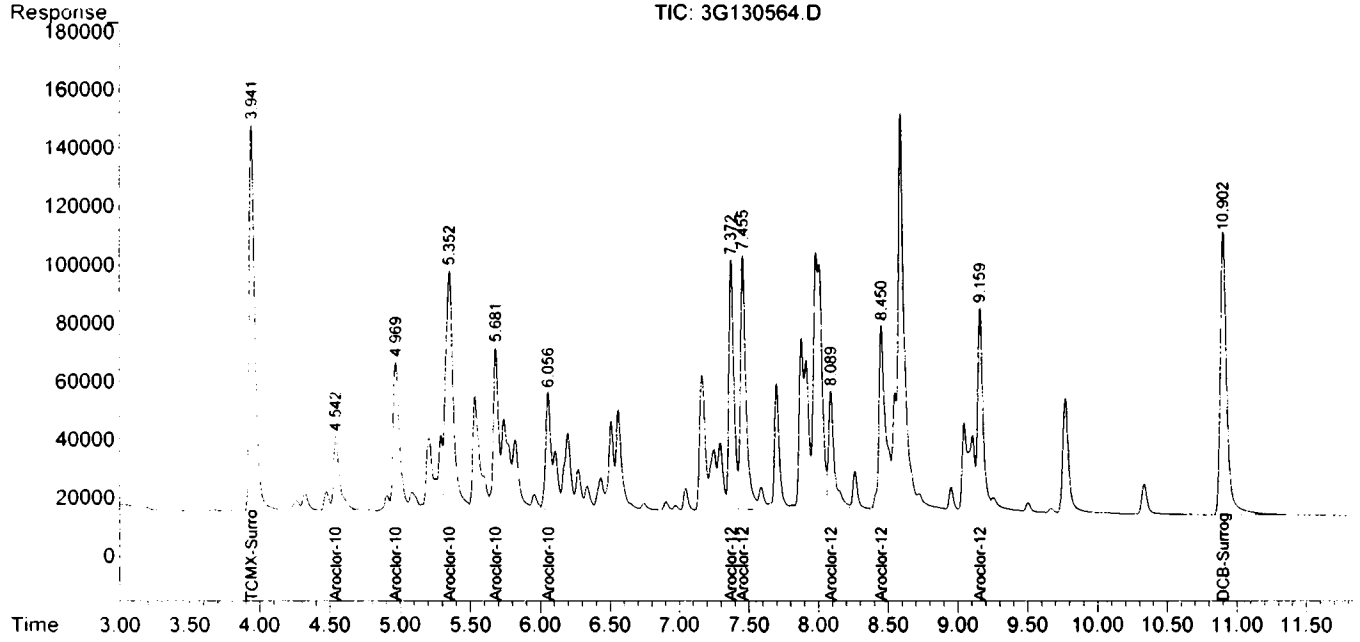
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130564.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 12:45
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 65 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 13:04:42 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130567.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 7:55
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 99 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 21 08:35:23 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

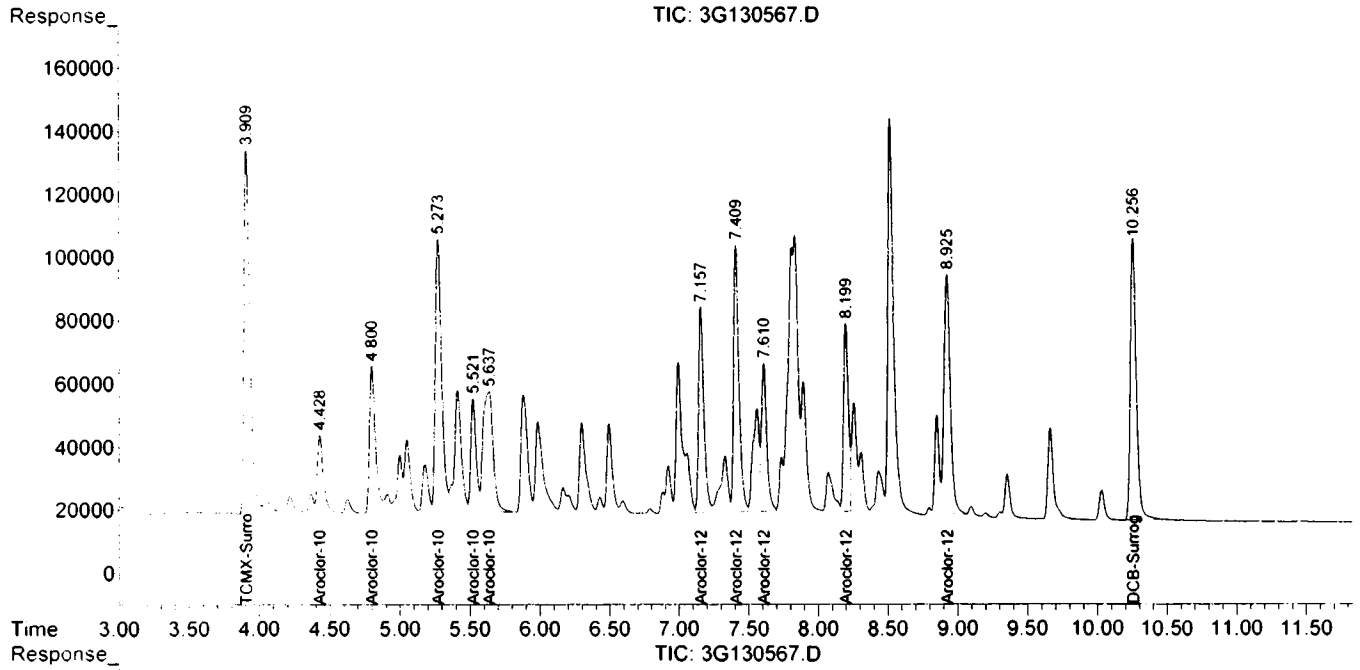
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 3.910 | 3.942 | 3224838 | 3610929 | 200.815 | 226.537 | |
| 2)Aroclor-1016 {1} | 4.429 | 4.542 | 723118 | 692859 | 1974.175 | 1961.905 | |
| 3)Aroclor-1016 {2} | 4.801 | 4.968 | 1356437 | 1490603 | 1915.526 | 2008.178 | |
| 4)Aroclor-1016 {3} | 5.273 | 5.352 | 2712791 | 2871714 | 1940.514 | 2038.409 | |
| 5)Aroclor-1016 {4} | 5.522 | 5.681 | 952816 | 1278341 | 2045.400 | 2047.770 | |
| 6)Aroclor-1016 {5} | 5.637 | 6.056 | 1932162 | 931368 | 1975.294 | 2039.436 | |
| 7)Aroclor-1260 {1} | 7.158 | 7.372 | 1713605 | 2017574 | 1943.429 | 2599.512 | # |
| 8)Aroclor-1260 {2} | 7.409 | 7.455 | 2267586 | 2245686 | 2027.401 | 2114.210 | |
| 9)Aroclor-1260 {3} | 7.611 | 8.089 | 1256050 | 1169557 | 2070.151 | 2215.542 | |
| 10)Aroclor-1260 {4} | 8.200 | 8.450 | 1453573 | 1778346 | 2107.713 | 2066.178 | |
| 11)Aroclor-1260 {5} | 8.926 | 9.159 | 2410972 | 1927355 | 2102.531 | 2198.586 | |
| 45)DCB-Surrogate | 10.257 | 10.901 | 2609219 | 3116406 | 175.483 | 203.816 | |

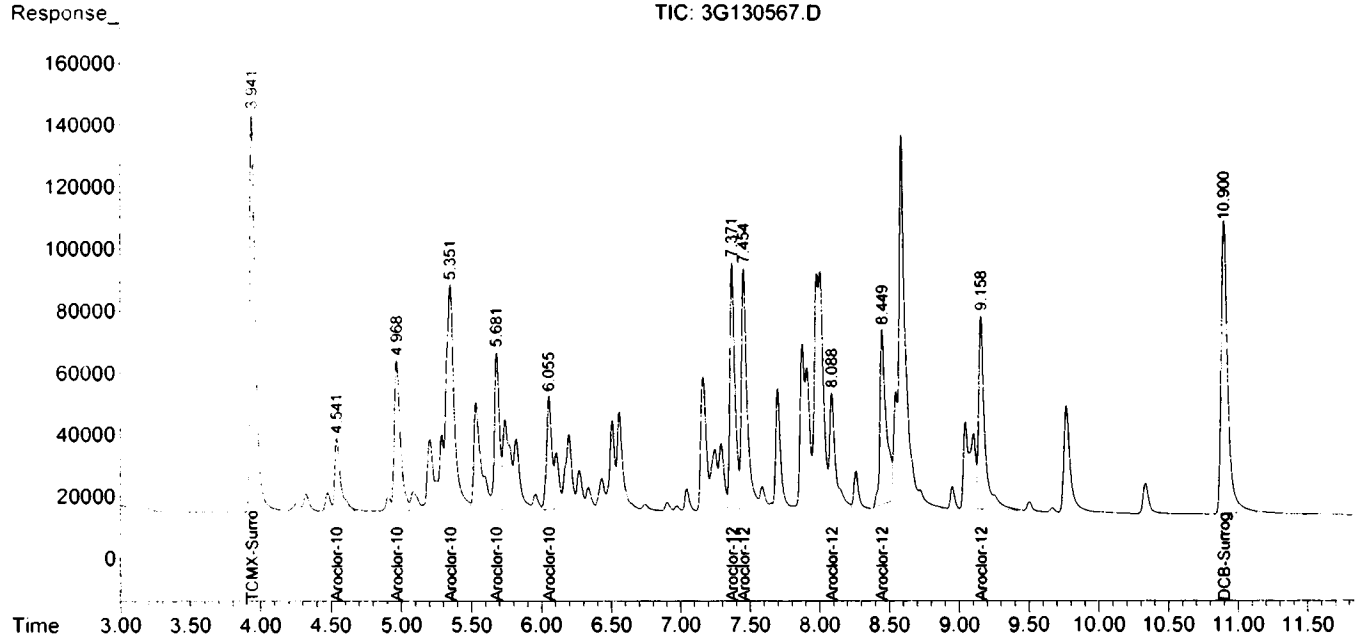
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130567.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 7:55
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 99 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 21 08:35:23 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130588.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 16:11
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 99 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 21 16:33:30 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

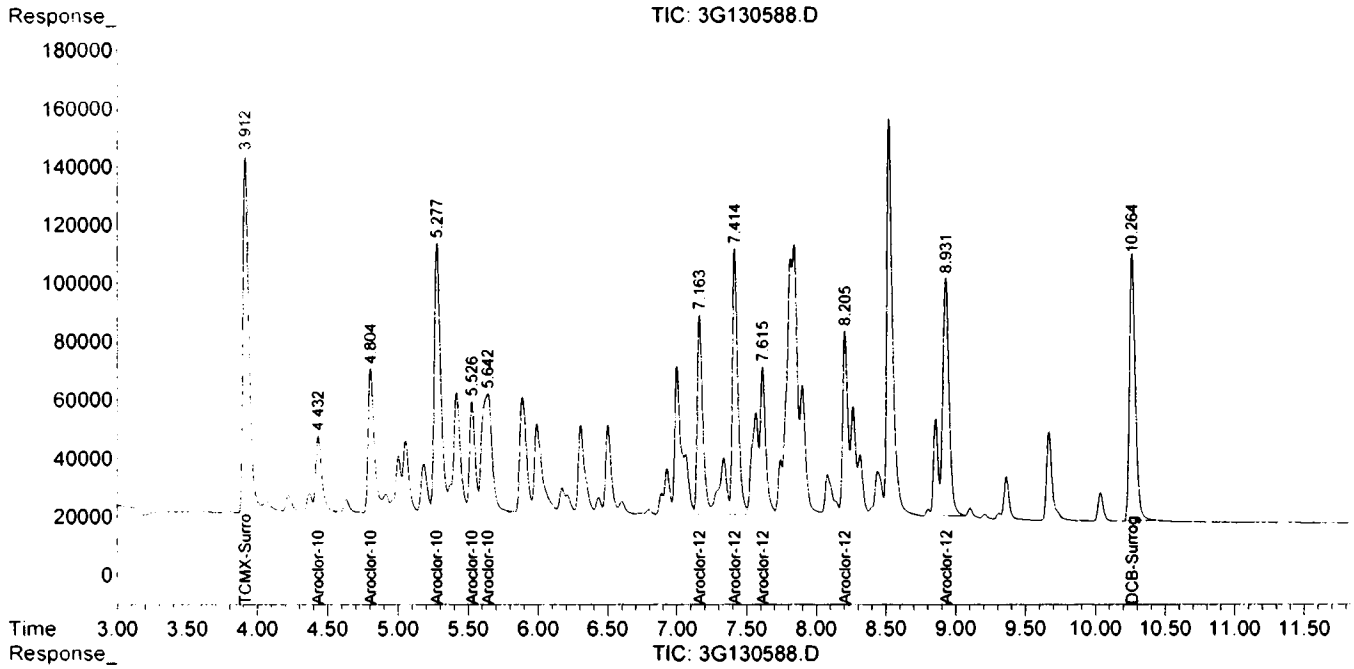
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 3.913 | 3.943 | 3490882 | 3649982 | 217.382 | 228.987 | |
| 2)Aroclor-1016 {1} | 4.433 | 4.543 | 783631 | 714848 | 2139.381 | 2024.169 | |
| 3)Aroclor-1016 {2} | 4.805 | 4.970 | 1452854 | 1514854 | 2051.683 | 2040.849 | |
| 4)Aroclor-1016 {3} | 5.278 | 5.353 | 2890530 | 2962320 | 2067.654 | 2102.724 | |
| 5)Aroclor-1016 {4} | 5.527 | 5.683 | 1023589 | 1318583 | 2197.327 | 2112.233 | |
| 6)Aroclor-1016 {5} | 5.643 | 6.058 | 2056325 | 962356 | 2102.229 | 2107.293 | |
| 7)Aroclor-1260 {1} | 7.164 | 7.374 | 1842445 | 2065721 | 2089.549 | 2664.852 | # |
| 8)Aroclor-1260 {2} | 7.415 | 7.457 | 2472694 | 2309722 | 2210.784 | 2174.496 | |
| 9)Aroclor-1260 {3} | 7.616 | 8.090 | 1409124 | 1195877 | 2322.439 | 2265.401 | |
| 10)Aroclor-1260 {4} | 8.207 | 8.452 | 1567311 | 1895822 | 2272.636 | 2202.667 | |
| 11)Aroclor-1260 {5} | 8.931 | 9.160 | 2555674 | 1603878 | 2228.721 | 1829.587 | |
| 45)DCB-Surrogate | 10.265 | 10.904 | 2667528 | 3097199 | 179.405 | 202.560 | |

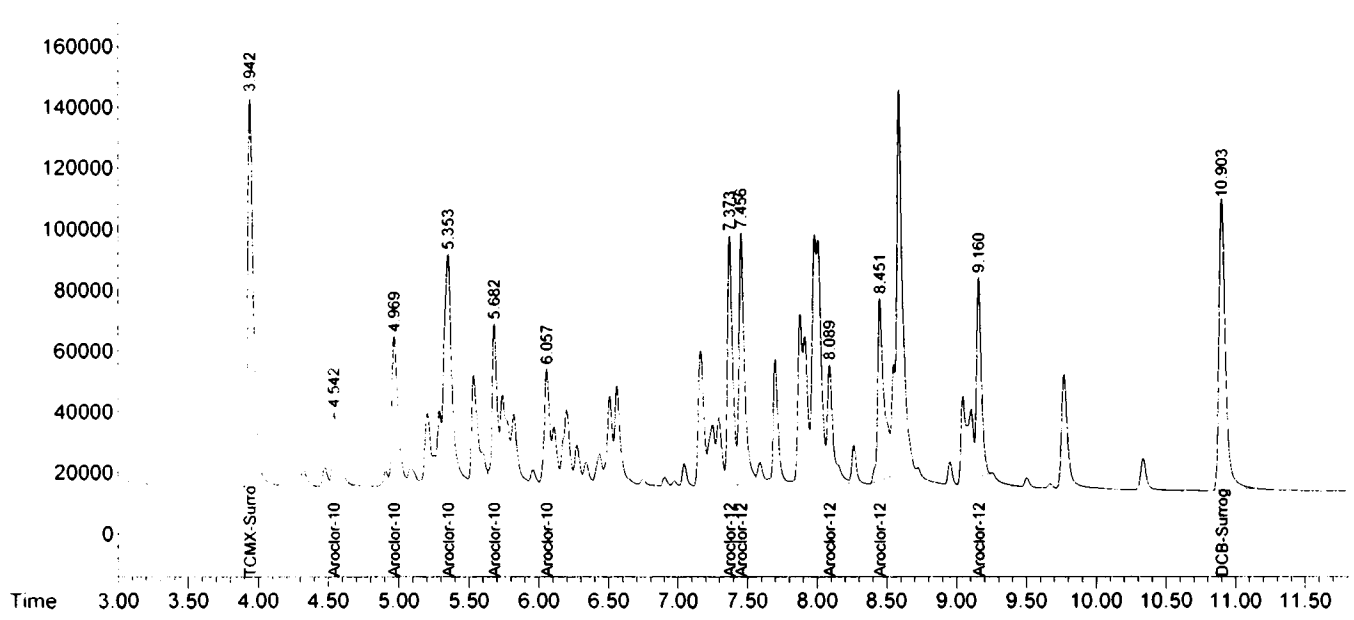
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130588.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 16:11
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 99 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 21 16:33:30 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130605.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 20:51
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 09:44:24 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

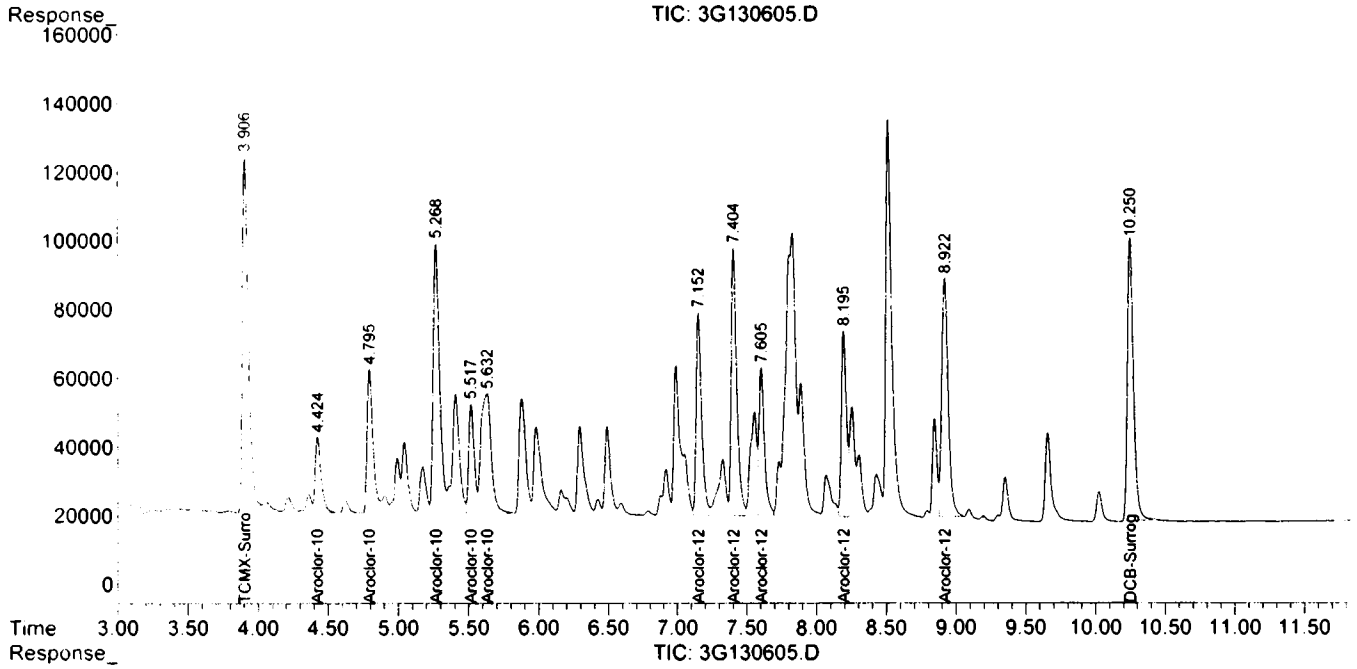
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.906 | 3.942 | 2955430 | 3801643 | 184.038 | 238.502 # |
| 2)Aroclor-1016 {1} | 4.425 | 4.542 | 654478 | 794863 | 1786.783 | 2250.739 # |
| 3)Aroclor-1016 {2} | 4.796 | 4.968 | 1233836 | 1608064 | 1742.392 | 2166.424 |
| 4)Aroclor-1016 {3} | 5.269 | 5.352 | 2479546 | 3310564 | 1773.669 | 2349.915 # |
| 5)Aroclor-1016 {4} | 5.518 | 5.681 | 861017 | 1406901 | 1848.336 | 2253.711 |
| 6)Aroclor-1016 {5} | 5.633 | 6.056 | 1768888 | 1009362 | 1808.375 | 2210.224 |
| 7)Aroclor-1260 {1} | 7.154 | 7.370 | 1611913 | 2124747 | 1828.098 | 2744.954 # |
| 8)Aroclor-1260 {2} | 7.405 | 7.454 | 2178681 | 2433110 | 1947.913 | 2290.660 |
| 9)Aroclor-1260 {3} | 7.606 | 8.087 | 1227072 | 1225440 | 2022.392 | 2321.404 |
| 10)Aroclor-1260 {4} | 8.196 | 8.447 | 1378609 | 2002249 | 1999.014 | 2326.320m |
| 11)Aroclor-1260 {5} | 8.923 | 9.156 | 2292332 | 1862199 | 1999.069 | 2124.262m |
| 45)DCB-Surrogate | 10.251 | 10.898 | 2469375 | 3131070 | 166.078 | 204.776 |

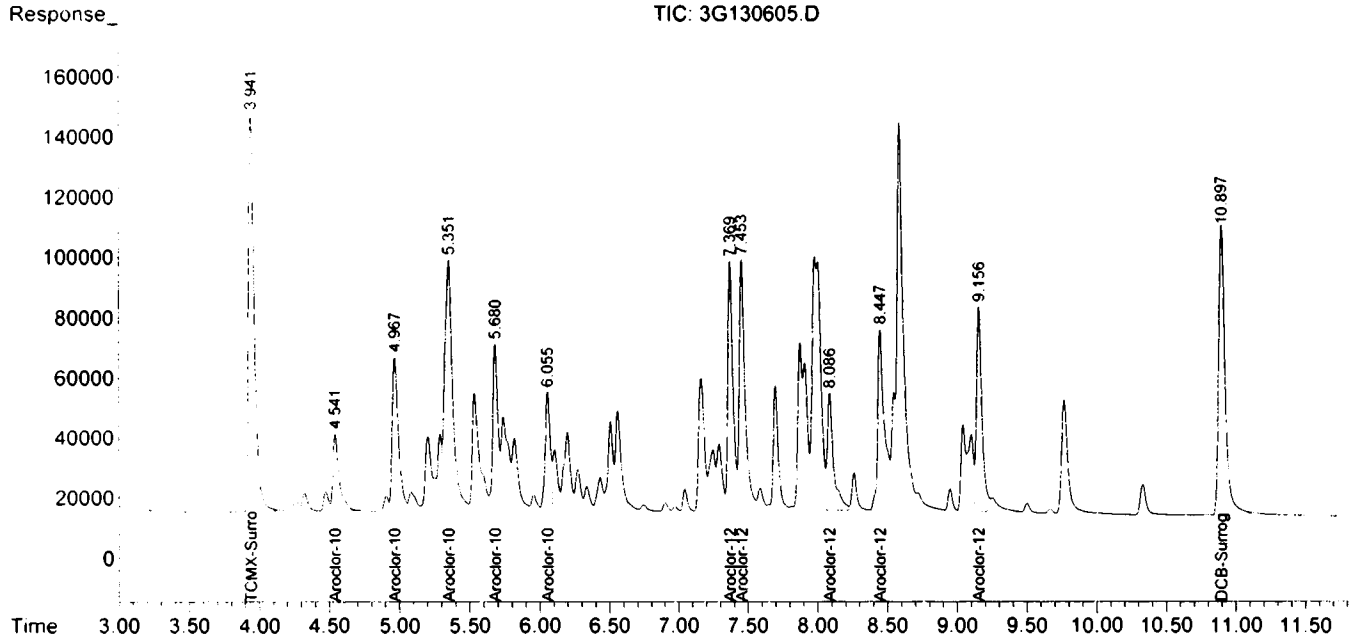
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130605.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 20:51
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 09:44:24 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-27-21\
Data File : 3G130715.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2021 22:02
Operator : MS/MLC/MC
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 11:30:53 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

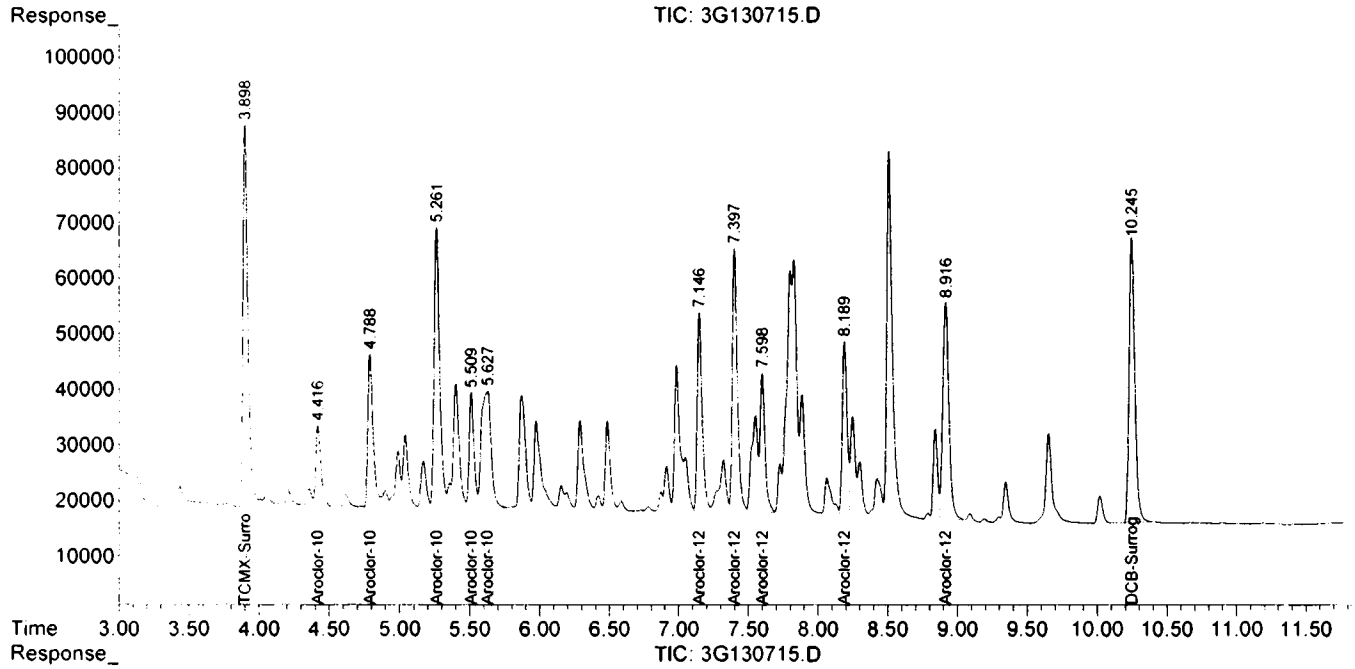
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 3.899 | 3.933 | 1717245 | 2109972 | 93.715 | 102.621 | |
| 2)Aroclor-1016 {1} | 4.417 | 4.534 | 371389 | 436958 | 938.227 | 1083.693 | |
| 3)Aroclor-1016 {2} | 4.789 | 4.960 | 708219 | 884525 | 1074.819 | 1012.744 | |
| 4)Aroclor-1016 {3} | 5.262 | 5.345 | 1401637 | 1732113 | 921.301 | 1004.837 | |
| 5)Aroclor-1016 {4} | 5.510 | 5.673 | 485809 | 754293 | 935.385 | 992.411 | |
| 6)Aroclor-1016 {5} | 5.628 | 6.048 | 1001359 | 561860 | 913.557 | 1018.829 | |
| 7)Aroclor-1260 {1} | 7.147 | 7.363 | 877942 | 1152550 | 884.606 | 1114.614 | # |
| 8)Aroclor-1260 {2} | 7.398 | 7.446 | 1187526 | 1272187 | 917.263 | 968.783 | |
| 9)Aroclor-1260 {3} | 7.599 | 8.080 | 622451 | 640062 | 910.703 | 981.778 | |
| 10)Aroclor-1260 {4} | 8.190 | 8.441 | 737374 | 1083247 | 896.150 | 960.546 | |
| 11)Aroclor-1260 {5} | 8.916 | 9.149 | 1200257 | 959791 | 897.245 | 978.935 | |
| 45)DCB-Surrogate | 10.246 | 10.889 | 1456313 | 1897115 | 89.598 | 97.197 | |

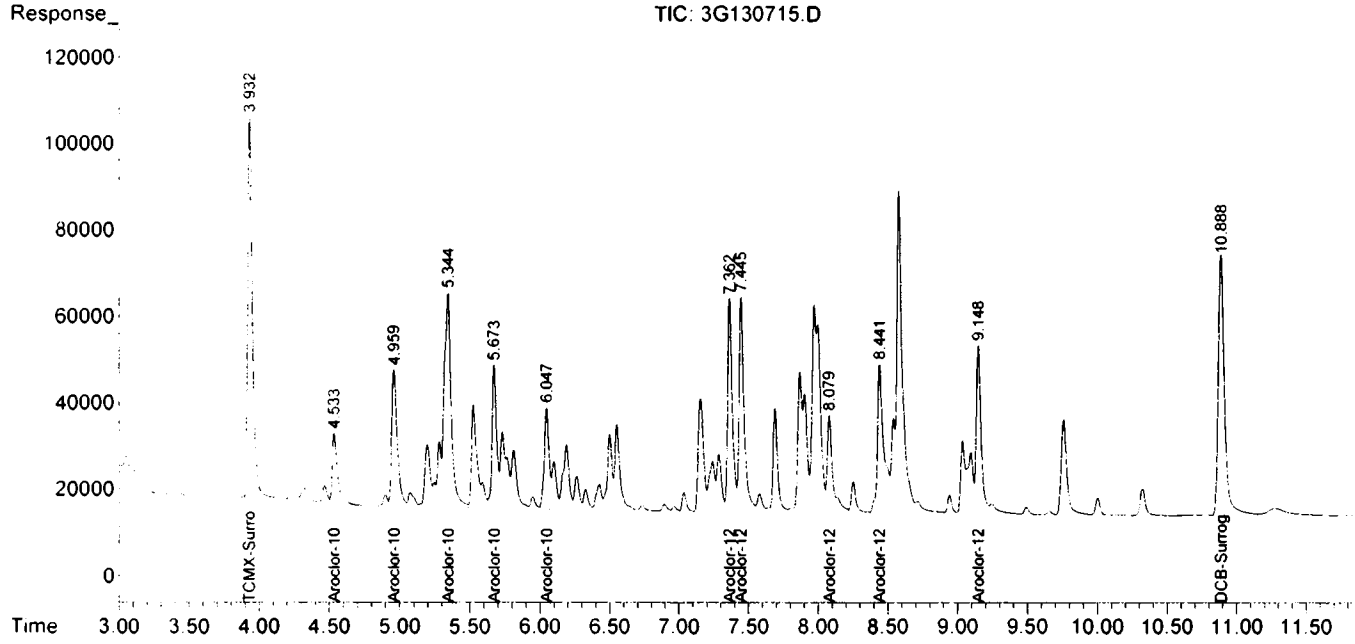
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-27-21\
Data File : 3G130715.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2021 22:02
Operator : MS/MLC/MC
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 11:30:53 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-27-21\
Data File : 3G130735.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2021 2:58
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 11:41:21 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

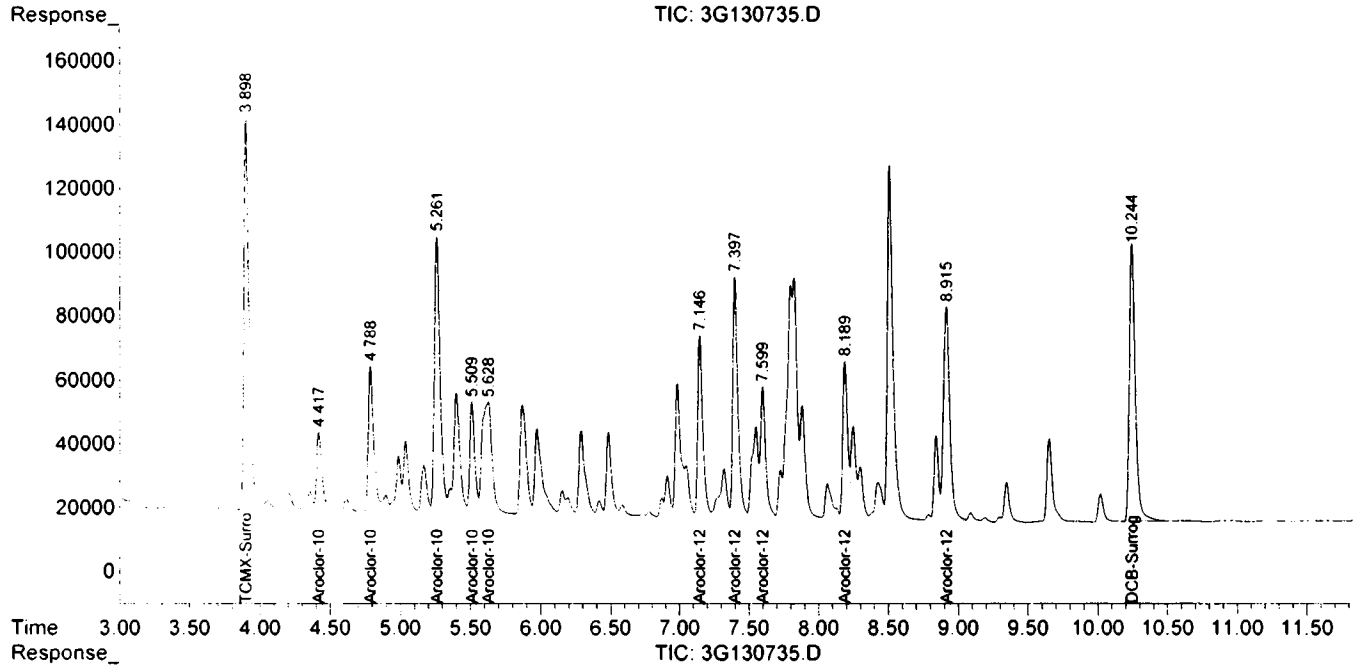
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 3.899 | 3.934 | 3041909 | 4173326 | 166.006 | 202.975 | |
| 2)Aroclor-1016 {1} | 4.418 | 4.535 | 651567 | 835174 | 1646.030 | 2071.302 | # |
| 3)Aroclor-1016 {2} | 4.789 | 4.961 | 1194318 | 1630499 | 1943.214 | 1866.855 | |
| 4)Aroclor-1016 {3} | 5.262 | 5.346 | 2444959 | 3311842 | 1607.081 | 1921.272 | |
| 5)Aroclor-1016 {4} | 5.510 | 5.674 | 852483 | 1423150 | 1641.385 | 1872.416 | |
| 6)Aroclor-1016 {5} | 5.628 | 6.049 | 1710260 | 1031454 | 1560.301 | 1870.349 | |
| 7)Aroclor-1260 {1} | 7.146 | 7.364 | 1435531 | 2056279 | 1446.427 | 2118.289 | # |
| 8)Aroclor-1260 {2} | 7.398 | 7.447 | 1941488 | 2303073 | 1499.634 | 1753.813 | |
| 9)Aroclor-1260 {3} | 7.600 | 8.081 | 1079000 | 1211477 | 1578.676 | 1858.260 | |
| 10)Aroclor-1260 {4} | 8.190 | 8.442 | 1193993 | 1947296 | 1451.092 | 1726.724 | |
| 11)Aroclor-1260 {5} | 8.916 | 9.150 | 2131260 | 1801916 | 1593.211 | 1837.858 | |
| 45)DCB-Surrogate | 10.245 | 10.889 | 2581831 | 3485776 | 158.845 | 178.591 | |

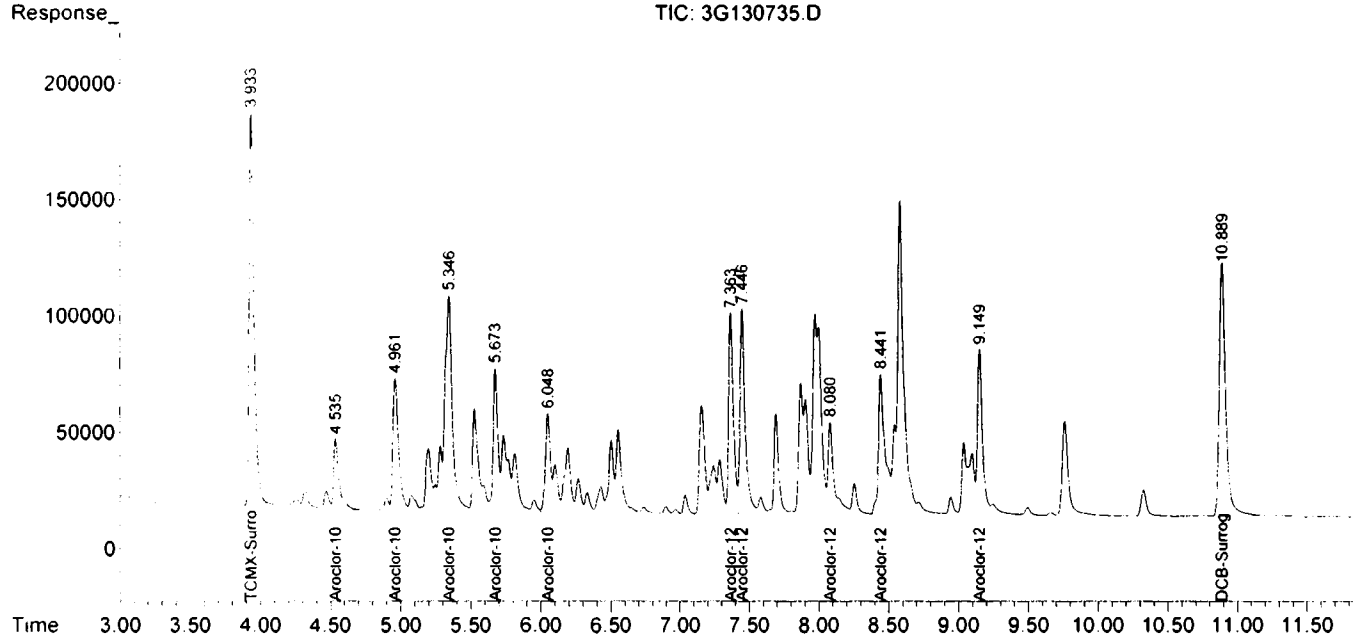
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-27-21\
Data File : 3G130735.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2021 2:58
Operator : MS/MLC/MC
Sample : CAL 1660@2000PPB
Misc : S,PCB:0.25
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 11:41:21 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130755.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 9:01
Operator : MS/MLC/MC/PR
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 11:42:51 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 3.902 | 3.931 | 1831268 | 1798972 | 99.937 | 87.495 | |
| 2)Aroclor-1016 {1} | 4.420 | 4.532 | 392973 | 354948 | 992.754 | 880.302 | |
| 3)Aroclor-1016 {2} | 4.792 | 4.958 | 741793 | 742617 | 1134.798 | 850.266 | # |
| 4)Aroclor-1016 {3} | 5.265 | 5.343 | 1473674 | 1380160 | 968.651 | 800.661 | |
| 5)Aroclor-1016 {4} | 5.513 | 5.671 | 509063 | 639214 | 980.157 | 841.004 | |
| 6)Aroclor-1016 {5} | 5.630 | 6.047 | 1041155 | 485089 | 949.864 | 879.619 | |
| 7)Aroclor-1260 {1} | 7.149 | 7.362 | 976986 | 1060922 | 984.401 | 1012.851 | |
| 8)Aroclor-1260 {2} | 7.400 | 7.444 | 1324474 | 1090561 | 1023.044 | 830.473 | |
| 9)Aroclor-1260 {3} | 7.601 | 8.079 | 719868 | 478782 | 1053.234 | 734.394 | # |
| 10)Aroclor-1260 {4} | 8.191 | 8.441 | 848077 | 1037828 | 1030.691 | 920.272 | |
| 11)Aroclor-1260 {5} | 8.917 | 9.148 | 1373695 | 909305 | 1026.898 | 927.442 | |
| 45)DCB-Surrogate | 10.246 | 10.887 | 1560414 | 1843538 | 96.003 | 94.452 | |

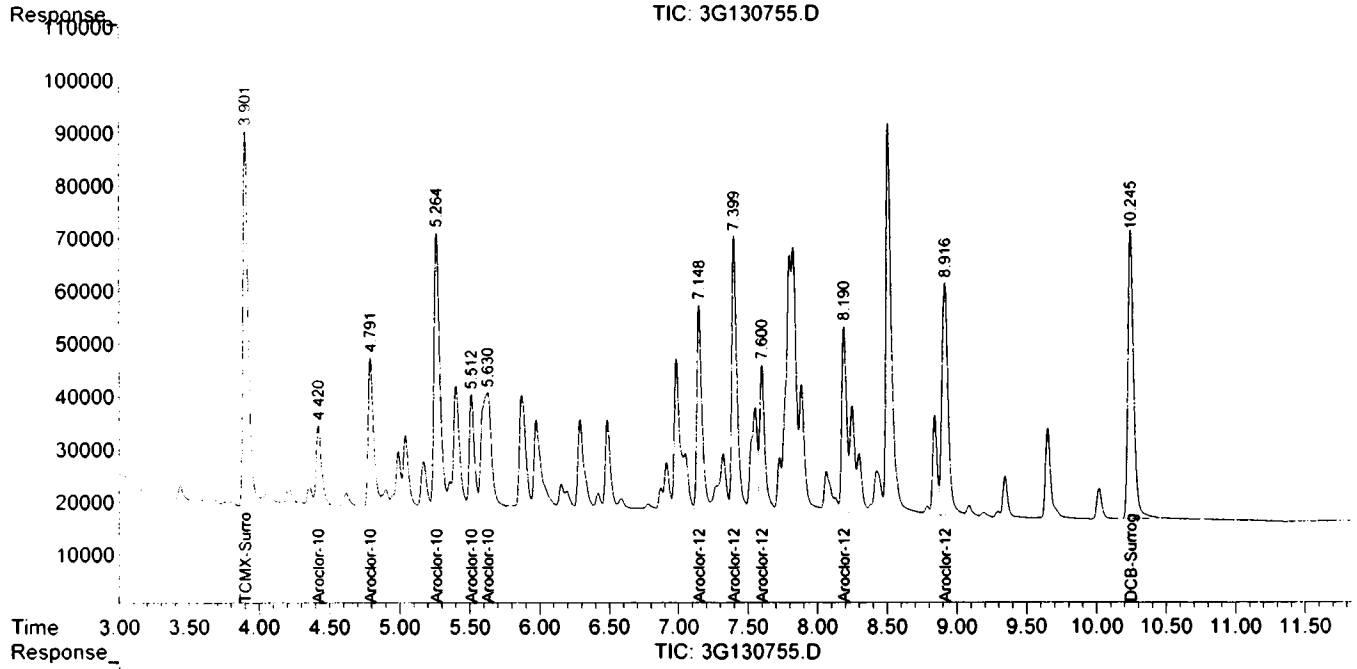
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

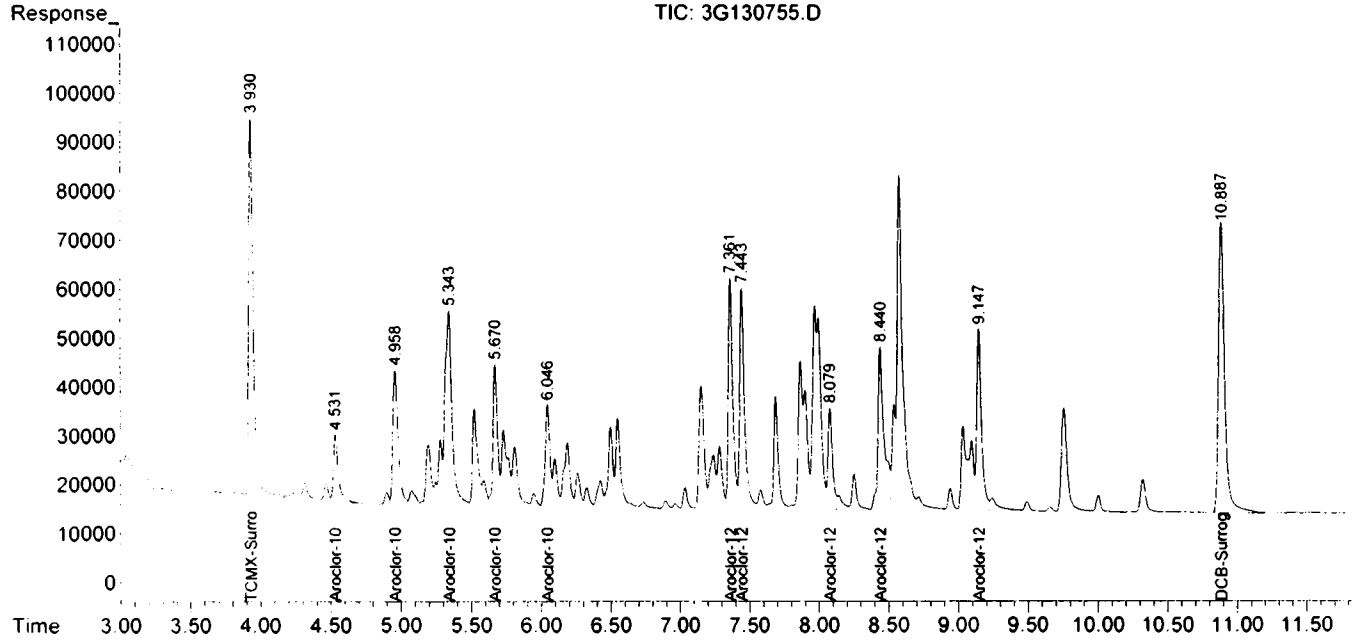
3

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130755.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 9:01
Operator : MS/MLC/MC/PR
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 11:42:51 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130774.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 13:53
Operator : MS/MLC/MC/PR
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 15:09:47 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

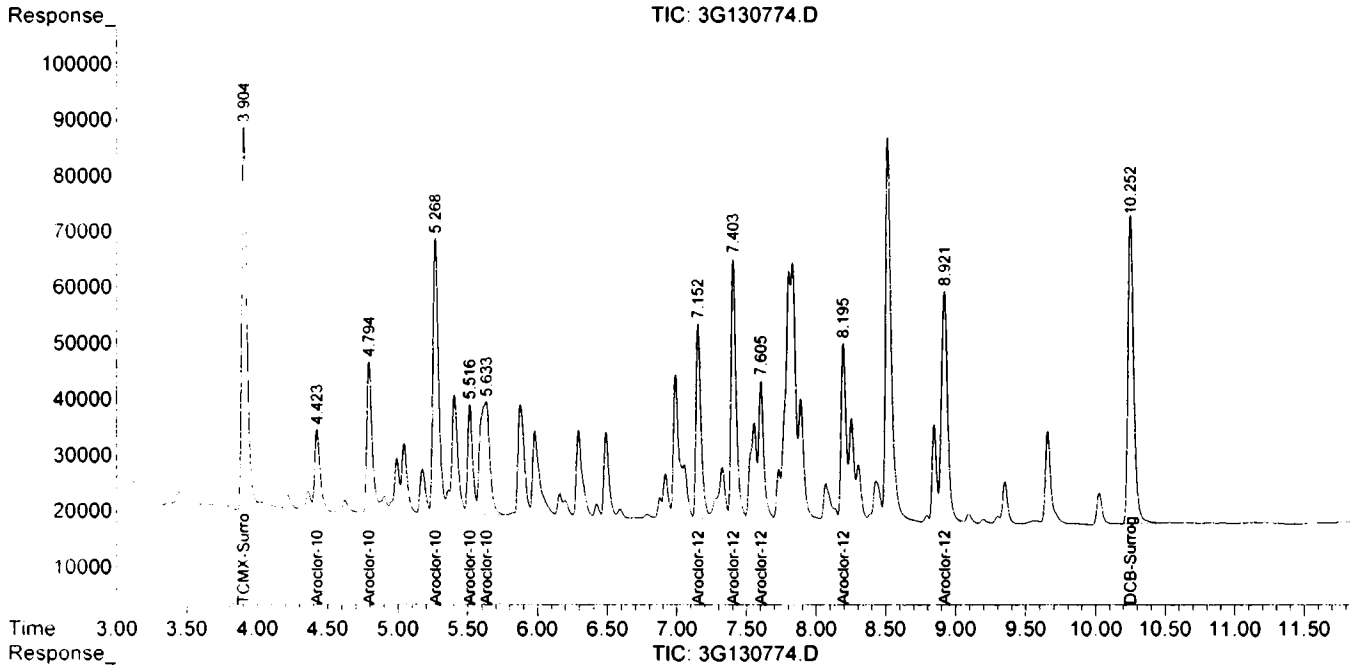
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.905 | 3.934 | 1803460 | 1991617 | 98.420 | 96.865 |
| 2)Aroclor-1016 {1} | 4.424 | 4.534 | 399998 | 386375 | 1010.501 | 958.242 |
| 3)Aroclor-1016 {2} | 4.795 | 4.961 | 713538 | 811092 | 1084.321 | 928.667 |
| 4)Aroclor-1016 {3} | 5.268 | 5.345 | 1402993 | 1490718 | 922.192 | 864.798 |
| 5)Aroclor-1016 {4} | 5.516 | 5.674 | 477786 | 686511 | 919.937 | 903.231 |
| 6)Aroclor-1016 {5} | 5.633 | 6.048 | 972482 | 512650 | 887.213 | 929.595 |
| 7)Aroclor-1260 {1} | 7.153 | 7.364 | 872404 | 1105153 | 879.026 | 1061.975 |
| 8)Aroclor-1260 {2} | 7.404 | 7.447 | 1190574 | 1185284 | 919.617 | 902.606 |
| 9)Aroclor-1260 {3} | 7.606 | 8.082 | 641769 | 530216 | 938.966 | 813.287 |
| 10)Aroclor-1260 {4} | 8.196 | 8.443 | 761155 | 1084454 | 925.052 | 961.616 |
| 11)Aroclor-1260 {5} | 8.922 | 9.150 | 1261732 | 955111 | 943.200 | 974.162 |
| 45)DCB-Surrogate | 10.253 | 10.891 | 1581004 | 1901340 | 97.270 | 97.414 |

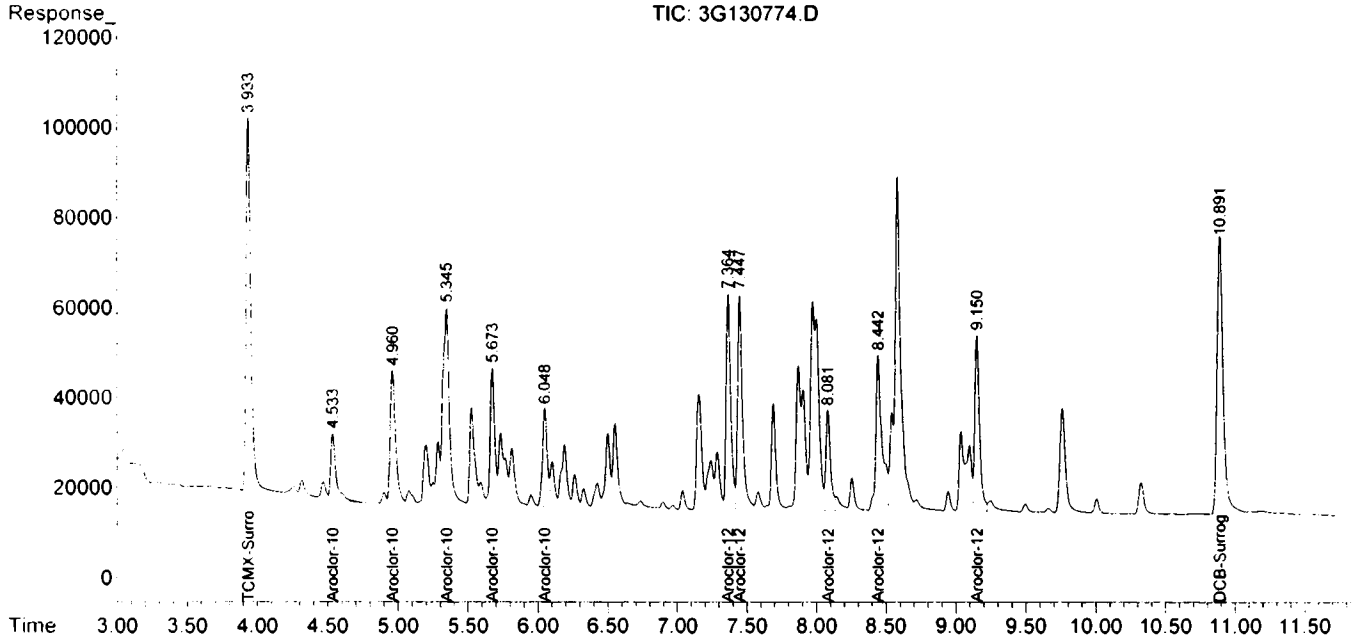
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130774.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 13:53
Operator : MS/MLC/MC/PR
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 15:09:47 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# GC PCB Data
# Raw QC Data

# Form1

ORGANICS PCB REPORT

Sample Number: WMB94963
Client Id:
Data File: 3G130544.D
Analysis Date: 09/20/21 03:32
Date Rec/Extracted: NA-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | | | | |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130544.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 3:32
Operator : MS/MLC/MC
Sample : WMB94963
Misc : A,PCB
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 11:59:45 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

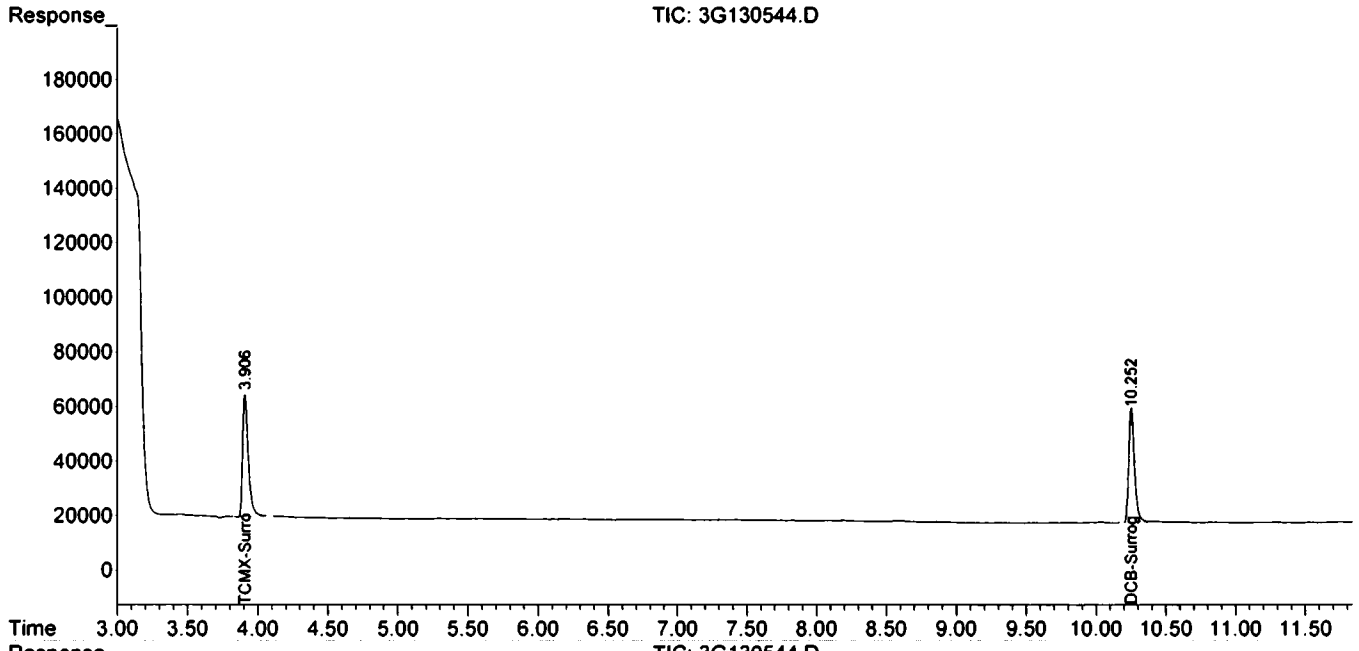
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.907 | 3.942 | 1254173 | 1540485 | 78.099 | 96.645 |
| 45) | DCB-Surrogate | 10.253 | 10.897 | 1195863 | 1446408 | 80.428 | 94.597 |

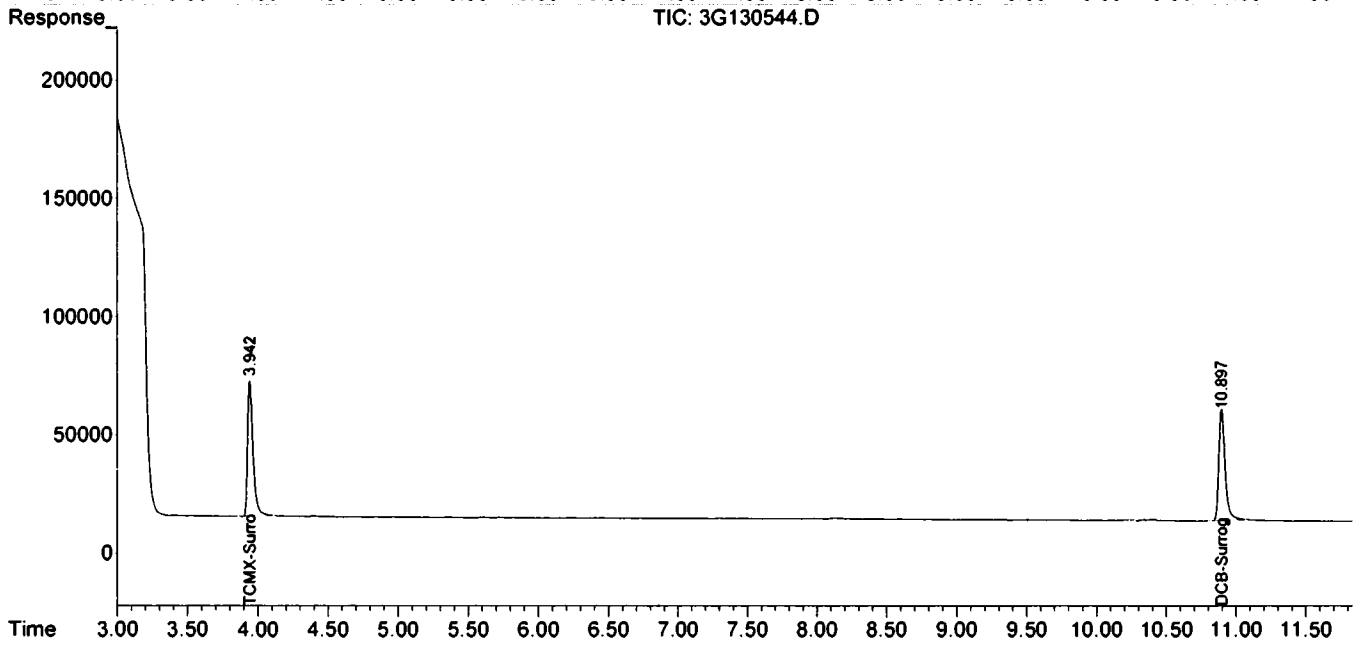
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130544.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 3:32
Operator : MS/MLC/MC
Sample : WMB94963
Misc : A,PCB
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 11:59:45 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PCB REPORT

Sample Number: WMB94975
Client Id:
Data File: 3G130568.D
Analysis Date: 09/21/21 08:42
Date Rec/Extracted: NA-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | | | | |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130568.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 8:42
Operator : MS/MLC/MC
Sample : WMB94975
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 21 09:31:22 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

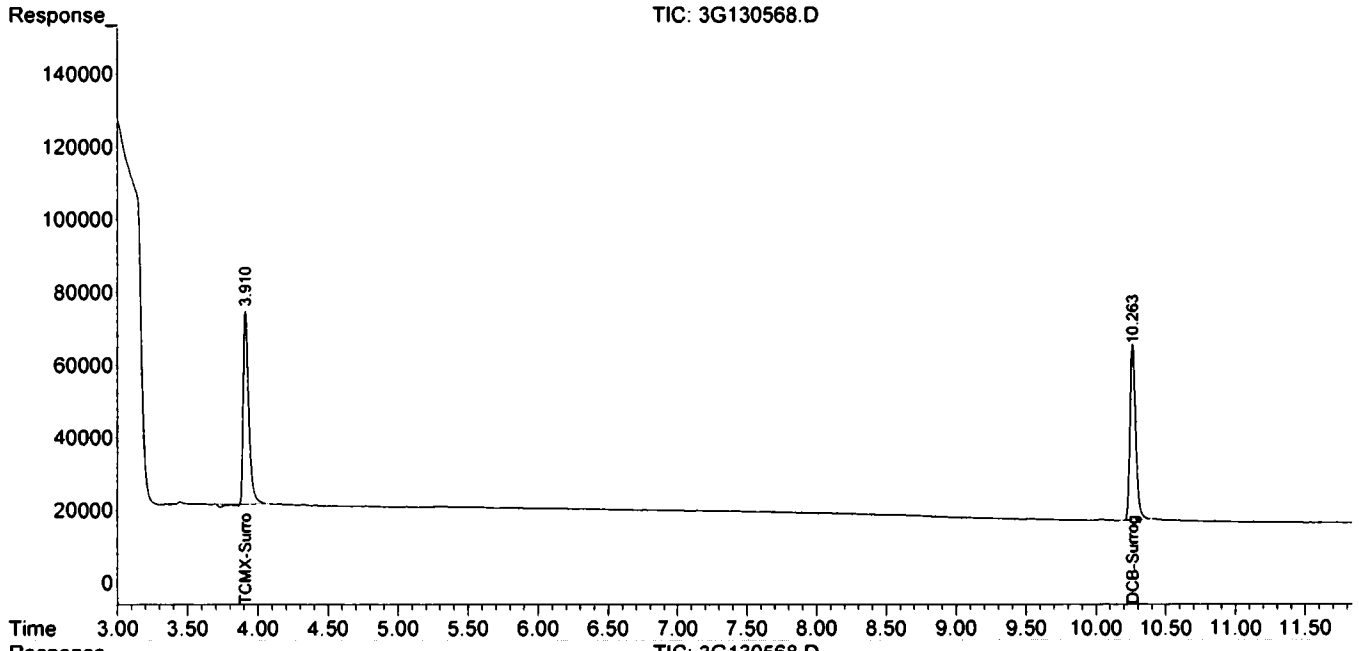
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.911 | 3.941 | 1426774 | 1387550 | 88.847 | 87.050 |
| 45) | DCB-Surrogate | 10.263 | 10.903 | 1372748 | 1514243 | 92.324 | 99.033 |

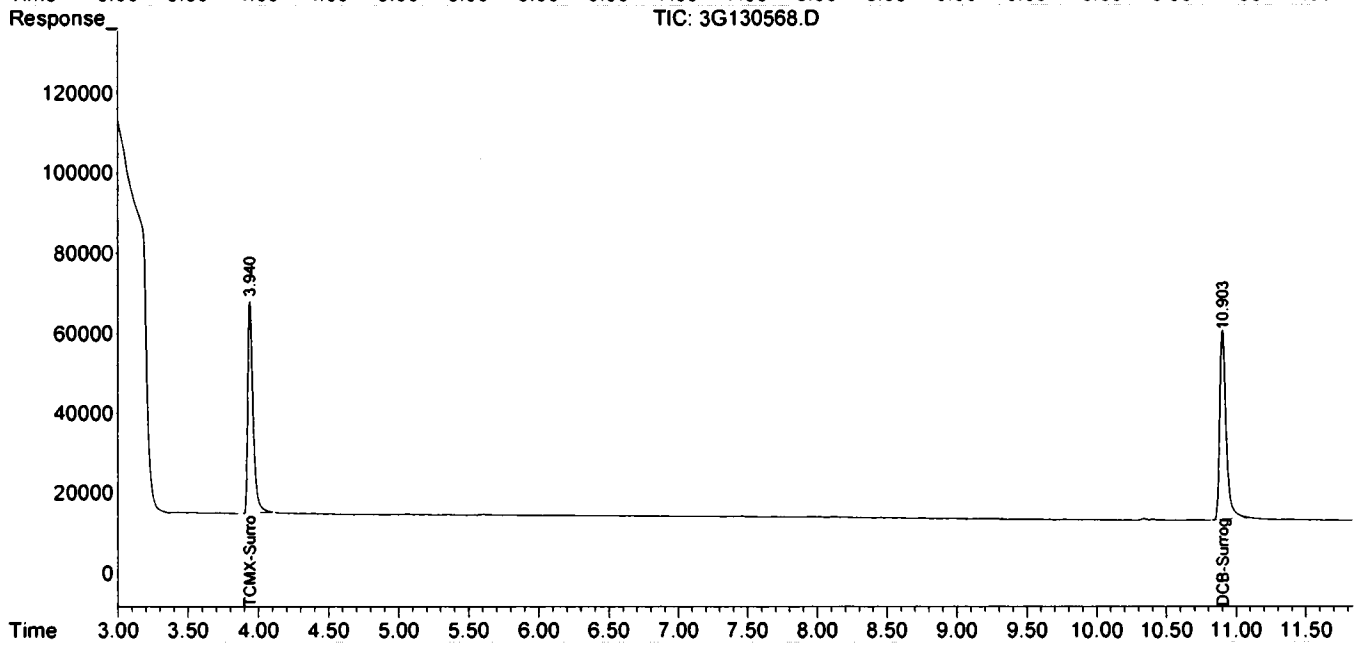
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130568.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 8:42
Operator : MS/MLC/MC
Sample : WMB94975
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 21 09:31:22 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94963

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130545.D | WMB94963(MS) | 9/20/2021 3:47:00 AM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 839.518 | 0 | 1000 | 84 | 60 | 130 |
| Aroclor-1260 -Total | 1 | 949.352 | 0 | 1000 | 95 | 60 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130545.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 3:47
Operator : MS/MLC/MC
Sample : WMB94963(MS)
Misc : A,PCB
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:10:54 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

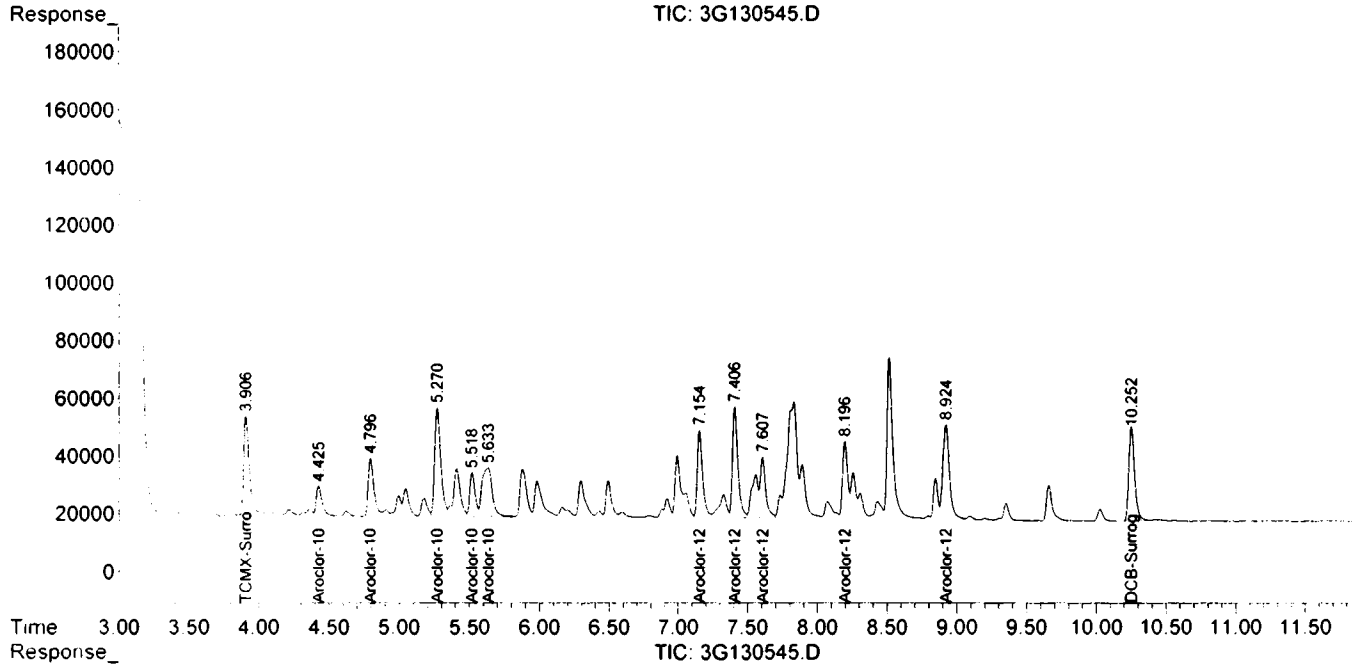
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.907 | 3.942 | 955723 | 1137373 | 59.514 | 71.355 |
| 2)Aroclor-1016 {1} | 4.426 | 4.543 | 304781 | 346300 | 832.080 | 980.586 |
| 3)Aroclor-1016 {2} | 4.797 | 4.969 | 570771 | 695547 | 806.029 | 937.058 |
| 4)Aroclor-1016 {3} | 5.270 | 5.353 | 1156255 | 1439950 | 827.093 | 1022.110 |
| 5)Aroclor-1016 {4} | 5.519 | 5.681 | 399567 | 645978 | 857.745 | 1034.791 |
| 6)Aroclor-1016 {5} | 5.634 | 6.056 | 855540 | 472253 | 874.639 | 1034.102 |
| 7)Aroclor-1260 {1} | 7.154 | 7.371 | 801901 | 1030686 | 909.449 | 1260.227 # |
| 8)Aroclor-1260 {2} | 7.407 | 7.455 | 1046218 | 1141818 | 935.402 | 1074.969 |
| 9)Aroclor-1260 {3} | 7.607 | 8.088 | 586976 | 545134 | 967.422 | 1032.671 |
| 10)Aroclor-1260 {4} | 8.197 | 8.448 | 676557 | 931604 | 981.023 | 1082.388m |
| 11)Aroclor-1260 {5} | 8.924 | 9.157 | 1093347 | 855549 | 953.473 | 975.948m |
| 45)DCB-Surrogate | 10.253 | 10.899 | 928644 | 1134433 | 62.456 | 74.193 |

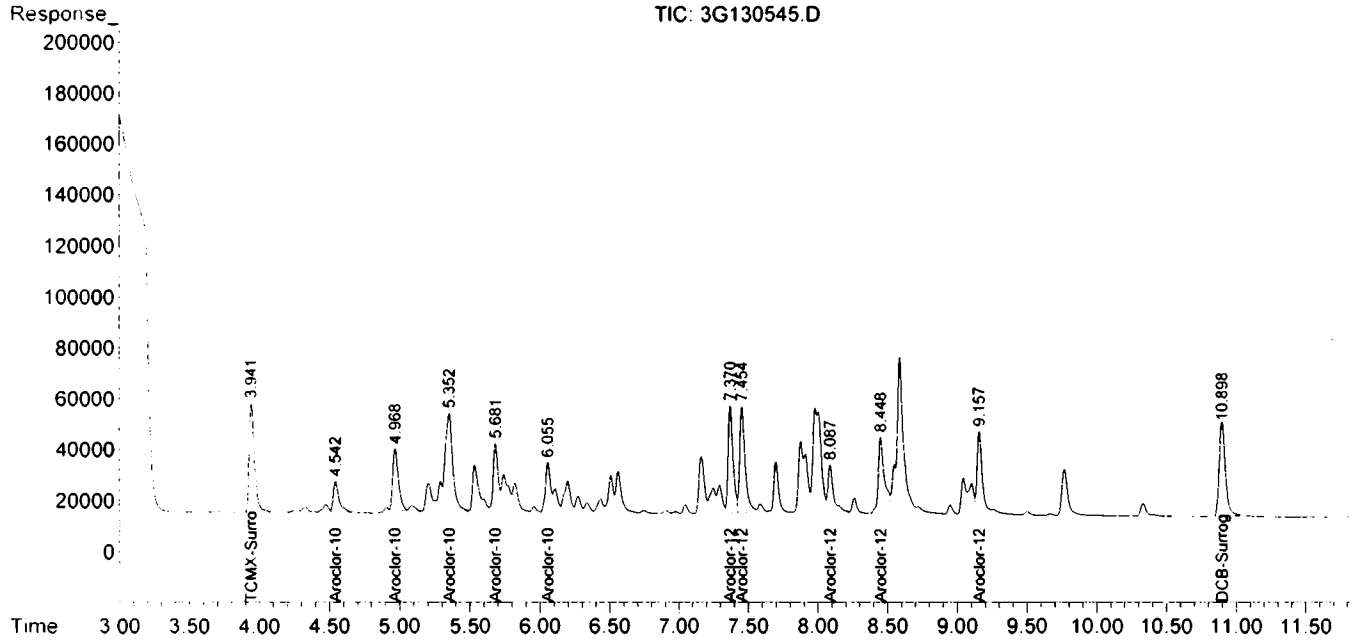
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130545.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 3:47
Operator : MS/MLC/MC
Sample : WMB94963(MS)
Misc : A,PCB
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:10:54 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94975

Data File | Sample ID: | Analysis Date

Spike or Dup: 3G130569.D | WMB94975(MS) | 9/21/2021 8:57:00 AM

Non Spike(If applicable):

Inst Blank(If applicable):

Method: 8082 | Matrix: Aqueous | Units: ug/L | QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 956.722 | 0 | 1000 | 96 | 60 | 130 |
| Aroclor-1260 -Total | 1 | 1059.572 | 0 | 1000 | 106 | 60 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130569.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 8:57
Operator : MS/MLC/MC
Sample : WMB94975(MS)
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 21 09:33:46 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

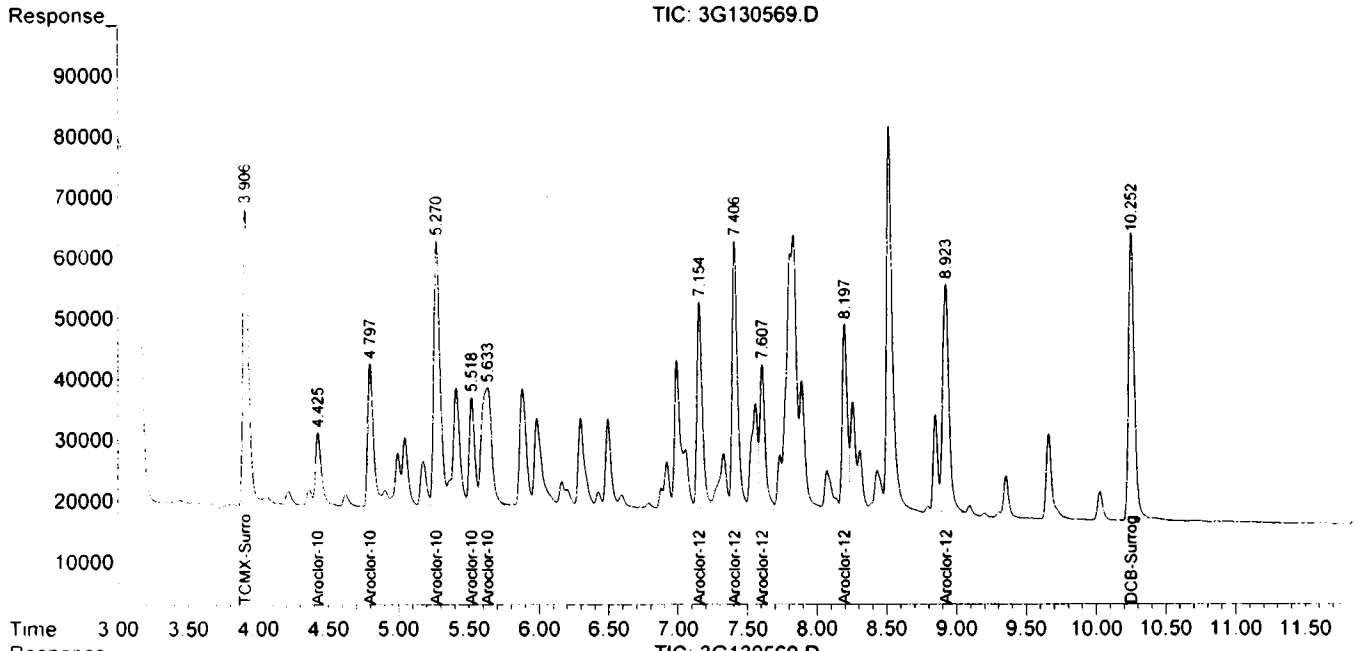
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.906 | 3.941 | 1369300 | 1464482 | 85.268m | 91.876 |
| 2)Aroclor-1016 {1} | 4.426 | 4.541 | 335018 | 336498 | 914.627 | 952.829 |
| 3)Aroclor-1016 {2} | 4.798 | 4.968 | 666923 | 685803 | 941.812 | 923.932 |
| 4)Aroclor-1016 {3} | 5.271 | 5.352 | 1342334 | 1371968 | 960.199 | 973.855 |
| 5)Aroclor-1016 {4} | 5.519 | 5.681 | 461577 | 632577 | 990.863 | 1013.323 |
| 6)Aroclor-1016 {5} | 5.634 | 6.055 | 954793 | 464533 | 976.107 | 1017.198 |
| 7)Aroclor-1260 {1} | 7.156 | 7.370 | 901429 | 1032341 | 1022.326 | 1262.474 |
| 8)Aroclor-1260 {2} | 7.407 | 7.454 | 1182251 | 1127318 | 1057.026 | 1061.317 |
| 9)Aroclor-1260 {3} | 7.608 | 8.088 | 654278 | 569604 | 1078.344 | 1079.026 |
| 10)Aroclor-1260 {4} | 8.198 | 8.448 | 758734 | 951188 | 1100.181 | 1105.142m |
| 11)Aroclor-1260 {5} | 8.924 | 9.157 | 1192542 | 926261 | 1039.978 | 1056.611 |
| 45)DCB-Surrogate | 10.253 | 10.898 | 1331222 | 1575923 | 89.532 | 103.067 |

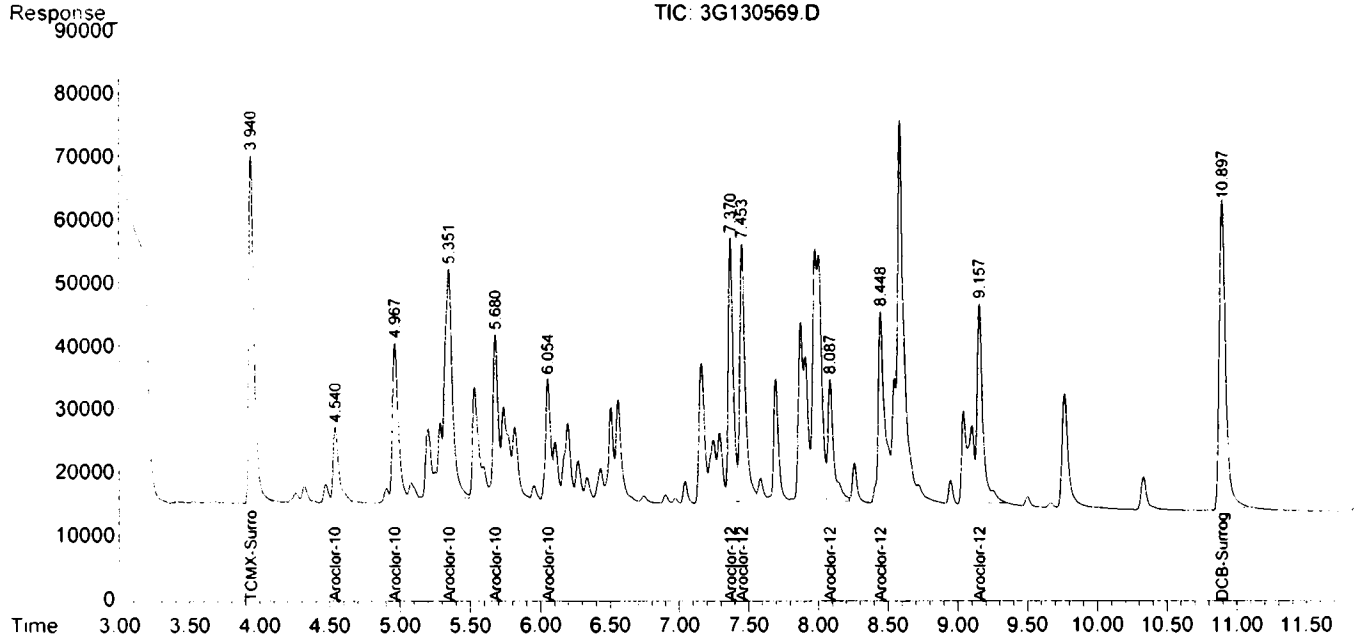
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130569.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 8:57
Operator : MS/MLC/MC
Sample : WMB94975(MS)
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 21 09:33:46 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form3

## Recovery Data Laboratory Limits

**QC Batch:WMB94963**

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130546.D | AD26083-042(MS:AD26083-040 | 9/20/2021 4:01:00 AM |
| Non Spike(If applicable): | 3G130765.D | AD26083-040(R) | 9/29/2021 11:31:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 696.68 | 0 | 1000 | 70 | 60 | 130 |
| Aroclor-1260 -Total | 1 | 668.954 | 0 | 1000 | 67 | 60 | 130 |

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130547.D | AD26083-044(MSD:AD26083-0 | 9/20/2021 4:16:00 AM |
| Non Spike(If applicable): | 3G130765.D | AD26083-040(R) | 9/29/2021 11:31:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 615.736 | 0 | 1000 | 62 | 60 | 130 |
| Aroclor-1260 -Total | 1 | 606.328 | 0 | 1000 | 61 | 60 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
# RPD Data Laboratory Limits
## QC Batch: WMB94963

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130547.D | AD26083-044(MSD:AD26083-0 | 9/20/2021 4:16:00 AM |
| Duplicate(If applicable): | 3G130546.D | AD26083-042(MS:AD26083-040 | 9/20/2021 4:01:00 AM |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 615.736 | 696.68 | 12 | 40 |
| Aroclor-1260 -Total | 1 | 606.328 | 668.954 | 9.8 | 40 |

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130546.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 4:01
Operator : MS/MLC/MC
Sample : AD26083-042(MS:AD26083-040)
Misc : A,PCB
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:11:50 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

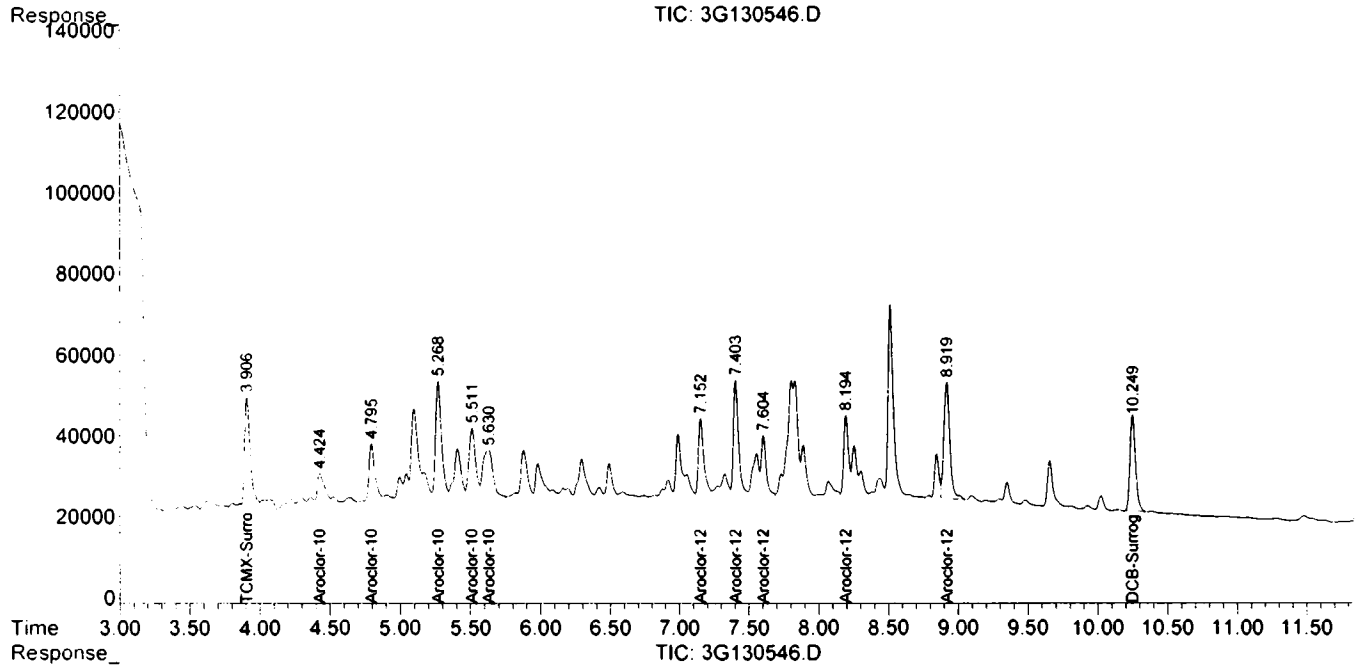
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.906 | 3.942 | 721589 | 946920 | 44.934 | 59.406 # |
| 2)Aroclor-1016 {1} | 4.425 | 4.541 | 201259 | 202563 | 549.456 | 573.578 |
| 3)Aroclor-1016 {2} | 4.796 | 4.971 | 370602 | 700737 | 523.355 | 944.050 # |
| 4)Aroclor-1016 {3} | 5.269 | 5.352 | 850455 | 1236708 | 608.347 | 877.844 # |
| 5)Aroclor-1016 {4} | 5.511 | 5.681 | 565690 | 549101 | 1214.360 | 879.603 # |
| 6)Aroclor-1016 {5} | 5.629 | 6.056 | 575036 | 397667 | 587.873 | 870.779 # |
| 7)Aroclor-1260 {1} | 7.153 | 7.371 | 521814 | 915128 | 591.798 | 1103.406 # |
| 8)Aroclor-1260 {2} | 7.404 | 7.454 | 746145 | 1038379 | 667.113 | 977.586 # |
| 9)Aroclor-1260 {3} | 7.605 | 8.087 | 385311 | 506493 | 635.048 | 959.472 # |
| 10)Aroclor-1260 {4} | 8.195 | 8.447 | 479163 | 859476 | 694.797 | 998.585m# |
| 11)Aroclor-1260 {5} | 8.920 | 9.156 | 866916 | 738642 | 756.010 | 842.589 |
| 45)DCB-Surrogate | 10.250 | 10.897 | 647905 | 951782 | 43.575 | 62.248 # |

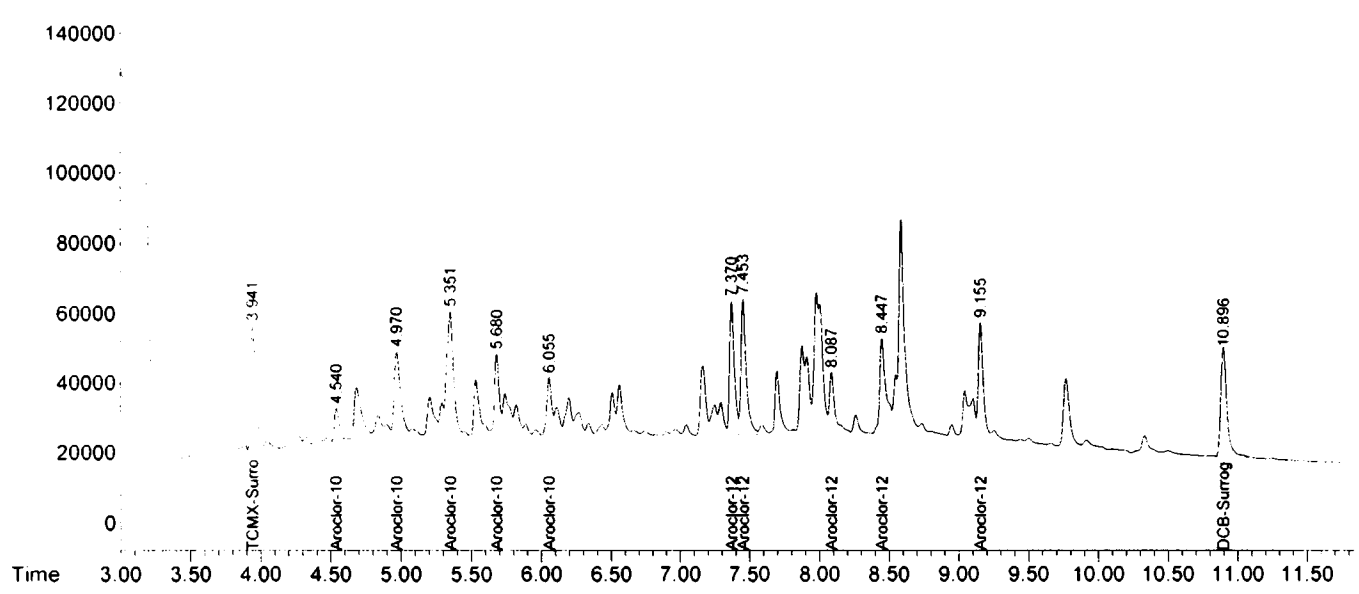
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130546.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 4:01
Operator : MS/MLC/MC
Sample : AD26083-042(MS:AD26083-040)
Misc : A,PCB
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:11:50 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130547.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 4:16
Operator : MS/MLC/MC
Sample : AD26083-044(MSD:AD26083-040)
Misc : A,PCB
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:12:09 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

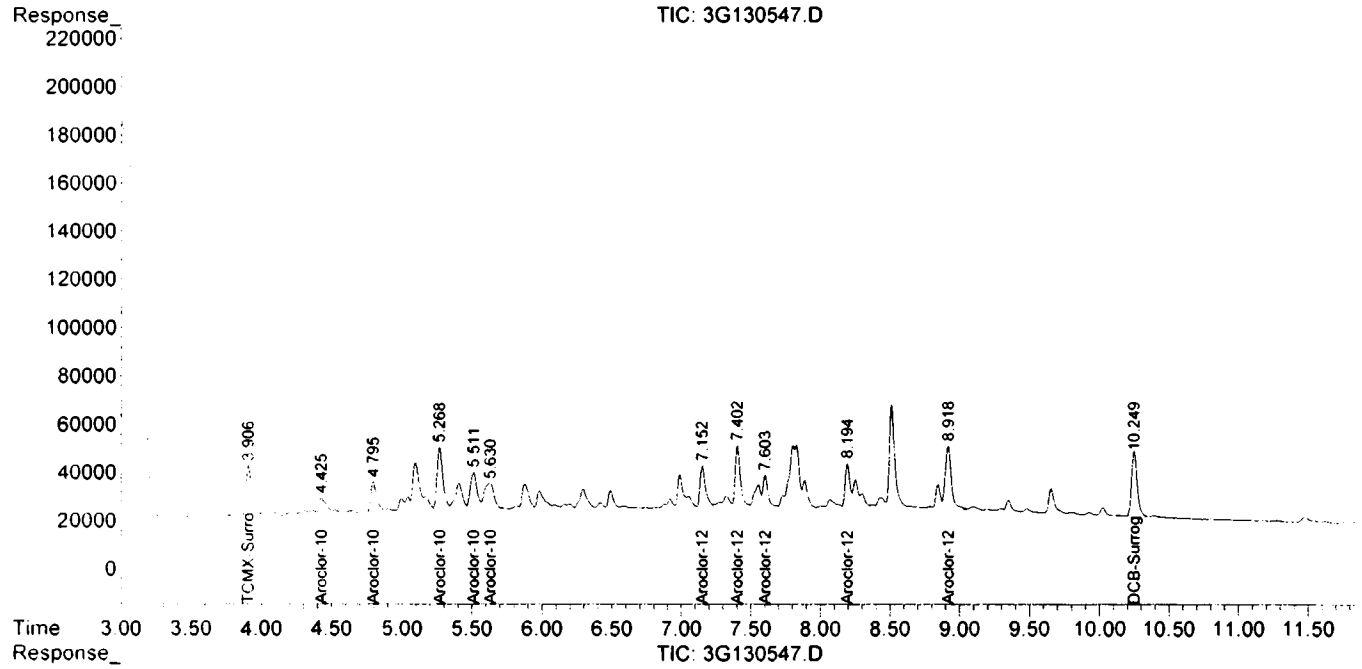
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 3.907 | 3.943 | 543093 | 681269 | 33.819 | 42.740 | # |
| 2)Aroclor-1016 {1} | 4.426 | 4.541 | 174978 | 184128 | 477.704 | 521.378 | |
| 3)Aroclor-1016 {2} | 4.796 | 4.971 | 326800 | 648493 | 461.498 | 873.667 | # |
| 4)Aroclor-1016 {3} | 5.269 | 5.352 | 764612 | 1123335 | 546.943 | 797.369 | # |
| 5)Aroclor-1016 {4} | 5.511 | 5.681 | 501908 | 498593 | 1077.442 | 798.694 | # |
| 6)Aroclor-1016 {5} | 5.631 | 6.056 | 503853 | 367588 | 515.101 | 804.916 | # |
| 7)Aroclor-1260 {1} | 7.153 | 7.370 | 476688 | 835203 | 540.620 | 994.941 | # |
| 8)Aroclor-1260 {2} | 7.404 | 7.453 | 674605 | 946453 | 603.150 | 891.042 | # |
| 9)Aroclor-1260 {3} | 7.604 | 8.087 | 347242 | 468991 | 572.306 | 888.430 | # |
| 10)Aroclor-1260 {4} | 8.195 | 8.448 | 429254 | 743269 | 622.428 | 863.569 | # |
| 11)Aroclor-1260 {5} | 8.919 | 9.156 | 794815 | 657957 | 693.132 | 750.549 | |
| 45)DCB-Surrogate | 10.250 | 10.897 | 761577 | 1123273 | 51.220 | 73.463 | # |

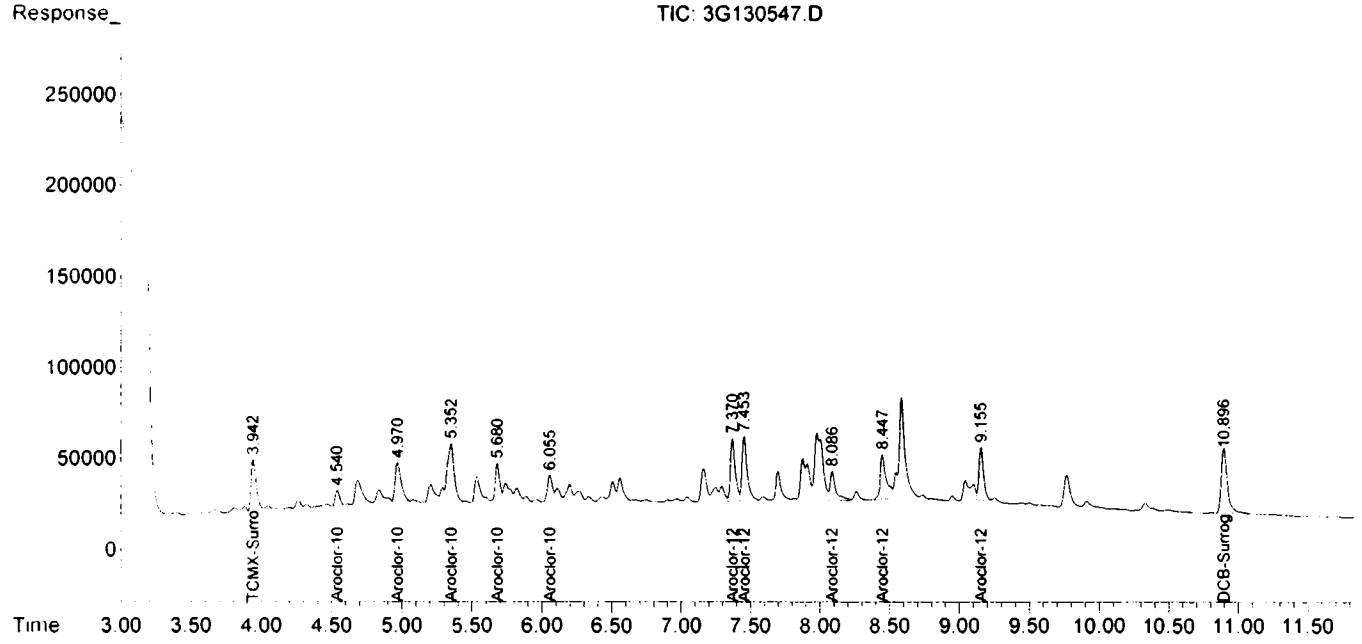
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-19-21\
Data File : 3G130547.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Sep 2021 4:16
Operator : MS/MLC/MC
Sample : AD26083-044(MSD:AD26083-040)
Misc : A,PCB
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 20 12:12:09 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130765.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 11:31
Operator : MS/MLC/MC/PR
Sample : AD26083-040(R)
Misc : A,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 11:49:04 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

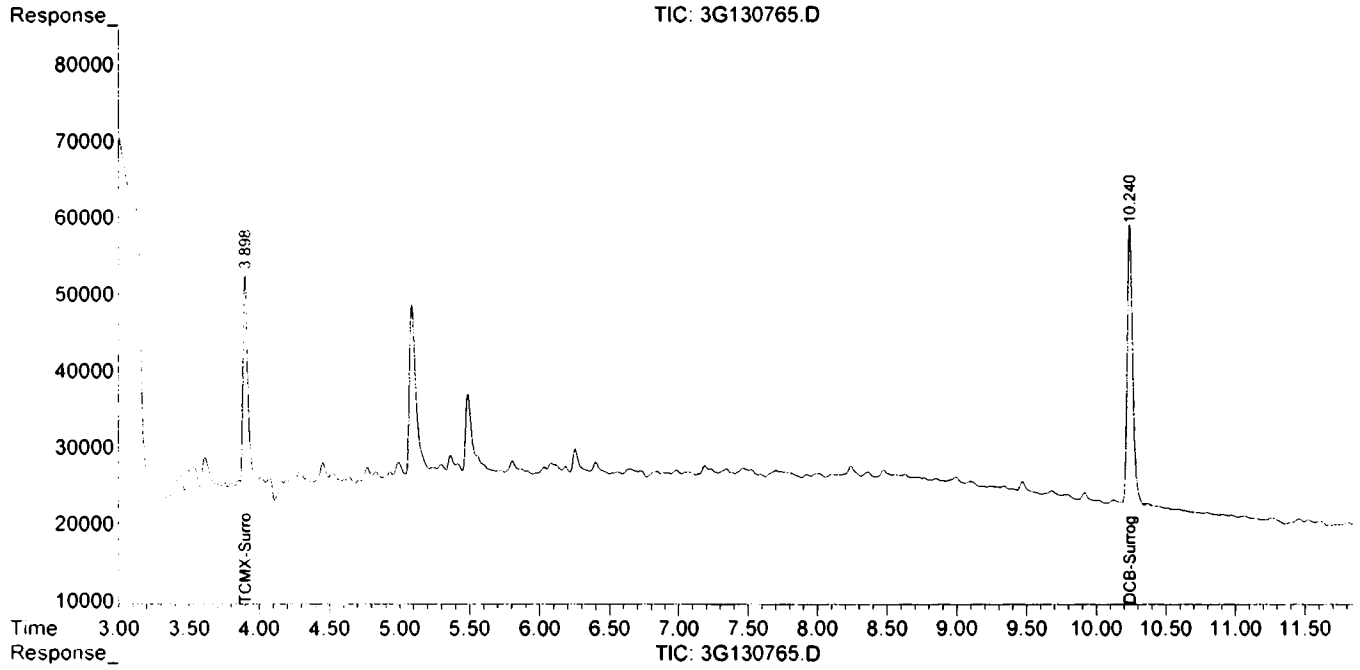
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.898 | 3.933 | 631298 | 851201 | 34.452m | 41.399 |
| 45) | DCB-Surrogate | 10.241 | 10.885 | 992222 | 1380542 | 61.045 | 70.731 |

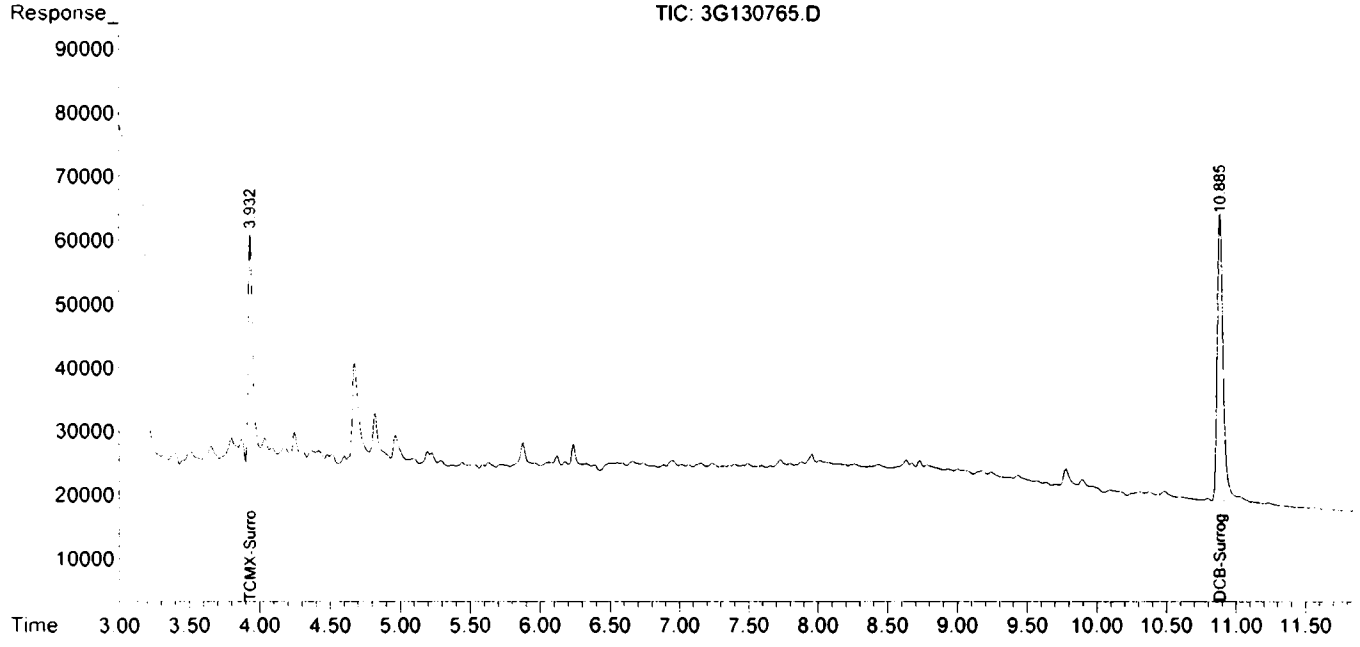
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-29-21\
Data File : 3G130765.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 11:31
Operator : MS/MLC/MC/PR
Sample : AD26083-040(R)
Misc : A,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 11:49:04 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form3
## Recovery Data Laboratory Limits
### QC Batch:WMB94975

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130589.D | AD26083-049(MS:AD26083-048 | 9/21/2021 4:53:00 PM |
| Non Spike(If applicable): | 3G130720.D | AD26083-048 | 9/27/2021 11:16:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 900.276 | 0 | 1000 | 90 | 60 | 130 |
| Aroclor-1260 -Total | 1 | 987.694 | 0 | 1000 | 99 | 60 | 130 |

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130590.D | AD26083-050(MSD:AD26083-0 | 9/21/2021 5:08:00 PM |
| Non Spike(If applicable): | 3G130720.D | AD26083-048 | 9/27/2021 11:16:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 858.564 | 0 | 1000 | 86 | 60 | 130 |
| Aroclor-1260 -Total | 1 | 975.156 | 0 | 1000 | 98 | 60 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

# Form3
## RPD Data Laboratory Limits
### QC Batch: WMB94975

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 3G130590.D | AD26083-050(MSD:AD26083-0 | 9/21/2021 5:08:00 PM |
| Duplicate(If applicable): | 3G130589.D | AD26083-049(MS:AD26083-048 | 9/21/2021 4:53:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| Aroclor-1016 -Total | 1 | 858.564 | 900.276 | 4.7 | 40 |
| Aroclor-1260 -Total | 1 | 975.156 | 987.694 | 1.3 | 40 |

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130589.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 16:53
Operator : MS/MLC/MC
Sample : AD26083-049(MS:AD26083-048)
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 09:33:28 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

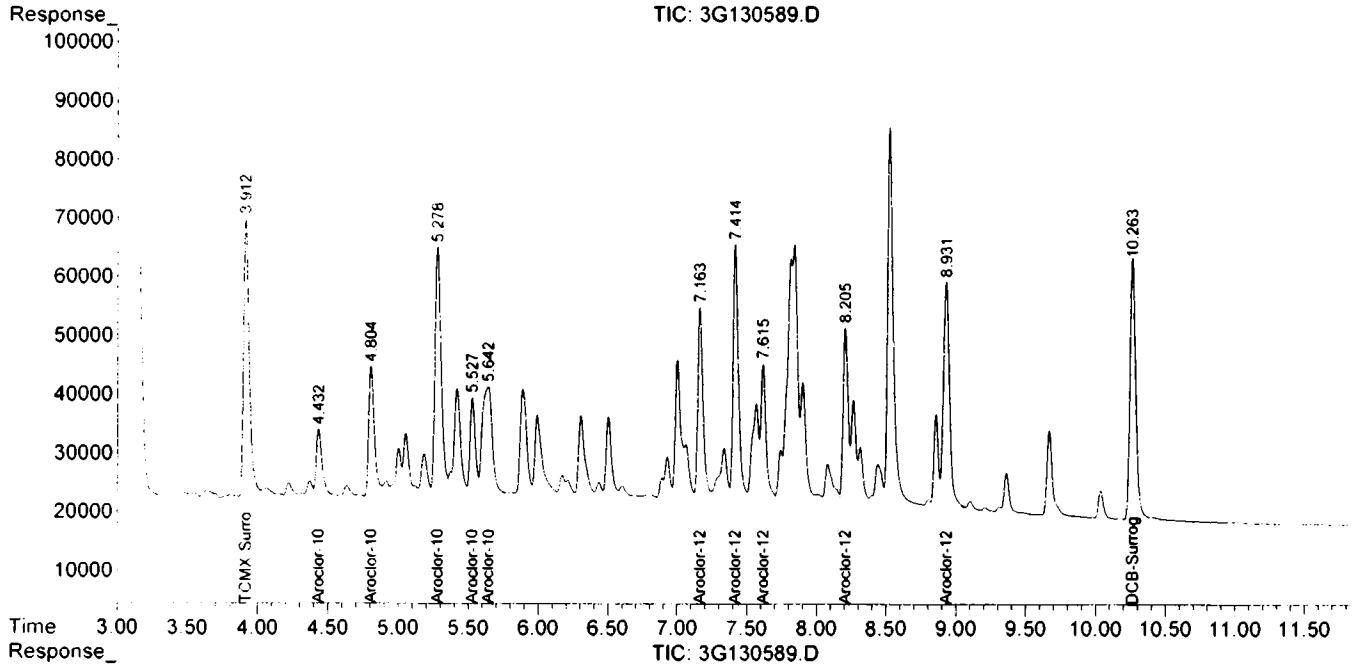
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 3.913 | 3.942 | 1297732 | 1388090 | 80.811 | 87.084 |
| 2)Aroclor-1016 {1} | 4.433 | 4.543 | 315148 | 309416 | 860.381 | 876.144 |
| 3)Aroclor-1016 {2} | 4.805 | 4.970 | 617748 | 647539 | 872.368 | 872.380 |
| 4)Aroclor-1016 {3} | 5.279 | 5.354 | 1288890 | 1339332 | 921.969 | 950.689 |
| 5)Aroclor-1016 {4} | 5.527 | 5.683 | 431961 | 615422 | 927.285 | 985.843 |
| 6)Aroclor-1016 {5} | 5.642 | 6.058 | 899296 | 445501 | 919.371 | 975.523 |
| 7)Aroclor-1260 {1} | 7.164 | 7.374 | 824215 | 962404 | 934.756 | 1167.564 |
| 8)Aroclor-1260 {2} | 7.415 | 7.457 | 1119650 | 1016282 | 1001.055 | 956.783 |
| 9)Aroclor-1260 {3} | 7.616 | 8.091 | 589728 | 523494 | 971.957 | 991.678 |
| 10)Aroclor-1260 {4} | 8.207 | 8.451 | 696381 | 948459 | 1009.768 | 1101.971m |
| 11)Aroclor-1260 {5} | 8.931 | 9.160 | 1170684 | 838775 | 1020.916 | 956.814m |
| 45)DCB-Surrogate | 10.264 | 10.905 | 1245236 | 1470974 | 83.749 | 96.203 |

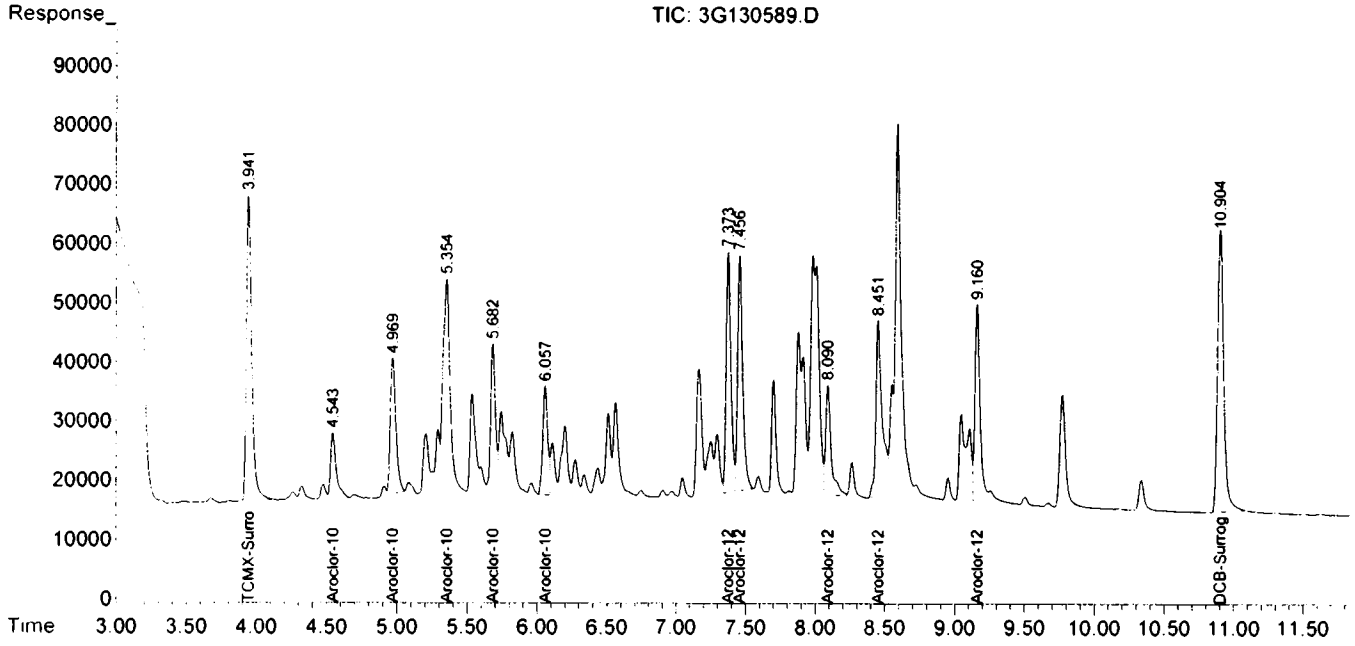
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130589.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 16:53
Operator : MS/MLC/MC
Sample : AD26083-049(MS:AD26083-048)
Misc : A,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 09:33:28 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130590.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 17:08
Operator : MS/MLC/MC
Sample : AD26083-050(MSD:AD26083-048)
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 09:33:54 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

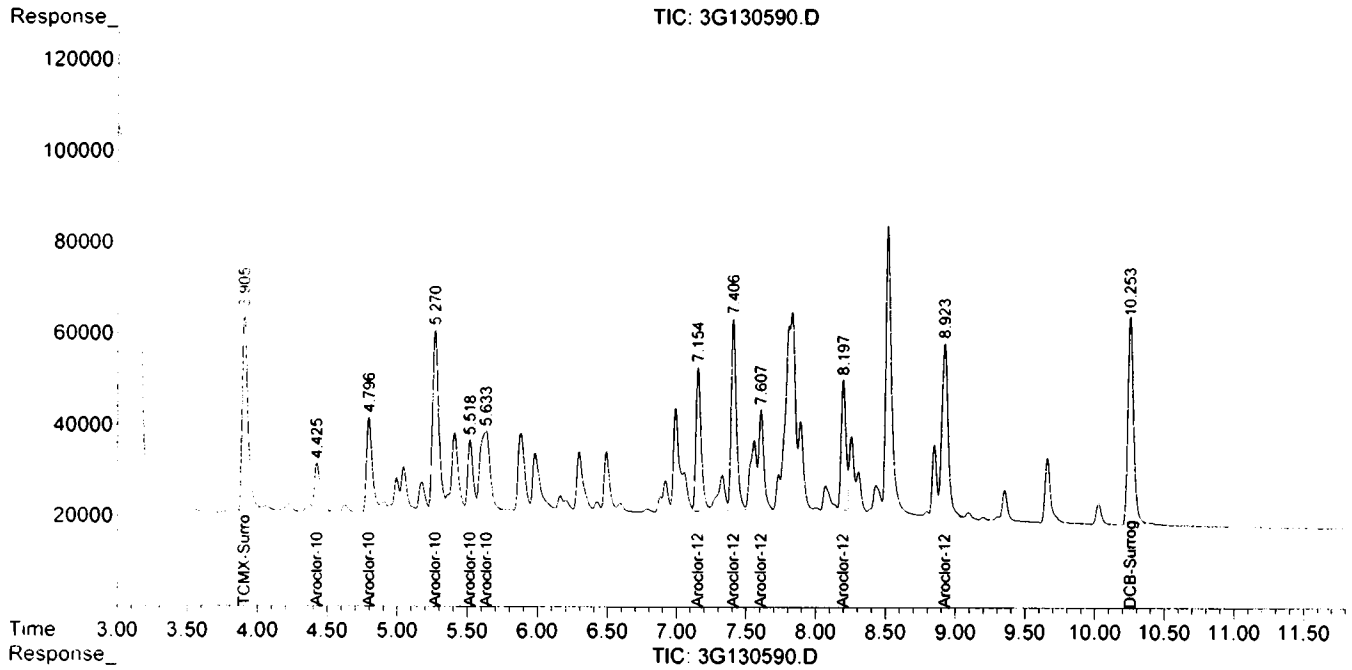
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 3.906 | 3.940 | 1211074 | 1425599 | 75.415 | 89.437 | |
| 2)Aroclor-1016 {1} | 4.426 | 4.541 | 310406 | 322726 | 847.434 | 913.832 | |
| 3)Aroclor-1016 {2} | 4.797 | 4.968 | 591160 | 670253 | 834.820 | 902.982 | |
| 4)Aroclor-1016 {3} | 5.271 | 5.351 | 1221980 | 1379276 | 874.107 | 979.042 | |
| 5)Aroclor-1016 {4} | 5.519 | 5.681 | 405518 | 628750 | 870.520 | 1007.192 | |
| 6)Aroclor-1016 {5} | 5.633 | 6.055 | 847036 | 459713 | 865.944 | 1006.644 | |
| 7)Aroclor-1260 {1} | 7.155 | 7.371 | 815643 | 1006930 | 925.035 | 1227.989 | # |
| 8)Aroclor-1260 {2} | 7.407 | 7.454 | 1100004 | 1067100 | 983.490 | 1004.626 | |
| 9)Aroclor-1260 {3} | 7.608 | 8.087 | 569465 | 553947 | 938.560 | 1049.365 | |
| 10)Aroclor-1260 {4} | 8.198 | 8.448 | 684019 | 999797 | 991.842 | 1161.618m | |
| 11)Aroclor-1260 {5} | 8.924 | 9.156 | 1188968 | 878783 | 1036.861 | 1002.452m | |
| 45)DCB-Surrogate | 10.254 | 10.898 | 1280609 | 1568998 | 86.128 | 102.614 | |

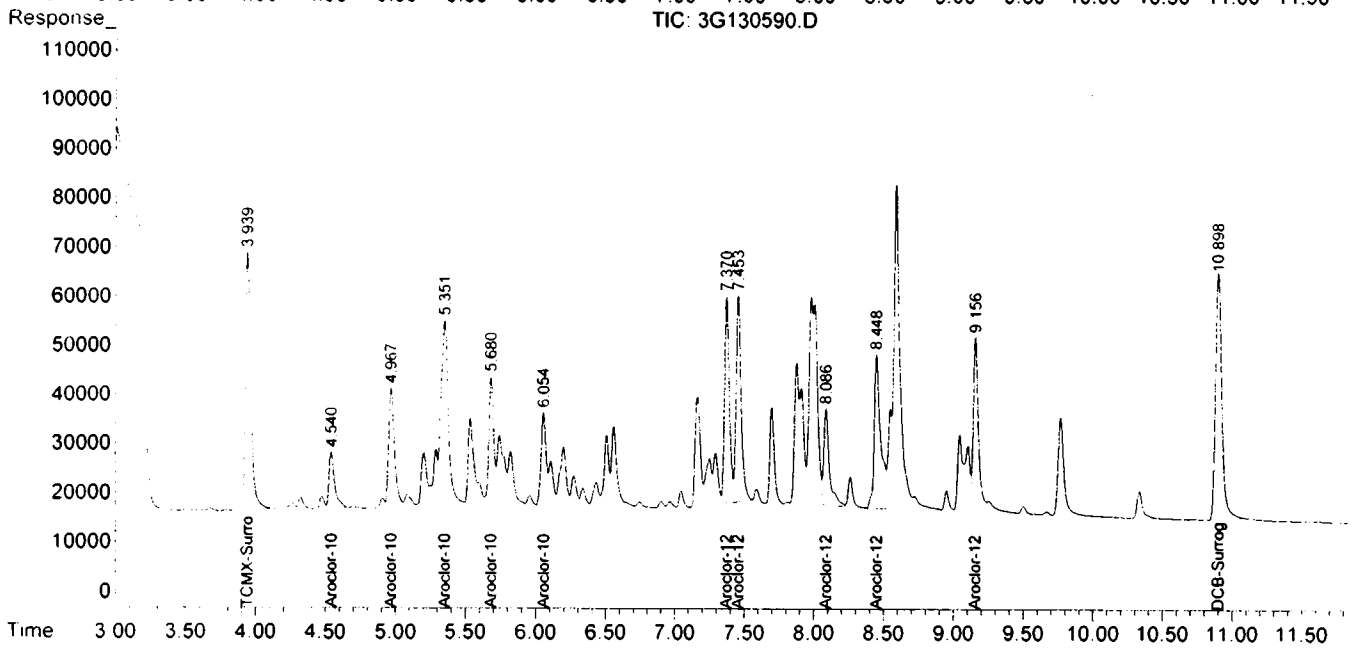
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-21-21\
Data File : 3G130590.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Sep 2021 17:08
Operator : MS/MLC/MC
Sample : AD26083-050(MSD:AD26083-048)
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 09:33:54 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0719.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Jul 20 10:03:24 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_3\Data\09-27-21\
Data File : 3G130720.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2021 23:16
Operator : MS/MLC/MC
Sample : AD26083-048
Misc : A,PCB
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 11:34:42 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

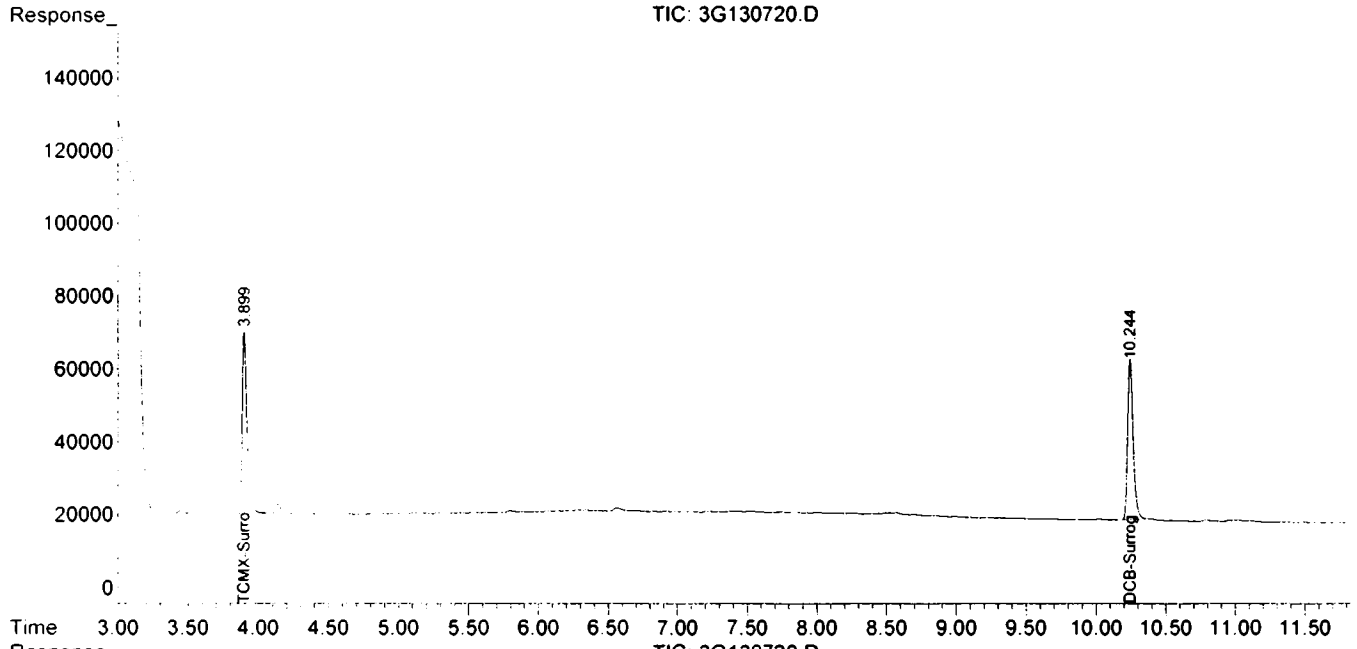
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 3.900 | 3.934 | 1205707 | 1453098 | 65.799 | 70.673 |
| 45) | DCB-Surrogate | 10.244 | 10.889 | 1206306 | 1525486 | 74.217 | 78.157 |

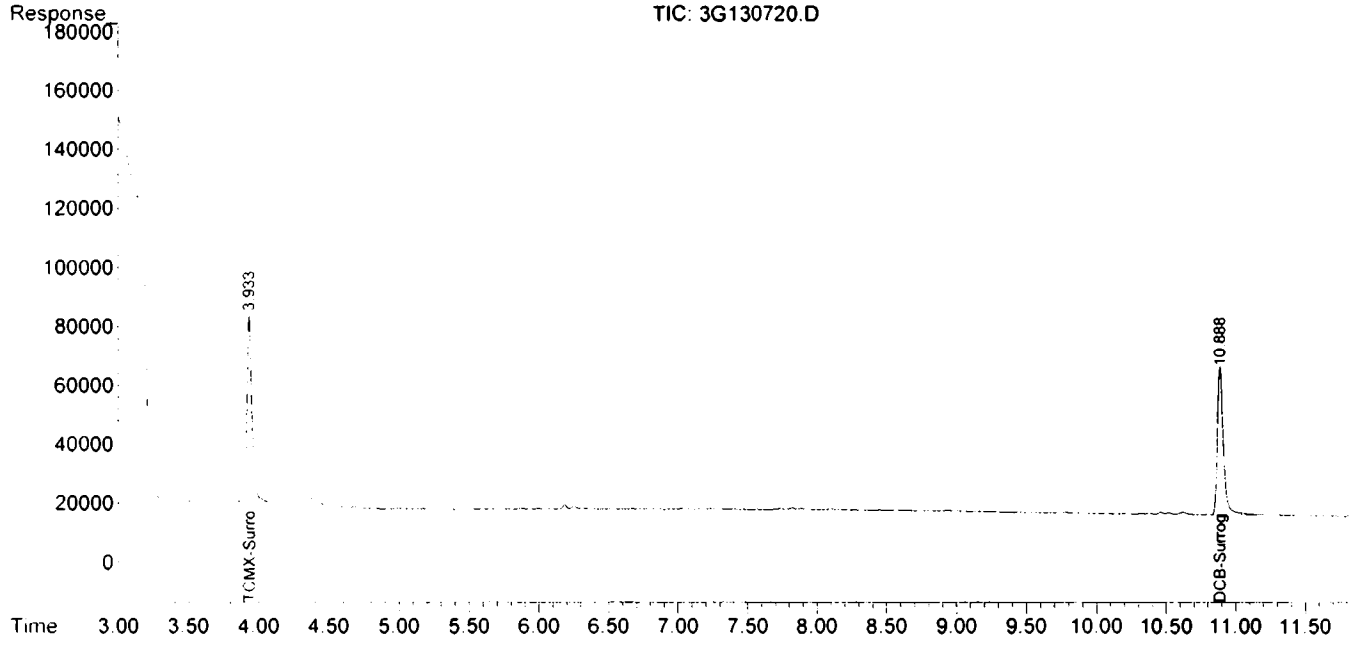
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_3\Data\09-27-21\
Data File : 3G130720.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Sep 2021 23:16
Operator : MS/MLC/MC
Sample : AD26083-048
Misc : A,PCB
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 28 11:34:42 2021
Quant Method : G:\GCDATA\2021\GC_3\METHODQT\3G_C0922M.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Sep 22 15:09:47 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



1091738 1487

# GC PCB Data
# Logbook Data

QC94974 Pest

QC94975 PCB

Hampton-Clarke

Method Blank No. WMB- _____
Blank Spike (WMBS): _____
Blank Spike (WMBS): _____
Start Ext Time: 4:14 pm
End Ext. Time: 4:58 pm
Recirculator: Start temp: 14.0, 14.8
End temp: 14.4, 14.6

Date: 9/20/21
Matrix Spike: 94974 Pest
Matrix Spike: 94975 PCB
Shaker Used: 2,3,4
Condenser Used: 1,2
Condenser Flow: 2500 CCM

**Extraction(Pest)(3510C)(PCB)(3510C) / Other(list):**

| Sample Number | Pest | PCB | Other | Initial Vol | Final Vol | Extracted By/ Comments | TCLP QC | Extraction Fluid |
|---|---|---|---|---|---|---|---|---|
| MB 94974 / 975 | X | X | | 1000mL | 5mL | JM | | |
| MBS 94974 / 975 | X | X | | ↓ | ↓ | ↓ | | |
| MS 26083-049 | X | X | | 1000mL / 980mL | ↓ | | | |
| MSD 26083-050 | X | X | | 980mL / 970mL | ↓ | | | |
| AD 26083-019 | 1 | 1 | | 945mL | ↓ | | | |
| -030 | 2 | 2 | | 985mL | ↓ | | | |
| -032 | 3 | 3 | | 1000mL | ↓ | | | |
| -033 | 4 | 4 | | ↓ | ↓ | | | |
| -035 | 5 | 5 | | 990mL | ↓ | | | |
| -036 | 6 | 6 | | 1000mL | ↓ | | | |
| -038 | 7 | 7 | | 980mL | ↓ | | | |
| -046 | 8 | 8 | | 970mL | ↓ | | | |
| ↓ -048 | 9 | 9 | | 980mL | ↓ | | | |
| AD 25966-001 | 10 | 10 | | 1000mL | ↓ | | | |
| ↓ -002 | 11 | 11 | | 985mL | ↓ | | | |
| AD 25969-003 | 12 | 12 | | 1000mL | ↓ | | | |
| ↓ -005 | 13 | 13 | | ↓ | ↓ | | | |
| ↓ -006 | 14 | 14 | | ↓ | ↓ | | | |
| AD 25960-001 | | 15 | | ↓ | ↓ | | | |
| AD 25982-001 | | 16 | | ↓ | ↓ | | | |
| AD 25983-001 | | 17 | | ↓ | ↓ | | | |
| AD 25976-011 | | 18 | | ↓ | ↓ | | | |
| AD 26083-002 | R | R | | ↓ | ↓ | | | |
| ↓ -040 | R | R | | ↓ | ↓ | ↓ | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | Rack #11 | | |
| | | | | | | | | |
| | | | | | | | | |

Cleanup: Acid X TBA ___ Copper ___ Florisil ___ Other ___

**Spike Standard**

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 10 | 351050 | (Pest) / PCB / Other |
| ↓ | 100 | 355303 | Pest / (PCB) / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |

**Surrogate Standard**

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 10 | 357124 | (Pest / PCB) / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |

Reagent Lots: MeCl2 14160 Acetone _____ Hexane 14137 Na2SO4 14142 Ether ____
MTBE _____ Copper Powder _____ Other _____

Relinquished By: _____ Date: 9/20/21
Received By: _____ Date: 9/21/21

T:\QC\FORMS\LOGBOOK FORMS\extractions\PestPCB Aq Ext Log 2016.doc

QC94962 Pest

QC94963 Pcb

Hampton-Clarke

Method Blank No. WMB- _____
Blank Spike (WMBS): _____
Blank Spike (WMBS): _____
Start Ext Time: 7:00 AM
End Ext. Time: 12:55 PM
Recirculator: Start temp: 14:0/14:8
End temp: 14:0/14:2

Date: 09/19/21
Matrix Spike: 94962-Pest
Matrix Spike: 94963-Pcb
Shaker Used: 2, 3, 4
Condenser Used: 1, 2, 5
Condenser Flow: 2500 CCM

**Extraction: Pest (3510C)/ PCB (3510C) / Other(list):**

| Sample Number | Pest | PCB | Other | Initial Vol | Final Vol | Extracted By/ Comments | TCLP QC | Extraction Fluid |
|---|---|---|---|---|---|---|---|---|
| MB 94962/63 | X | X | | 1000ml | 5ml | LV | | |
| MBS 94962/63 | X | X | | | | | | |
| MS 26083-042 | X | X | | | | | | |
| MSD 26083-044 | X | X | | | | | | |
| RB 26083-040 | 1 | 1 | | | | | | |
| -001 | 2 | 2 | | | | | | |
| -002 | 3 | 3 | | | | | | |
| -003 | 4 | 4 | | | | | | |
| -005 | 5 | 5 | | | | | | |
| -006 | 6 | 6 | | | | | | |
| -008 | 7 | 7 | | | | | | |
| -009 | 8 | 8 | | | | | | |
| -011 | 9 | 9 | | | | | | |
| -012 | 10 | 10 | | | | | | |
| -014 | 11 | 11 | | | | | | |
| -016 | 12 | 12 | | | | | | |
| -018 | 13 | 13 | | | | | | |
| -021 | 14 | 14 | | | | | | |
| -023 | 15 | 15 | | | | | | |
| -026 | 16 | 16 | | | | | | |
| -027 | 17 | 17 | | | | | | |
| -028 | 18 | 18 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | Rack # 24 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Cleanup: Acid ___ TBA ___ Copper ___ Florisil ___ Other ___

Spike Standard

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 10 | 251050 | (Pest) / PCB / Other |
| 1 | 100 | 255707 | Pest / (PCB) / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |

Surrogate Standard

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 10 | 257124 | (Pest / PCB) Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |

Reagent Lots: MeCl2 14160 Acetone _____ Hexane 19137 Na2SO4 14142 Ether ____
MTBE _____ Copper Powder _____ Other _____

Relinquished By: LV Date: 09/19/21
Received By: Matt. Date: 9/20/21

T:\QC\FORMS\LOGBOOK FORMS\extractions\PestPCB Aq Ext Log 2016.doc

# RUN LOG

Instrument: GC_3 Year: 2021
Analyst: MS/MLC/J

1-1-3G128880

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 3G128880 | 1000PPB | CnSd | | | | Soil | 0.5 | 1 | 8082 | 07/19 07:47 |
| 3G128881 | 500PPB | Cn | | | | Soil | 1 | 1 | 8082 | 07/19 08:57 |
| 3G128882 | 500PPB | Cn | | | | Soil | 1 | 1 | 8082 | 07/19 09:22 |
| 3G128887 | CAL 2154@500PPB | | OK,V-347878 | MS 07/20/21 | | Soil | 1 | 1 | 608\8082 | 07/19 10:37 |
| 3G128888 | CAL 3268@500PPB | | OK,V-347875 | MS 07/20/21 | | Soil | 1 | 1 | 608\8082 | 07/19 10:52 |
| 3G128889 | CAL 1242@500PPB | | OK,V-347876 | MS 07/20/21 | | Soil | 1 | 1 | 608\8082 | 07/19 11:07 |
| 3G128890 | CAL 1248@500PPB | | OK,V-347877 | MS 07/20/21 | | Soil | 1 | 1 | 608\8082 | 07/19 11:21 |
| 3G128891 | CAL 1262@500PPB | | OK,V-347879 | MS 07/20/21 | | Soil | 1 | 1 | 608\8082 | 07/19 11:36 |
| 3G128892 | CAL 1660@50PPB | | OK,V-347885 | MS 07/20/21 | | Soil | 1 | 1 | 608\8082 | 07/19 11:51 |
| 3G128893 | CAL 1660@200PPB | | OK,V-347884 | MS 07/20/21 | | Soil | 1 | 1 | 608\8082 | 07/19 12:06 |
| 3G128894 | CAL 1660@500PPB | | OK,V-347883 | MS 07/20/21 | | Soil | 1 | 1 | 608\8082 | 07/19 12:21 |
| 3G128895 | CAL 1660@1000PP | | OK,V-347882 | MS 07/20/21 | | Soil | 1 | 1 | 608\8082 | 07/19 12:36 |
| 3G128896 | CAL 1660@2000PP | | OK,V-347881 | MS 07/20/21 | | Soil | 1 | 1 | 608\8082 | 07/19 12:51 |
| 3G128897 | CAL 1660@4000PP | | OK,V-347880 | MS 07/20/21 | | Soil | 1 | 1 | 608\8082 | 07/19 13:06 |
| 3G128898 | ICV | Cme | OK,V-347886 | MS 07/20/21 | | Soil | 1 | 1 | 8082 | 07/19 13:31 |
| 3G128899 | PEST WS | CmeS8Do | OK,V-347887 | MS 07/20/21 | | Soil | 1 | 1 | 8082 | 07/19 13:46 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| B6m | Blank 600 series missing | Ftn | Tclp/Solvent Extraction Date Missing/Not check'd | Cro | C30/C20 failed for eob |
| B8m | Blank 8000 series missing | Fto | Tclp Extraction Performed Outside of Hold | EvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Evnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hb | Analysis Before Collection Date | Evrc | Eval Mix missing ddt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rpd Out on MsMsd (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rpd Out on MsMsd (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Rto | Retention Time Out Or %Diff Out |
| C6f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rtn | Can't Calculate Ddft |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Prob with calmd csv for init calibration chek rls | S6 | 600 series surrogate out |
| Cme | Endrin Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GC_3 Year: 2021
Analyst: MS/MLC/M

1-1-3G130498

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 3G130498. | 500PPB | Cn | NOT USED | MS 09/20/21 | | Soil | 1 | 1 | 8082 | 09/19 15:40 |
| 3G130499. | CAL 1660@1000PP | | OK,V-347883,V-347882 | MS 09/20/21 | | Soil | 0.5 | 1 | 608\8082 | 09/19 15:55 |
| 3G130500. | WMB94942(MS) | | OK WMB94942 | MS 09/20/21 | | Aqueous | 1 | 1 | 608\8082 | 09/19 16:40 |
| 3G130501. | AD25967-001(MS) | | OK WMB94942 | MS 09/20/21 | PCB-608.3 | Aqueous | 1 | 1 | 608\8082 | 09/19 16:54 |
| 3G130502. | AD25967-001(MSD) | | OK WMB94942 | MS 09/20/21 | PCB-608.3 | Aqueous | 1 | 1 | 608\8082 | 09/19 17:09 |
| 3G130503. | AD25967-001 | | OK WMB94942 | MS 09/20/21 | PCB-608.3 | Aqueous | 1 | 1 | 608\8082 | 09/19 17:24 |
| 3G130504. | AD25950-001 | | OK | MS 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/19 17:39 |
| 3G130505. | AD25950-005 | | OK | MS 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/19 17:53 |
| 3G130506. | AD25806-001(R) | | OK | MS 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/19 18:08 |
| 3G130507. | SMB94919(MS) | | OK SMB94919 | MS 09/20/21 | | Soil | 1 | 1 | 8082 | 09/19 18:23 |
| 3G130508. | AD25970-001 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/19 18:38 |
| 3G130509. | AD25970-002 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/19 18:53 |
| 3G130510. | AD25970-003 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/19 19:07 |
| 3G130511. | AD25970-004 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/19 19:22 |
| 3G130512. | AD25970-005 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/19 19:37 |
| 3G130513. | AD25970-006 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/19 19:52 |
| 3G130514. | AD25941-001 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/19 20:07 |
| 3G130515. | AD25941-002 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/19 20:21 |
| 3G130516. | AD25941-003 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/19 20:36 |
| 3G130517. | AD25962-001 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/19 20:51 |
| 3G130518. | SMB94898(MS) | | OK SMB94898 | MS 09/20/21 | | Soil | 1 | 1 | 8082 | 09/19 21:06 |
| 3G130519. | SMB94893(MS) | | OK SMB948931 | MS 09/20/21 | | Soil | 1 | 1 | 8082 | 09/19 21:21 |
| 3G130520. | 1000PPB | Tm | OK | MS 09/20/21 | | Soil | 0.5 | 1 | 8082 | 09/19 21:36 |
| 3G130521. | CAL 1660@2000PP | | OK | MS 09/20/21 | | Soil | 0.25 | 1 | 608\8082 | 09/19 21:51 |
| 3G130522. | OMB94949(MS) | | OK OMB94949 | MS 09/20/21 | | OIL/OTH | 1 | 1 | 8082 | 09/19 22:06 |
| 3G130523. | SMB94945(MS) | | OK SMB94945 | MS 09/20/21 | | Soil | 1 | 1 | 8082 | 09/19 22:21 |
| 3G130524. | SMB94947(MS) | | OK SMB94947 | MS 09/20/21 | | Soil | 1 | 1 | 8082 | 09/19 22:36 |
| 3G130525. | SMB94956 | | OK | MS 09/20/21 | | Soil | 1 | 1 | 8082 | 09/19 22:51 |
| 3G130526. | SMB94956(MS) | | OK SMB94956 | MS 09/20/21 | | Soil | 1 | 1 | 8082 | 09/19 23:05 |
| 3G130527. | SMB94955 | | OK | MS 09/20/21 | | Soil | 1 | 1 | 8082 | 09/19 23 21 |
| 3G130528. | SMB94955(MS) | | OK SMB94955 | MS 09/20/21 | | Soil | 1 | 1 | 8082 | 09/19 23:35 |
| 3G130529. | AD25976-007 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/19 23:50 |
| 3G130530. | AD25976-006 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/20 00:05 |
| 3G130531. | AD25934-009 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/20 00:20 |
| 3G130532. | AD25962-002 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/20 00:35 |
| 3G130533. | AD25962-003 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/20 00:49 |
| 3G130534. | AD25962-004 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/20 01:04 |
| 3G130535. | AD25962-005 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/20 01:19 |
| 3G130536. | AD25976-010 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/20 01:34 |
| 3G130537. | AD25976-009 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/20 01:49 |
| 3G130538. | AD25976-008 | | OK | MS 09/20/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/20 02:03 |
| 3G130539. | AD26083-001 | | OK | MS 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 02:18 |
| 3G130540. | AD26083-002 | | RE-EXT | MS 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 02:33 |
| 3G130541. | AD26083-003 | | OK | MS 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 02:48 |
| 3G130542. | 1000PPB | TmTmw | NOT USED | MS 09/20/21 | | Aqueous | 0.5 | 1 | 608\8082 | 09/20 03:02 |
| 3G130543. | CAL 1660@2000PP | | OK | MS 09/20/21 | | Aqueous | 0.25 | 1 | 608\8082 | 09/20 03:17 |
| 3G130544. | WMB94963 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | | Aqueous | 1 | 1 | 608\8082 | 09/20 03:32 |
| 3G130545. | WMB94963(MS) | | OK, USE 1ST COLUMN,OK, ANY COLUMN WMB94963 | MS 09/20/21,MLC 09/20/21 | | Aqueous | 1 | 1 | 608\8082 | 09/20 03:47 |
| 3G130546 | AD26083-042(MS:A | | OK, USE 1ST COLUMN,OK, ANY COLUMN WMB94963 | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 608\8082 | 09/20 04:01 |
| 3G130547. | AD26083-044(MSD. | | OK, USE 1ST COLUMN,OK, ANY COLUMN WMB94963 | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 608\8082 | 09/20 04:16 |
| 3G130548. | AD26083-040 | | RE-EXT | MS 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 608\8082 | 09/20 04:31 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| B6m | Blank 600 series missing | Fto | Tclo/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for eob |
| B8m | Blank 8000 series missing | Fto | Tclo Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hb | Analysis Before Collection Date | Fvrc | Eval Mix missing ddt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rpd Out on MsMsd (col1 and or col2) 600 series |
| C26 | Calibration: Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rpd Out on MsMsd (col1 and or col2) 8000 series |
| C28 | Calibration: Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C6I | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rto | Can't Calculate Ddft |
| C8I | 8000 series sample/blank did not have passing cal | Iv | Prob with calmt csv for ini calibration chek ds | S6 | 600 series surrogate out |
| Cme | Endrin Cal missing for sample (8000 series) | Iw | Initial cal warning: Ini cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6,Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

1-1-3G130549

Instrument: GC_3 Year: 2021
Analyst: MS/MLC/M

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 3G130549. | AD26083-005 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 04:46 |
| 3G130550. | AD26083-006 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 05:01 |
| 3G130551. | AD26083-008 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 05:15 |
| 3G130552. | AD26083-009 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 05:30 |
| 3G130553. | AD26083-011 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 05:45 |
| 3G130554. | AD26083-012 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 06:00 |
| 3G130555. | AD26083-014 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 06:15 |
| 3G130556. | AD26083-016 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 06:29 |
| 3G130557. | AD26083-018 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 06:44 |
| 3G130558. | AD26083-021 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 06 59 |
| 3G130559. | AD26083-023 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 07:14 |
| 3G130560. | AD26083-026 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 07:29 |
| 3G130561. | AD26083-027 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 07:44 |
| 3G130562. | AD26083-028 | | OK, USE 1ST COLUMN,OK, ANY COLUMN | MS 09/20/21,MLC 09/20/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/20 07:58 |
| 3G130563 | 1000PPB | Tmw | NOT USED | MS 09/20/21 | | Aqueous | 0.5 | 1 | 608\8082 | 09/20 08:13 |
| 3G130564. | CAL 1660@2000PP | | OK | MS 09/20/21 | | Aqueous | 0.25 | 1 | 608\8082 | 09/20 12:45 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 ... not checked |
| B6m | Blank 600 series missing | Ftn | Tclp/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for eoh |
| B8m | Blank 8000 Series missing | Fto | Tclp Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assumed | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvrc | Eval Mix missing ddt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rpd Out on MsMsd (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rpd Out on MsMsd (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C6f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rtn | Can't Calculate Diff |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Prob with calmt.csv for init calibration chek.rls | S6 | 600 series surrogate out |
| Cme | Endrin Cal missing for sample (8000 series) | Iw | Initial cal warning. Ini.cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a sampl | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GC_3 Year: 2021
Analyst: MS/MLC/M

1-1-3G130566

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 3G130566 | 1000PPB | Cn | NOT USED | MS 09/21/21 | | Aqueous | 0.5 | 1 | 608\8082 | 09/21 07:38 |
| 3G130567 | CAL 1660@2000PP | | OK,V-347881 | MS 09/21/21 | | Aqueous | 0.25 | 1 | 608\8082 | 09/21 07:55 |
| 3G130568 | WMB94975 | | OK | MS 09/21/21 | | Aqueous | 1 | 1 | 608\8082 | 09/21 08:42 |
| 3G130569 | WMB94975(MS) | | OK WMB94975 | MS 09/21/21 | | Aqueous | 1 | 1 | 608\8082 | 09/21 08:57 |
| 3G130570 | AD25966-001 | | OK | MS 09/21/21 | PCB-608.3 | Aqueous | 1 | 1 | 608 | 09/21 09:12 |
| 3G130571 | AD25966-002 | | OK | MS 09/21/21 | PCB-608.3 | Aqueous | 1 | 1 | 608 | 09/21 09:27 |
| 3G130572 | AD25976-011 | | OK | MS 09/21/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/21 09:41 |
| 3G130573 | OMB94982 | | OK | MS 09/21/21 | | OIL/OTH | 1 | 1 | 8082 | 09/21 09:56 |
| 3G130574 | OMB94982(MS) | | OK OMB94982 | MS 09/21/21 | | OIL/OTH | 1 | 1 | 8082 | 09/21 10:11 |
| 3G130575 | SMB94980 | | OK | MS 09/21/21 | | Soil | 1 | 1 | 8082 | 09/21 10:26 |
| 3G130576 | SMB94980(MS) | | OK SMB94980 | MS 09/21/21 | | Soil | 1 | 1 | 8082 | 09/21 10:42 |
| 3G130577 | SMB94979 | | OK | MS 09/21/21 | | Soil | 1 | 1 | 8082 | 09/21 10:57 |
| 3G130578 | SMB94979(MS) | | OK SMB94979 | MS 09/21/21 | | Soil | 1 | 1 | 8082 | 09/21 11:12 |
| 3G130579 | AD26043-001 | | OK | MS 09/21/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 11:26 |
| 3G130580 | AD26017-001 | | OK | MS 09/21/21,MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 11:41 |
| 3G130581 | AD26017-002 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 11:56 |
| 3G130582 | AD26017-003 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 12:11 |
| 3G130583 | AD26017-004 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 12:26 |
| 3G130584 | AD26017-005 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 12:41 |
| 3G130585 | AD25989-004 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 12:56 |
| 3G130586 | AD25989-005 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 13:11 |
| 3G130587 | AD25989-006 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 13:26 |
| 3G130588 | CAL 1660@2000PP | | OK | MS 09/22/21 | | Soil | 0.25 | 1 | 608\8082 | 09/21 16:11 |
| 3G130589 | AD26083-049(MS:A | | OK WMB94975 | MS 09/22/21 | PCB-8082 | Aqueous | 1 | 1 | 608\8082 | 09/21 16:53 |
| 3G130590 | AD26083-050(MSD: | | OK WMB94975 | MS 09/22/21 | PCB-8082 | Aqueous | 1 | 1 | 608\8082 | 09/21 17:08 |
| 3G130591 | AD25982-001 | | OK | MS 09/22/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/21 17:23 |
| 3G130592 | AD25983-001 | | OK | MS 09/22/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/21 17:38 |
| 3G130593 | AD25989-001 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 17:53 |
| 3G130594 | AD25989-002 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 18:08 |
| 3G130595 | AD25981-001 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 18:22 |
| 3G130596 | AD25981-002 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 18:37 |
| 3G130597 | AD25981-003 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 18:52 |
| 3G130598 | AD25981-004 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 19:07 |
| 3G130599 | AD25981-005 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 19:22 |
| 3G130600 | AD25981-006 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 19:36 |
| 3G130601 | AD25981-007 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 19:51 |
| 3G130602 | AD25981-008 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 20:06 |
| 3G130603 | AD25981-009 | | OK | MS 09/22/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/21 20:21 |
| 3G130604 | 1000PPB | | NOT USED | MS 09/22/21 | | Soil | 0.5 | 1 | 8082 | 09/21 20:36 |
| 3G130605 | CAL 1660@2000PP | | OK | MS 09/22/21 | | Soil | 0.25 | 1 | 608\8082 | 09/21 20:51 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 ... not checked |
| B6m | Blank 600 series missing | Ftn | Tdn/Solvent Extraction Date Missing/Not check'd | Cro | C30/C20 failed for eob |
| B8m | Blank 8000 series missing | Fto | Tdo Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Fvrc | Eval Mix missing dlt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rnd Out on MsMsd (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rnd Out on MsMsd (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C6f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rto | Can't Calculate Drift |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Prob with calmd.csv for init calibration chek rfs | S6 | 600 series surrogate out |
| Cme | Ending Cal missing for sample (8000 series) | Iw | Initial cal warning. Ini cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6.Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GC_3 Year: 2021
Analyst: MS/MLC/M

1-1-3G130611

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 3G130611 | CAL 2154@500PPB | | OK,V-347878 | MS 09/29/21 | | Soil | 1 | 1 | 608\8082 | 09/22 10:45 |
| 3G130612 | CAL 3268@500PPB | | OK,V-347875 | MS 09/29/21 | | Soil | 1 | 1 | 608\8082 | 09/22 11:32 |
| 3G130613 | CAL 1242@500PPB | | OK,V-347876 | MS 09/29/21 | | Soil | 1 | 1 | 608\8082 | 09/22 11:47 |
| 3G130614 | CAL 1248@500PPB | | OK,V-347877 | MS 09/29/21 | | Soil | 1 | 1 | 608\8082 | 09/22 12:01 |
| 3G130615 | CAL 1262@500PPB | | OK,V-347879 | MS 09/29/21 | | Soil | 1 | 1 | 608\8082 | 09/22 12:16 |
| 3G130616 | CAL 1660@50PPB | | OK,V-347885 | MS 09/29/21 | | Soil | 1 | 1 | 608\8082 | 09/22 12:31 |
| 3G130617 | CAL 1660@200PPB | | OK,V-347884 | MS 09/29/21 | | Soil | 1 | 1 | 608\8082 | 09/22 12:46 |
| 3G130618 | CAL 1660@500PPB | | OK,V-347883 | MS 09/29/21 | | Soil | 1 | 1 | 608\8082 | 09/22 13:01 |
| 3G130619 | CAL 1660@1000PP | | OK,V-347882 | MS 09/29/21 | | Soil | 1 | 1 | 608\8082 | 09/22 13:16 |
| 3G130620 | CAL 1660@2000PP | | OK,V-347881 | MS 09/29/21 | | Soil | 1 | 1 | 608\8082 | 09/22 13:31 |
| 3G130621 | CAL 1660@4000PP | | OK,V-347880 | MS 09/29/21 | | Soil | 1 | 1 | 608\8082 | 09/22 13:45 |
| 3G130622 | ICV | Cme | OK,V-357725 | MS 09/29/21 | | Soil | 1 | 1 | 8082 | 09/22 14:00 |
| 3G130623 | PEST WS | CmeS8Do | OK,V-347887 | MS 09/29/21 | | Soil | 1 | 1 | 8082 | 09/22 14:15 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 ... not checked |
| B6m | Blank 600 series missing | Fto | Tclp/Solvent Extraction Date Missing/Not check'd | Cro | C30/C20 failed for anh |
| B8m | Blank 8000 series missing | Fto | Tclp Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hb | Analysis Before Collection Date | Fvrr | Eval Mix missing ddt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rpd Out on MsMsd (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rpd Out on MsMsd (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C6t | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rto | Can't Calculate Opft |
| C8t | 8000 series Sample/blank did not have passing cal | Iv | Prob with calmd.csv for ini calibration chek rls | S6 | 600 series surrogate out |
| Cme | Endrin Cal missing for sample (8000 series) | Iw | Initial cal warning, for cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a sampl | Sa6,Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GC_3 Year: 2021
Analyst: MS/MLC/M

1-1-3G130696

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 3G130696 | 1000PPB | Cn | NOT USED | MS 09/28/21 | | Soil | 0.5 | 1 | 8082 | 09/27 08:49 |
| 3G130697 | CAL 1660@1000PPC16 | | OK,OK,V-347882,V-347881 | MS 09/27/21,MS 09/28/21,MS 09/28/21 | | Soil | 0.5 | 1 | 608\8082 | 09/27 16:43 |
| 3G130698 | AD25988-001 | Eo | OK | MS 09/27/21,MS 09/28/21,MS 09/28/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/27 16:59 |
| 3G130699 | AD26139-001 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 18:05 |
| 3G130700 | AD26139-002 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 18:20 |
| 3G130701 | AD26139-003 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 18:35 |
| 3G130702 | AD26139-004 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 18:49 |
| 3G130703 | AD26139-005 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 19:04 |
| 3G130704 | AD26130-002 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 19:19 |
| 3G130705 | AD26144-003 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 19:34 |
| 3G130706 | AD26144-006 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 19:49 |
| 3G130707 | AD26204-003 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 20:04 |
| 3G130708 | AD26211-001 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 20:18 |
| 3G130709 | AD26211-003 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 20:33 |
| 3G130710 | AD26016-002 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 20:48 |
| 3G130711 | AD26018-001 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 21:03 |
| 3G130712 | AD26160-004(MS) | | OK SMB95029 | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 21:18 |
| 3G130713 | AD26160-004(MSD) | | OK SMB95029 | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 21:33 |
| 3G130714 | AD26160-004 | | OK SMB95029 | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 21:47 |
| 3G130715 | CAL 1660@1000PP | | OK | MS 09/28/21 | | Soil | 0.5 | 1 | 608\8082 | 09/27 22:02 |
| 3G130716 | 2000PPB | | NOT USED | MS 09/28/21 | | Soil | 0.25 | 1 | 8082 | 09/27 22:17 |
| 3G130717 | AD26160-001 | | RR | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/27 22:32 |
| 3G130718 | AD26083-002(R) | | OK | MS 09/28/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/27 22:47 |
| 3G130719 | AD26083-046 | | OK | MS 09/28/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/27 23:01 |
| 3G130720 | AD26083-048 | | OK WMB94975 | MS 09/28/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/27 23:16 |
| 3G130721 | AD25960-001 | Esm | OK | MS 09/28/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/27 23:31 |
| 3G130722 | AD26120-001(MS) | | OK WMB95021 | MS 09/28/21 | PCB-8082 | Aqueous | 1 | 1 | 608\8082 | 09/27 23:46 |
| 3G130723 | AD26120-001(MSD) | | OK WMB95021 | MS 09/28/21 | PCB-8082 | Aqueous | 1 | 1 | 608\8082 | 09/28 00:01 |
| 3G130724 | AD26160-002 | | RR | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/28 00:15 |
| 3G130725 | AD26160-003 | | RR | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/28 00:30 |
| 3G130726 | AD26160-005 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/28 00:45 |
| 3G130727 | AD26160-006 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/28 01:00 |
| 3G130728 | AD26112-006 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/28 01:15 |
| 3G130729 | AD26123-001 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/28 01:30 |
| 3G130730 | AD26123-002 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/28 01:44 |
| 3G130731 | AD26123-005 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/28 01:59 |
| 3G130732 | AD26123-006 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/28 02:14 |
| 3G130733 | AD26139-006 | | OK | MS 09/28/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/28 02:29 |
| 3G130734 | 1000PPB | | NOT USED | MS 09/28/21 | | Soil | 0.5 | 1 | 8082 | 09/28 02:44 |
| 3G130735 | CAL 1660@2000PPC16 | | OK | MS 09/28/21 | | Soil | 0.25 | 1 | 608\8082 | 09/28 02:58 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Eo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Esm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| B6m | Blank 600 Series missing | Eto | Tclp/Solvent Extraction Date Missing/Not check'd | Cro | C30/C20 failed for enh |
| B8m | Blank 8000 Series missing | Eto | Tclp Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Ev | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hb | Analysis Before Collection Date | Fvrc | Eval Mix missing drt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rpd Out on MsMsd (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rpd Out on MsMsd (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C6f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rto | Can't Calculate Dpft |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Prob with calmd csv for ini calibration chek rls | S6 | 600 series surrogate out |
| Cme | Endrin Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6.Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GC_3 Year: 2021
Analyst: MS/MLC/M

1-1-3G130754

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 3G130754 | 1000PPB | Cn | NOT USED | MS 09/29/21 | | Soil | 0.5 | 1 | 8082 | 09/29 08:43 |
| 3G130755 | CAL 1660@1000PP | | OK,V-347882 | MS 09/29/21 | | Soil | 0.5 | 1 | 608\8082 | 09/29 09:01 |
| 3G130756 | WMB95063 | | OK | MS 09/29/21 | | Aqueous | 1 | 1 | 608\8082 | 09/29 09:17 |
| 3G130757 | WMB95063(MS) | | OK WMB95063 | MS 09/29/21 | | Aqueous | 1 | 1 | 608\8082 | 09/29 09:32 |
| 3G130758 | AD26174-001 | | OK WMB95063 | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 608\8082 | 09/29 09:47 |
| 3G130759 | AD26185-001 | | OK | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/29 10:02 |
| 3G130760 | AD26228-001 | | OK | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/29 10:16 |
| 3G130761 | AD26228-002 | | OK | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/29 10:31 |
| 3G130762 | AD26228-003 | | OK | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/29 10:46 |
| 3G130763 | AD26228-004 | | OK | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/29 11:01 |
| 3G130764 | AD26228-005 | | OK | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/29 11:16 |
| 3G130765 | AD26083-040(R) | | OK WMB94963 | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 608\8082 | 09/29 11:31 |
| 3G130766 | AD26083-019 | | OK | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/29 11:46 |
| 3G130767 | AD26083-030 | | OK | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/29 12:01 |
| 3G130768 | AD26083-032 | | OK | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/29 12:15 |
| 3G130769 | AD26083-033 | | OK | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/29 12:30 |
| 3G130770 | AD26083-035 | | OK | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/29 12:45 |
| 3G130771 | AD26083-036 | | OK | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/29 13:00 |
| 3G130772 | AD26083-038 | | OK | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 8082 | 09/29 13:15 |
| 3G130773 | AD26140-003 | | OK | MS 09/29/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/29 13:30 |
| 3G130774 | CAL 1660@1000PP | | OK | MS 09/29/21 | | Soil | 0.5 | 1 | 608\8082 | 09/29 13:53 |
| 3G130775 | WMB95074 | | OK | MS 09/29/21 | | Aqueous | 1 | 1 | 608\8082 | 09/29 14:21 |
| 3G130776 | WMB95074(MS) | | OK WMB95074 | MS 09/29/21 | | Aqueous | 1 | 1 | 608\8082 | 09/29 14:36 |
| 3G130777 | AD26176-001 | | OK | MS 09/29/21 | PCB-608.3 | Aqueous | 1 | 1 | 608 | 09/29 14:51 |
| 3G130778 | AD26183-002 | | RR | MS 09/29/21 | PCB-8082 | Aqueous | 1 | 1 | 608\8082 | 09/29 15:05 |
| 3G130779 | AD26183-002(MS) | | OK WMB95074 | MS 09/30/21 | PCB-8082 | Aqueous | 1 | 1 | 608\8082 | 09/29 15:20 |
| 3G130780 | AD26183-002(MSD) | | OK WMB95074 | MS 09/30/21 | PCB-8082 | Aqueous | 1 | 1 | 608\8082 | 09/29 15:35 |
| 3G130781 | AD26214-005 | | OK | MS 09/30/21 | PCB-8082 | Soil | 1 | 1 | 8082 | 09/29 15:50 |
| 3G130782 | SMB95067(MS) | | OK SMB95067 | MS 09/30/21 | | OIL/OTH | 1 | 1 | 8082 | 09/29 17:04 |
| 3G130783 | SMB95067(MS)(DU | | OK SMB95067 | MS 09/30/21 | | OIL/OTH | 1 | 1 | 8082 | 09/29 17:19 |
| 3G130784 | SMB95068(MS) | | OK SMB95068 | MS 09/30/21 | | Soil | 1 | 1 | 8082 | 09/29 17:34 |
| 3G130785 | SMB95068(MS)(DU | | OK SMB95068 | MS 09/30/21 | | Soil | 1 | 1 | 8082 | 09/29 17:49 |
| 3G130786 | CAL 1660@1000PP | | OK | MS 09/30/21 | | OIL/OTH | 0.5 | 1 | 608\8082 | 09/29 18:04 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fe | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| B6m | Blank 600 series missing | Fte | Tclp/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for eob |
| B8m | Blank 8000 series missing | Fto | Tclp Extraction Performed Outside of Hold | FvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Fv | Eval Time Exceeded | Fvnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hb | Analysis Before Collection Date | Fvo | Eval Mix missing ddt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rpd Out on MsMsd (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rpd Out on MsMsd (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C6f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rto | Can't Calculate Drift |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Prob with calmd csv for ini calibration chek rls | S6 | 600 series surrogate out |
| Cme | Endrop Cal missing for sample (8000 series) | Iw | Initial cal warning In cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samplt | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series). |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-336211

Prepared By: Bis, Yolanta
Description: BNA-Pest Mix(Danger)
Prep Date: 10/7/2020
Expiration Date: 10/7/2021
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 10/07/20
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13483 | 4,4'-DDD | .05 g | NEAT neat | 5000 ppm |
| 13106 | 4,4' -DDE | .05 g | NEAT neat | 5000 ppm |
| 12495 | 4,4' -DDT | .05 g | NEAT neat | 5000 ppm |
| 13117 | Methylene Chloride optima | 10 ml | neat neat | |

## Veritech Lot Number: V-346410

Prepared By: Ceus, Mahalia
Description: PEST/PCB GC SURR (DANGER)
Prep Date: 3/23/2021
Expiration Date: 3/23/2022
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 03/31/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13739 | acetone | 100 ml | neat neat | |
| 12494 | Decachlorobiphenyl | 20 mg | NEAT neat | 200 ppm |
| 12522 | 2,4,5,6-Tetrachloro-m-Xylene | 20 mg | NEAT neat | 200 ppm |

## Veritech Lot Number: V-347869

Prepared By: Ceus, Mahalia
Description: 1660 PCB INTERMEDIATE (DANGER)
Prep Date: 3/26/2021
Expiration Date: 9/26/2021
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 3750 ul | neat neat | |
| 12958 | Aroclor 1016 Solution | 500 ul | 1000 ppm | 100 ppm |
| 13529 | Aroclor 1260 | 500 ul | 1000 ppm | 100 ppm |
| V-346410 | PEST/PCB GC SURR (DANGER) | 250 ul | 200 ppm | 10 ppm |

## Veritech Lot Number: V-347870

Prepared By: Ceus, Mahalia
Description: 3268 INTER
Prep Date: 4/9/2021
Expiration Date: 10/9/2021
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13818 | n-hexane | 750 ul | neat neat | |
| V-346410 | PEST/PCB GC SURR (DANGER) | 50 ul | 200 ppm | 10 ul |
| 12297 | Aroclor 1232 | 100 ul | 1000 ppm | 100 ul |
| 11255 | Aroclor 1268 STD | 100 ul | 1000 ppm | 100 ul |

## Veritech Lot Number: V-347871

Prepared By: Ceus, Mahalia
Description: 1242 INTER
Prep Date: 4/9/2021
Expiration Date: 10/9/2021
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13818 | n-hexane | 850 ul | neat neat | |
| V-346410 | PEST/PCB GC SURR (DANGER) | 50 ul | 200 ppm | 10 ppm |
| 12296 | Aroclor 1242 | 100 ul | 1000 ppm | 100 ppm |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-347872

Prepared By: Ceus, Mahalia
Description: 1248 INTER
Prep Date: 4/9/2021
Expiration Date: 10/9/2021
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13818 | n-hexane | 850 ul | neat neat | |
| V-346410 | PEST/PCB GC SURR (DANGER) | 50 ul | 200 ppm | 10 ppm |
| 12295 | Aroclor 1248 | 100 ul | 1000 ppp | 100 ppm |

## Veritech Lot Number: V-347873

Prepared By: Ceus, Mahalia
Description: 2154 INTER
Prep Date: 4/9/2021
Expiration Date: 10/9/2021
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13818 | n-hexane | 750 ul | neat neat | |
| V-346410 | PEST/PCB GC SURR (DANGER) | 50 ul | 200 ppm | 10 ppm |
| 13203 | Aroclor 1221 Solution | 100 ul | 1000 ppm | 100 ppm |
| 13204 | Aroclor 1254 Solution | 100 ul | 1000 ppm | 100 ppm |

## Veritech Lot Number: V-347874

Prepared By: Ceus, Mahalia
Description: 1262 INTER
Prep Date: 4/9/2021
Expiration Date: 10/9/2021
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13818 | n-hexane | 850 ul | neat neat | |
| V-346410 | PEST/PCB GC SURR (DANGER) | 50 ul | 200 ppm | 10 ppm |
| 12299 | Aroclor-1262 | 100 ul | 1000 ppm | 100 ppm |

## Veritech Lot Number: V-347875

Prepared By: Ceus, Mahalia
Description: CAL 3268@500PPB (DANGER)
Prep Date: 4/9/2021
Expiration Date: 10/9/2021
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13818 | n-hexane | 9950 ul | neat neat | |
| V-347870 | 3268 INTER | 50 ul | 100 ppm | 500 ppb |

## Veritech Lot Number: V-347876

Prepared By: Ceus, Mahalia
Description: CAL 1242@500PPB (DANGER)
Prep Date: 4/9/2021
Expiration Date: 10/9/2021
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13818 | n-hexane | 9950 ul | neat neat | |
| V-347871 | 1242 INTER | 50 ul | 100 ppm | 500 ppb |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-347877

Prepared By: Ceus, Mahalia | Department: Organics | ApprovedBy: akmal
Description: CAL1248@500PPB (DANGER) | BatchNumber: | ApproveDate: 04/15/21
Prep Date: 4/9/2021 | Concentration: 500 ppb | Checked: Yes
Expiration Date: 10/9/2021 | Final Volume: 10 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13818 | n-hexane | 9950 ul | neat neat | |
| V-347872 | 1248 INTER | 50 ul | 100 ppm | 500 ppb |

## Veritech Lot Number: V-347878

Prepared By: Ceus, Mahalia | Department: Organics | ApprovedBy: akmal
Description: CAL 2154@500PPB (DANGER) | BatchNumber: | ApproveDate: 04/15/21
Prep Date: 4/9/2021 | Concentration: 500 ppb | Checked: Yes
Expiration Date: 10/9/2021 | Final Volume: 10 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13818 | n-hexane | 9950 ul | neat neat | |
| V-347873 | 2154 INTER | 50 ul | 100 ppm | 500 ppb |

## Veritech Lot Number: V-347879

Prepared By: Ceus, Mahalia | Department: Organics | ApprovedBy: akmal
Description: CAL 1262@500PPB (DANGER) | BatchNumber: | ApproveDate: 04/15/21
Prep Date: 4/9/2021 | Concentration: 500 ppb | Checked: Yes
Expiration Date: 10/9/2021 | Final Volume: 10 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13818 | n-hexane | 9950 ul | neat neat | |
| V-347874 | 1262 INTER | 50 ul | 100 ppm | 500 ppb |

## Veritech Lot Number: V-347880

Prepared By: Ceus, Mahalia | Department: Organics | ApprovedBy: akmal
Description: CAL 1660@4000PPB (DANGER) | BatchNumber: | ApproveDate: 04/15/21
Prep Date: 3/29/2021 | Concentration: 4000 ppb | Checked: Yes
Expiration Date: 9/26/2021 | Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 48000 ul | neat neat | |
| V-347869 | 1660 PCB INTERMEDIATE (DANGER) | 2000 ul | 100 ppm | 4000 ppb |

## Veritech Lot Number: V-347881

Prepared By: Ceus, Mahalia | Department: Organics | ApprovedBy: akmal
Description: CAL 1660@2000PPB (DANGER) | BatchNumber: | ApproveDate: 04/15/21
Prep Date: 3/29/2021 | Concentration: 2000 ppb | Checked: Yes
Expiration Date: 9/26/2021 | Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 49000 ul | neat neat | |
| V-347869 | 1660 PCB INTERMEDIATE (DANGER) | 1000 ul | 100 ppm | 2000 ppb |

## Veritech Lot Number: V-347882

Prepared By: Ceus, Mahalia | Department: Organics | ApprovedBy: akmal
Description: CAL 1660@1000PPB (DANGER) | BatchNumber: | ApproveDate: 04/15/21
Prep Date: 3/29/2021 | Concentration: 1000 ppb | Checked: Yes
Expiration Date: 9/26/2021 | Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 49500 ul | neat neat | |
| V-347869 | 1660 PCB INTERMEDIATE (DANGER) | 500 ul | 100 ppm | 1000 ppb |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-347883

Prepared By: Ceus, Mahalia | Department: Organics | ApprovedBy: akmal
Description: CAL 1660@500PPB (DANGER) | BatchNumber: | ApproveDate: 04/15/21
Prep Date: 3/29/2021 | Concentration: 500 ppb | Checked: Yes
Expiration Date: 9/26/2021 | Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 49750 ul | neat neat | |
| V-347869 | 1660 PCB INTERMEDIATE (DANGER) | 250 ul | 100 ppm | 500 ppb |

## Veritech Lot Number: V-347884

Prepared By: Ceus, Mahalia | Department: Organics | ApprovedBy: akmal
Description: CAL 1660@200PPB (DANGER) | BatchNumber: | ApproveDate: 04/15/21
Prep Date: 3/29/2021 | Concentration: 200 ppb | Checked: Yes
Expiration Date: 9/26/2021 | Final Volume: 10 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 9000 ul | neat neat | |
| V-347881 | CAL 1660@2000PPB (DANGER) | 1000 ul | 2000 ppb | 200 ppb |

## Veritech Lot Number: V-347885

Prepared By: Ceus, Mahalia | Department: Organics | ApprovedBy: akmal
Description: CAL 1660@50PPB (DANGER) | BatchNumber: | ApproveDate: 04/15/21
Prep Date: 3/29/2021 | Concentration: 50 ppb | Checked: Yes
Expiration Date: 9/26/2021 | Final Volume: 10 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 9000 ul | neat neat | |
| V-347883 | CAL 1660@500PPB (DANGER) | 1000 ul | 500 ppb | 50 ppb |

## Veritech Lot Number: V-347887

Prepared By: Ceus, Mahalia | Department: Organics | ApprovedBy: akmal
Description: PEST MIX STD (DANGER) | BatchNumber: | ApproveDate: 04/15/21
Prep Date: 4/9/2021 | Concentration: 100 ppb | Checked: Yes
Expiration Date: 10/7/2021 | Final Volume: 10 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-336211 | BNA-Pest Mix(Danger) | 2 ul | 5000 ppm | 100 ppb |
| 13818 | n-hexane | 9998 ul | neat neat | neat neat |

## Veritech Lot Number: V-355303

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: PCB SPIKE (DANGER) | BatchNumber: | ApproveDate: 08/10/21
Prep Date: 8/9/2021 | Concentration: 100 ppm | Checked: Yes
Expiration Date: 2/9/2022 | Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13940 | Aroclor 1016 | 5 ml | 1000 ppm | 100 ppm |
| 13941 | Aroclor 1260 | 5 ml | 1000 ppm | 100 ppm |
| 14080 | Acetone | 40 ml | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357124

| | | | |
|---|---|---|---|
| Prepared By: | Ceus, Mahalia | Department: Organics | ApprovedBy: akmal |
| Description: | PEST/PCB LAB SURR (danger) | BatchNumber: | ApproveDate: 09/15/21 |
| Prep Date: | 9/9/2021 | Concentration: 10 ppm | Checked: Yes |
| Expiration Date: | 3/9/2022 | Final Volume: 500 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14134 | Acetone | 475 ml | neat neat | |
| V-346410 | PEST/PCB GC SURR (DANGER) | 25 ml | 200 ppm | 10 ppm |

## Veritech Lot Number: V-357725

| | | | |
|---|---|---|---|
| Prepared By: | Ceus, Mahalia | Department: Organics | ApprovedBy: akmal |
| Description: | ICV PCB (DANGER) | BatchNumber: | ApproveDate: 09/22/21 |
| Prep Date: | 9/19/2021 | Concentration: 1000 ppb | Checked: Yes |
| Expiration Date: | 2/9/2022 | Final Volume: 10 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14082 | n-Hexane | 9800 ul | neat neat | |
| V-357124 | PEST/PCB LAB SURR (danger) | 100 ul | 10 ppm | 100 ppb |
| V-355303 | PCB SPIKE (DANGER) | 100 ul | 100 ppm | 1000 ppb |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 11255

Description: Aroclor 1268 STD

ApprovedBy: akmal
ApproveDate: 10/31/17
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Restek | 32410 | A0128515 | 10/31/17 | 09/30/23 | Hamid, Akmal | 1 | 1ML | 1000 | PPM |

## Veritech Control/Receipt Number: 12295

Description: Aroclor 1248

ApprovedBy: akmal
ApproveDate: 02/11/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | 44807 | LRAC1978 | 02/07/19 | 02/28/22 | Hamid, Akmal | 1 | 1ML | 1000 | PPP |

## Veritech Control/Receipt Number: 12296

Description: Aroclor 1242

ApprovedBy: akmal
ApproveDate: 02/11/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | 44806 | LRAC1979 | 02/07/19 | 02/28/22 | Hamid, Akmal | 1 | 1ML | 1000 | PPM |

## Veritech Control/Receipt Number: 12297

Description: Aroclor 1232

ApprovedBy: akmal
ApproveDate: 02/11/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | 44805 | LRAC1980 | 02/07/19 | 02/28/22 | Hamid, Akmal | 1 | 1ML | 1000 | PPM |

## Veritech Control/Receipt Number: 12299

Description: Aroclor-1262

ApprovedBy: akmal
ApproveDate: 02/11/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | 44810 | LRAC1975 | 02/07/19 | 02/28/22 | Hamid, Akmal | 1 | 1ML | 1000 | PPM |

## Veritech Control/Receipt Number: 12494

Description: Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 05/17/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | BZ-209-10MG | 8157700 | 05/17/19 | 09/30/24 | Hamid, Akmal | 1 | 10MG | NEAT | NEAT |

## Veritech Control/Receipt Number: 12495

Description: 4,4' -DDT

ApprovedBy: akmal
ApproveDate: 05/17/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | N10876-100MG | 8539300 | 05/17/19 | 02/28/22 | Hamid, Akmal | 1 | 100M | NEAT | NEAT |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 12522

Description: 2,4,5,6-Tetrachloro-m-Xylene

ApprovedBy: akmal
ApproveDate: 05/29/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service Inc | N-10542-100MG | 8499900 | 05/28/19 | 04/30/24 | Hamid, Akmal | 1 | 100M | NEAT | NEAT |

## Veritech Control/Receipt Number: 12958

Description: Aroclor 1016 Solution

ApprovedBy: akmal
ApproveDate: 12/19/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | 48097 | LRAC3882 | 12/19/19 | 11/30/22 | Hamid, Akmal | 1 | 1ML | 1000 | PPM |

## Veritech Control/Receipt Number: 13106

Description: 4,4' -DDE

ApprovedBy: akmal
ApproveDate: 03/10/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | RPN-10875-1G | 9710700 | 03/10/20 | 02/28/25 | Hamid, Akmal | 1 | 1G | NEAT | NEAT |

## Veritech Control/Receipt Number: 13117

Description: Methylene Chloride optima

ApprovedBy: akmal
ApproveDate: 04/01/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fisher | D1514 | 197501 | 03/13/20 | 01/31/25 | Lopez, Jose | 4 | 4L | neat | neat |

## Veritech Control/Receipt Number: 13203

Description: Aroclor 1221 Solution

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SIGMA-ALDRICH | 48098 | LRAC3763 | 04/17/20 | 11/30/22 | Revolus, Jean | 1 | 1ml | 1000 | PPM |

## Veritech Control/Receipt Number: 13204

Description: Aroclor 1254 Solution

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SIGMA-ALDRICH | 44808 | LRAC5382 | 04/17/20 | 01/31/23 | Revolus, Jean | 1 | 1ml | 1000 | PPM |

## Veritech Control/Receipt Number: 13483

Description: 4,4'-DDD

ApprovedBy: akmal
ApproveDate: 09/08/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | N-10874-250MG | 10596800 | 09/08/20 | 12/31/21 | Hamid, Akmal | 1 | 250M | NEAT | NEAT |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13529

Description: Aroclor 1260

ApprovedBy: akmal
ApproveDate: 10/01/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | 44809 | LRAC1976 | 10/01/20 | 02/28/22 | Hamid, Akmal | 1 | 1ML | 1000 | PPM |

## Veritech Control/Receipt Number: 13739

Description: acetone

ApprovedBy: akmal
ApproveDate: 01/28/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9254-03 | 270403 | 01/26/21 | 08/27/23 | Lopez, Jose | 20 | 4L | neat | neat |

## Veritech Control/Receipt Number: 13746

Description: N-hexane

ApprovedBy: akmal
ApproveDate: 02/04/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | HG4840 | 20080018 | 01/29/21 | 08/06/23 | Lopez, Jose | 32 | 4L | neat | neat |

## Veritech Control/Receipt Number: 13818

Description: n-hexane

ApprovedBy: akmal
ApproveDate: 03/18/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | HG4840-001 | 20080018 | 03/15/21 | 08/06/23 | Lopez, Jose | 28 | 4L | neat | neat |

## Veritech Control/Receipt Number: 13940

Description: Aroclor 1016

ApprovedBy: akmal
ApproveDate: 05/21/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ACCUSTANDAR | C-216S-H-10X-PAK | 218081103 | 05/19/21 | 08/07/28 | Revolus, Jean | 15 | 1ml | 1000 | PPM |

## Veritech Control/Receipt Number: 13941

Description: Aroclor 1260

ApprovedBy: akmal
ApproveDate: 05/21/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| ACCUSTANDAR | C-260S-H-10X | 220111149 | 05/19/21 | 11/16/30 | Revolus, Jean | 15 | 1ml | 1000 | PPM |

## Veritech Control/Receipt Number: 14080

Description: Acetone

ApprovedBy: akmal
ApproveDate: 07/29/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | AA1111-001 | 21050128 | 07/26/21 | 06/05/23 | Lopez, Jose | 48 | 4L | neat | neat |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 14082

Description: n-Hexane

ApprovedBy: akmal
ApproveDate: 07/29/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | 4840-001 | 21060521 | 07/26/21 | 06/14/24 | Lopez, Jose | 48 | 4L | neat | neat |

## Veritech Control/Receipt Number: 14134

Description: Acetone

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | AA1111-001 | 21050128 | 08/13/21 | 06/08/23 | Lopez, Jose | 48 | 4L | neat | neat |

Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 14137**

| Description |
|---|
| n-hexane |

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | HG-4840 | 21050581 | 08/13/21 | 05/27/24 | Lopez, Jose | 24 | 4L | neat | neat |

**Veritech Control/Receipt Number: 14142**

| Description |
|---|
| sodium sulfate |

ApprovedBy: akmal
ApproveDate: 08/19/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fermont | 6639 | 029201 | 08/17/21 | 08/16/26 | Lopez, Jose | 6 | 100L | neat | neat |

**Veritech Control/Receipt Number: 14160**

| Description |
|---|
| Dichloromethane |

ApprovedBy: akmal
ApproveDate: 09/02/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | DA1431-001 | 21060637 | 08/31/21 | 07/20/23 | Lopez, Jose | 100 | 4L | neat | neat |

# GC Pesticide Data

# GC Pesticide Data
# QC Summary

# FORM2

## Surrogate Recovery

Method: EPA 8081B

| Dfile | Sample# | Matrix | Date/Time | Surr Dil | Dilute Out Flag | Column1 S1 Recov | Column2 S2 Recov | Column1 S3 Recov | Column2 S4 Recov | Column0 S5 Recov | Column0 S6 Recov |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5G98224.D | WMB94962 | A | 09/19/21 23:37 | 1 | | 61 | 61 | 76 | 81 | | |
| 5G98260.D | WMB94974 | A | 09/21/21 08:50 | 1 | | 130 | 64 | 86 | 91 | | |
| 5G98229.D | AD26083-001 | A | 09/20/21 01:08 | 1 | | 43 | 46 | 65 | 68 | | |
| 5G98373.D | AD26083-002(R) | A | 09/28/21 13:41 | 1 | | 58 | 49 | 85 | 84 | | |
| 5G98231.D | AD26083-003 | A | 09/20/21 01:44 | 1 | | 46 | 41 | 49 | 52 | | |
| 5G98232.D | AD26083-005 | A | 09/20/21 02:02 | 1 | | 47 | 43 | 71 | 78 | | |
| 5G98233.D | AD26083-006 | A | 09/20/21 02:20 | 1 | | 46 | 46 | 74 | 77 | | |
| 5G98234.D | AD26083-008 | A | 09/20/21 02:39 | 1 | | 51 | 47 | 77 | 79 | | |
| 5G98235.D | AD26083-009 | A | 09/20/21 02:57 | 1 | | 54 | 49 | 77 | 80 | | |
| 5G98236.D | AD26083-011 | A | 09/20/21 03:15 | 1 | | 51 | 47 | 70 | 81 | | |
| 5G98237.D | AD26083-012 | A | 09/20/21 03:33 | 1 | | 75 | 68 | 65 | 68 | | |
| 5G98238.D | AD26083-014 | A | 09/20/21 03:51 | 1 | | 71 | 67 | 79 | 81 | | |
| 5G98239.D | AD26083-016 | A | 09/20/21 04:10 | 1 | | 63 | 60 | 80 | 85 | | |
| 5G98240.D | AD26083-018 | A | 09/20/21 04:28 | 1 | | 64 | 60 | 79 | 86 | | |
| 6G119474.D | AD26083-019 | A | 09/29/21 09:43 | 1 | | 123 | 71 | 93 | 79 | | |
| 5G98241.D | AD26083-021 | A | 09/20/21 04:46 | 1 | | 59 | 54 | 56 | 60 | | |
| 5G98242.D | AD26083-023 | A | 09/20/21 05:04 | 1 | | 70 | 63 | 57 | 58 | | |
| 5G98243.D | AD26083-026 | A | 09/20/21 05:22 | 1 | | 69 | 65 | 80 | 85 | | |
| 5G98253.D | AD26083-027 | A | 09/20/21 12:03 | 1 | | 62 | 60 | 73 | 78 | | |
| 5G98254.D | AD26083-028 | A | 09/20/21 12:21 | 1 | | 56 | 53 | 43 | 46 | | |
| 6G119475.D | AD26083-030 | A | 09/29/21 10:00 | 1 | | 120 | 69 | 102 | 87 | | |
| 5G98406.D | AD26083-032 | A | 09/29/21 15:51 | 1 | | 52 | 49 | 71 | 73 | | |
| 6G119490.D | AD26083-033 | A | 09/29/21 15:43 | 1 | | 118 | 67 | 86 | 74 | | |
| 6G119491.D | AD26083-035 | A | 09/29/21 16:00 | 1 | | 111 | 63 | 97 | 82 | | |
| 6G119492.D | AD26083-036 | A | 09/29/21 16:18 | 1 | | 108 | 63 | 101 | 83 | | |
| 6G119493.D | AD26083-038 | A | 09/29/21 16:36 | 1 | | 119 | 69 | 101 | 86 | | |
| 6G119494.D | AD26083-040(R) | A | 09/29/21 16:53 | 1 | | 87 | 45 | 86 | 75 | | |
| 5G98226.D | AD26083-042(MS:AD26 | A | 09/20/21 00:13 | 1 | | 40 | 37* | 52 | 58 | | |
| 5G98227.D | AD26083-044(MSD:AD2 | A | 09/20/21 00:31 | 1 | | 50 | 45 | 59 | 61 | | |
| 5G98374.D | AD26083-046 | A | 09/28/21 13:59 | 1 | | 69 | 68 | 92 | 95 | | |
| 5G98375.D | AD26083-048 | A | 09/28/21 14:17 | 1 | | 73 | 68 | 83 | 84 | | |
| 5G98262.D | AD26083-049(MS:AD26 | A | 09/21/21 09:26 | 1 | | 64 | 61 | 84 | 87 | | |
| 5G98263.D | AD26083-050(MSD:AD2 | A | 09/21/21 09:45 | 1 | | 61 | 59 | 85 | 84 | | |
| 5G98225.D | WMB94962(MS) | A | 09/19/21 23:55 | 1 | | 62 | 63 | 79 | 85 | | |
| 5G98261.D | WMB94974(MS) | A | 09/21/21 09:08 | 1 | | 70 | 73 | 87 | 94 | | |

**Flags:** SD=Surrogate diluted out
*=Surrogate out

**Method:** EPA 8081B

### Aqueous Laboratory Limits

| Compound | Spike Amt | Limits |
|---|---|---|
| S1=TCMX-Surrogate | 100 | 39-132 |
| S2=TCMX-Surrogate | 100 | 39-132 |
| S3=DCB-Surrogate | 100 | 39-142 |
| S4=DCB-Surrogate | 100 | 39-142 |

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94962

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98225.D | WMB94962(MS) | 9/19/2021 11:55:23 PM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 2 | 71.49 | 0 | 100 | 71 | 60 | 130 |
| gamma-BHC | 2 | 70.96 | 0 | 100 | 71 | 60 | 130 |
| beta-BHC | 2 | 75.22 | 0 | 100 | 75 | 60 | 130 |
| Heptachlor | 2 | 69.16 | 0 | 100 | 69 | 60 | 130 |
| delta-BHC | 2 | 79.51 | 0 | 100 | 80 | 60 | 130 |
| Aldrin | 2 | 75.76 | 0 | 100 | 76 | 70 | 130 |
| Heptachlor Epoxide | 2 | 79.7 | 0 | 100 | 80 | 70 | 130 |
| y-chlordane | 2 | 82.98 | 0 | 100 | 83 | 40 | 140 |
| a-chlordane | 2 | 78.59 | 0 | 100 | 79 | 40 | 140 |
| Endosulfan I | 2 | 86.02 | 0 | 100 | 86 | 70 | 130 |
| p,p'-DDE | 2 | 82.86 | 0 | 100 | 83 | 70 | 130 |
| Dieldrin | 2 | 90.73 | 0 | 100 | 91 | 70 | 130 |
| Endrin | 2 | 78.08 | 0 | 100 | 78 | 70 | 130 |
| p,p'-DDD | 2 | 91.16 | 0 | 100 | 91 | 70 | 130 |
| Endosulfan II | 2 | 91 | 0 | 100 | 91 | 70 | 130 |
| p,p'-DDT | 2 | 71.7 | 0 | 100 | 72 | 70 | 130 |
| Endrin Aldehyde | 2 | 88.04 | 0 | 100 | 88 | 10 | 130 |
| Endosulfan Sulfate | 2 | 91.82 | 0 | 100 | 92 | 70 | 130 |
| Methoxychlor | 2 | 75.04 | 0 | 100 | 75 | 60 | 130 |
| Endrin Ketone | 2 | 79.43 | 0 | 100 | 79 | 70 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94974

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98261.D | WMB94974(MS) | 9/21/2021 9:08:44 AM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 2 | 77.95 | 0 | 100 | 78 | 60 | 130 |
| gamma-BHC | 2 | 77.57 | 0 | 100 | 78 | 60 | 130 |
| beta-BHC | 2 | 79.81 | 0 | 100 | 80 | 60 | 130 |
| Heptachlor | 2 | 71.36 | 0 | 100 | 71 | 60 | 130 |
| delta-BHC | 2 | 80.41 | 0 | 100 | 80 | 60 | 130 |
| Aldrin | 2 | 82.92 | 0 | 100 | 83 | 70 | 130 |
| Heptachlor Epoxide | 2 | 86.73 | 0 | 100 | 87 | 70 | 130 |
| y-chlordane | 2 | 89.66 | 0 | 100 | 90 | 40 | 140 |
| a-chlordane | 2 | 84.14 | 0 | 100 | 84 | 40 | 140 |
| Endosulfan I | 2 | 93.99 | 0 | 100 | 94 | 70 | 130 |
| p,p'-DDE | 2 | 86.33 | 0 | 100 | 86 | 70 | 130 |
| Dieldrin | 2 | 98.12 | 0 | 100 | 98 | 70 | 130 |
| Endrin | 2 | 75.1 | 0 | 100 | 75 | 70 | 130 |
| p,p'-DDD | 2 | 89.91 | 0 | 100 | 90 | 70 | 130 |
| Endosulfan II | 2 | 97.35 | 0 | 100 | 97 | 70 | 130 |
| p,p'-DDT | 2 | 76.28 | 0 | 100 | 76 | 70 | 130 |
| Endrin Aldehyde | 2 | 98.99 | 0 | 100 | 99 | 10 | 130 |
| Endosulfan Sulfate | 2 | 96.81 | 0 | 100 | 97 | 70 | 130 |
| Methoxychlor | 2 | 70.17 | 0 | 100 | 70 | 60 | 130 |
| Endrin Ketone | 2 | 84.66 | 0 | 100 | 85 | 70 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94962

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98226.D | AD26083-042(MS:AD26083-04 | 9/20/2021 12:13:33 AM |
| Non Spike(If applicable): | 6G119494.D | AD26083-040(R) | 9/29/2021 4:53:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 2 | 49.91 | 0 | 100 | 50 * | 60 | 130 |
| gamma-BHC | 2 | 53.41 | 0 | 100 | 53 * | 60 | 130 |
| beta-BHC | 2 | 43.24 | 0 | 100 | 43 * | 60 | 130 |
| Heptachlor | 2 | 54.05 | 0 | 100 | 54 * | 60 | 130 |
| delta-BHC | 2 | 55.72 | 0 | 100 | 56 * | 60 | 130 |
| Aldrin | 2 | 49.96 | 0 | 100 | 50 * | 70 | 130 |
| Heptachlor Epoxide | 2 | 56.94 | 0 | 100 | 57 * | 70 | 130 |
| y-chlordane | 2 | 55.2 | 0 | 100 | 55 | 40 | 140 |
| a-chlordane | 2 | 58.3 | 0 | 100 | 58 | 40 | 140 |
| Endosulfan I | 2 | 53.99 | 0 | 100 | 54 * | 70 | 130 |
| p,p'-DDE | 2 | 61.94 | 0 | 100 | 62 * | 70 | 130 |
| Dieldrin | 2 | 61.68 | 0 | 100 | 62 * | 70 | 130 |
| Endrin | 2 | 68.71 | 0 | 100 | 69 * | 70 | 130 |
| p,p'-DDD | 2 | 66.39 | 0 | 100 | 66 * | 70 | 130 |
| Endosulfan II | 2 | 63.92 | 0 | 100 | 64 * | 70 | 130 |
| p,p'-DDT | 2 | 67.59 | 0 | 100 | 68 * | 70 | 130 |
| Endrin Aldehyde | 2 | 48.39 | 0 | 100 | 48 | 10 | 130 |
| Endosulfan Sulfate | 2 | 64.94 | 0 | 100 | 65 * | 70 | 130 |
| Methoxychlor | 2 | 61.45 | 0 | 100 | 61 | 60 | 130 |
| Endrin Ketone | 2 | 57.83 | 0 | 100 | 58 * | 70 | 130 |

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98227.D | AD26083-044(MSD:AD26083-0 | 9/20/2021 12:31:46 AM |
| Non Spike(If applicable): | 6G119494.D | AD26083-040(R) | 9/29/2021 4:53:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 2 | 58.2 | 0 | 100 | 58 * | 60 | 130 |
| gamma-BHC | 2 | 61.87 | 0 | 100 | 62 | 60 | 130 |
| beta-BHC | 2 | 47.69 | 0 | 100 | 48 * | 60 | 130 |
| Heptachlor | 2 | 66.75 | 0 | 100 | 67 | 60 | 130 |
| delta-BHC | 2 | 61.88 | 0 | 100 | 62 | 60 | 130 |
| Aldrin | 2 | 60.63 | 0 | 100 | 61 * | 70 | 130 |
| Heptachlor Epoxide | 2 | 66.51 | 0 | 100 | 67 * | 70 | 130 |
| y-chlordane | 2 | 64.23 | 0 | 100 | 64 | 40 | 140 |
| a-chlordane | 2 | 67.79 | 0 | 100 | 68 | 40 | 140 |
| Endosulfan I | 2 | 62.63 | 0 | 100 | 63 * | 70 | 130 |
| p,p'-DDE | 2 | 70.77 | 0 | 100 | 71 | 70 | 130 |
| Dieldrin | 2 | 72.56 | 0 | 100 | 73 | 70 | 130 |
| Endrin | 2 | 80.47 | 0 | 100 | 80 | 70 | 130 |
| p,p'-DDD | 2 | 75.01 | 0 | 100 | 75 | 70 | 130 |
| Endosulfan II | 2 | 71.64 | 0 | 100 | 72 | 70 | 130 |
| p,p'-DDT | 2 | 75.91 | 0 | 100 | 76 | 70 | 130 |
| Endrin Aldehyde | 2 | 49.26 | 0 | 100 | 49 | 10 | 130 |
| Endosulfan Sulfate | 2 | 70.85 | 0 | 100 | 71 | 70 | 130 |
| Methoxychlor | 2 | 71.07 | 0 | 100 | 71 | 60 | 130 |
| Endrin Ketone | 2 | 64.49 | 0 | 100 | 64 * | 70 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

# Form3
# RPD Data Laboratory Limits
## QC Batch: WMB94962

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98227.D | AD26083-044(MSD:AD26083-0 | 9/20/2021 12:31:46 AM |
| Duplicate(If applicable): | 5G98226.D | AD26083-042(MS:AD26083-04 | 9/20/2021 12:13:33 AM |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| alpha-BHC | 2 | 58.2 | 49.91 | 15 | 40 |
| gamma-BHC | 2 | 61.87 | 53.41 | 15 | 40 |
| beta-BHC | 2 | 47.69 | 43.24 | 9.8 | 40 |
| Heptachlor | 2 | 66.75 | 54.05 | 21 | 40 |
| delta-BHC | 2 | 61.88 | 55.72 | 10 | 40 |
| Aldrin | 2 | 60.63 | 49.96 | 19 | 40 |
| Heptachlor Epoxide | 2 | 66.51 | 56.94 | 16 | 40 |
| y-chlordane | 2 | 64.23 | 55.2 | 15 | 40 |
| a-chlordane | 2 | 67.79 | 58.3 | 15 | 40 |
| Endosulfan I | 2 | 62.63 | 53.99 | 15 | 40 |
| p,p'-DDE | 2 | 70.77 | 61.94 | 13 | 40 |
| Dieldrin | 2 | 72.56 | 61.68 | 16 | 40 |
| Endrin | 2 | 80.47 | 68.71 | 16 | 40 |
| p,p'-DDD | 2 | 75.01 | 66.39 | 12 | 40 |
| Endosulfan II | 2 | 71.64 | 63.92 | 11 | 40 |
| p,p'-DDT | 2 | 75.91 | 67.59 | 12 | 40 |
| Endrin Aldehyde | 2 | 49.26 | 48.39 | 1.8 | 40 |
| Endosulfan Sulfate | 2 | 70.85 | 64.94 | 8.7 | 40 |
| Methoxychlor | 2 | 71.07 | 61.45 | 15 | 40 |
| Endrin Ketone | 2 | 64.49 | 57.83 | 11 | 40 |

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94974

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98262.D | AD26083-049(MS:AD26083-04 | 9/21/2021 9:26:55 AM |
| Non Spike(If applicable): | 5G98375.D | AD26083-048 | 9/28/2021 2:17:54 PM |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 2 | 65.55 | 0 | 100 | 66 | 60 | 130 |
| gamma-BHC | 2 | 67.11 | 0 | 100 | 67 | 60 | 130 |
| beta-BHC | 2 | 68.06 | 0 | 100 | 68 | 60 | 130 |
| Heptachlor | 2 | 65.64 | 0 | 100 | 66 | 60 | 130 |
| delta-BHC | 2 | 73.06 | 0 | 100 | 73 | 60 | 130 |
| Aldrin | 2 | 70.7 | 0 | 100 | 71 | 70 | 130 |
| Heptachlor Epoxide | 2 | 76.22 | 0 | 100 | 76 | 70 | 130 |
| y-chlordane | 2 | 77.73 | 0 | 100 | 78 | 40 | 140 |
| a-chlordane | 2 | 78.41 | 0 | 100 | 78 | 40 | 140 |
| Endosulfan I | 2 | 76.9 | 0 | 100 | 77 | 70 | 130 |
| p,p'-DDE | 2 | 81.51 | 0 | 100 | 82 | 70 | 130 |
| Dieldrin | 2 | 84.59 | 0 | 100 | 85 | 70 | 130 |
| Endrin | 2 | 84.81 | 0 | 100 | 85 | 70 | 130 |
| p,p'-DDD | 2 | 86.35 | 0 | 100 | 86 | 70 | 130 |
| Endosulfan II | 2 | 88.25 | 0 | 100 | 88 | 70 | 130 |
| p,p'-DDT | 2 | 76.89 | 0 | 100 | 77 | 70 | 130 |
| Endrin Aldehyde | 2 | 83.56 | 0 | 100 | 84 | 10 | 130 |
| Endosulfan Sulfate | 2 | 90.28 | 0 | 100 | 90 | 70 | 130 |
| Methoxychlor | 2 | 72.69 | 0 | 100 | 73 | 60 | 130 |
| Endrin Ketone | 2 | 75.9 | 0 | 100 | 76 | 70 | 130 |

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98263.D | AD26083-050(MSD:AD26083-0 | 9/21/2021 9:45:06 AM |
| Non Spike(If applicable): | 5G98375.D | AD26083-048 | 9/28/2021 2:17:54 PM |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 2 | 62.05 | 0 | 100 | 62 | 60 | 130 |
| gamma-BHC | 2 | 66.85 | 0 | 100 | 67 | 60 | 130 |
| beta-BHC | 2 | 67.88 | 0 | 100 | 68 | 60 | 130 |
| Heptachlor | 2 | 66.84 | 0 | 100 | 67 | 60 | 130 |
| delta-BHC | 2 | 71.35 | 0 | 100 | 71 | 60 | 130 |
| Aldrin | 2 | 67.09 | 0 | 100 | 67 * | 70 | 130 |
| Heptachlor Epoxide | 2 | 76.19 | 0 | 100 | 76 | 70 | 130 |
| y-chlordane | 2 | 76.27 | 0 | 100 | 76 | 40 | 140 |
| a-chlordane | 2 | 78.38 | 0 | 100 | 78 | 40 | 140 |
| Endosulfan I | 2 | 74.63 | 0 | 100 | 75 | 70 | 130 |
| p,p'-DDE | 2 | 79.84 | 0 | 100 | 80 | 70 | 130 |
| Dieldrin | 2 | 86.36 | 0 | 100 | 86 | 70 | 130 |
| Endrin | 2 | 86.36 | 0 | 100 | 86 | 70 | 130 |
| p,p'-DDD | 2 | 87.7 | 0 | 100 | 88 | 70 | 130 |
| Endosulfan II | 2 | 84.6 | 0 | 100 | 85 | 70 | 130 |
| p,p'-DDT | 2 | 79.98 | 0 | 100 | 80 | 70 | 130 |
| Endrin Aldehyde | 2 | 82.77 | 0 | 100 | 83 | 10 | 130 |
| Endosulfan Sulfate | 2 | 89.22 | 0 | 100 | 89 | 70 | 130 |
| Methoxychlor | 2 | 76.02 | 0 | 100 | 76 | 60 | 130 |
| Endrin Ketone | 2 | 73.64 | 0 | 100 | 74 | 70 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

# Form3
# RPD Data Laboratory Limits
## QC Batch: WMB94974

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98263.D | AD26083-050(MSD:AD26083-0 | 9/21/2021 9:45:06 AM |
| Duplicate(If applicable): | 5G98262.D | AD26083-049(MS:AD26083-04 | 9/21/2021 9:26:55 AM |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| alpha-BHC | 2 | 62.05 | 65.55 | 5.5 | 40 |
| gamma-BHC | 2 | 66.85 | 67.11 | 0.39 | 40 |
| beta-BHC | 2 | 67.88 | 68.06 | 0.26 | 40 |
| Heptachlor | 2 | 66.84 | 65.64 | 1.8 | 40 |
| delta-BHC | 2 | 71.35 | 73.06 | 2.4 | 40 |
| Aldrin | 2 | 67.09 | 70.7 | 5.2 | 40 |
| Heptachlor Epoxide | 2 | 76.19 | 76.22 | 0.04 | 40 |
| y-chlordane | 2 | 76.27 | 77.73 | 1.9 | 40 |
| a-chlordane | 2 | 78.38 | 78.41 | 0.04 | 40 |
| Endosulfan I | 2 | 74.63 | 76.9 | 3 | 40 |
| p,p'-DDE | 2 | 79.84 | 81.51 | 2.1 | 40 |
| Dieldrin | 2 | 86.36 | 84.59 | 2.1 | 40 |
| Endrin | 2 | 86.36 | 84.81 | 1.8 | 40 |
| p,p'-DDD | 2 | 87.7 | 86.35 | 1.6 | 40 |
| Endosulfan II | 2 | 84.6 | 88.25 | 4.2 | 40 |
| p,p'-DDT | 2 | 79.98 | 76.89 | 3.9 | 40 |
| Endrin Aldehyde | 2 | 82.77 | 83.56 | 0.95 | 40 |
| Endosulfan Sulfate | 2 | 89.22 | 90.28 | 1.2 | 40 |
| Methoxychlor | 2 | 76.02 | 72.69 | 4.5 | 40 |
| Endrin Ketone | 2 | 73.64 | 75.9 | 3 | 40 |

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

# FORM 4
Blank Summary

Blank Number: WMB94962
Blank Data File: 5G98224.D
Matrix: Aqueous

Blank Analysis Date: 09/19/21 23:37
Blank Extraction Date: 09/19/21
(If Applicable)
Method: EPA 8081B

| Sample Number | Data File | Analysis Date |
|---|---|---|
| AD26083-001 | 5G98229.D | 09/20/21 01:08 |
| AD26083-003 | 5G98231.D | 09/20/21 01:44 |
| AD26083-005 | 5G98232.D | 09/20/21 02:02 |
| AD26083-006 | 5G98233.D | 09/20/21 02:20 |
| AD26083-008 | 5G98234.D | 09/20/21 02:39 |
| AD26083-009 | 5G98235.D | 09/20/21 02:57 |
| AD26083-011 | 5G98236.D | 09/20/21 03:15 |
| AD26083-012 | 5G98237.D | 09/20/21 03:33 |
| AD26083-014 | 5G98238.D | 09/20/21 03:51 |
| AD26083-016 | 5G98239.D | 09/20/21 04:10 |
| AD26083-018 | 5G98240.D | 09/20/21 04:28 |
| AD26083-021 | 5G98241.D | 09/20/21 04:46 |
| AD26083-023 | 5G98242.D | 09/20/21 05:04 |
| AD26083-026 | 5G98243.D | 09/20/21 05:22 |
| AD26083-027 | 5G98253.D | 09/20/21 12:03 |
| AD26083-028 | 5G98254.D | 09/20/21 12:21 |
| AD26083-042(MS: | 5G98226.D | 09/20/21 00:13 |
| AD26083-044(MSD | 5G98227.D | 09/20/21 00:31 |
| WMB94962(MS) | 5G98225.D | 09/19/21 23:55 |

# FORM 4
Blank Summary

Blank Number: WMB94974
Blank Data File: 5G98260.D
Matrix: Aqueous

Blank Analysis Date: 09/21/21 08:50
Blank Extraction Date: 09/20/21
(If Applicable)
Method: EPA 8081B

| Sample Number | Data File | Analysis Date |
|---|---|---|
| AD26083-002(R) | 5G98373.D | 09/28/21 13:41 |
| AD26083-019 | 6G119474.D | 09/29/21 09:43 |
| AD26083-030 | 6G119475.D | 09/29/21 10:00 |
| AD26083-032 | 5G98406.D | 09/29/21 15:51 |
| AD26083-033 | 6G119490.D | 09/29/21 15:43 |
| AD26083-035 | 6G119491.D | 09/29/21 16:00 |
| AD26083-036 | 6G119492.D | 09/29/21 16:18 |
| AD26083-038 | 6G119493.D | 09/29/21 16:36 |
| AD26083-040(R) | 6G119494.D | 09/29/21 16:53 |
| AD26083-046 | 5G98374.D | 09/28/21 13:59 |
| AD26083-048 | 5G98375.D | 09/28/21 14:17 |
| AD26083-049(MS: | 5G98262.D | 09/21/21 09:26 |
| AD26083-050(MSD | 5G98263.D | 09/21/21 09:45 |
| WMB94974(MS) | 5G98261.D | 09/21/21 09:08 |

# Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 6G119036.D | CAL EVAL | 09/09/21 09:54 | Soil | | | | | |
| 6G119037.D | CAL PEST@50PPB | 09/09/21 10:37 | Soil | 6G11903 | 12.0969 | 0.0438 | 12.5815 | 0.0207 |
| 6G119038.D | CAL PEST@2PPB | 09/09/21 10:54 | Soil | 6G11903 | 12.0916 | 0 | 12.5789 | 0 |
| 6G119039.D | CAL PEST@10PPB | 09/09/21 11:12 | Soil | 6G11903 | 12.0894 | 0.0182 | 12.5780 | 0.0072 |
| 6G119040.D | CAL PEST@100PPB | 09/09/21 11:29 | Soil | 6G11903 | 12.0876 | 0.0331 | 12.5785 | 0.0032 |
| 6G119041.D | CAL PEST@200PPB | 09/09/21 11:47 | Soil | 6G11903 | 12.0875 | 0.0339 | 12.5797 | 0.0064 |
| 6G119042.D | CAL PEST@400PPB | 09/09/21 12:05 | Soil | 6G11903 | 12.0866 | 0.0414 | 12.5791 | 0.0016 |
| 6G119043.D | CAL CHLOR@100PPB | 09/09/21 12:22 | Soil | 6G11903 | 12.0877 | 0.0323 | 12.5797 | 0.0064 |
| 6G119044.D | TOX@50PPB | 09/09/21 13:50 | Soil | 6G11903 | 0.0000 | 200 * | 0.0000 | 200 * |
| 6G119045.D | TOX@200PPB | 09/09/21 14:11 | Soil | 6G11903 | 0.0000 | 200 * | 0.0000 | 200 * |
| 6G119046.D | TOX@500PPB | 09/09/21 14:28 | Soil | 6G11903 | 0.0000 | 200 * | 0.0000 | 200 * |
| 6G119047.D | TOX@1000PPB | 09/09/21 14:46 | Soil | 6G11903 | 0.0000 | 200 * | 0.0000 | 200 * |
| 6G119048.D | TOX@2000PPB | 09/09/21 15:04 | Soil | 6G11903 | 0.0000 | 200 * | 0.0000 | 200 * |
| 6G119049.D | TOX@4000PPB | 09/09/21 15:21 | Soil | 6G11903 | 0.0000 | 200 * | 0.0000 | 200 * |
| 6G119052.D | TOX V | 09/09/21 16:58 | Soil | 6G11903 | 12.0978 | 0.0513 | 12.5824 | 0.0278 |
| 6G119053.D | ICV | 09/09/21 17:16 | Soil | 6G11903 | 12.0892 | 0.0199 | 12.5789 | 0 |

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

# Form 5

Method: EPA 8081B

Instrument: GC_5 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 5G98073.D | CAL EVAL | 09/09/21 13:49 | Soil | | | | | |
| 5G98074.D | CAL PEST@50PPB | 09/09/21 14:16 | Soil | 5G98075. | 13.0037 | 0.0008 | 13.4478 | 0.0743 |
| 5G98075.D | CAL PEST@2PPB | 09/09/21 14:35 | Soil | 5G98075. | 13.0038 | 0 | 13.4578 | 0 |
| 5G98076.D | CAL PEST@10PPB | 09/09/21 14:53 | Soil | 5G98075. | 13.0042 | 0.0031 | 13.4577 | 0.0007 |
| 5G98077.D | CAL PEST@100PPB | 09/09/21 15:11 | Soil | 5G98075. | 13.0040 | 0.0015 | 13.4581 | 0.0022 |
| 5G98078.D | CAL PEST@200PPB | 09/09/21 15:29 | Soil | 5G98075. | 13.0024 | 0.0108 | 13.4556 | 0.0163 |
| 5G98079.D | CAL PEST@400PPB | 09/09/21 15:47 | Soil | 5G98075. | 13.0018 | 0.0154 | 13.4565 | 0.0097 |
| 5G98080.D | CAL CHLOR@100PPB | 09/09/21 16:06 | Soil | 5G98075. | 13.0033 | 0.0039 | 13.4583 | 0.0037 |
| 5G98081.D | TOX@50PPB | 09/09/21 16:24 | Soil | 5G98075. | 0.0000 | 200 * | 0.0000 | 200 * |
| 5G98082.D | TOX@200PPB | 09/09/21 16:42 | Soil | 5G98075. | 0.0000 | 200 * | 0.0000 | 200 * |
| 5G98083.D | TOX@500PPB | 09/09/21 17:00 | Soil | 5G98075. | 0.0000 | 200 * | 0.0000 | 200 * |
| 5G98084.D | TOX@1000PPB | 09/09/21 17:19 | Soil | 5G98075. | 0.0000 | 200 * | 0.0000 | 200 * |
| 5G98085.D | TOX@2000PPB | 09/09/21 17:37 | Soil | 5G98075. | 0.0000 | 200 * | 0.0000 | 200 * |
| 5G98086.D | TOX@4000PPB | 09/09/21 17:55 | Soil | 5G98075. | 0.0000 | 200 * | 0.0000 | 200 * |
| 5G98087.D | TOX V | 09/09/21 18:13 | Soil | 5G98075. | 0.0000 | 200 * | 0.0000 | 200 * |
| 5G98088.D | ICV | 09/09/21 18:32 | Soil | 5G98075. | 13.0036 | 0.0015 | 13.4575 | 0.0022 |
| 5G98089.D | test | 09/09/21 18:50 | Soil | 5G98075. | 13.0041 | 0.0023 | 13.4576 | 0.0015 |

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

# Form 5

Method: EPA 8081B

Instrument: GC_5 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 5G98220.D | CAL EVAL | 09/19/21 22:24 | Aqueous | | | | | |
| 5G98221.D | EVAL | 09/19/21 22:42 | Aqueous | | | | | |
| 5G98222.D | CAL PEST@100PPB | 09/19/21 23:00 | Aqueous | 5G98222. | 12.9986 | 0 | 13.4499 | 0 |
| 5G98223.D | CAL PEST@200PPB | 09/19/21 23:18 | Aqueous | 5G98222. | 12.9978 | 0.0062 | 13.4503 | 0.003 |
| 5G98224.D | WMB94962 | 09/19/21 23:37 | Aqueous | 5G98222. | 12.9969 | 0.0131 | 13.4482 | 0.0126 |
| 5G98225.D | WMB94962(MS) | 09/19/21 23:55 | Aqueous | 5G98222. | 12.9961 | 0.0192 | 13.4489 | 0.0074 |
| 5G98226.D | AD26083-042(MS:AD26 | 09/20/21 00:13 | Aqueous | 5G98222. | 12.9919 | 0.0516 | 13.4430 | 0.0513 |
| 5G98227.D | AD26083-044(MSD:AD2 | 09/20/21 00:31 | Aqueous | 5G98222. | 12.9920 | 0.0508 | 13.4430 | 0.0513 |
| 5G98228.D | AD26083-040 | 09/20/21 00:50 | Aqueous | 5G98222. | 12.9922 | 0.0492 | 13.4439 | 0.0446 |
| 5G98229.D | AD26083-001 | 09/20/21 01:08 | Aqueous | 5G98222. | 12.9942 | 0.0339 | 13.4454 | 0.0335 |
| 5G98230.D | AD26083-002 | 09/20/21 01:26 | Aqueous | 5G98222. | 12.9921 | 0.05 | 13.4434 | 0.0483 |
| 5G98231.D | AD26083-003 | 09/20/21 01:44 | Aqueous | 5G98222. | 12.9946 | 0.0308 | 13.4471 | 0.0208 |
| 5G98232.D | AD26083-005 | 09/20/21 02:02 | Aqueous | 5G98222. | 12.9956 | 0.0231 | 13.4480 | 0.0141 |
| 5G98233.D | AD26083-006 | 09/20/21 02:20 | Aqueous | 5G98222. | 12.9954 | 0.0246 | 13.4477 | 0.0164 |
| 5G98234.D | AD26083-008 | 09/20/21 02:39 | Aqueous | 5G98222. | 12.9940 | 0.0354 | 13.4462 | 0.0275 |
| 5G98235.D | AD26083-009 | 09/20/21 02:57 | Aqueous | 5G98222. | 12.9946 | 0.0308 | 13.4461 | 0.0283 |
| 5G98236.D | AD26083-011 | 09/20/21 03:15 | Aqueous | 5G98222. | 12.9962 | 0.0185 | 13.4461 | 0.0283 |
| 5G98237.D | AD26083-012 | 09/20/21 03:33 | Aqueous | 5G98222. | 12.9946 | 0.0308 | 13.4462 | 0.0275 |
| 5G98238.D | AD26083-014 | 09/20/21 03:51 | Aqueous | 5G98222. | 12.9954 | 0.0246 | 13.4479 | 0.0149 |
| 5G98239.D | AD26083-016 | 09/20/21 04:10 | Aqueous | 5G98222. | 12.9952 | 0.0262 | 13.4482 | 0.0126 |
| 5G98240.D | AD26083-018 | 09/20/21 04:28 | Aqueous | 5G98222. | 12.9963 | 0.0177 | 13.4489 | 0.0074 |
| 5G98241.D | AD26083-021 | 09/20/21 04:46 | Aqueous | 5G98222. | 12.9967 | 0.0146 | 13.4464 | 0.026 |
| 5G98242.D | AD26083-023 | 09/20/21 05:04 | Aqueous | 5G98222. | 12.9958 | 0.0215 | 13.4468 | 0.023 |
| 5G98243.D | AD26083-026 | 09/20/21 05:22 | Aqueous | 5G98222. | 12.9964 | 0.0169 | 13.4485 | 0.0104 |
| 5G98244.D | CAL EVAL | 09/20/21 08:56 | Aqueous | | | | | |
| 5G98245.D | CAL PEST@100PPB | 09/20/21 09:16 | Aqueous | 5G98222. | 12.9976 | 0.0077 | 13.4433 | 0.0491 |
| 5G98246.D | SMB94930(MS) | 09/20/21 09:55 | Soil | 5G98245. | 12.9965 | 0.0085 | 13.4375 | 0.0432 |
| 5G98247.D | SMB94944(MS) | 09/20/21 10:13 | Soil | 5G98245. | 12.9941 | 0.0269 | 13.4469 | 0.0268 |
| 5G98248.D | SMB94946(MS) | 09/20/21 10:32 | Soil | 5G98245. | 12.9934 | 0.0323 | 13.4460 | 0.0201 |
| 5G98249.D | AD25919-004(T)(MS) | 09/20/21 10:50 | Aqueous | 5G98245. | 12.9946 | 0.0231 | 13.4490 | 0.0424 |
| 5G98250.D | AD25919-004(T)(MSD) | 09/20/21 11:08 | Aqueous | 5G98245. | 12.9951 | 0.0192 | 13.4467 | 0.0253 |
| 5G98251.D | AD25950-001 | 09/20/21 11:26 | Aqueous | 5G98245. | 12.9923 | 0.0408 | 13.4433 | 0 |
| 5G98252.D | AD25950-005 | 09/20/21 11:44 | Aqueous | 5G98245. | 12.9915 | 0.0469 | 13.4447 | 0.0104 |
| 5G98253.D | AD26083-027 | 09/20/21 12:03 | Aqueous | 5G98245. | 12.9941 | 0.0269 | 13.4461 | 0.0208 |
| 5G98254.D | AD26083-028 | 09/20/21 12:21 | Aqueous | 5G98245. | 12.9936 | 0.0308 | 13.4469 | 0.0268 |
| 5G98255.D | EF-1-V-356769(9/14) | 09/20/21 12:39 | Aqueous | 5G98245. | 12.9940 | 0.0277 | 13.4461 | 0.0208 |
| 5G98256.D | 100PPB | 09/20/21 13:04 | Aqueous | 5G98245. | 12.9961 | 0.0115 | 13.4430 | 0.0022 |
| 5G98257.D | CAL PEST@100PPB | 09/20/21 15:52 | Aqueous | 5G98245. | 12.9971 | 0.0038 | 13.4407 | 0.0193 |

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

# Form 5

Method: EPA 8081B

Instrument: GC_5 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 5G98258.D | CAL EVAL | 09/21/21 07:55 | Aqueous | | | | | |
| 5G98259.D | CAL PEST@100PPB | 09/21/21 08:17 | Aqueous | 5G98259. | 12.9979 | 0 | 13.4419 | 0 |
| 5G98260.D | WMB94974 | 09/21/21 08:50 | Aqueous | 5G98259. | 12.9976 | 0.0023 | 13.4420 | 0.0007 |
| 5G98261.D | WMB94974(MS) | 09/21/21 09:08 | Aqueous | 5G98259. | 12.9982 | 0.0023 | 13.4490 | 0.0528 |
| 5G98262.D | AD26083-049(MS:AD26 | 09/21/21 09:26 | Aqueous | 5G98259. | 12.9924 | 0.0423 | 13.4444 | 0.0186 |
| 5G98263.D | AD26083-050(MSD:AD2 | 09/21/21 09:45 | Aqueous | 5G98259. | 12.9919 | 0.0462 | 13.4448 | 0.0216 |
| 5G98264.D | AD25966-001 | 09/21/21 10:03 | Aqueous | 5G98259. | 12.9949 | 0.0231 | 13.4477 | 0.0431 |
| 5G98265.D | AD25966-002 | 09/21/21 10:21 | Aqueous | 5G98259. | 12.9960 | 0.0146 | 13.4478 | 0.0439 |
| 5G98266.D | SMB94978 | 09/21/21 10:39 | Soil | 5G98259. | 12.9925 | 0.0416 | 13.4460 | 0.0305 |
| 5G98267.D | OMB94981 | 09/21/21 10:57 | OIL/OTHER | 5G98259. | 12.9981 | 0.0015 | 13.4513 | 0.0699 |
| 5G98268.D | OMB94981(MS) | 09/21/21 12:52 | OIL/OTHER | 5G98259. | 12.9949 | 0.0231 | 13.4473 | 0.0402 |
| 5G98269.D | SMB94978(MS) | 09/21/21 13:11 | Soil | 5G98259. | 12.9917 | 0.0477 | 13.4446 | 0.0201 |
| 5G98270.D | CAL PEST@100PPB | 09/21/21 13:30 | Soil | 5G98259. | 12.9964 | 0.0115 | 13.4497 | 0.058 |

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

# Form 5

Method: EPA 8081B
Instrument: GC_5 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 5G98336.D | CAL EVAL | 09/27/21 22:06 | Soil | | | | | |
| 5G98337.D | EVAL | 09/27/21 22:24 | Soil | | | | | |
| 5G98338.D | CAL PEST@100PPB | 09/27/21 22:42 | Soil | 5G98338. | 13.0007 | 0 | 13.4529 | 0 |
| 5G98339.D | 200PPB | 09/27/21 23:00 | Soil | 5G98338. | 13.0006 | 0.0008 | 13.4525 | 0.003 |
| 5G98340.D | AD26112-006(T) | 09/27/21 23:19 | Aqueous | 5G98338. | 12.9993 | 0.0108 | 13.4535 | 0.0045 |
| 5G98341.D | AD26130-002(T) | 09/27/21 23:37 | Aqueous | 5G98338. | 12.9988 | 0.0146 | 13.4527 | 0.0015 |
| 5G98342.D | AD26130-004(T) | 09/27/21 23:55 | Aqueous | 5G98338. | 12.9997 | 0.0077 | 13.4537 | 0.0059 |
| 5G98343.D | AD26211-001(T) | 09/28/21 00:13 | Aqueous | 5G98338. | 12.9991 | 0.0123 | 13.4541 | 0.0089 |
| 5G98344.D | AD26211-003(T) | 09/28/21 00:31 | Aqueous | 5G98338. | 13.0001 | 0.0046 | 13.4529 | 0 |
| 5G98345.D | AD26146-001 | 09/28/21 00:50 | Aqueous | 5G98338. | 12.9964 | 0.0331 | 13.4499 | 0.0223 |
| 5G98346.D | AD26148-001 | 09/28/21 01:08 | Aqueous | 5G98338. | 12.9960 | 0.0362 | 13.4477 | 0.0387 |
| 5G98347.D | AD26218-001 | 09/28/21 01:26 | Aqueous | 5G98338. | 12.9955 | 0.04 | 13.4485 | 0.0327 |
| 5G98348.D | AD26218-002 | 09/28/21 01:44 | Aqueous | 5G98338. | 12.9949 | 0.0446 | 13.4493 | 0.0268 |
| 5G98349.D | AD26218-003 | 09/28/21 02:02 | Aqueous | 5G98338. | 12.9941 | 0.0508 | 13.4467 | 0.0461 |
| 5G98350.D | AD26218-004 | 09/28/21 02:21 | Aqueous | 5G98338. | 12.9950 | 0.0439 | 13.4488 | 0.0305 |
| 5G98351.D | AD26218-005 | 09/28/21 02:39 | Aqueous | 5G98338. | 12.9968 | 0.03 | 13.4494 | 0.026 |
| 5G98352.D | AD26218-006 | 09/28/21 02:57 | Aqueous | 5G98338. | 12.9956 | 0.0392 | 13.4479 | 0.0372 |
| 5G98353.D | AD26218-007 | 09/28/21 03:15 | Aqueous | 5G98338. | 12.9976 | 0.0239 | 13.4510 | 0.0141 |
| 5G98354.D | AD26218-008 | 09/28/21 03:33 | Aqueous | 5G98338. | 12.9957 | 0.0385 | 13.4492 | 0.0275 |
| 5G98355.D | AD26218-009 | 09/28/21 03:51 | Aqueous | 5G98338. | 13.0005 | 0.0015 | 13.4539 | 0.0074 |
| 5G98356.D | AD26218-011 | 09/28/21 04:10 | Aqueous | 5G98338. | 12.9960 | 0.0362 | 13.4484 | 0.0335 |
| 5G98357.D | AD26166-018 | 09/28/21 04:28 | Aqueous | 5G98338. | 13.0005 | 0.0015 | 13.4546 | 0.0126 |
| 5G98358.D | SMB95040 | 09/28/21 04:46 | Soil | 5G98338. | 12.9973 | 0.0262 | 13.4498 | 0.023 |
| 5G98359.D | AD26204-003 | 09/28/21 05:04 | Soil | 5G98338. | 12.9969 | 0.0292 | 13.4496 | 0.0245 |
| 5G98360.D | CAL EVAL | 09/28/21 09:02 | Soil | | | | | |
| 5G98361.D | EVAL | 09/28/21 09:40 | Soil | | | | | |
| 5G98362.D | CAL PEST@100PPB | 09/28/21 09:58 | Soil | 5G98338. | 13.0001 | 0.0046 | 13.4510 | 0.0141 |
| 5G98363.D | WMB95035 | 09/28/21 10:39 | Aqueous | 5G98362. | 13.0017 | 0.0123 | 13.4443 | 0.0498 |
| 5G98364.D | 95035(MS) | 09/28/21 10:57 | Aqueous | 5G98362. | 13.0019 | 0.0138 | 13.4543 | 0.0245 |
| 5G98365.D | SMB95027(MS) | 09/28/21 11:15 | Soil | 5G98362. | 12.9967 | 0.0262 | 13.4496 | 0.0104 |
| 5G98366.D | SMB94897(MS) | 09/28/21 11:33 | Soil | 5G98362. | 12.9961 | 0.0308 | 13.4480 | 0.0223 |
| 5G98367.D | SMB95040(MS) | 09/28/21 11:52 | Soil | 5G98362. | 12.9964 | 0.0285 | 13.4492 | 0.0134 |
| 5G98368.D | AD25988-001 | 09/28/21 12:10 | Aqueous | 5G98362. | 12.9971 | 0.0231 | 13.4500 | 0.0074 |
| 5G98369.D | AD26112-006(T)(MS) | 09/28/21 12:28 | Aqueous | 5G98362. | 12.9964 | 0.0285 | 13.4505 | 0.0037 |
| 5G98370.D | AD26112-006(T)(MSD) | 09/28/21 12:46 | Aqueous | 5G98362. | 12.9990 | 0.0085 | 13.4531 | 0.0156 |
| 5G98371.D | AD26010-001(T)(MS) | 09/28/21 13:05 | Aqueous | 5G98362. | 12.9994 | 0.0054 | 13.4539 | 0.0216 |
| 5G98372.D | AD26010-001(T)(MSD) | 09/28/21 13:23 | Aqueous | 5G98362. | 12.9980 | 0.0162 | 13.4524 | 0.0104 |
| 5G98373.D | AD26083-002(R) | 09/28/21 13:41 | Aqueous | 5G98362. | 12.9937 | 0.0492 | 13.4468 | 0.0312 |
| 5G98374.D | AD26083-046 | 09/28/21 13:59 | Aqueous | 5G98362. | 12.9959 | 0.0323 | 13.4503 | 0.0052 |
| 5G98375.D | AD26083-048 | 09/28/21 14:17 | Aqueous | 5G98362. | 12.9956 | 0.0346 | 13.4485 | 0.0186 |
| 5G98376.D | AD26218-008 | 09/28/21 14:36 | Aqueous | 5G98362. | 12.9937 | 0.0492 | 13.4468 | 0.0312 |
| 5G98377.D | AD26077-011 | 09/28/21 14:54 | Soil | 5G98362. | 12.9937 | 0.0492 | 13.4453 | 0.0424 |
| 5G98378.D | AD26077-006 | 09/28/21 15:12 | Soil | 5G98362. | 12.9932 | 0.0531 | 13.4438 | 0.0535 |
| 5G98379.D | AD26077-010 | 09/28/21 15:30 | Soil | 5G98362. | 12.9952 | 0.0377 | 13.4461 | 0.0364 |
| 5G98380.D | AD26144-003 | 09/28/21 15:49 | Soil | 5G98362. | 12.9951 | 0.0385 | 13.4494 | 0.0119 |
| 5G98381.D | AD26077-012 | 09/28/21 16:07 | Soil | 5G98362. | 12.9941 | 0.0462 | 13.4458 | 0.0387 |
| 5G98382.D | AD26077-017 | 09/28/21 16:25 | Soil | 5G98362. | 12.9943 | 0.0446 | 13.4464 | 0.0342 |
| 5G98383.D | 100PPB | 09/28/21 18:03 | Soil | 5G98362. | 12.9958 | 0.0331 | 13.4499 | 0.0082 |
| 5G98384.D | CAL PEST@100PPB | 09/28/21 19:04 | Soil | 5G98362. | 13.0003 | 0.0015 | 13.4436 | 0.055 |

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

# Form 5

Method: EPA 8081B

Instrument: GC_6

Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 6G119455.D | CAL EVAL | 09/28/21 23:39 | Soil | | | | | |
| 6G119456.D | EVAL | 09/28/21 23:57 | Soil | | | | | |
| 6G119457.D | CAL PEST@100PPB | 09/29/21 00:14 | Soil | 6G11945 | 12.0297 | 0 | 12.5666 | 0 |
| 6G119458.D | CAL PEST@200PPB | 09/29/21 00:32 | Soil | 6G11945 | 12.0290 | 0.0058 | 12.5673 | 0.0056 |
| 6G119459.D | AD26077-004 | 09/29/21 00:50 | Soil | 6G11945 | 12.0277 | 0.0166 | 12.5664 | 0.0016 |
| 6G119460.D | AD26077-005 | 09/29/21 01:07 | Soil | 6G11945 | 12.0292 | 0.0042 | 12.5659 | 0.0056 |
| 6G119461.D | AD26077-007 | 09/29/21 01:25 | Soil | 6G11945 | 12.0288 | 0.0075 | 12.5650 | 0.0127 |
| 6G119462.D | AD26077-008 | 09/29/21 01:42 | Soil | 6G11945 | 12.0282 | 0.0125 | 12.5653 | 0.0103 |
| 6G119463.D | AD26077-009 | 09/29/21 02:00 | Soil | 6G11945 | 12.0288 | 0.0075 | 12.5656 | 0.008 |
| 6G119464.D | AD26077-013 | 09/29/21 02:18 | Soil | 6G11945 | 12.0299 | 0.0017 | 12.5650 | 0.0127 |
| 6G119465.D | AD26077-014 | 09/29/21 02:35 | Soil | 6G11945 | 12.0306 | 0.0075 | 12.5670 | 0.0032 |
| 6G119466.D | AD26077-015 | 09/29/21 02:53 | Soil | 6G11945 | 12.0298 | 0.0008 | 12.5676 | 0.008 |
| 6G119467.D | AD26077-016 | 09/29/21 03:10 | Soil | 6G11945 | 12.0288 | 0.0075 | 12.5662 | 0.0032 |
| 6G119468.D | AD26077-018 | 09/29/21 03:28 | Soil | 6G11945 | 12.0278 | 0.0158 | 12.5655 | 0.0088 |
| 6G119469.D | AD26077-019 | 09/29/21 03:46 | Soil | 6G11945 | 12.0290 | 0.0058 | 12.5635 | 0.0247 |
| 6G119470.D | AD26077-020 | 09/29/21 04:03 | Soil | 6G11945 | 12.0290 | 0.0058 | 12.5640 | 0.0207 |
| 6G119471.D | CAL EVAL | 09/29/21 08:40 | Soil | | | | | |
| 6G119472.D | CAL PEST@100PPB | 09/29/21 09:03 | Soil | 6G11945 | 12.0313 | 0.0133 | 12.5646 | 0.0159 |
| 6G119473.D | AD26185-001(T) | 09/29/21 09:25 | Aqueous | 6G11947 | 12.0314 | 0.0008 | 12.5647 | 0.0008 |
| 6G119474.D | AD26083-019 | 09/29/21 09:43 | Aqueous | 6G11947 | 12.0274 | 0.0324 | 12.5635 | 0.0088 |
| 6G119475.D | AD26083-030 | 09/29/21 10:00 | Aqueous | 6G11947 | 12.0277 | 0.0299 | 12.5640 | 0.0048 |
| 6G119476.D | AD26142-001 | 09/29/21 10:18 | Soil | 6G11947 | 12.0254 | 0.049 | 12.5643 | 0.0024 |
| 6G119477.D | AD26158-001 | 09/29/21 10:36 | Soil | 6G11947 | 12.0255 | 0.0482 | 12.5636 | 0.008 |
| 6G119478.D | AD26158-002 | 09/29/21 10:53 | Soil | 6G11947 | 12.0259 | 0.0449 | 12.5644 | 0.0016 |
| 6G119479.D | AD26158-003 | 09/29/21 11:11 | Soil | 6G11947 | 12.0258 | 0.0457 | 12.5689 | 0.0342 |
| 6G119480.D | AD26158-006 | 09/29/21 11:28 | Soil | 6G11947 | 12.0272 | 0.0341 | 12.5644 | 0.0016 |
| 6G119481.D | AD26178-004 | 09/29/21 11:46 | Soil | 6G11947 | 12.0265 | 0.0399 | 12.5642 | 0.0032 |
| 6G119482.D | AD26166-008 | 09/29/21 12:54 | Soil | 6G11947 | 12.0345 | 0.0266 | 12.5652 | 0.0048 |
| 6G119483.D | AD26166-010 | 09/29/21 13:12 | Soil | 6G11947 | 12.0277 | 0.0299 | 12.5630 | 0.0127 |
| 6G119484.D | AD26166-007 | 09/29/21 13:29 | Soil | 6G11947 | 12.0278 | 0.0291 | 12.5643 | 0.0024 |
| 6G119485.D | 100PPB | 09/29/21 14:10 | Soil | 6G11947 | 12.0288 | 0.0208 | 12.5651 | 0.004 |
| 6G119486.D | CAL PEST@100PPB | 09/29/21 14:29 | Soil | 6G11947 | 12.0278 | 0.0291 | 12.5633 | 0.0103 |
| 6G119487.D | AD26178-002(T) | 09/29/21 14:50 | Aqueous | 6G11948 | 12.0306 | 0.0233 | 12.5661 | 0.0223 |
| 6G119488.D | AD26178-004(T) | 09/29/21 15:08 | Aqueous | 6G11948 | 12.0277 | 0.0008 | 12.5646 | 0.0103 |
| 6G119489.D | AD26178-006(T) | 09/29/21 15:25 | Aqueous | 6G11948 | 12.0275 | 0.0025 | 12.5648 | 0.0119 |
| 6G119490.D | AD26083-033 | 09/29/21 15:43 | Aqueous | 6G11948 | 12.0263 | 0.0125 | 12.5645 | 0.0095 |
| 6G119491.D | AD26083-035 | 09/29/21 16:00 | Aqueous | 6G11948 | 12.0266 | 0.01 | 12.5643 | 0.008 |
| 6G119492.D | AD26083-036 | 09/29/21 16:18 | Aqueous | 6G11948 | 12.0273 | 0.0042 | 12.5652 | 0.0151 |
| 6G119493.D | AD26083-038 | 09/29/21 16:36 | Aqueous | 6G11948 | 12.0263 | 0.0125 | 12.5635 | 0.0016 |
| 6G119494.D | AD26083-040(R) | 09/29/21 16:53 | Aqueous | 6G11948 | 12.0265 | 0.0108 | 12.5633 | 0 |
| 6G119495.D | AD26166-012 | 09/29/21 17:11 | Soil | 6G11948 | 12.0267 | 0.0091 | 12.5639 | 0.0048 |
| 6G119496.D | AD26166-004 | 09/29/21 17:28 | Soil | 6G11948 | 12.0267 | 0.0091 | 12.5643 | 0.008 |
| 6G119497.D | AD26166-009 | 09/29/21 17:46 | Soil | 6G11948 | 12.0263 | 0.0125 | 12.5647 | 0.0111 |
| 6G119498.D | AD26166-013 | 09/29/21 18:03 | Soil | 6G11948 | 12.0261 | 0.0141 | 12.5626 | 0.0056 |
| 6G119499.D | AD26166-014 | 09/29/21 18:21 | Soil | 6G11948 | 12.0256 | 0.0183 | 12.5630 | 0.0024 |
| 6G119500.D | AD26166-016 | 09/29/21 18:39 | Soil | 6G11948 | 12.0248 | 0.0249 | 12.5632 | 0.0008 |
| 6G119501.D | AD26166-017 | 09/29/21 18:56 | Soil | 6G11948 | 12.0258 | 0.0166 | 12.5626 | 0.0056 |
| 6G119502.D | CAL PEST@100PPB | 09/29/21 19:37 | Soil | 6G11948 | 12.0258 | 0.0166 | 12.5648 | 0.0119 |

Drift Compound: DCB-Surrogate

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

# Form 5

Method: EPA 8081B
Instrument: GC_5 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

| Data File | Sample# | Analysis Date/Time | Matrix | Reference File | Column 1 RT | Column 1 % Drift | Column 2 RT | Column 2 % Drift |
|---|---|---|---|---|---|---|---|---|
| 5G98385.D | CAL EVAL | 09/29/21 09:06 | Soil | | | | | |
| 5G98386.D | CAL PEST@100PPB | 09/29/21 09:47 | Soil | 5G98386. | 12.9953 | 0 | 13.4485 | 0 |
| 5G98387.D | SMB95070 | 09/29/21 10:05 | Soil | 5G98386. | 12.9946 | 0.0054 | 13.4462 | 0.0171 |
| 5G98388.D | SMB95069 | 09/29/21 10:23 | Soil | 5G98386. | 12.9944 | 0.0069 | 13.4472 | 0.0097 |
| 5G98389.D | WMB95066 | 09/29/21 10:41 | Aqueous | 5G98386. | 12.9959 | 0.0046 | 13.4484 | 0.0007 |
| 5G98390.D | WMB95062 | 09/29/21 10:59 | Aqueous | 5G98386. | 12.9970 | 0.0131 | 13.4493 | 0.0059 |
| 5G98391.D | AD26166-001(T) | 09/29/21 11:18 | Aqueous | 5G98386. | 12.9943 | 0.0077 | 13.4465 | 0.0149 |
| 5G98392.D | AD26166-002(T) | 09/29/21 11:36 | Aqueous | 5G98386. | 12.9948 | 0.0039 | 13.4484 | 0.0007 |
| 5G98393.D | AD26166-003(T) | 09/29/21 11:54 | Aqueous | 5G98386. | 12.9946 | 0.0054 | 13.4461 | 0.0178 |
| 5G98394.D | AD26178-002 | 09/29/21 12:12 | Soil | 5G98386. | 12.9937 | 0.0123 | 13.4474 | 0.0082 |
| 5G98395.D | AD26178-006 | 09/29/21 12:30 | Soil | 5G98386. | 12.9947 | 0.0046 | 13.4466 | 0.0141 |
| 5G98396.D | AD26158-004 | 09/29/21 12:49 | Soil | 5G98386. | 12.9933 | 0.0154 | 13.4439 | 0.0342 |
| 5G98397.D | AD26158-005 | 09/29/21 13:07 | Soil | 5G98386. | 12.9923 | 0.0231 | 13.4429 | 0.0416 |
| 5G98398.D | AD26235-001(T) | 09/29/21 13:25 | Aqueous | 5G98386. | 12.9952 | 0.0008 | 13.4492 | 0.0052 |
| 5G98399.D | AD26185-001 | 09/29/21 13:43 | Aqueous | 5G98386. | 12.9946 | 0.0054 | 13.4464 | 0.0156 |
| 5G98400.D | AD26174-001 | 09/29/21 14:01 | Aqueous | 5G98386. | 12.9936 | 0.0131 | 13.4459 | 0.0193 |
| 5G98401.D | AD26228-001 | 09/29/21 14:20 | Aqueous | 5G98386. | 12.9929 | 0.0185 | 13.4448 | 0.0275 |
| 5G98402.D | AD26228-002 | 09/29/21 14:38 | Aqueous | 5G98386. | 12.9928 | 0.0192 | 13.4453 | 0.0238 |
| 5G98403.D | AD26228-003 | 09/29/21 14:56 | Aqueous | 5G98386. | 12.9920 | 0.0254 | 13.4453 | 0.0238 |
| 5G98404.D | AD26228-004 | 09/29/21 15:14 | Aqueous | 5G98386. | 12.9933 | 0.0154 | 13.4462 | 0.0171 |
| 5G98405.D | AD26228-005 | 09/29/21 15:33 | Aqueous | 5G98386. | 12.9971 | 0.0138 | 13.4494 | 0.0067 |
| 5G98406.D | AD26083-032 | 09/29/21 15:51 | Aqueous | 5G98386. | 12.9933 | 0.0154 | 13.4467 | 0.0134 |
| 5G98407.D | CAL PEST@100PPB | 09/29/21 16:44 | Aqueous | 5G98386. | 12.9943 | 0.0077 | 13.4407 | 0.058 |
| 5G98408.D | SMB95069(MS) | 09/29/21 17:07 | Soil | 5G98407. | 12.9934 | 0.0069 | 13.4390 | 0.0126 |
| 5G98409.D | SMB95070(MS) | 09/29/21 17:26 | Soil | 5G98407. | 12.9940 | 0.0023 | 13.4466 | 0.0439 |
| 5G98410.D | AD26166-005 | 09/29/21 17:44 | Soil | 5G98407. | 12.9944 | 0.0008 | 13.4462 | 0.0409 |
| 5G98411.D | AD26166-006 | 09/29/21 18:02 | Soil | 5G98407. | 12.9940 | 0.0023 | 13.4464 | 0.0424 |
| 5G98412.D | AD26166-011 | 09/29/21 18:20 | Soil | 5G98407. | 12.9939 | 0.0031 | 13.4462 | 0.0409 |
| 5G98413.D | AD26166-015 | 09/29/21 18:39 | Soil | 5G98407. | 12.9933 | 0.0077 | 13.4458 | 0.0379 |
| 5G98414.D | CAL PEST@100PPB | 09/29/21 19:44 | Soil | 5G98407. | 12.9929 | 0.0108 | 13.4484 | 0.0573 |
| 5G98415.D | WMB95035(MS) | 09/29/21 20:04 | Aqueous | 5G98414. | 12.9944 | 0.0115 | 13.4434 | 0.0372 |
| 5G98416.D | WMB95062(MS) | 09/29/21 20:22 | Aqueous | 5G98414. | 12.9978 | 0.0377 | 13.4519 | 0.026 |
| 5G98417.D | CAL PEST@100PPB | 09/29/21 20:40 | Aqueous | 5G98414. | 12.9960 | 0.0239 | 13.4482 | 0.0015 |

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

# GC Pesticide Data
# Sample Data

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-001
Client Id: LTMW-22-20210913
Data File: 5G98229.D
Analysis Date: 09/20/21 01:08
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98229.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 01:08:15
Operator : MS/MLC/MC
Sample : AD26083-001
Misc : A,PEST
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:32:05 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

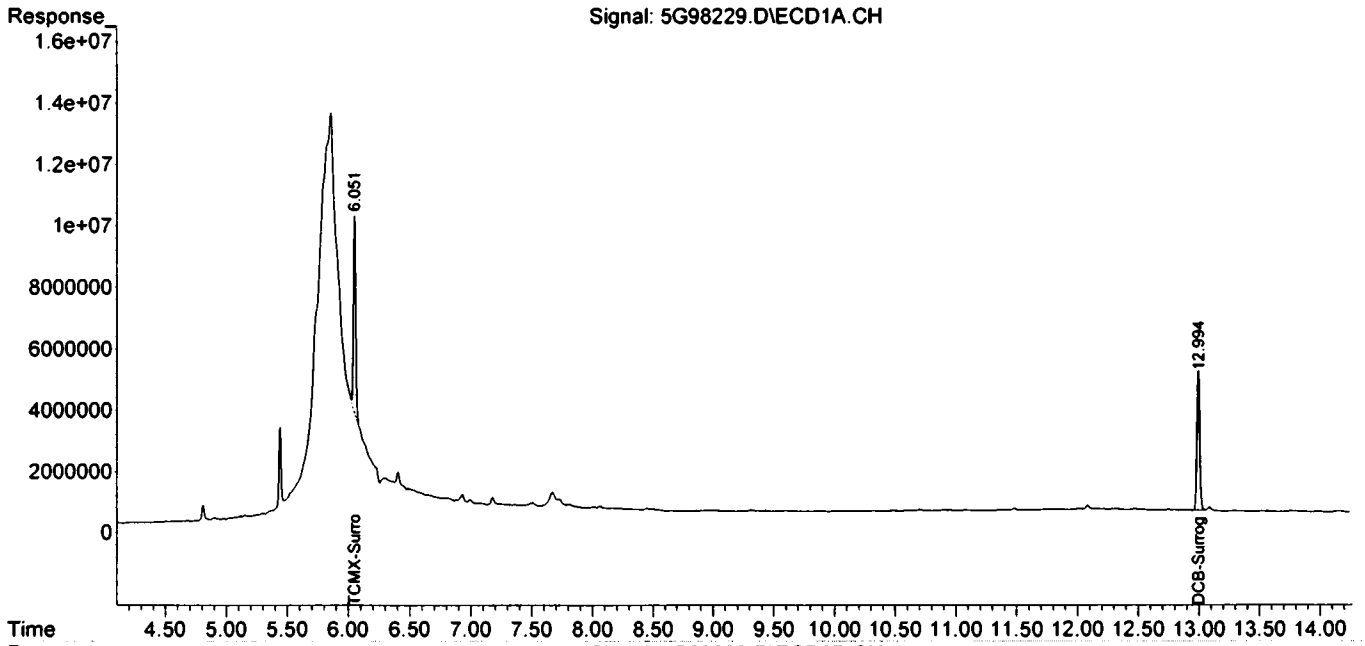
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.051 | 6.028 | 81983534 | 41220866 | 42.729m | 46.259 |
| 22) | DCB-Surrogate | 12.994 | 13.445 | 73098978 | 35653550 | 65.477 | 67.567 |

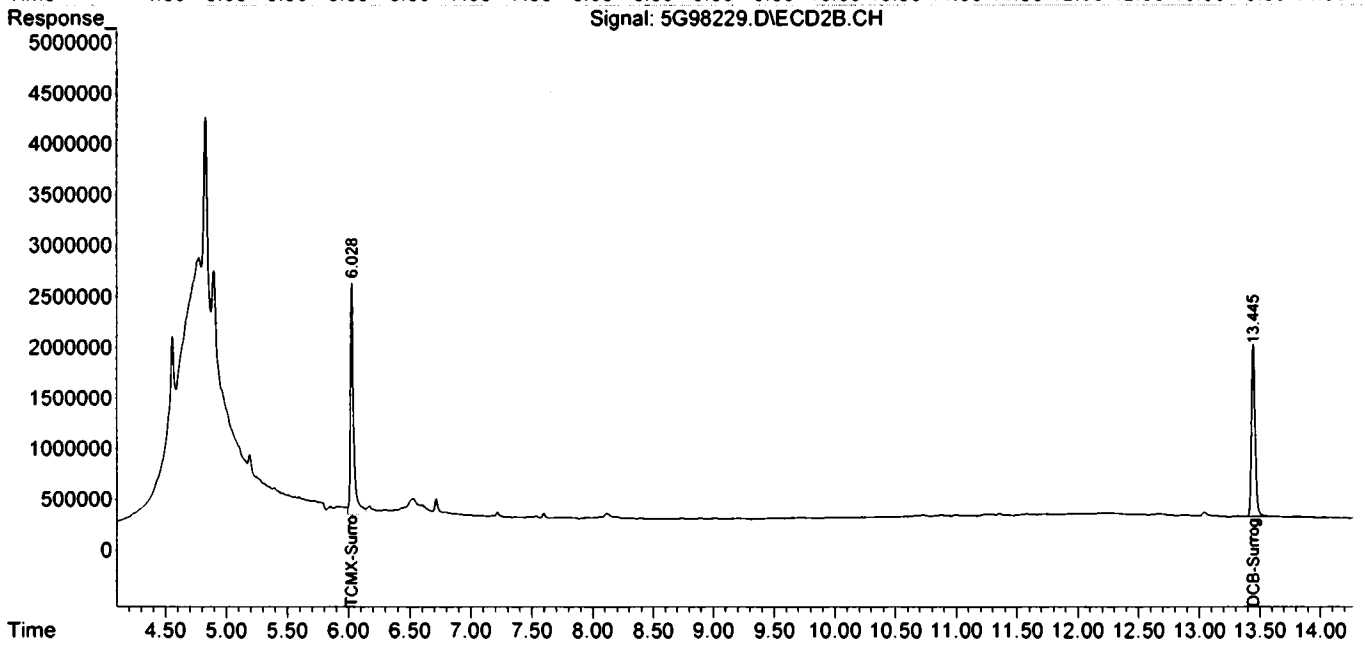
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98229.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 01:08:15
Operator : MS/MLC/MC
Sample : AD26083-001
Misc : A,PEST
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:32:05 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-002(R)
Client Id: LTMW-8-20210913
Data File: 5G98373.D
Analysis Date: 09/28/21 13:41
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98373.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Sep-21, 13:41:25
Operator : MS/MLC/MC/PR
Sample : AD26083-002(R)
Misc : A,PEST
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 18:59:44 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

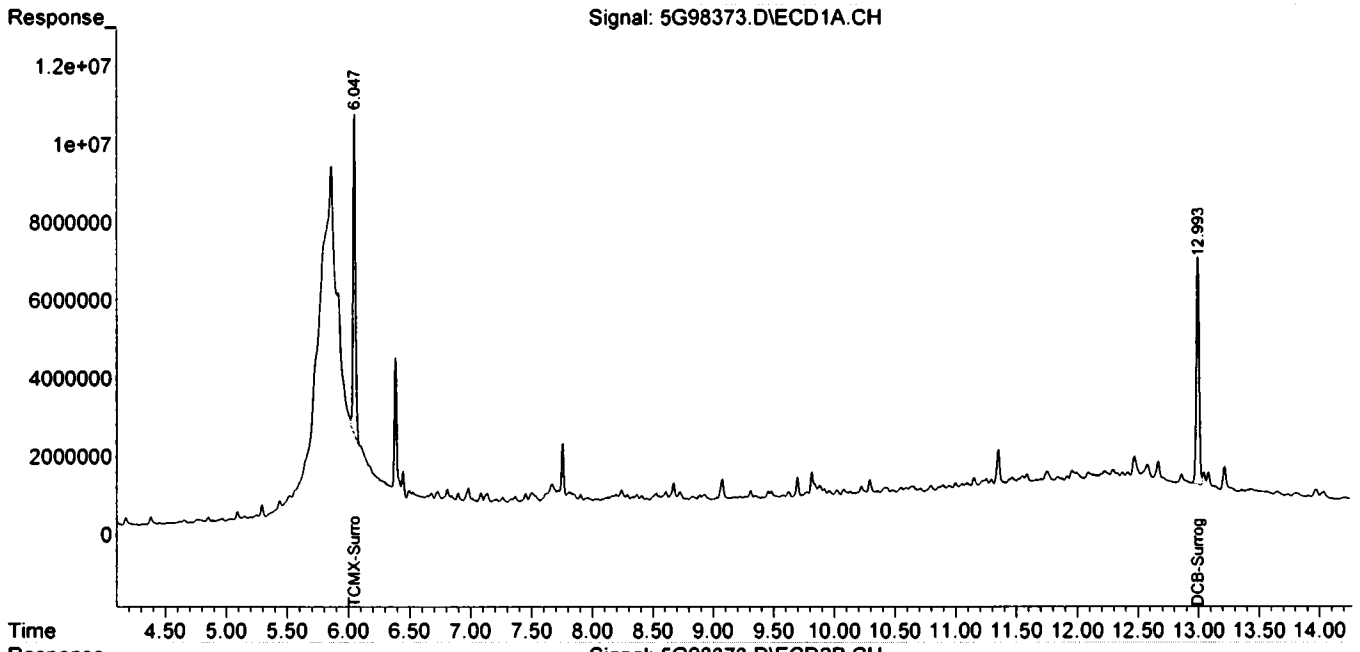
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.047 | 6.024 | 111.5E6 | 43865375 | 58.121m | 49.227m |
| 22) | DCB-Surrogate | 12.994 | 13.447 | 94699617 | 44476764 | 84.825 | 84.288m |

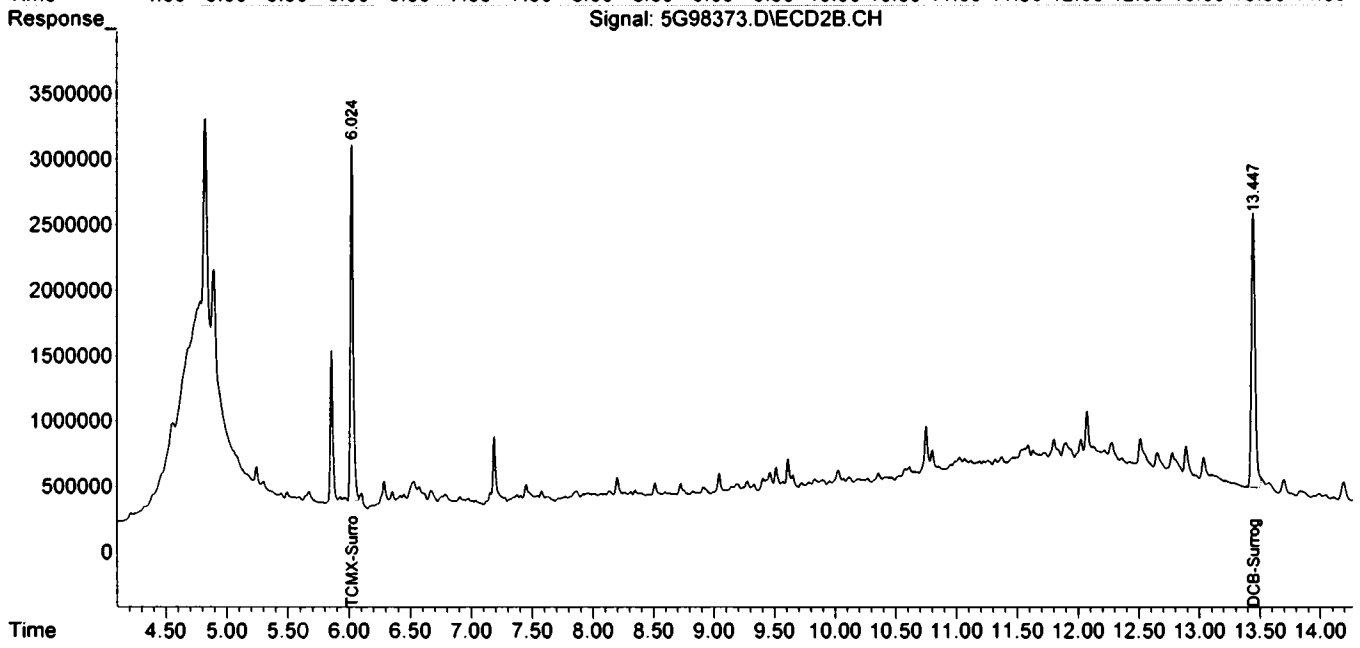
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98373.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Sep-21, 13:41:25
Operator : MS/MLC/MC/PR
Sample : AD26083-002(R)
Misc : A,PEST
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 18:59:44 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-003
Client Id: LTMW-10-20210913 U
Data File: 5G98231.D
Analysis Date: 09/20/21 01:44
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98231.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 01:44:35
Operator : MS/MLC/MC
Sample : AD26083-003
Misc : A,PEST
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:34:16 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

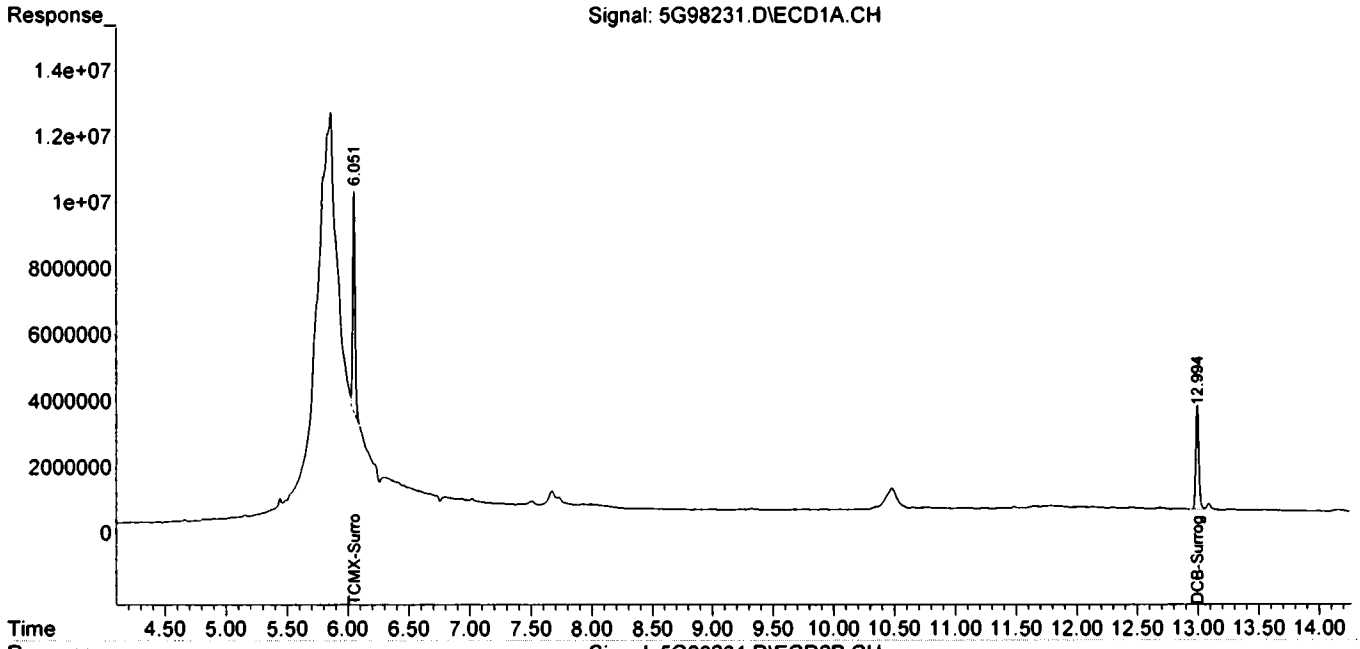
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.051 | 6.028 | 88650533 | 36708836 | 46.204m | 41.196m |
| 22) | DCB-Surrogate | 12.995 | 13.447 | 54870636 | 27469872 | 49.149 | 52.058 |

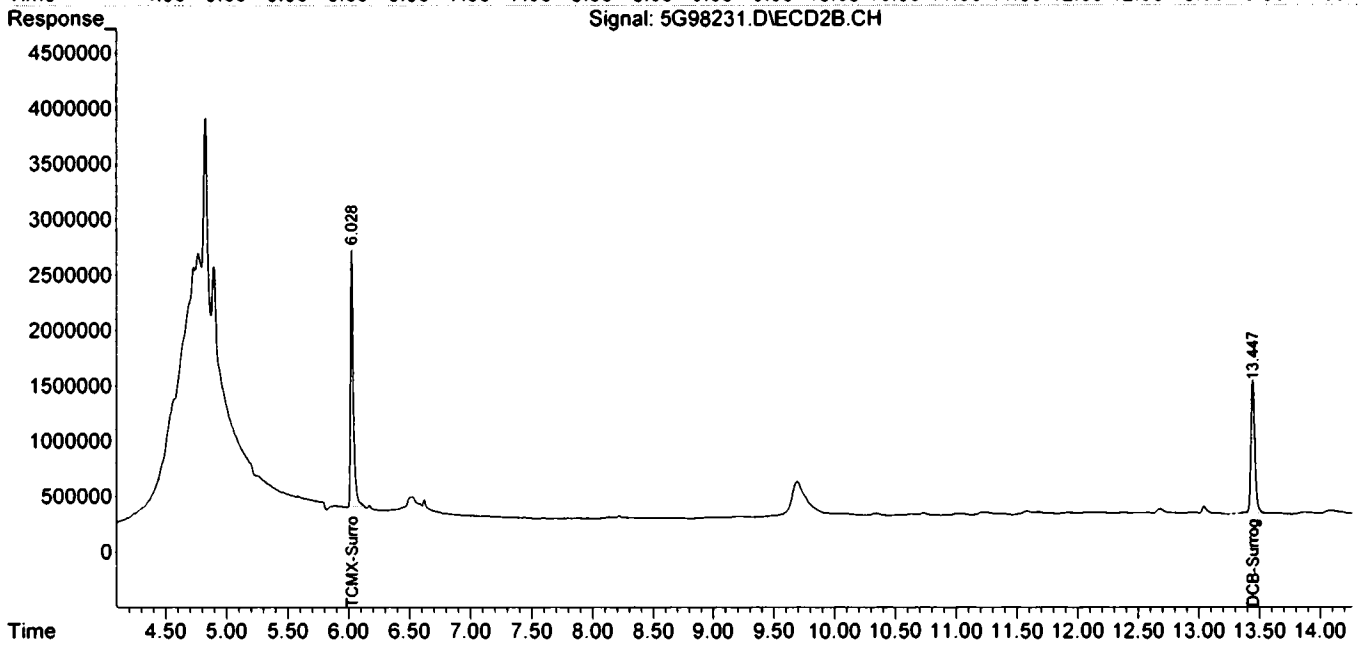
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98231.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 01:44:35
Operator : MS/MLC/MC
Sample : AD26083-003
Misc : A,PEST
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:34:16 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-005
Client Id: FB-20210913
Data File: 5G98232.D
Analysis Date: 09/20/21 02:02
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 610738

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98232.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 02:02:50
Operator : MS/MLC/MC
Sample : AD26083-005
Misc : A,PEST
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:34:56 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

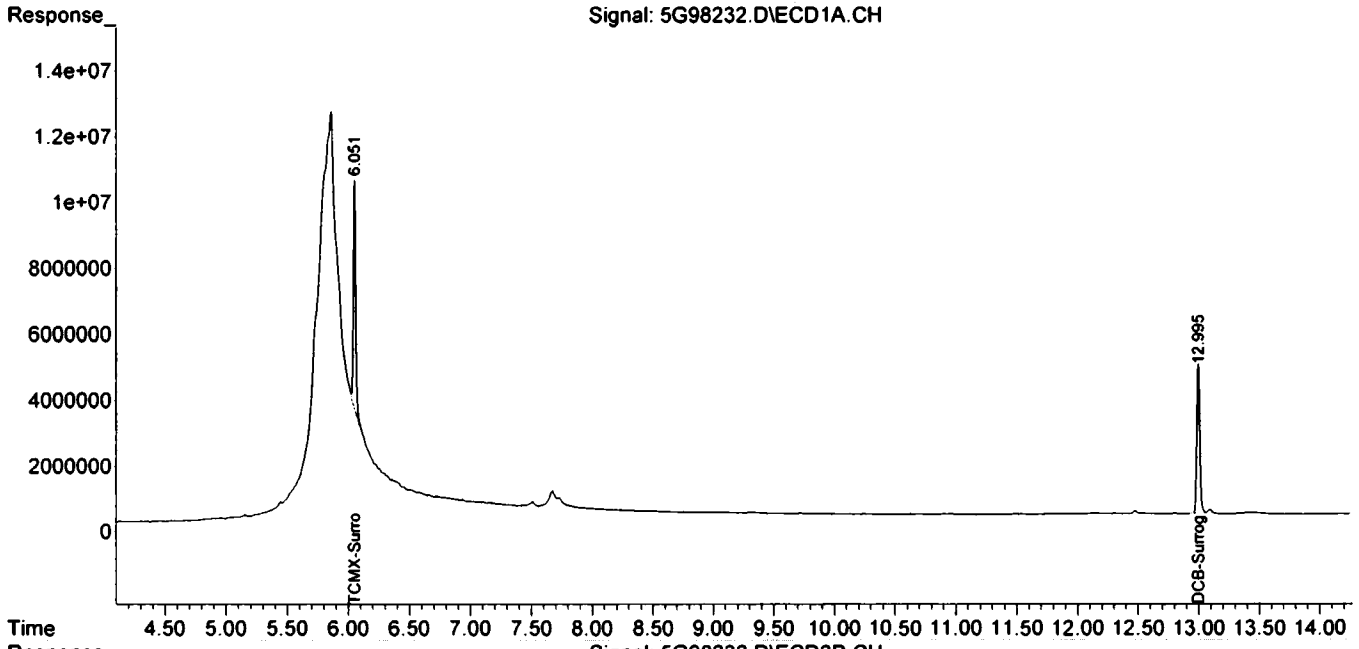
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.051 | 6.028 | 89858164 | 38518093 | 46.833m | 43.226 |
| 22) | DCB-Surrogate | 12.996 | 13.448 | 79168272 | 41171547 | 70.913 | 78.024 |

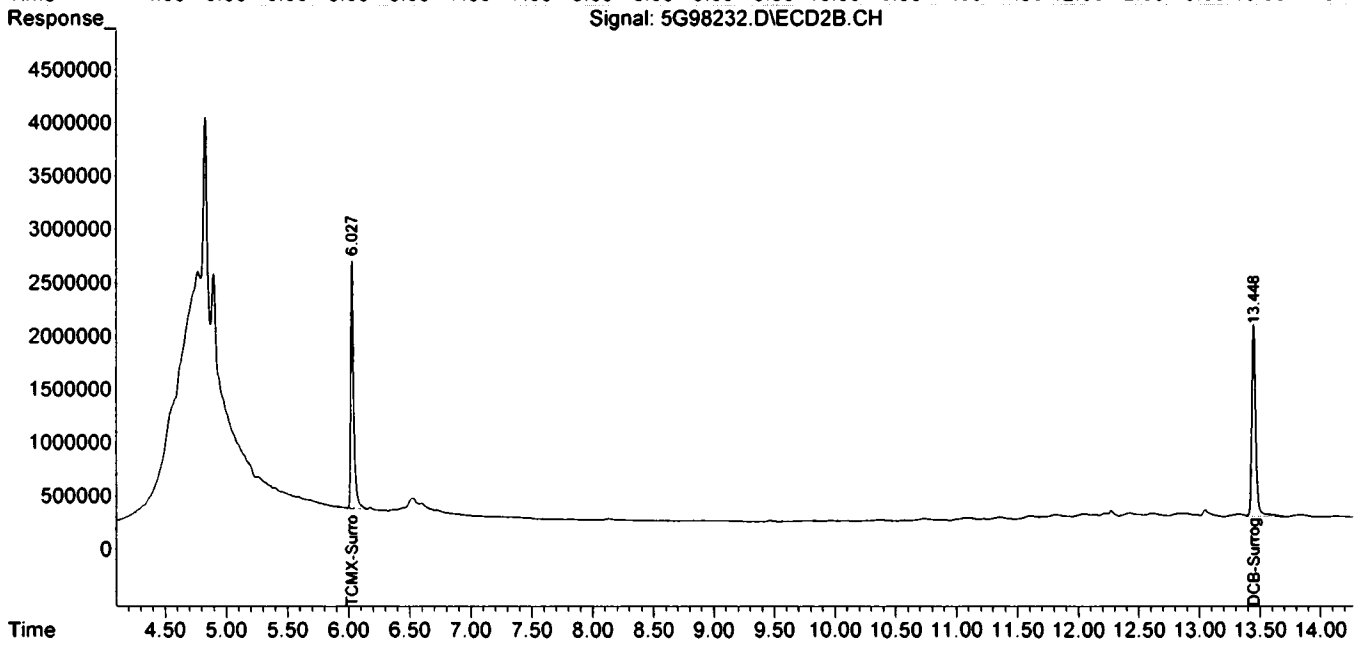
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98232.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 02:02:50
Operator : MS/MLC/MC
Sample : AD26083-005
Misc : A,PEST
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:34:56 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-006
Client Id: LTMW-9-20210913 U
Data File: 5G98233.D
Analysis Date: 09/20/21 02:20
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98233.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 02:20:59
Operator : MS/MLC/MC
Sample : AD26083-006
Misc : A,PEST
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:35:44 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

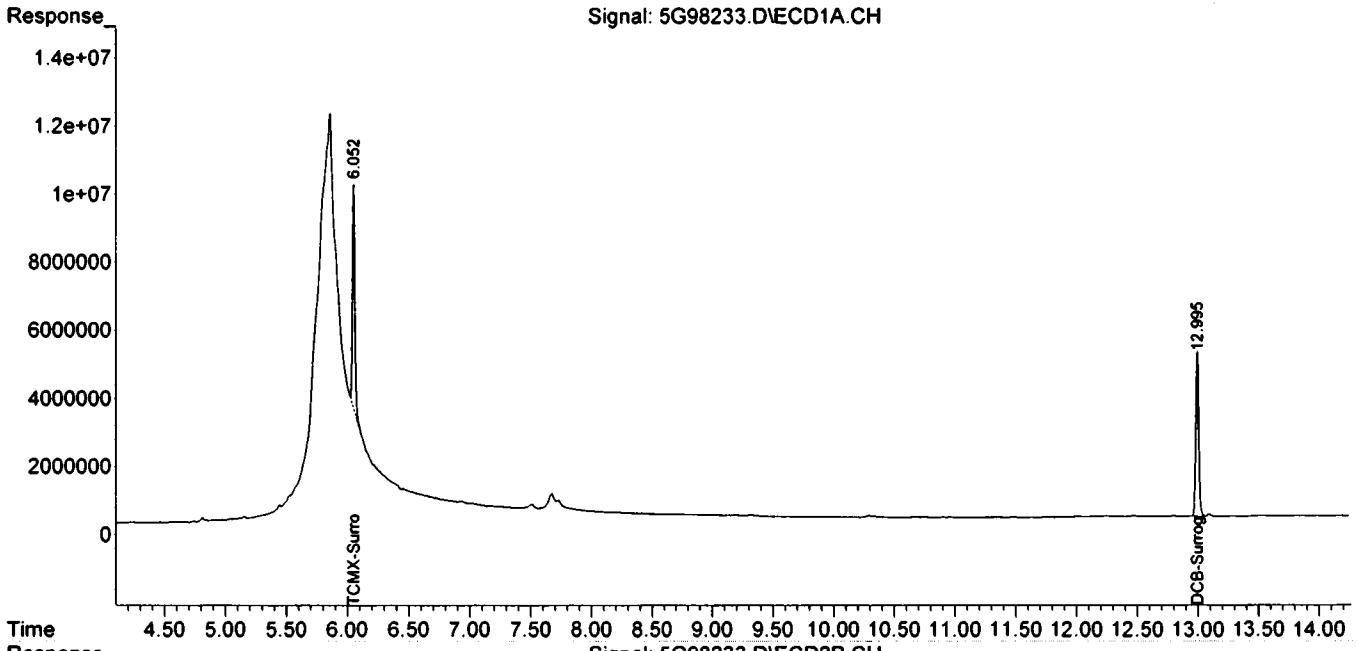
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.052 | 6.029 | 88875226 | 41242481 | 46.321m | 46.284 |
| 22) | DCB-Surrogate | 12.995 | 13.448 | 82243315 | 40442216 | 73.667 | 76.642 |

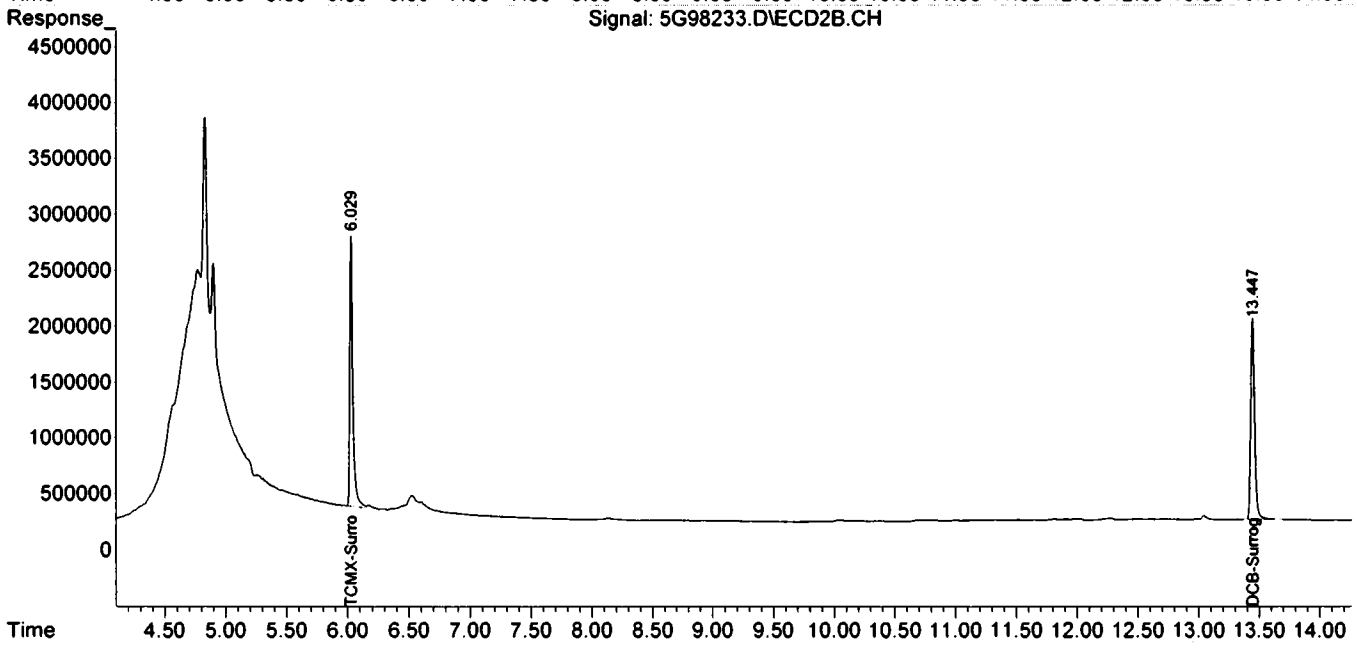
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98233.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 02:20:59
Operator : MS/MLC/MC
Sample : AD26083-006
Misc : A,PEST
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:35:44 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-008
Client Id: LTMW-11-20210913
Data File: 5G98234.D
Analysis Date: 09/20/21 02:39
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

***Total Target Concentration*** 0

ColumnID: (*) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98234.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 02:39:07
Operator : MS/MLC/MC
Sample : AD26083-008
Misc : A,PEST
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:36:18 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

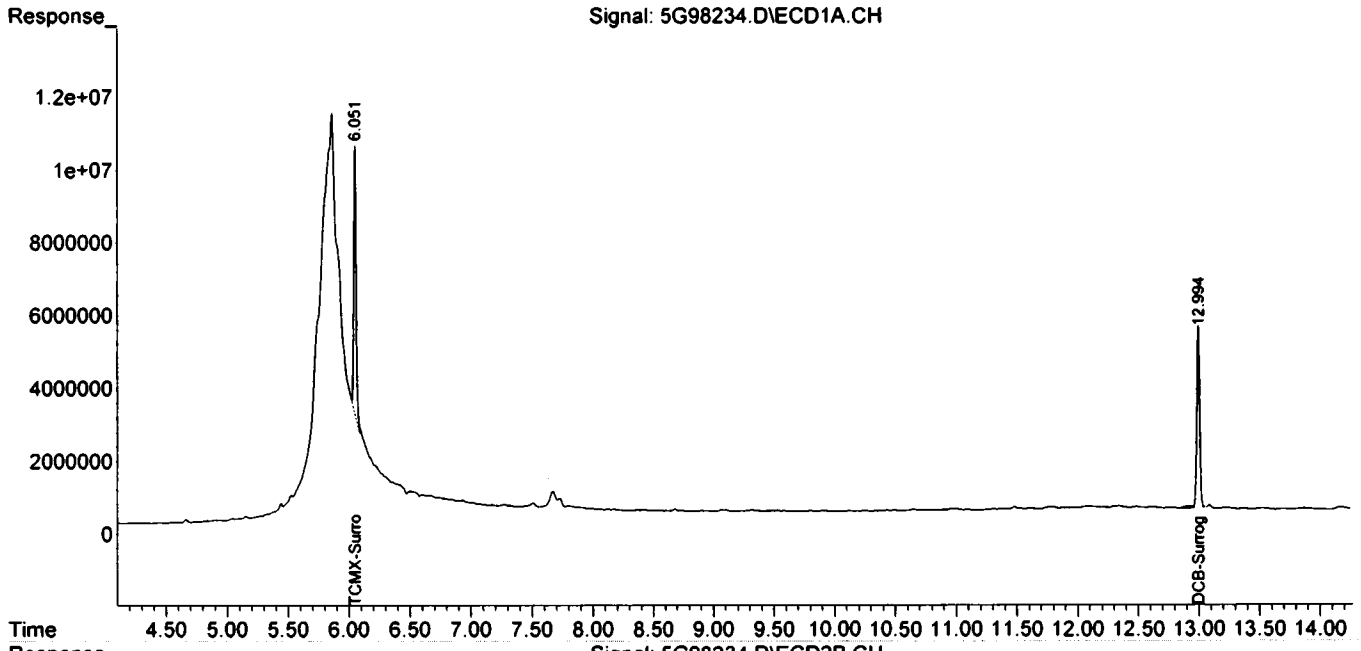
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.051 | 6.028 | 97693165 | 41475323 | 50.916m | 46.545 |
| 22) | DCB-Surrogate | 12.994 | 13.446 | 85671348 | 41603323 | 76.738 | 78.843 |

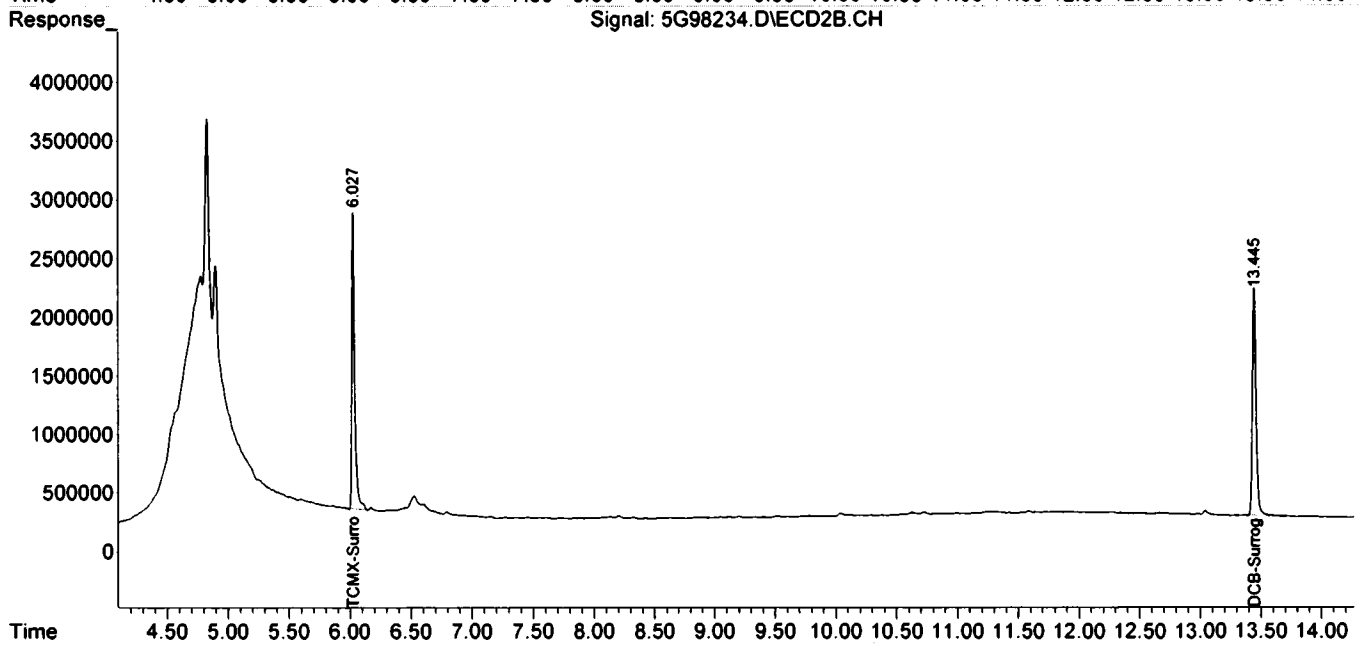
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98234.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 02:39:07
Operator : MS/MLC/MC
Sample : AD26083-008
Misc : A,PEST
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:36:18 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-009
Client Id: DUP-01-20210913
Data File: 5G98235.D
Analysis Date: 09/20/21 02:57
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 610738

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98235.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 02:57:17
Operator : MS/MLC/MC
Sample : AD26083-009
Misc : A,PEST
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:53:24 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

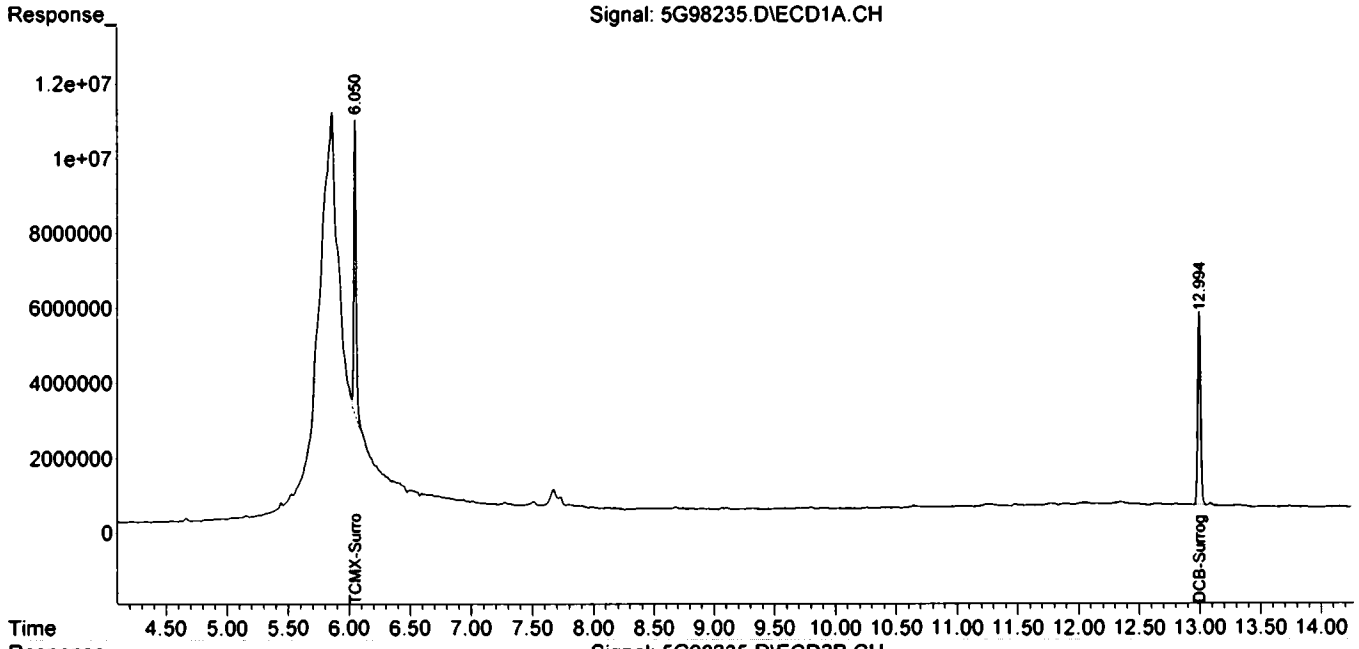
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.050 | 6.028 | 103.8E6 | 43411477 | 54.081m | 48.718 |
| 22) | DCB-Surrogate | 12.995 | 13.446 | 86176694 | 42082164 | 77.191 | 79.750 |

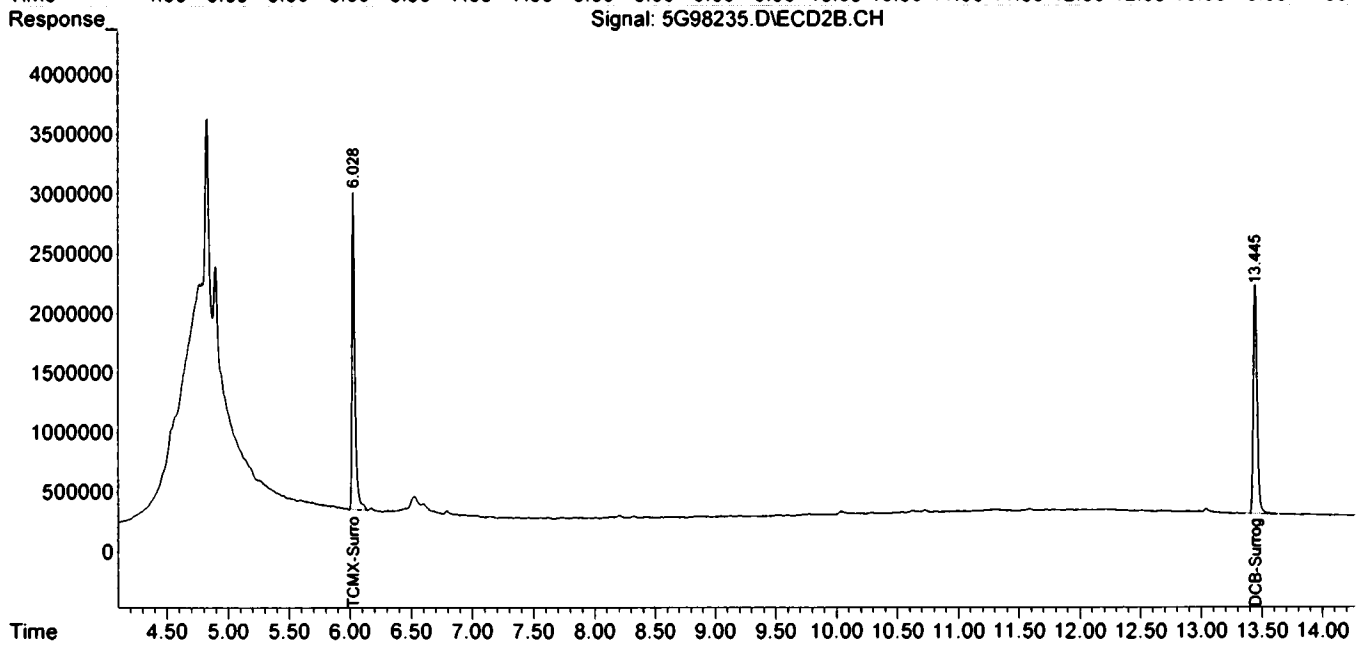
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98235.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 02:57:17
Operator : MS/MLC/MC
Sample : AD26083-009
Misc : A,PEST
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:53:24 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-011
Client Id: LTMW-7-20210913
Data File: 5G98236.D
Analysis Date: 09/20/21 03:15
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98236.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 03:15:36
Operator : MS/MLC/MC
Sample : AD26083-011
Misc : A,PEST
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:54:04 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

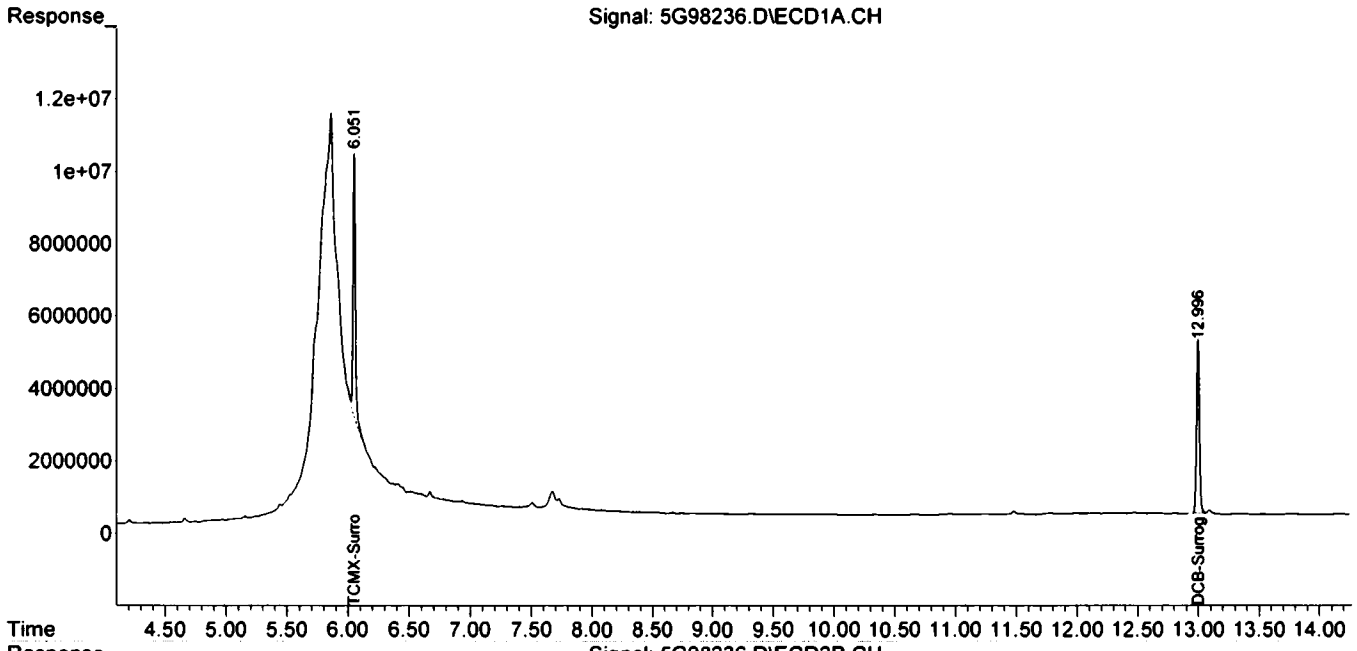
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.051 | 6.028 | 97244894 | 41588988 | 50.683m | 46.673 |
| 22) | DCB-Surrogate | 12.996 | 13.446 | 78054293 | 42970679 | 69.915 | 81.434 |

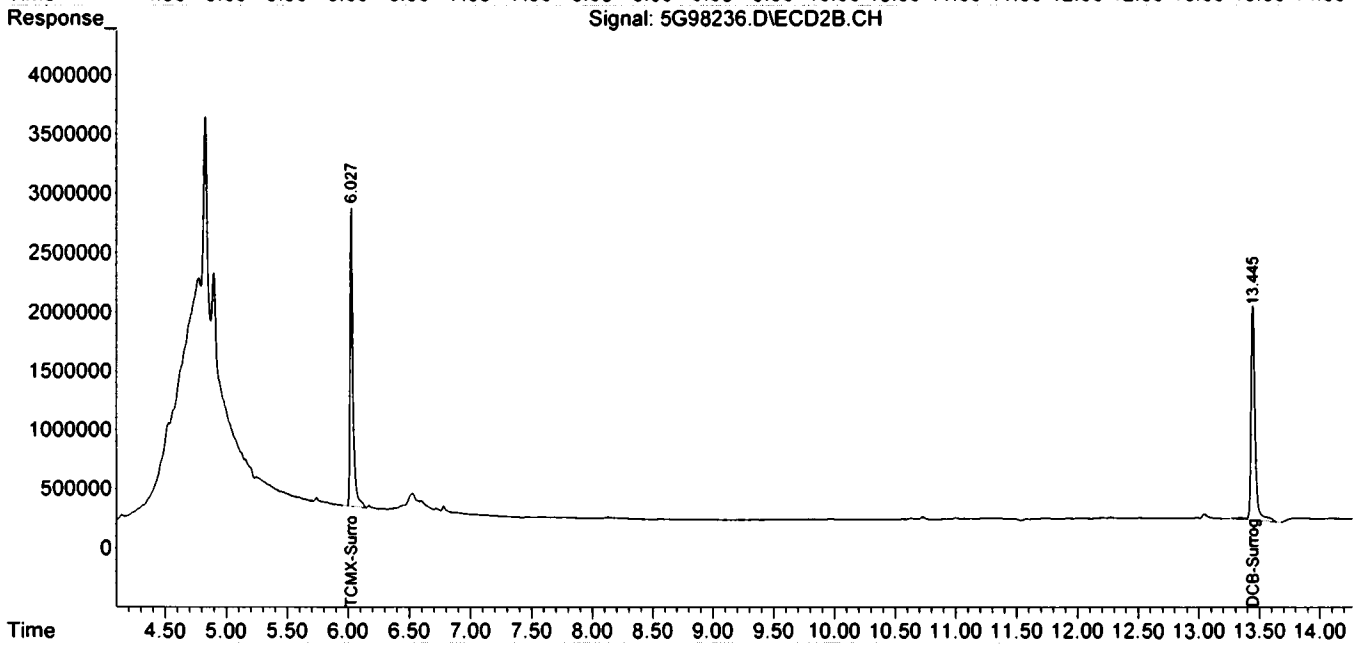
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98236.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 03:15:36
Operator : MS/MLC/MC
Sample : AD26083-011
Misc : A,PEST
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 12:54:04 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-012
Client Id: LTMW-21-20210914 U
Data File: 5G98237.D
Analysis Date: 09/20/21 03:33
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98237.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 03:33:46
Operator : MS/MLC/MC
Sample : AD26083-012
Misc : A,PEST
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:01:31 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

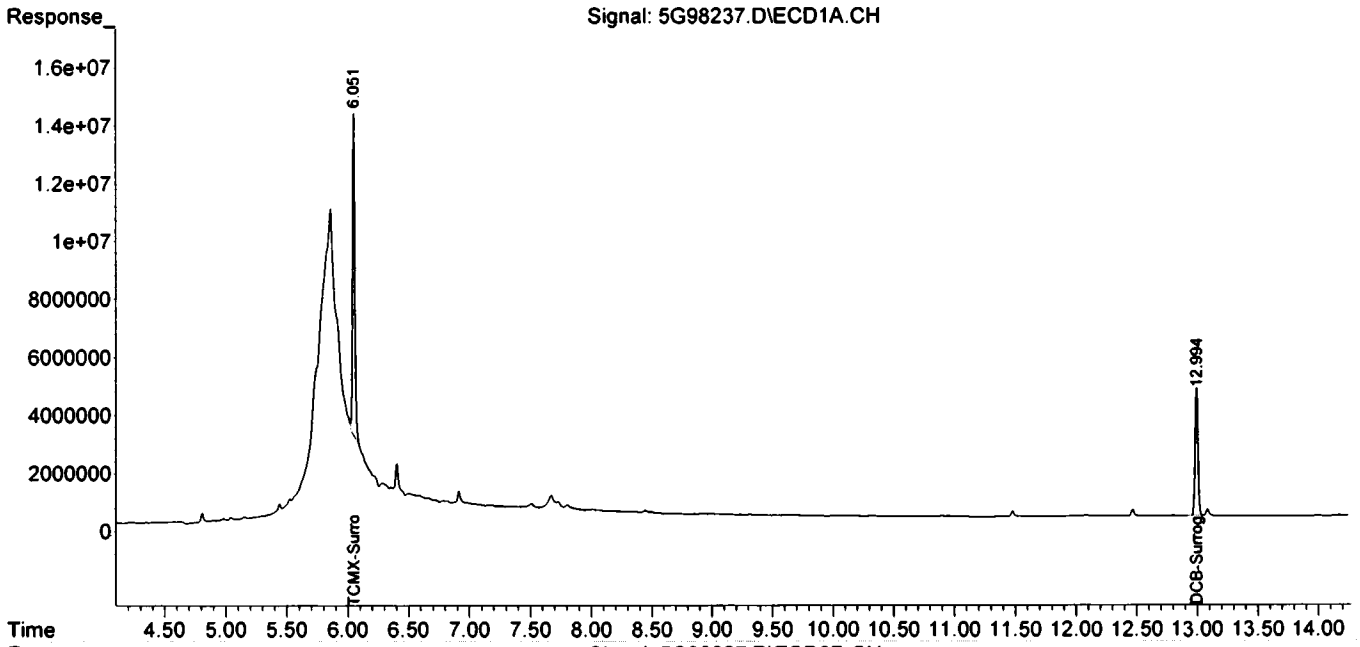
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.051 | 6.028 | 143.4E6 | 60936428 | 74.735m | 68.385m |
| 22) | DCB-Surrogate | 12.995 | 13.446 | 72831038 | 35816101 | 65.237 | 67.875 |

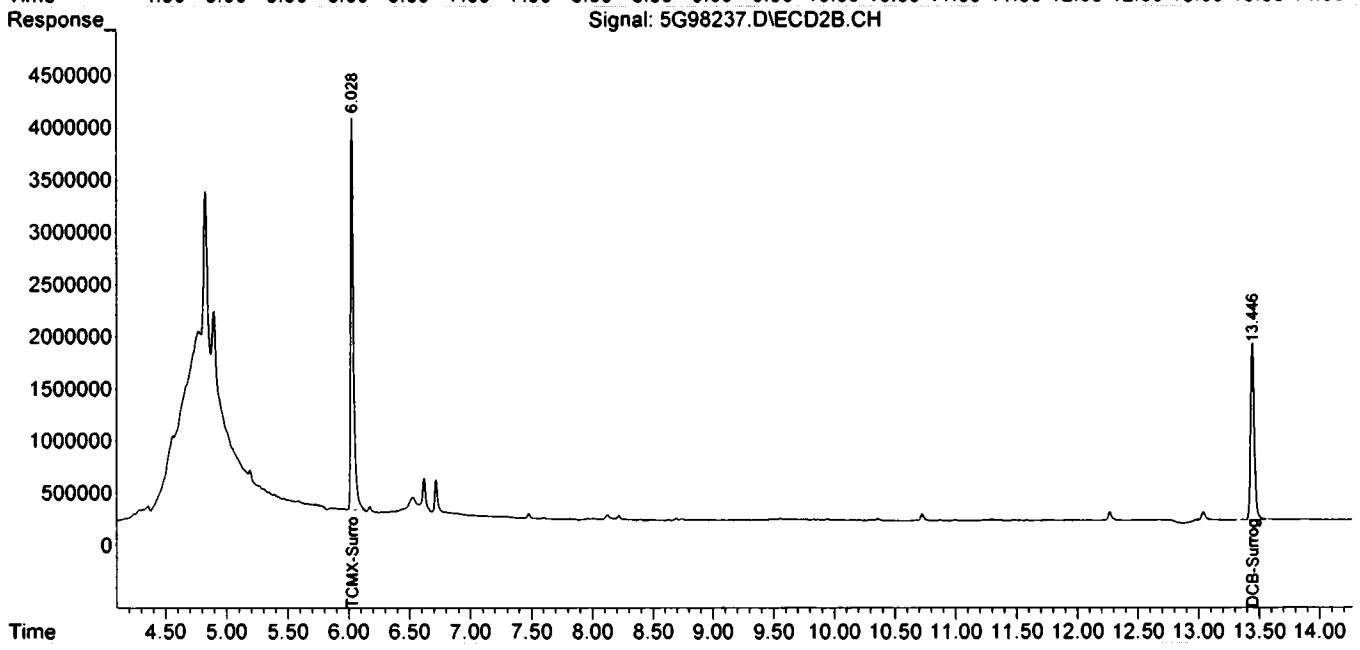
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98237.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 03:33:46
Operator : MS/MLC/MC
Sample : AD26083-012
Misc : A,PEST
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:01:31 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-014
Client Id: LTMW-12-20210914 U
Data File: 5G98238.D
Analysis Date: 09/20/21 03:51
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet = 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98238.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 03:51:55
Operator : MS/MLC/MC
Sample : AD26083-014
Misc : A,PEST
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:02:08 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

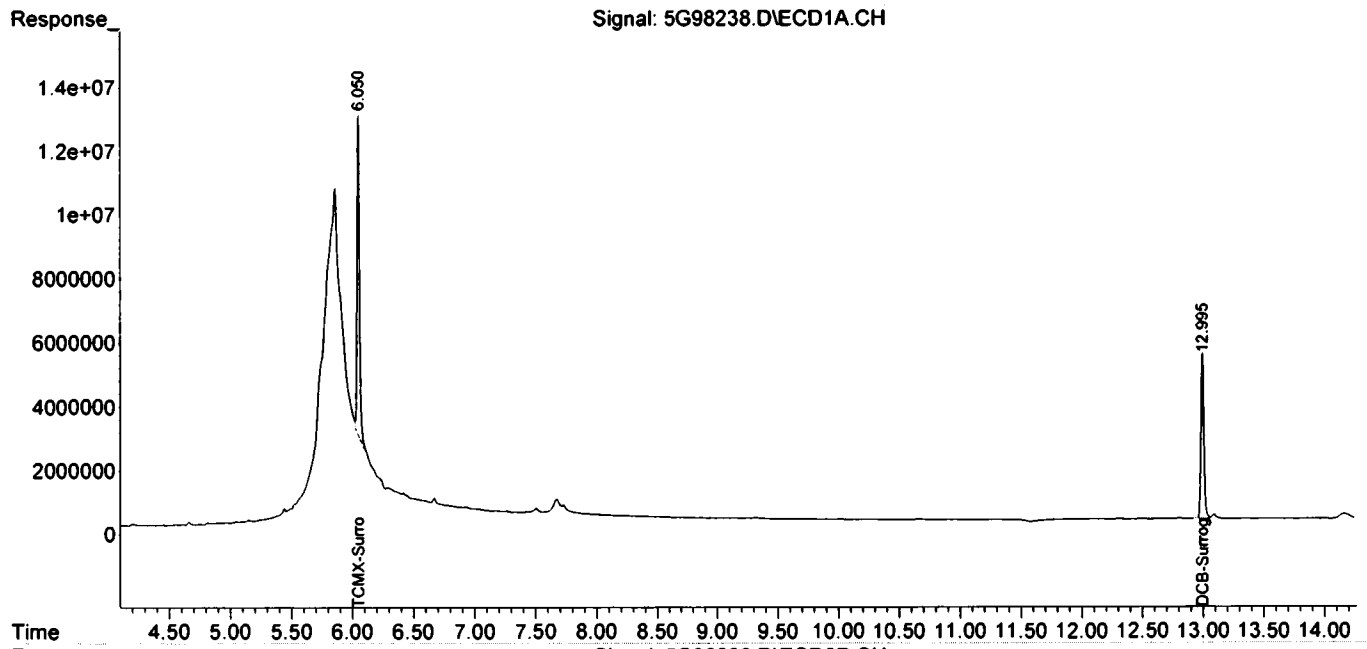
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.050 | 6.028 | 137.0E6 | 59724692 | 71.423m | 67.025 |
| 22) | DCB-Surrogate | 12.995 | 13.448 | 87759335 | 42886127 | 78.608 | 81.274 |

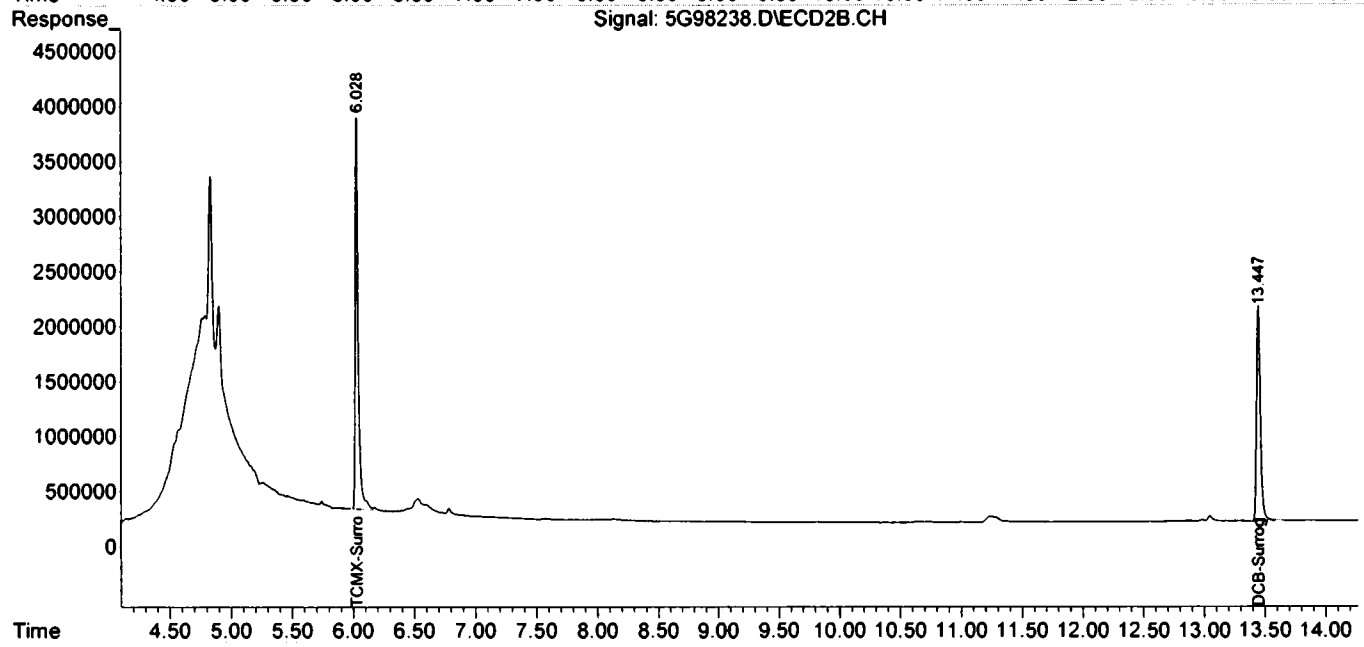
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98238.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 03:51:55
Operator : MS/MLC/MC
Sample : AD26083-014
Misc : A,PEST
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:02:08 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-016
Client Id: LTMW-6-20210914 U
Data File: 5G98239.D
Analysis Date: 09/20/21 04:10
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98239.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 04:10:06
Operator : MS/MLC/MC
Sample : AD26083-016
Misc : A,PEST
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:03:08 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

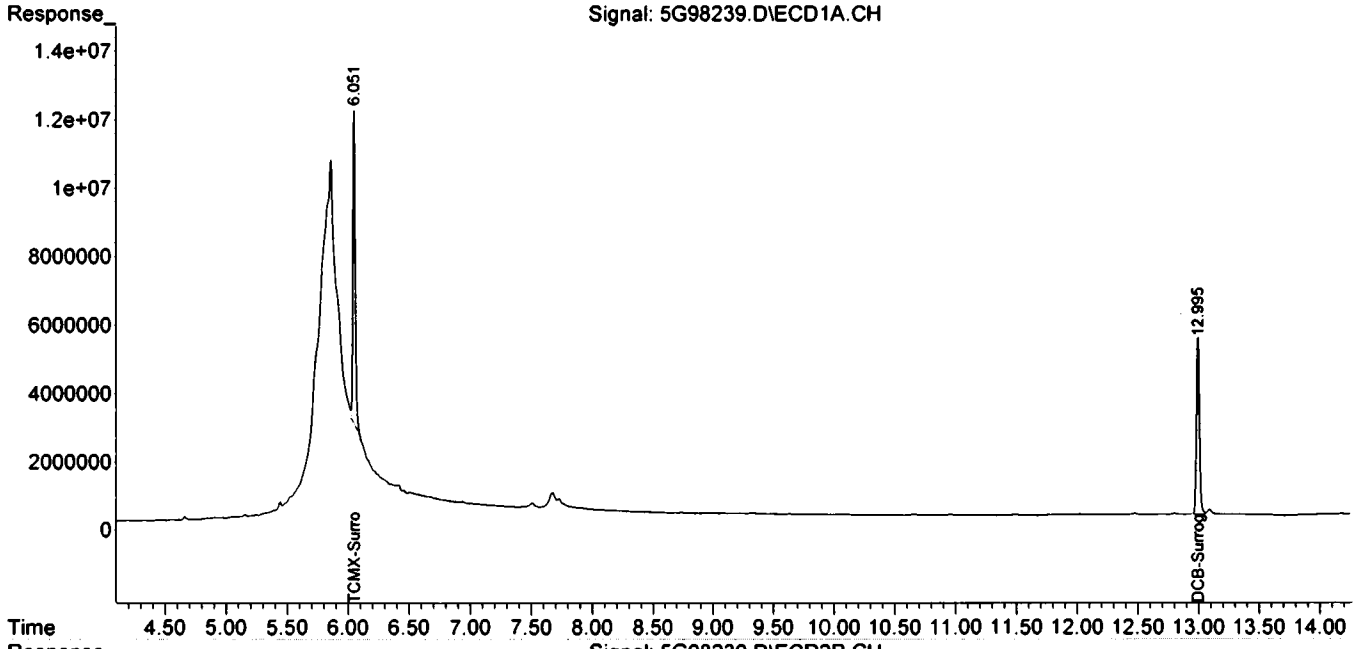
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.051 | 6.029 | 121.6E6 | 53786022 | 63.374m | 60.360 |
| 22)DCB-Surrogate | 12.995 | 13.448 | 89618265 | 44682865 | 80.273 | 84.679 |

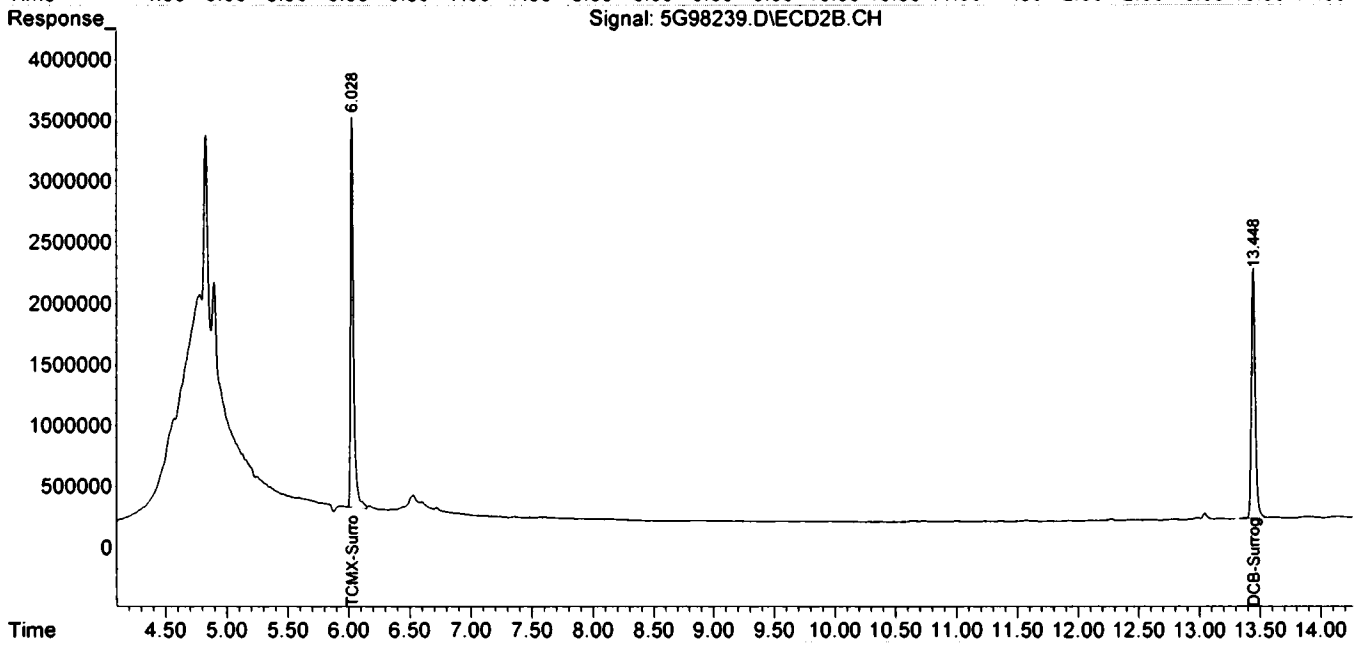
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98239.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 04:10:06
Operator : MS/MLC/MC
Sample : AD26083-016
Misc : A,PEST
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:03:08 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-018
Client Id: LTMW-13-20210914
Data File: 5G98240.D
Analysis Date: 09/20/21 04:28
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # : 611603 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98240.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 04:28:22
Operator : MS/MLC/MC
Sample : AD26083-018
Misc : A,PEST
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:03:44 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

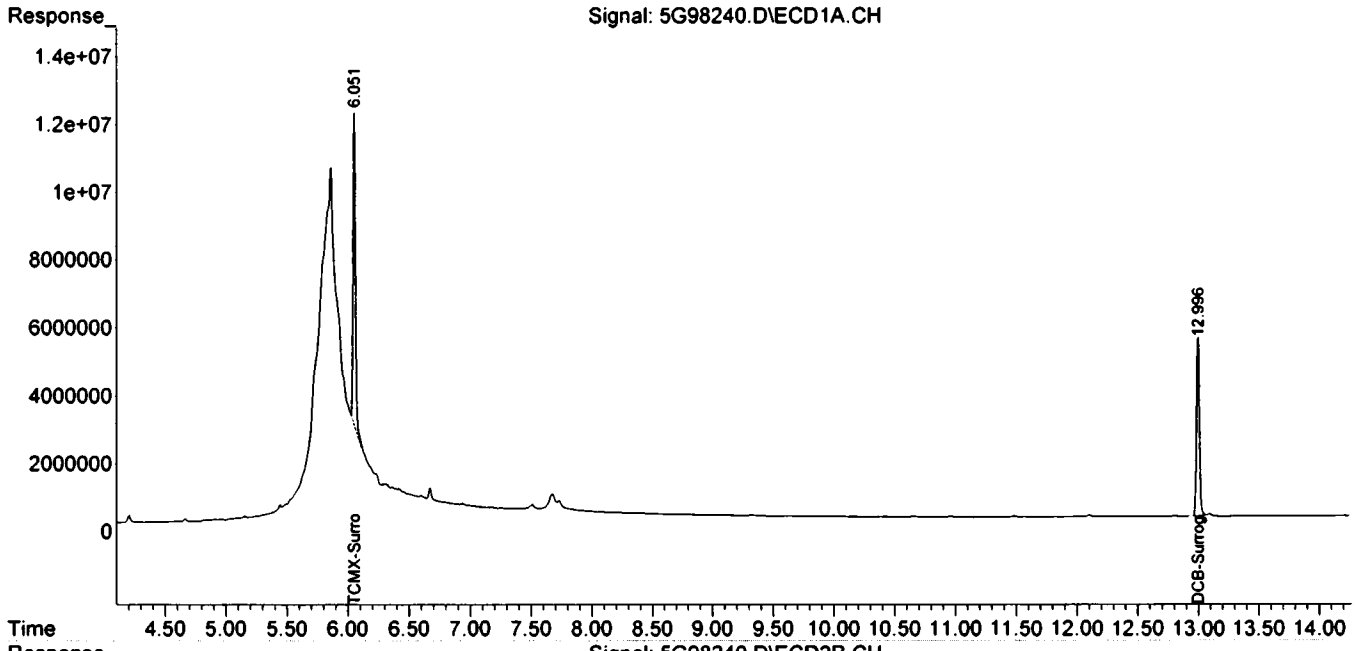
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.051 | 6.028 | 122.4E6 | 53721148 | 63.815m | 60.288 |
| 22) | DCB-Surrogate | 12.996 | 13.449 | 87774493 | 45194662 | 78.622 | 85.649 |

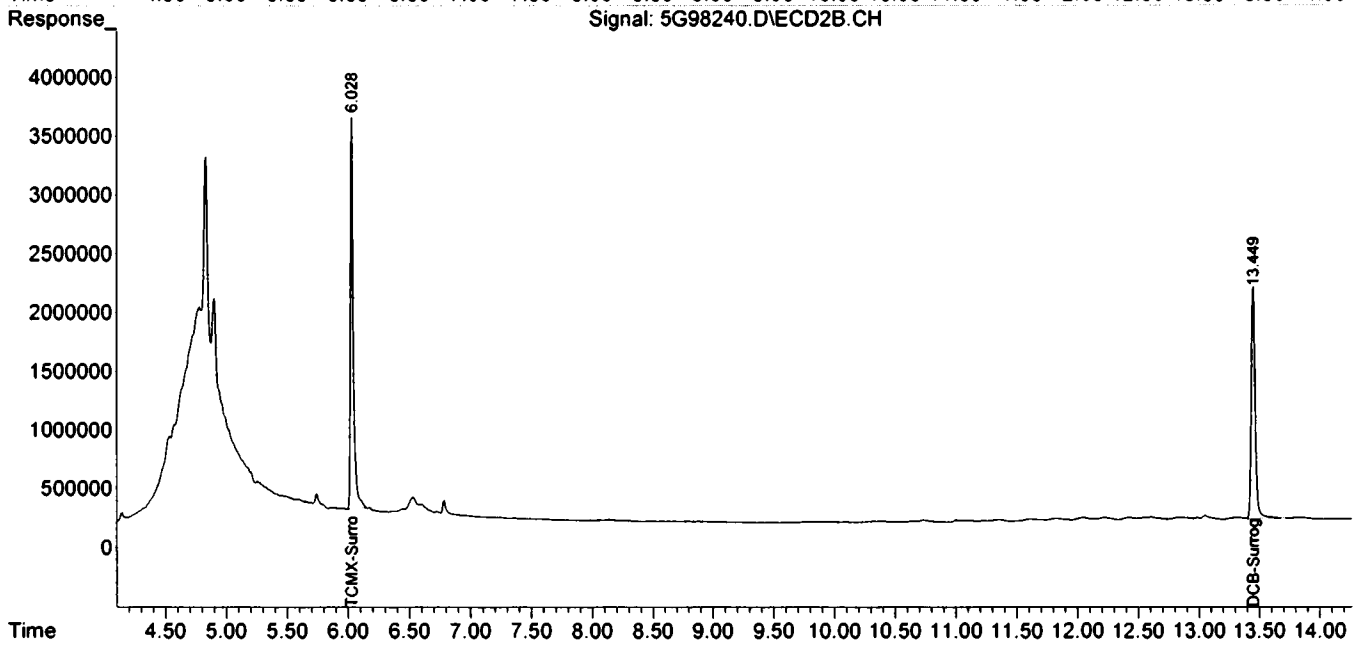
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98240.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 04:28:22
Operator : MS/MLC/MC
Sample : AD26083-018
Misc : A,PEST
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:03:44 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-019
Client Id: LTMW-15-20210914 U
Data File: 6G119474.D
Analysis Date: 09/29/21 09:43
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 945ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.011 | U | 53494-70-5 | Endrin Ketone | 0.011 | U |
| 309-00-2 | Aldrin | 0.011 | U | 58-89-9 | gamma-BHC | 0.011 | U |
| 319-84-6 | alpha-BHC | 0.011 | U | 76-44-8 | Heptachlor | 0.011 | U |
| 319-85-7 | beta-BHC | 0.011 | U | 1024-57-3 | Heptachlor Epoxide | 0.011 | U |
| 319-86-8 | delta-BHC | 0.011 | U | 72-43-5 | Methoxychlor | 0.015 | U |
| 60-57-1 | Dieldrin | 0.011 | U | 72-54-8 | p,p'-DDD | 0.011 | U |
| 959-98-8 | Endosulfan I | 0.011 | U | 72-55-9 | p,p'-DDE | 0.011 | U |
| 33213-65-9 | Endosulfan II | 0.011 | U | 50-29-3 | p,p'-DDT | 0.011 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.011 | U | 8001-35-2 | Toxaphene | 0.26 | U |
| 72-20-8 | Endrin | 0.011 | U | 5103-74-2 | y-chlordane | 0.011 | U |
| 7421-93-4 | Endrin Aldehyde | 0.011 | U | 57-74-9 | Chlordane (Total) | 0.011 | U |

Worksheet #: 611603 *Total Target Concentration* 0 ColumnID: (2) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119474.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 9:43
Operator : MS/MLC/MC/PR
Sample : AD26083-019
Misc : A,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 12:59:22 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

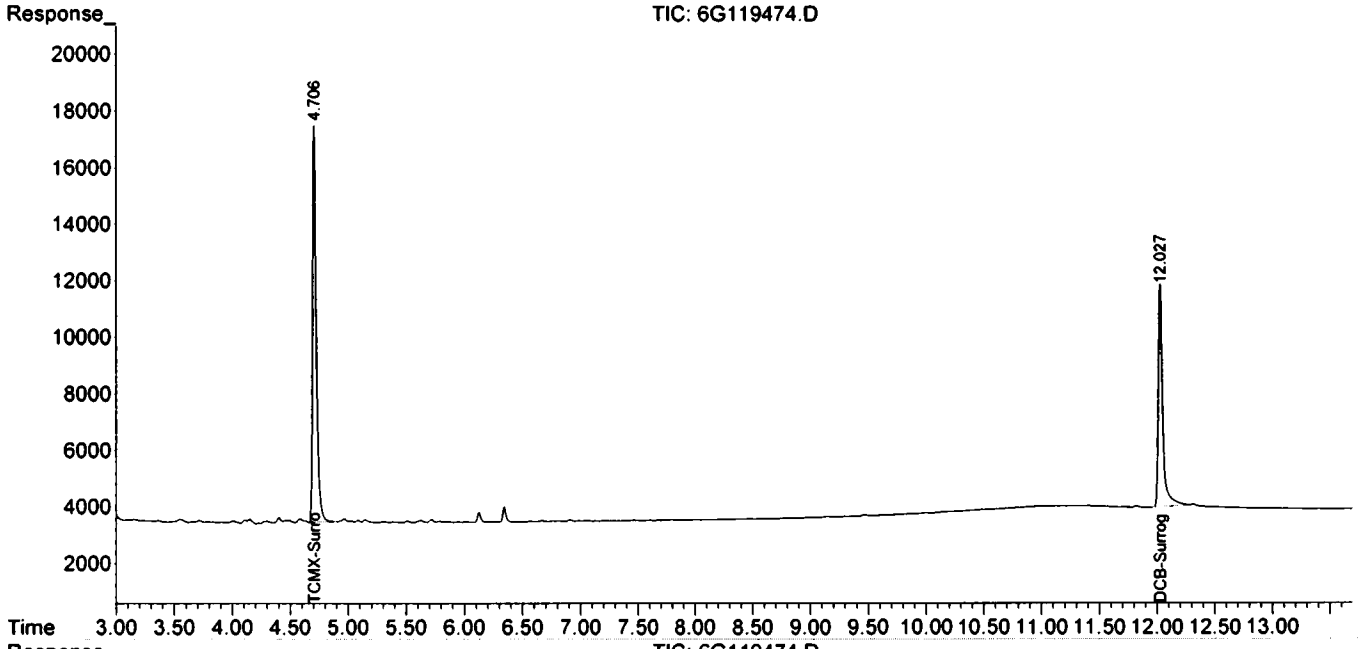
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | | |
| 1) | TCMX-Surrogate | 4.707 | 4.714 | 309585 | 1037625 | 123.180 | 71.313 | # |
| 22) | DCB-Surrogate | 12.027 | 12.564 | 208917 | 712563 | 92.718 | 79.200 | |

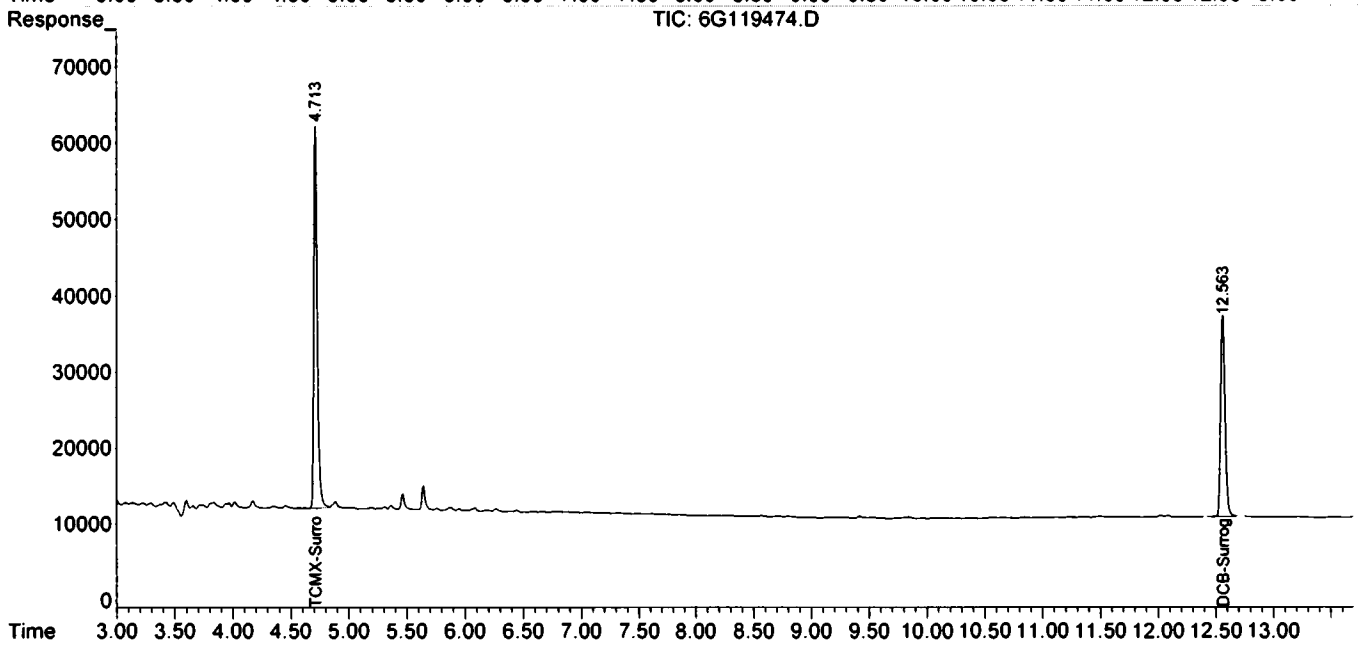
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119474.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 9:43
Operator : MS/MLC/MC/PR
Sample : AD26083-019
Misc : A,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 12:59:22 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-021
Client Id: LTMW-5B-20210914 U
Data File: 5G98241.D
Analysis Date: 09/20/21 04:46
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98241.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 04:46:33
Operator : MS/MLC/MC
Sample : AD26083-021
Misc : A,PEST
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:04:33 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

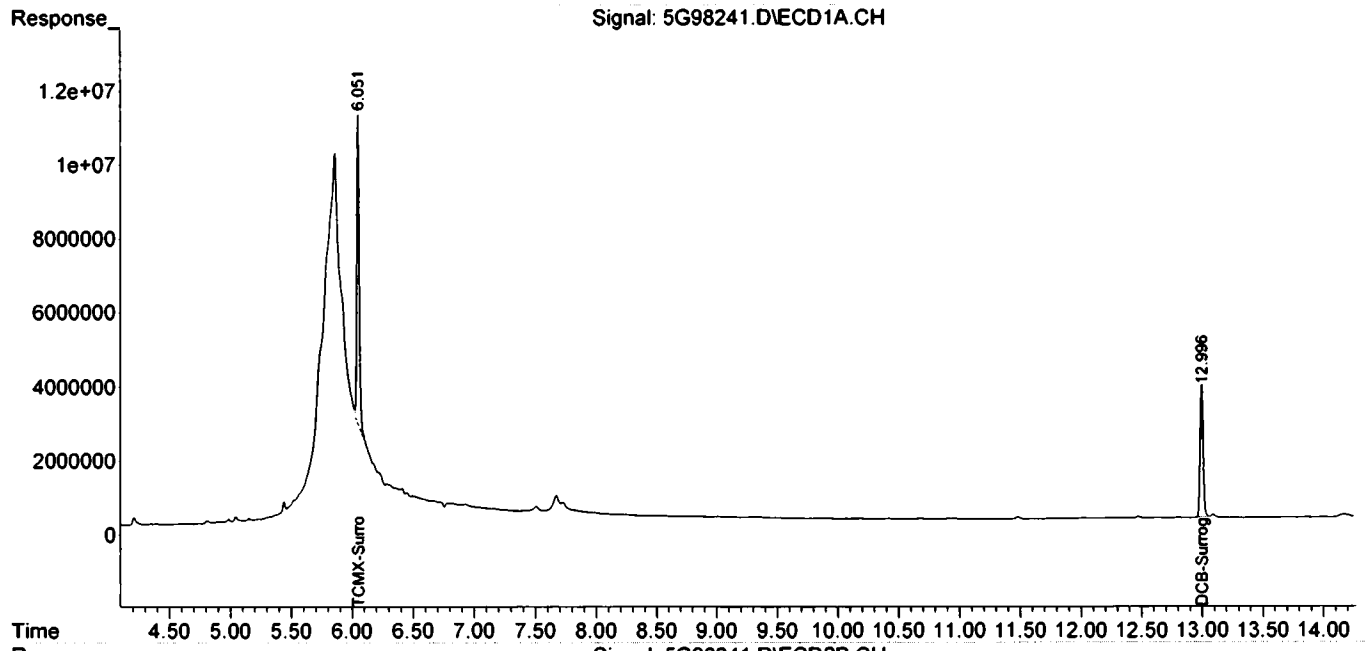
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.051 | 6.029 | 113.3E6 | 48296285 | 59.063m | 54.200 |
| 22) | DCB-Surrogate | 12.997 | 13.446 | 62437203 | 31604301 | 55.927 | 59.893 |

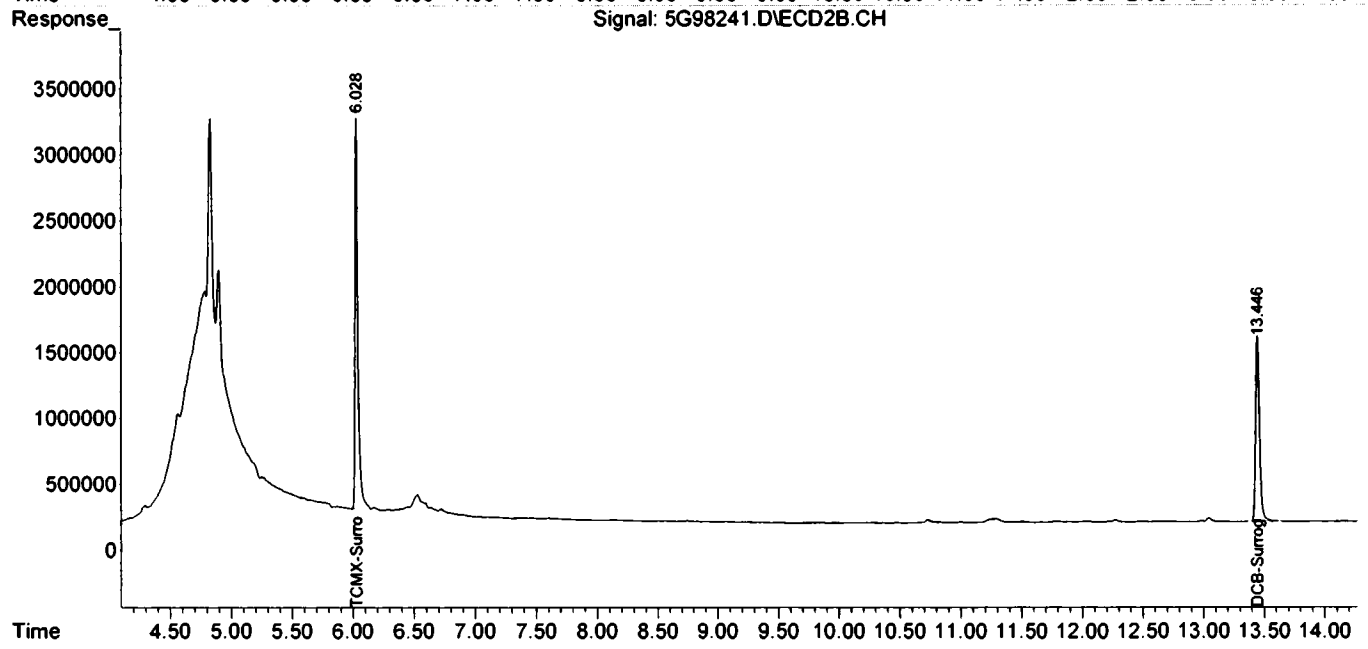
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98241.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 04:46:33
Operator : MS/MLC/MC
Sample : AD26083-021
Misc : A,PEST
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:04:33 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-023
Client Id: DUP-02-20210914 U
Data File: 5G98242.D
Analysis Date: 09/20/21 05:04
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 610738

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98242.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 05:04:44
Operator : MS/MLC/MC
Sample : AD26083-023
Misc : A,PEST
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:05:02 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

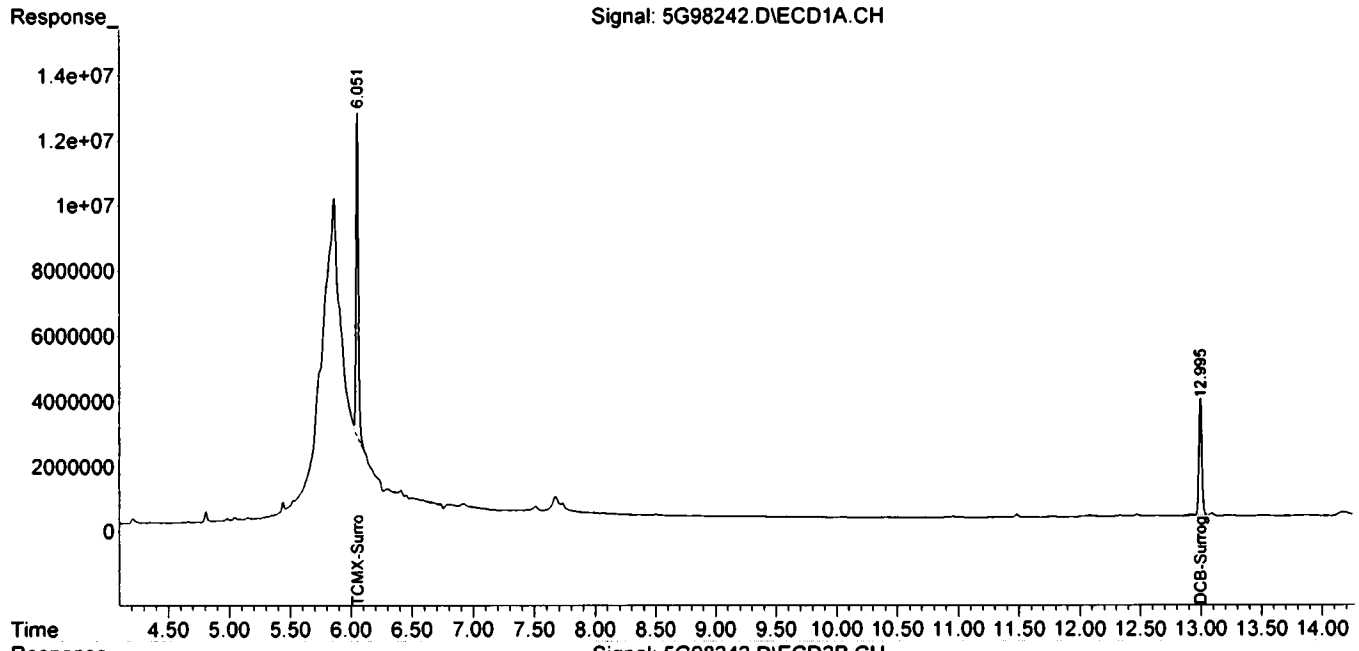
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.051 | 6.028 | 133.8E6 | 56535945 | 69.722m | 63.446 |
| 22) | DCB-Surrogate | 12.996 | 13.447 | 63106755 | 30560759 | 56.526 | 57.916 |

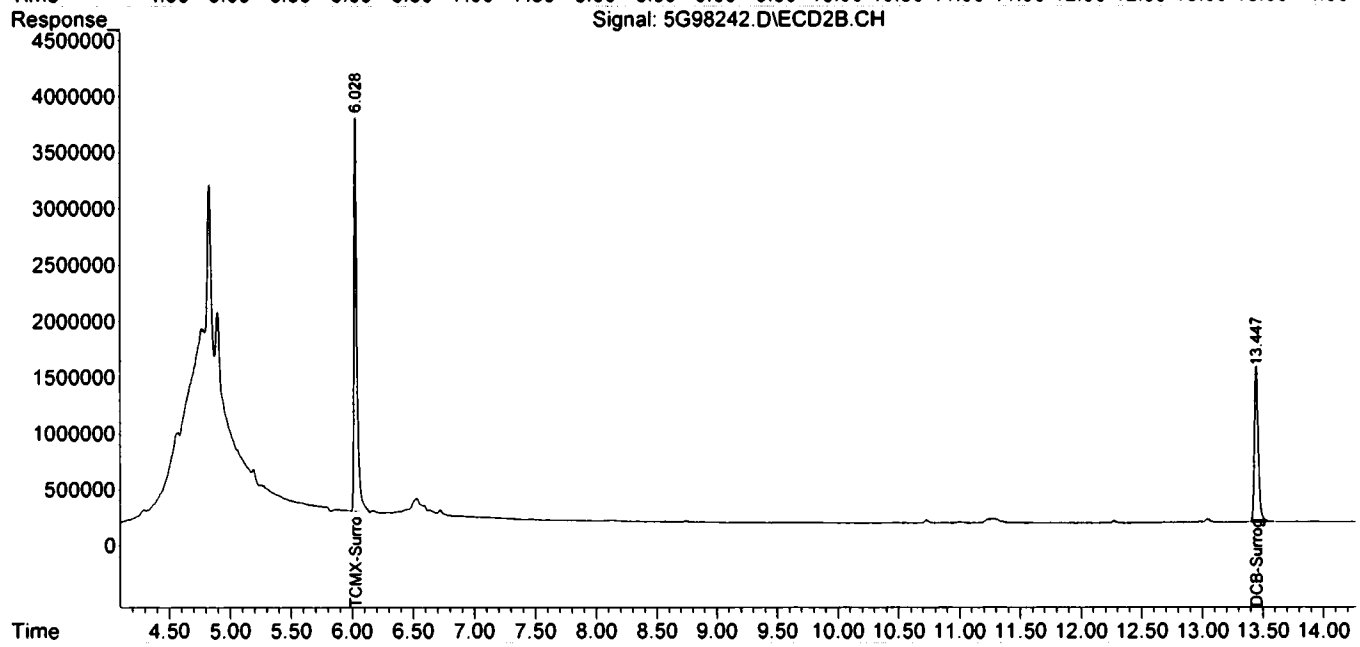
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98242.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 05:04:44
Operator : MS/MLC/MC
Sample : AD26083-023
Misc : A,PEST
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:05:02 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-026
Client Id: LTMW-5A-20210915
Data File: 5G98243.D
Analysis Date: 09/20/21 05:22
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet = 611603 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98243.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 05:22:54
Operator : MS/MLC/MC
Sample : AD26083-026
Misc : A,PEST
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:05:52 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

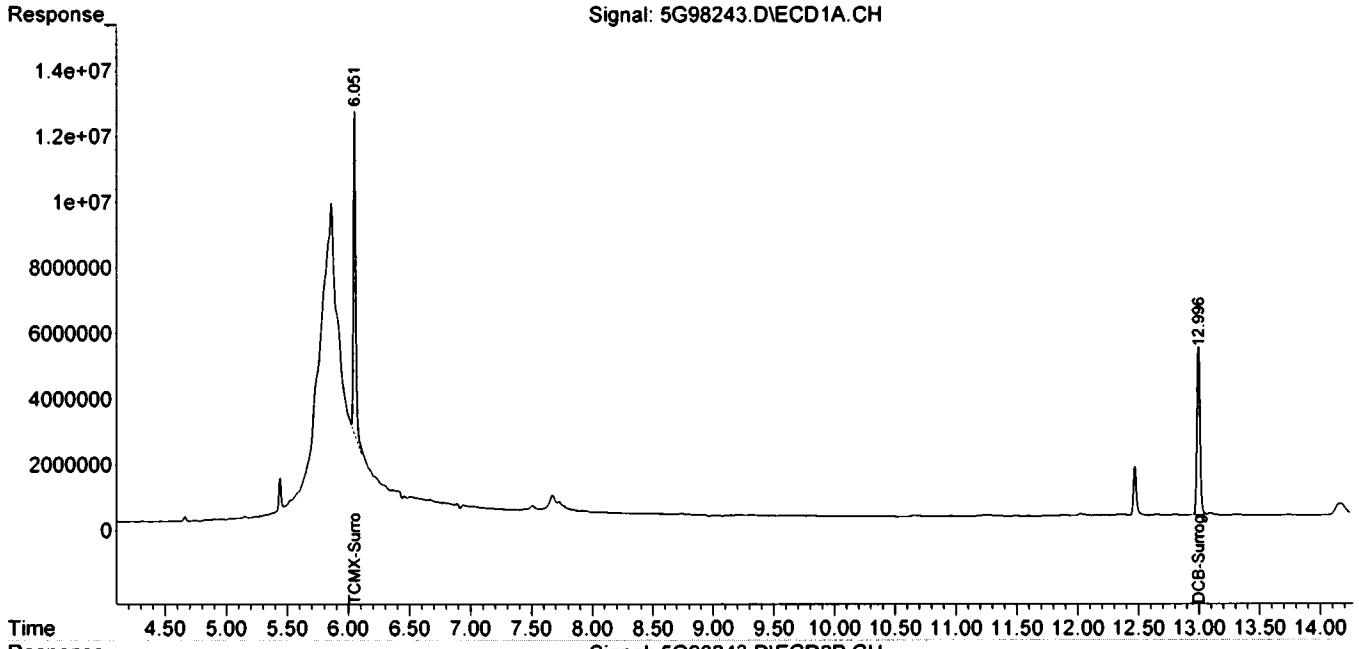
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.051 | 6.029 | 131.8E6 | 58245976 | 68.698m | 65.366 |
| 22)DCB-Surrogate | 12.996 | 13.448 | 89541100 | 44625329 | 80.204 | 84.570 |

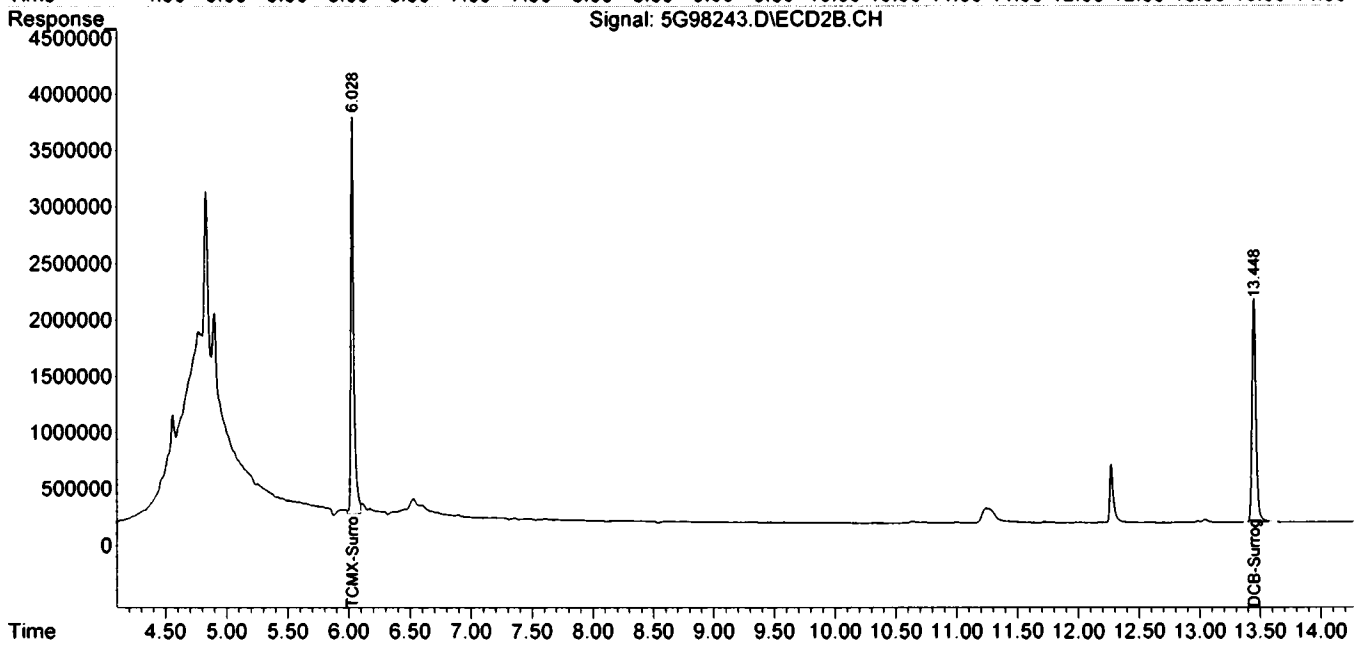
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98243.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 05:22:54
Operator : MS/MLC/MC
Sample : AD26083-026
Misc : A,PEST
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:05:52 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-027
Client Id: LTMW-17-20210915
Data File: 5G98253.D
Analysis Date: 09/20/21 12:03
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98253.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 12:03:04
Operator : MS/MLC/MC
Sample : AD26083-027
Misc : A,PEST
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:10:29 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

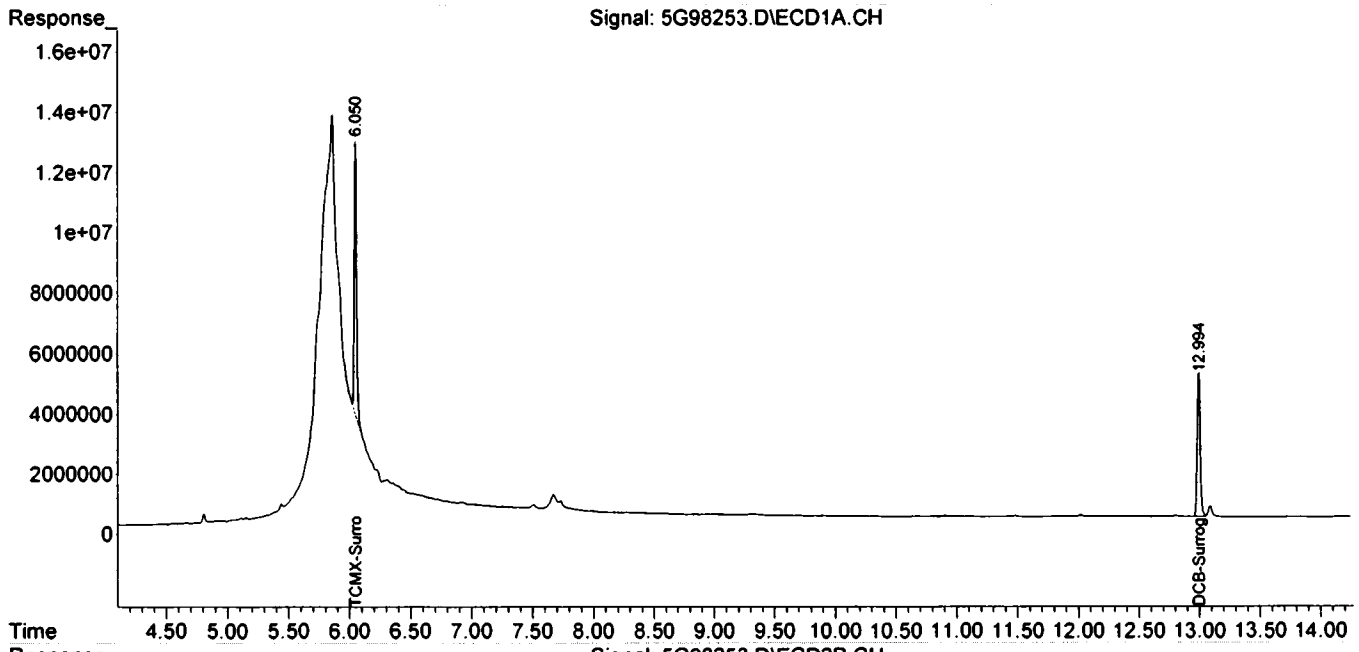
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.050 | 6.028 | 118.1E6 | 53856145 | 61.535m | 60.439 |
| 22) | DCB-Surrogate | 12.994 | 13.446 | 81208468 | 40963771 | 72.741 | 77.631 |

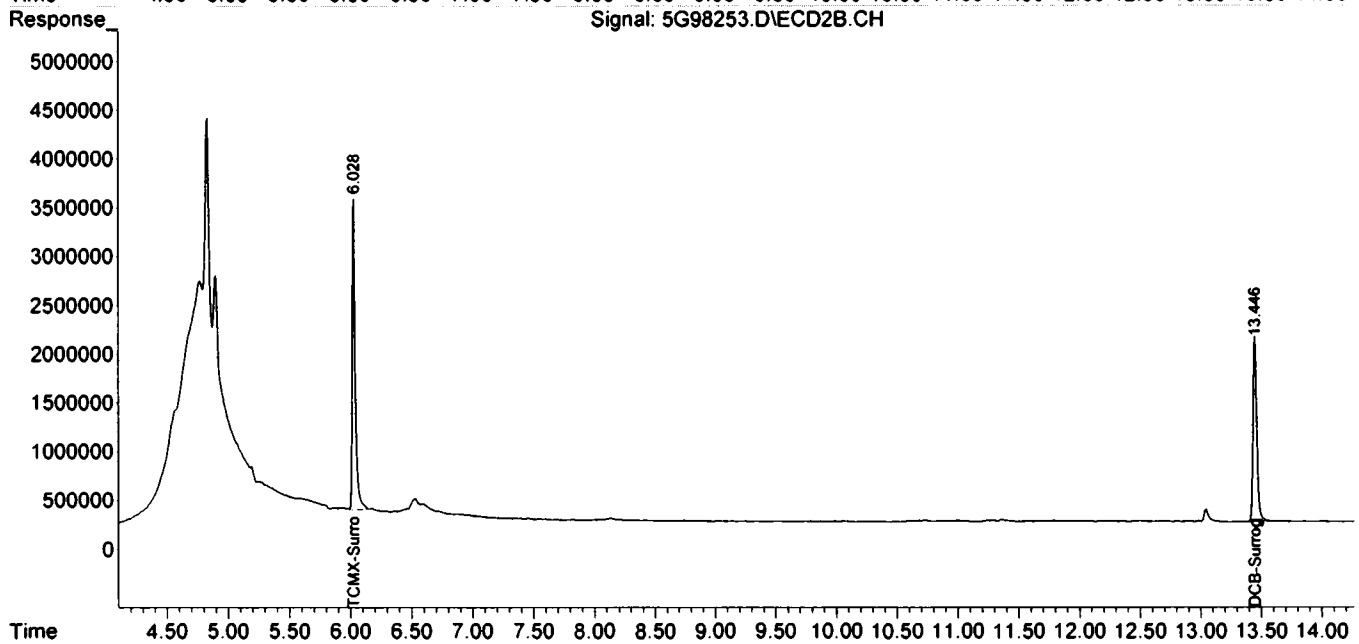
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98253.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 12:03:04
Operator : MS/MLC/MC
Sample : AD26083-027
Misc : A,PEST
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:10:29 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-028
Client Id: LTMW-4-20210915 U
Data File: 5G98254.D
Analysis Date: 09/20/21 12:21
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98254.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 12:21:23
Operator : MS/MLC/MC
Sample : AD26083-028
Misc : A,PEST
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:11:15 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

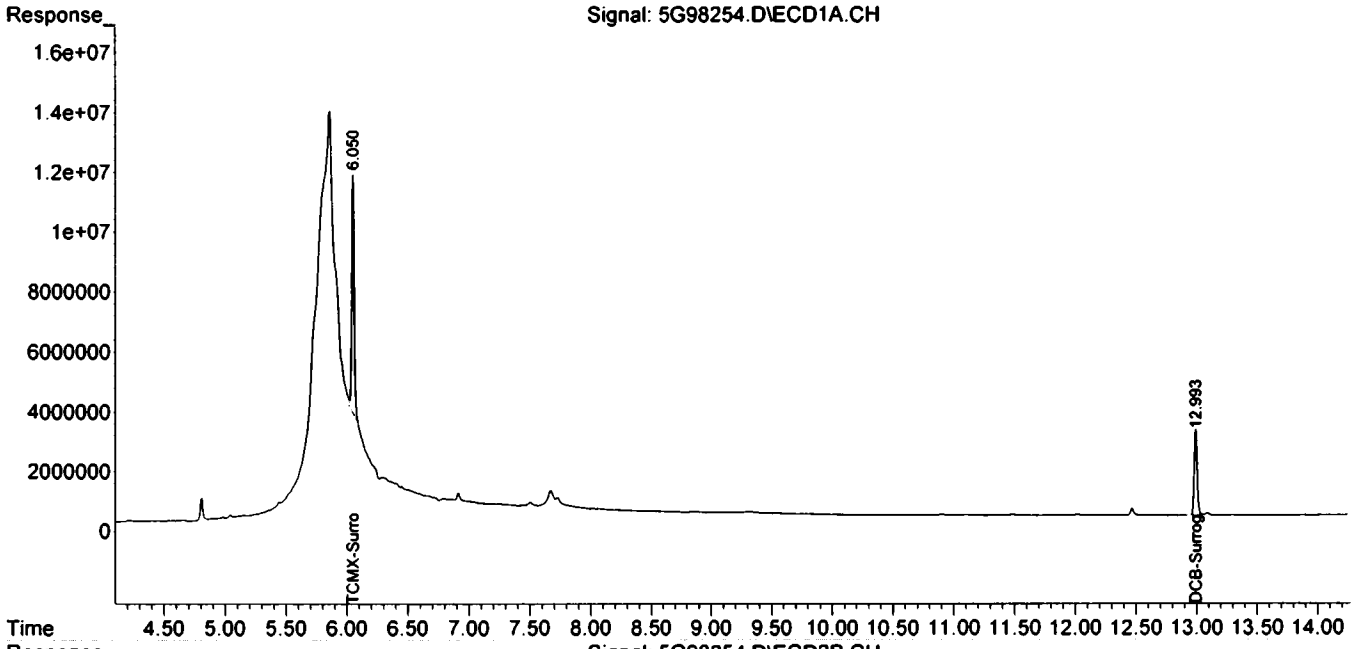
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.050 | 6.027 | 107.7E6 | 47621202 | 56.144m | 53.442m |
| 22) | DCB-Surrogate | 12.994 | 13.447 | 48078846 | 24506436 | 43.065 | 46.442 |

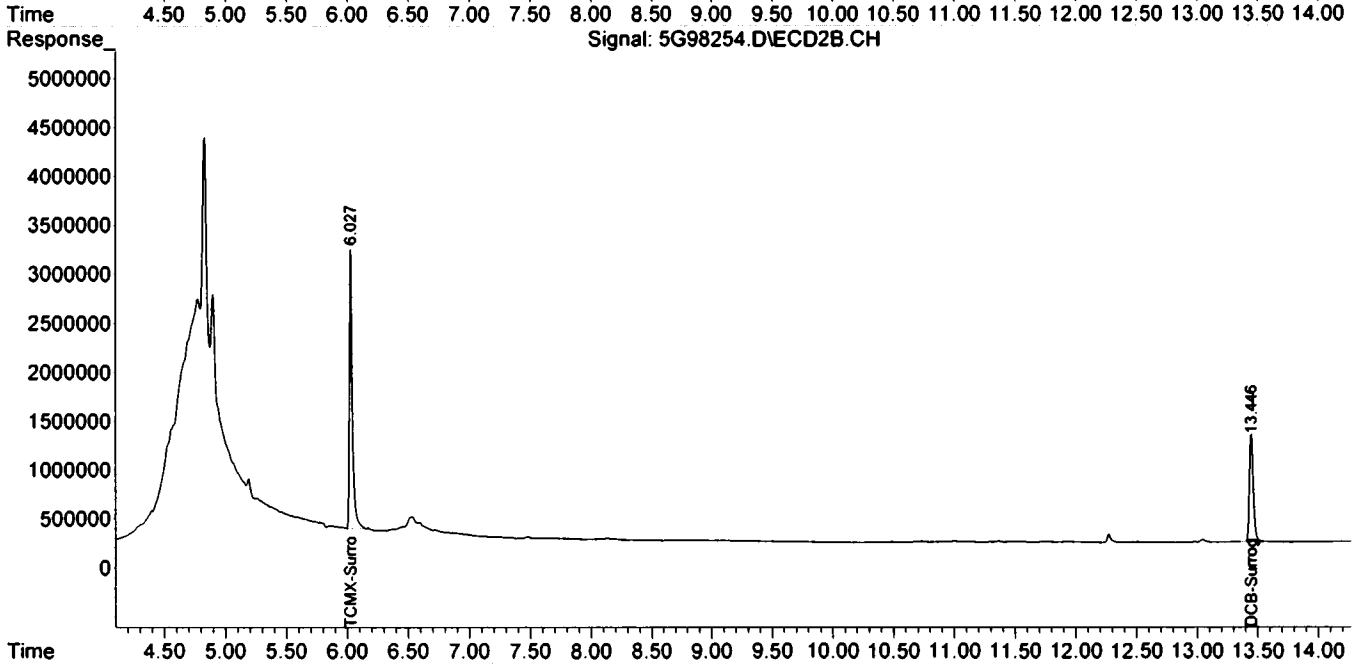
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98254.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 12:21:23
Operator : MS/MLC/MC
Sample : AD26083-028
Misc : A,PEST
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 13:11:15 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-030
Client Id: LTMW-16-20210915 U
Data File: 6G119475.D
Analysis Date: 09/29/21 10:00
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 985ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.015 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119475.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 10:00
Operator : MS/MLC/MC/PR
Sample : AD26083-030
Misc : A,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 12:59:41 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

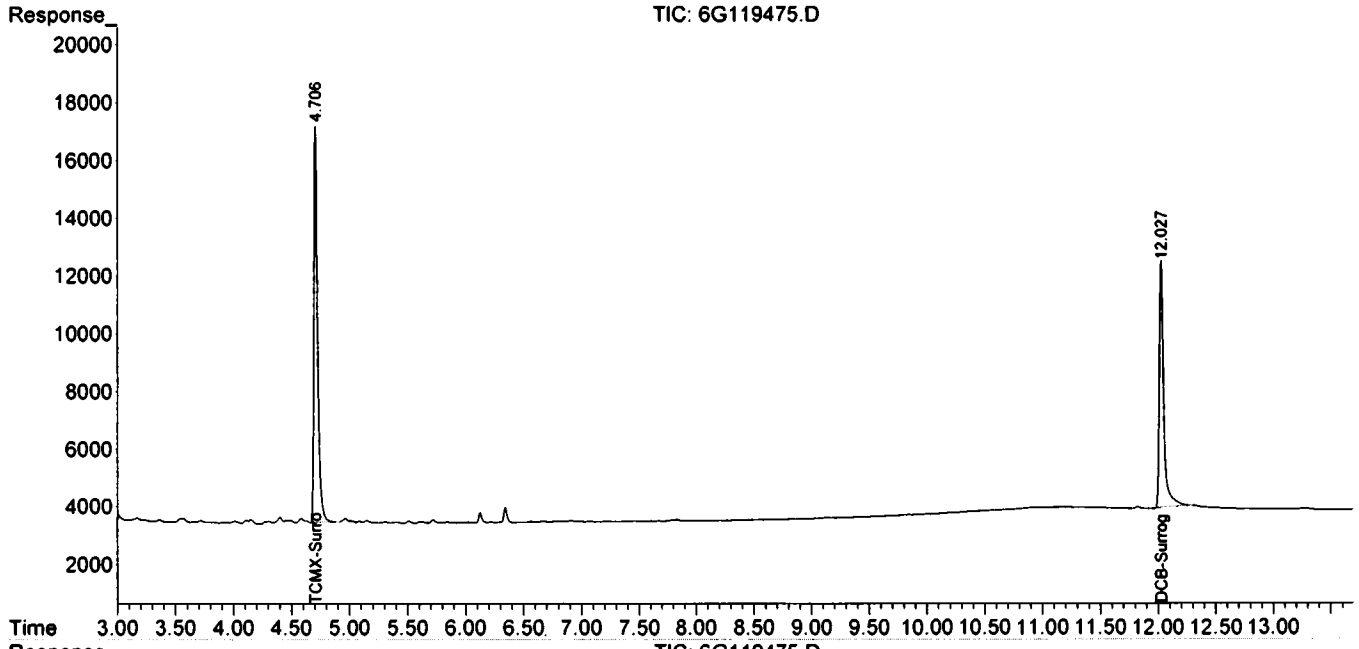
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | | |
| 1) | TCMX-Surrogate | 4.707 | 4.714 | 302991 | 1002391 | 120.312 | 68.892 | # |
| 22) | DCB-Surrogate | 12.028 | 12.564 | 227822 | 776175 | 101.943 | 86.719 | |

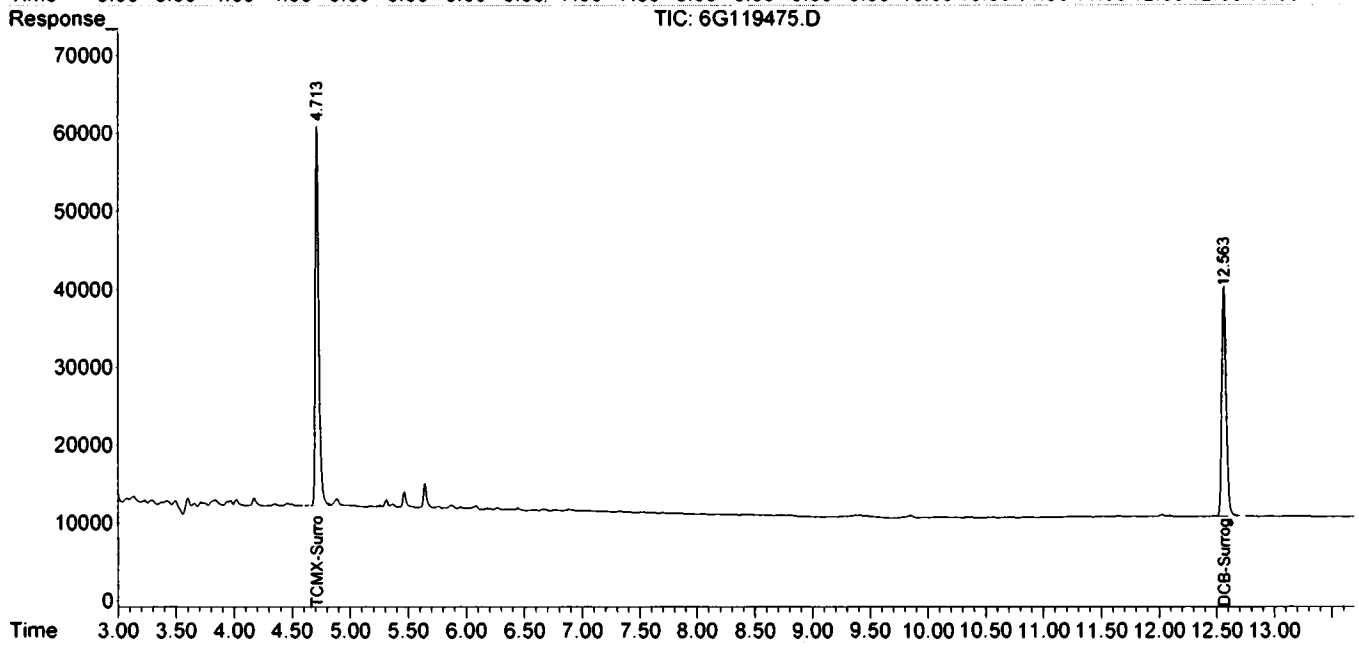
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119475.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 10:00
Operator : MS/MLC/MC/PR
Sample : AD26083-030
Misc : A,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 12:59:41 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-032
Client Id: LTMW-3-20210915
Data File: 5G98406.D
Analysis Date: 09/29/21 15:51
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-29-21\
Data File : 5G98406.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29-Sep-21, 15:51:11
Operator : MS/MLC/MC/PR
Sample : AD26083-032
Misc : A,PEST
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 16:17:53 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

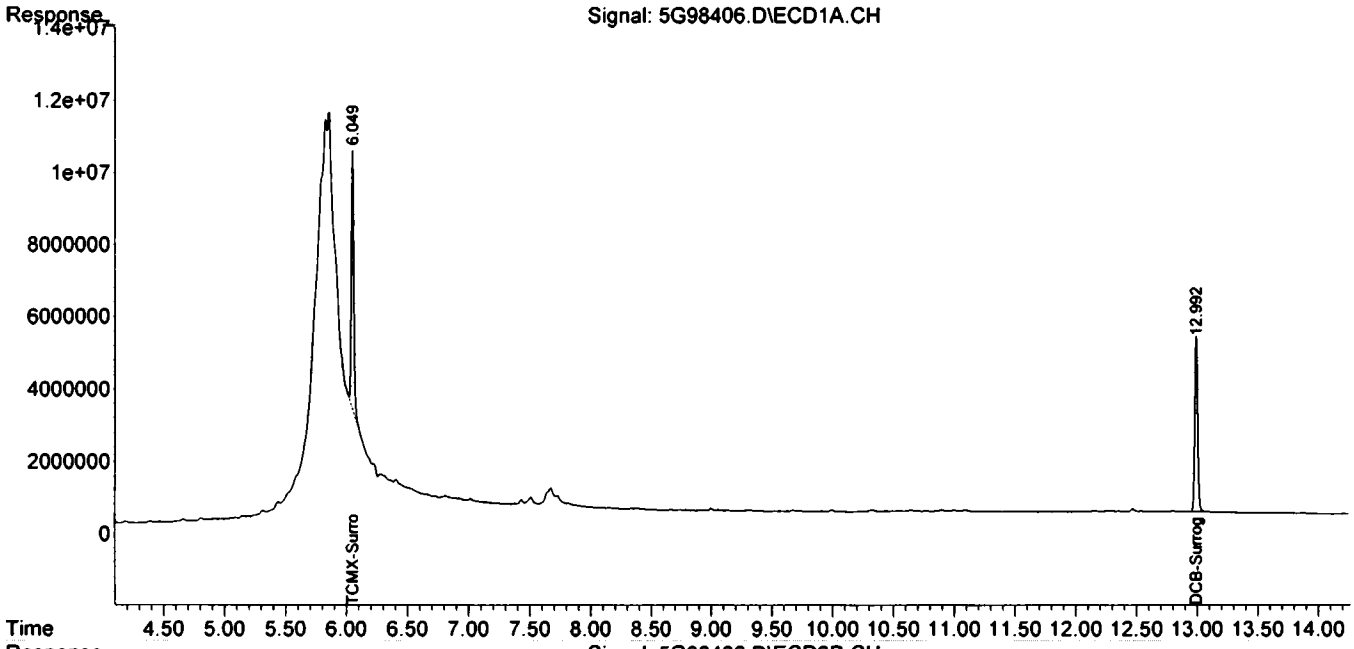
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.049 | 6.026 | 99408698 | 43500374 | 51.811m | 48.818m |
| 22)DCB-Surrogate | 12.993 | 13.447 | 79626057 | 38410501 | 71.323 | 72.792 |

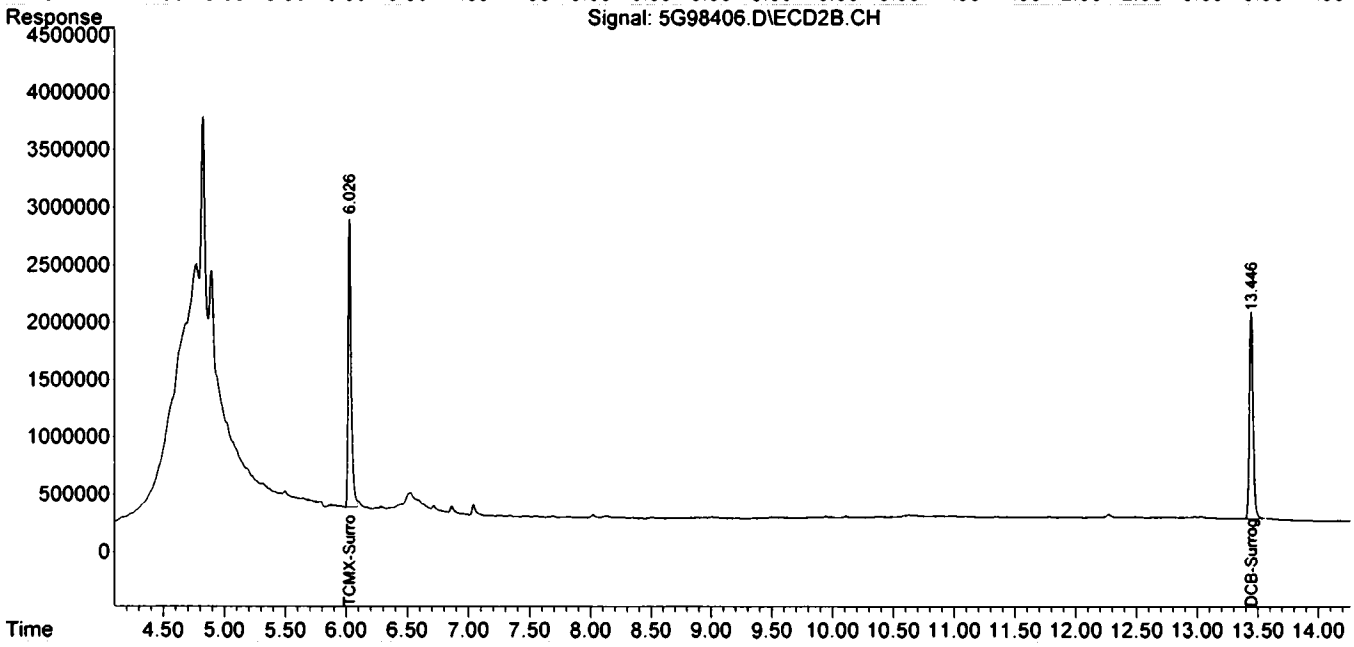
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-29-21\
Data File : 5G98406.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29-Sep-21, 15:51:11
Operator : MS/MLC/MC/PR
Sample : AD26083-032
Misc : A,PEST
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 16:17:53 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-033
Client Id: FB-20210915
Data File: 6G119490.D
Analysis Date: 09/29/21 15:43
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 610738

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119490.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 15:43
Operator : MS/MLC/MC/PR
Sample : AD26083-033
Misc : A,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 16:01:51 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

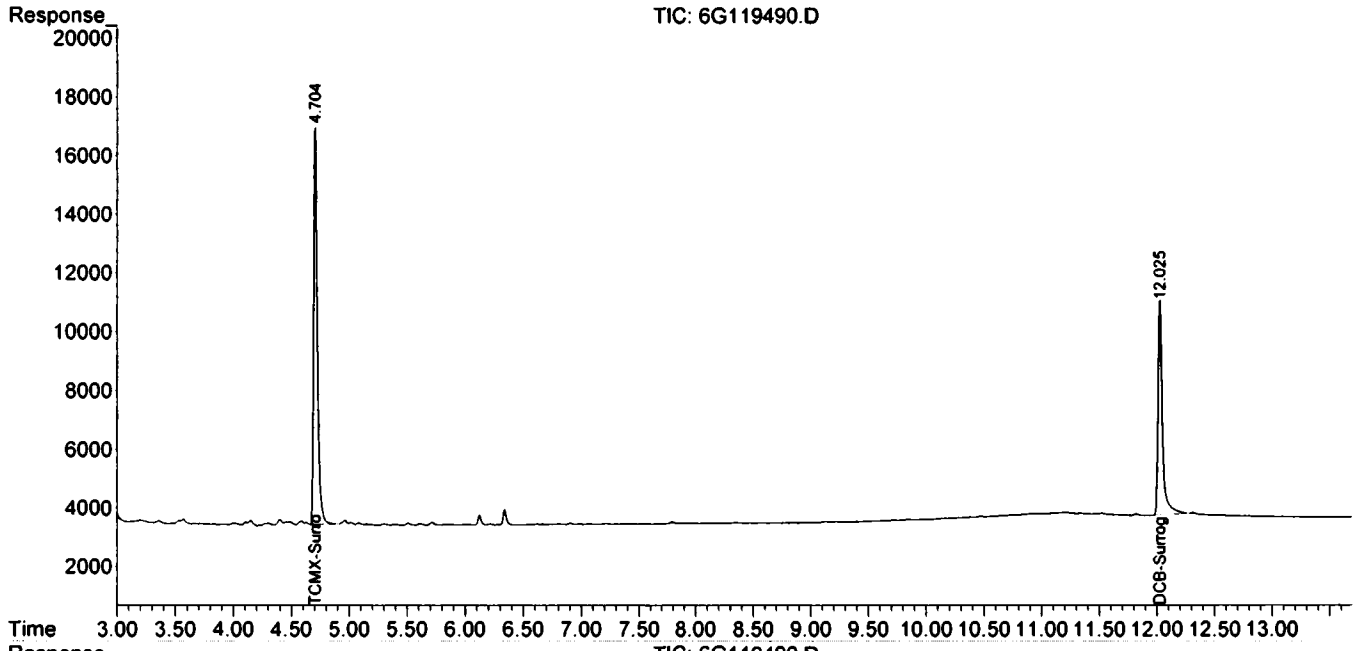
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | | |
| 1) | TCMX-Surrogate | 4.705 | 4.713 | 298688 | 980274 | 118.448 | 67.372 | # |
| 22) | DCB-Surrogate | 12.026 | 12.564 | 194314 | 665198 | 85.704 | 73.654 | |

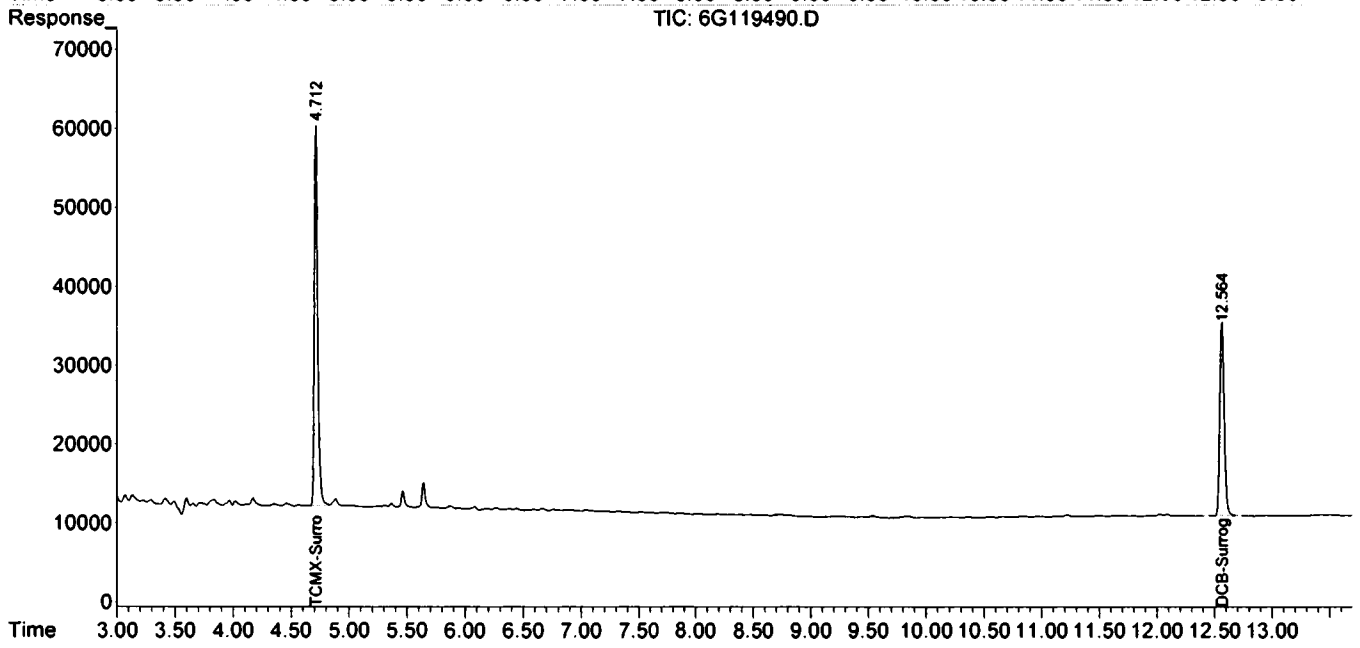
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119490.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 15:43
Operator : MS/MLC/MC/PR
Sample : AD26083-033
Misc : A,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 16:01:51 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-035
Client Id: LTMW-18C-20210916
Data File: 6G119491.D
Analysis Date: 09/29/21 16:00
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 990ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119491.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 16:00
Operator : MS/MLC/MC/PR
Sample : AD26083-035
Misc : A,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 18:06:39 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

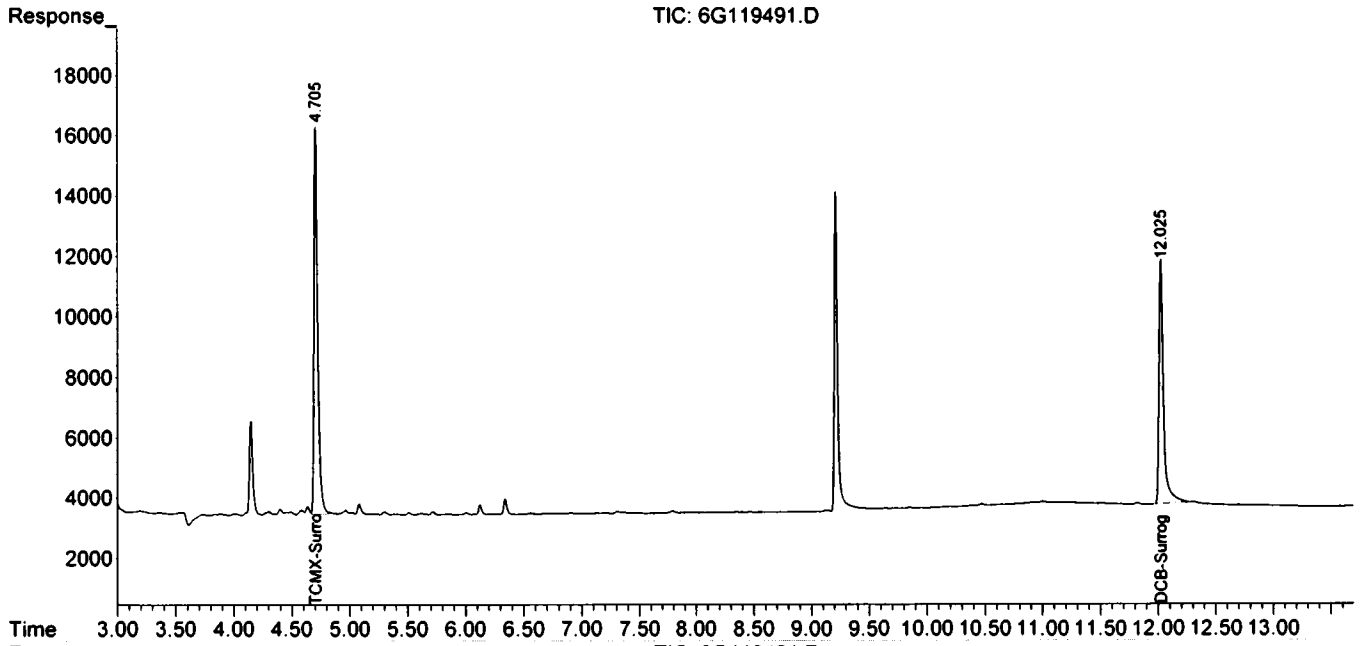
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | | |
| 1) | TCMX-Surrogate | 4.705 | 4.713 | 280707 | 920159 | 110.714m | 63.240 | # |
| 22) | DCB-Surrogate | 12.027 | 12.564 | 216874 | 738191 | 96.580 | 82.220 | |

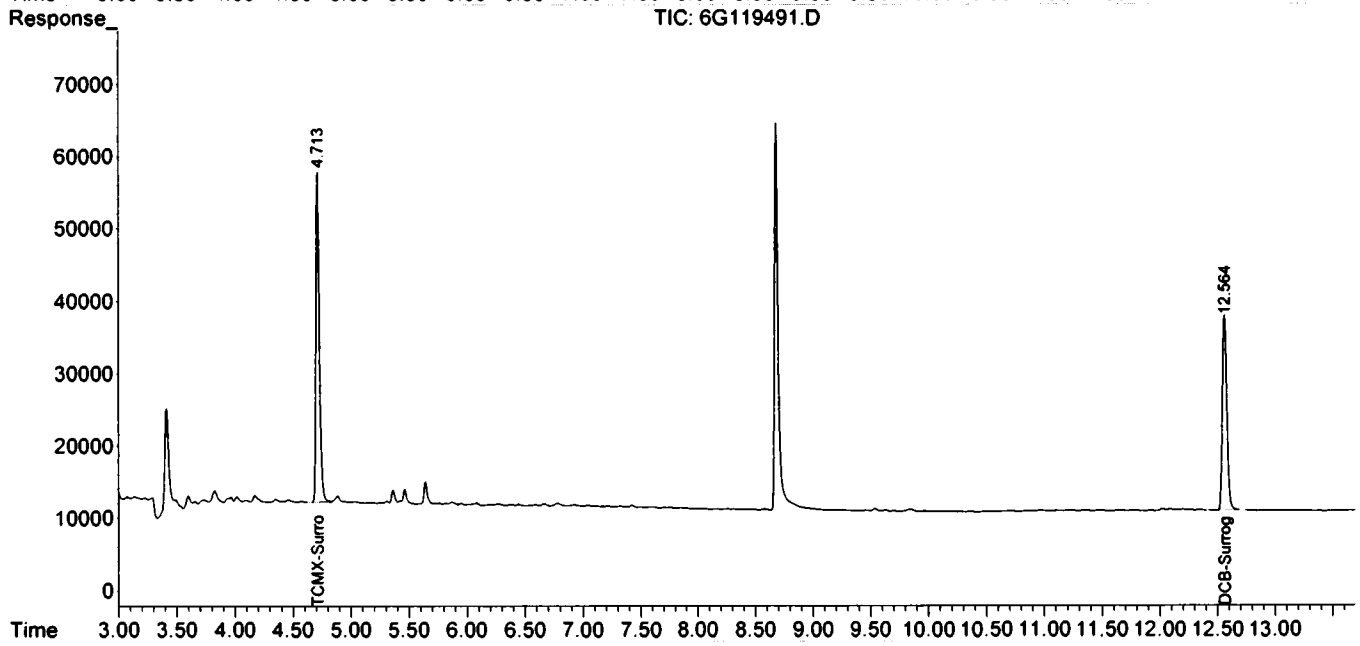
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119491.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 16:00
Operator : MS/MLC/MC/PR
Sample : AD26083-035
Misc : A,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 18:06:39 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-036
Client Id: LTMW-2-20210916 U
Data File: 6G119492.D
Analysis Date: 09/29/21 16:18
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119492.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 16:18
Operator : MS/MLC/MC/PR
Sample : AD26083-036
Misc : A,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 18:07:14 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

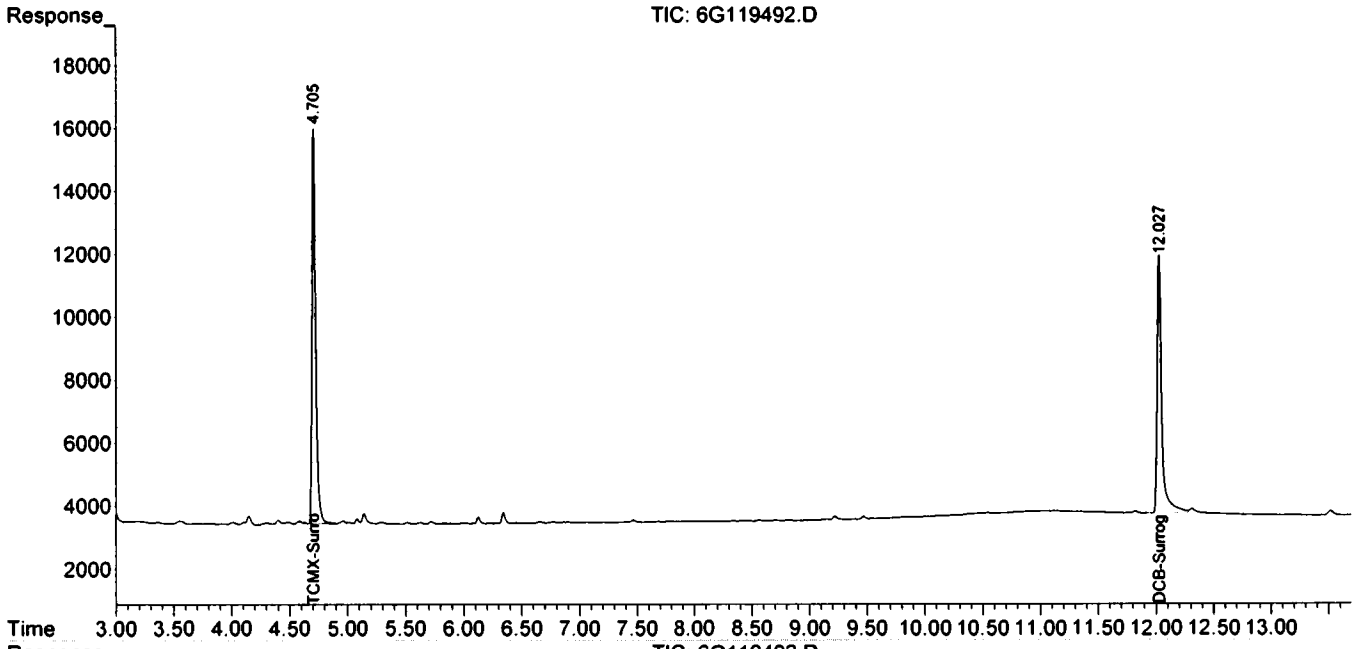
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | | |
| 1) | TCMX-Surrogate | 4.706 | 4.714 | 273372 | 920749 | 107.585 | 63.281 | # |
| 22) | DCB-Surrogate | 12.027 | 12.565 | 225028 | 747585 | 100.569 | 83.330 | |

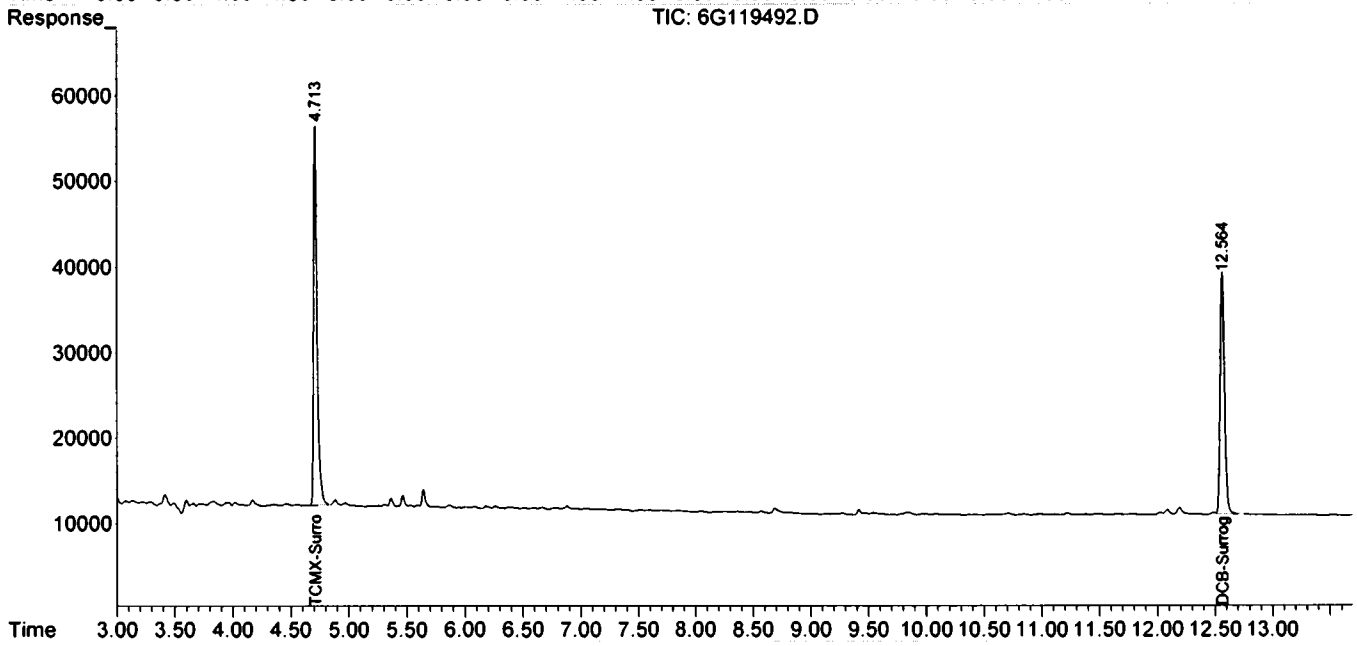
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119492.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 16:18
Operator : MS/MLC/MC/PR
Sample : AD26083-036
Misc : A,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 18:07:14 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-038
Client Id: LTMW-18UG-20210916 U
Data File: 6G119493.D
Analysis Date: 09/29/21 16:36
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.015 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.26 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

***Total Target Concentration*** 0

ColumnID: (*) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119493.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 16:36
Operator : MS/MLC/MC/PR
Sample : AD26083-038
Misc : A,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 18:08:08 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

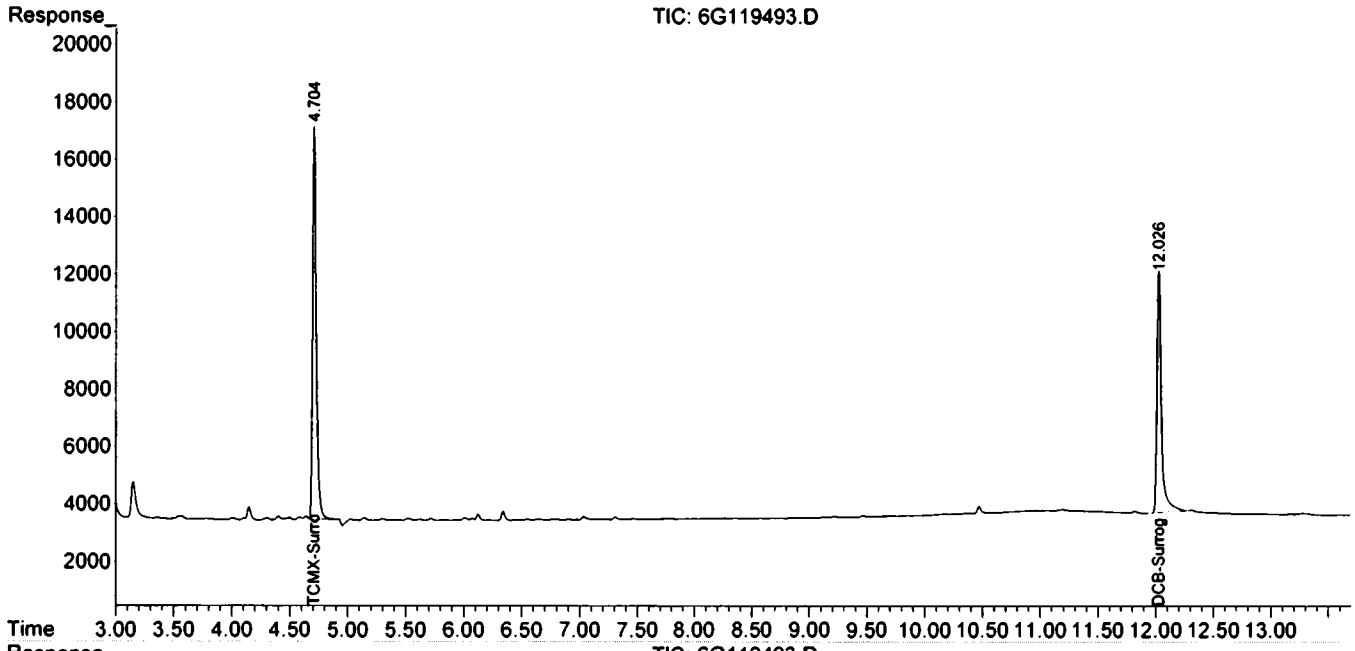
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 4.705 | 4.713 | 300180 | 1004508 | 119.093 | 69.037m# |
| 22) | DCB-Surrogate | 12.026 | 12.563 | 225645 | 773514 | 100.872 | 86.403m |

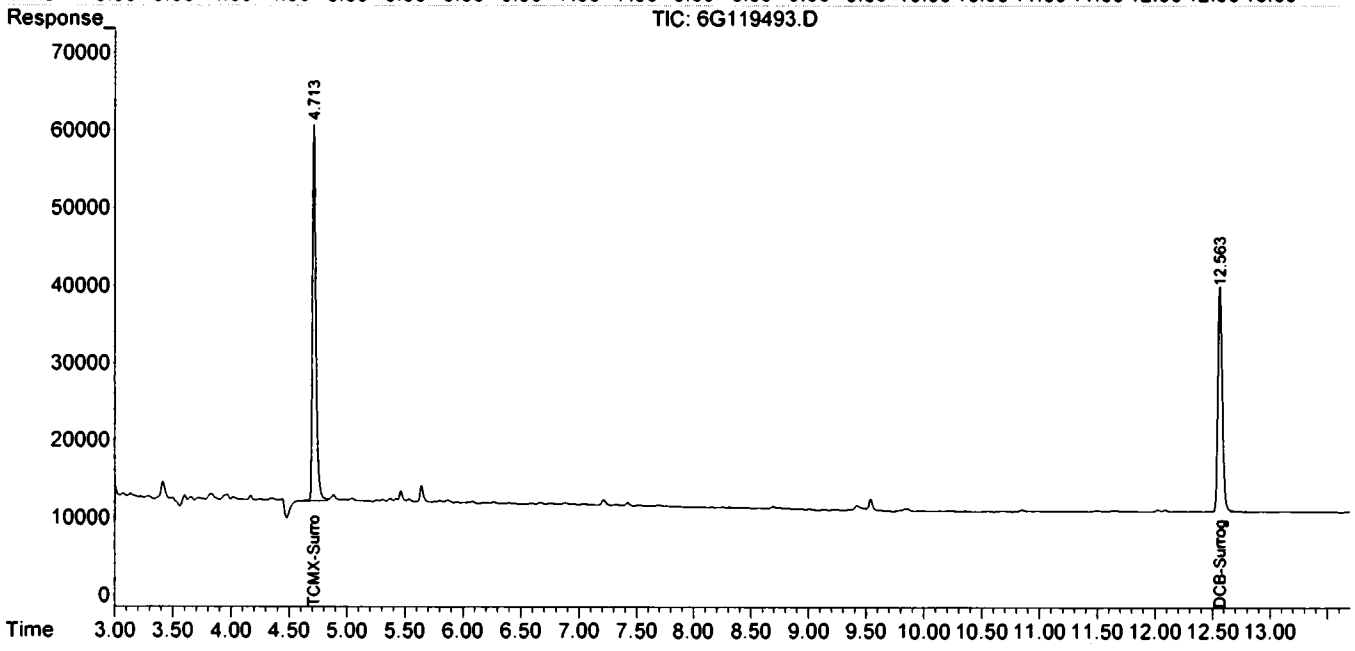
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119493.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 16:36
Operator : MS/MLC/MC/PR
Sample : AD26083-038
Misc : A,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 18:08:08 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-040(R)
Client Id: LTMW-1-20210916 U
Data File: 6G119494.D
Analysis Date: 09/29/21 16:53
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119494.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 16:53
Operator : MS/MLC/MC/PR
Sample : AD26083-040(R)
Misc : A,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 19:08:57 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

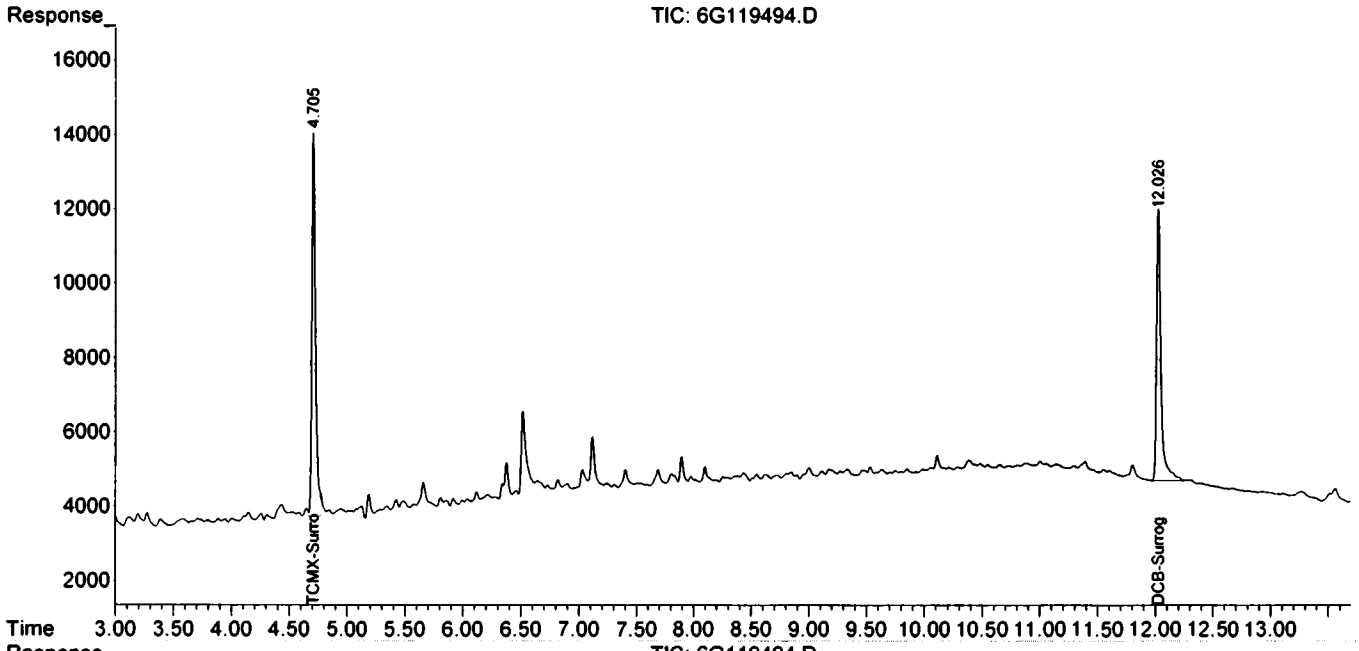
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 4.705 | 4.713 | 223302 | 661574 | 86.610m | 45.468m# |
| 22) | DCB-Surrogate | 12.027 | 12.563 | 194583 | 674328 | 85.832 | 74.720m |

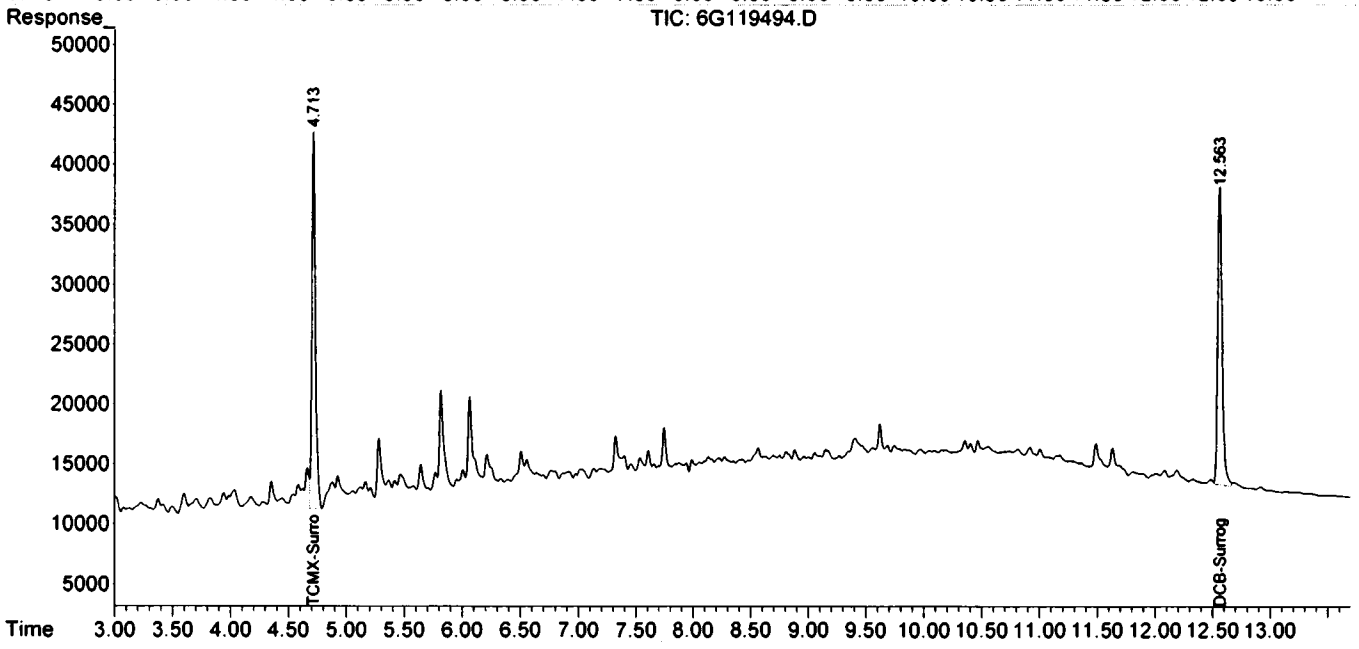
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119494.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 16:53
Operator : MS/MLC/MC/PR
Sample : AD26083-040(R)
Misc : A,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 19:08:57 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-042(MS:AD26
Client Id: LTMW-1-20210916MS U
Data File: 5G98226.D
Analysis Date: 09/20/21 00:13
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | (^)a-chlordane | 0.010 | 0.29 | 53494-70-5 | Endrin Ketone | 0.010 | 0.31 |
| 309-00-2 | Aldrin | 0.010 | 0.36 | 58-89-9 | gamma-BHC | 0.010 | 0.38 |
| 319-84-6 | alpha-BHC | 0.010 | 0.25 | 76-44-8 | Heptachlor | 0.010 | 0.33 |
| 319-85-7 | beta-BHC | 0.010 | 0.25 | 1024-57-3 | Heptachlor Epoxide | 0.010 | 0.31 |
| 319-86-8 | (^)delta-BHC | 0.010 | 0.28 | 72-43-5 | Methoxychlor | 0.014 | 0.34 |
| 60-57-1 | Dieldrin | 0.010 | 0.34 | 72-54-8 | p,p'-DDD | 0.010 | 0.37 |
| 959-98-8 | Endosulfan I | 0.010 | 0.34 | 72-55-9 | (^)p,p'-DDE | 0.010 | 0.31 |
| 33213-65-9 | Endosulfan II | 0.010 | 0.33 | 50-29-3 | (^)p,p'-DDT | 0.010 | 0.34 |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | 0.34 | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | 0.35 | 5103-74-2 | y-chlordane | 0.010 | 0.29 |
| 7421-93-4 | Endrin Aldehyde | 0.010 | 0.25 | 57-74-9 | Chlordane (Total) | 0.010 | 0.58 |

Worksheet # 611603 *Total Target Concentration* 5.1 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98226.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 00:13:33
Operator : MS/MLC/MC
Sample : AD26083-042(MS:AD26083-040)
Misc : A,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 19:32:21 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

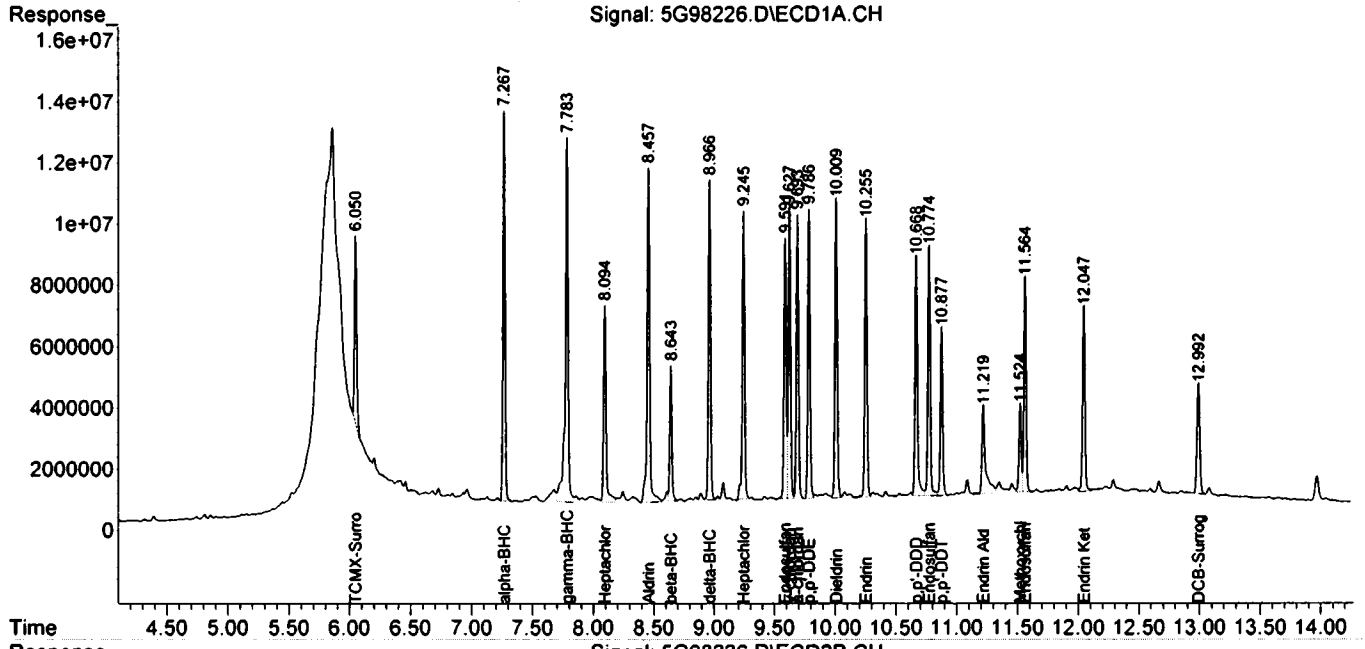
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 6.050 | 6.028 | 76705365 | 32748230 | 39.978m | 36.751 | |
| 2)alpha-BHC | 7.267 | 7.030 | 152.7E6 | 66502561 | 49.989 | 49.905 | |
| 3)gamma-BHC | 7.784 | 7.567 | 191.3E6 | 59737747 | 76.693 | 53.406 | # |
| 4)beta-BHC | 8.644 | 7.658 | 56319678 | 21863899 | 51.003 | 43.243 | |
| 5)Heptachlor | 8.095 | 7.996 | 92763811 | 45274819 | 66.041 | 54.047 | |
| 6)delta-BHC | 8.966 | 8.143 | 128.3E6 | 60814653 | 54.766 | 55.720 | |
| 7)Aldrin | 8.457 | 8.429 | 164.7E6 | 52897408 | 72.182 | 49.958 | # |
| 8)Heptachlor Epoxid | 9.245 | 9.130 | 123.7E6 | 51041144 | 62.864 | 56.938 | |
| 9)y-chlordane | 9.627 | 9.330 | 121.9E6 | 51952067 | 57.493 | 55.202 | |
| 10)a-chlordane | 9.693 | 9.526 | 116.5E6 | 47611784 | 56.918 | 58.302 | |
| 11)Endosulfan I | 9.591 | 9.571 | 110.2E6 | 49901589 | 67.260 | 53.992 | |
| 12)p,p'-DDE | 9.787 | 9.811 | 121.8E6 | 53772723 | 61.080 | 61.939 | |
| 13)Dieldrin | 10.010 | 9.942 | 128.7E6 | 53041595 | 67.236 | 61.679 | |
| 14)Endrin | 10.255 | 10.387 | 119.5E6 | 46664153 | 69.813 | 68.711 | |
| 15)p,p'-DDD | 10.668 | 10.474 | 111.3E6 | 42673016 | 73.773 | 66.389 | |
| 16)Endosulfan II | 10.774 | 10.596 | 111.7E6 | 49629179 | 65.932 | 63.918 | |
| 17)p,p'-DDT | 10.877 | 10.831 | 72245163 | 40920514 | 60.332 | 67.590 | |
| 18)Endrin Aldehyde | 11.220 | 10.979 | 59600700 | 28634077 | 50.615 | 48.387 | |
| 19)Endosulfan Sulfat | 11.565 | 11.120 | 92733135 | 43136462 | 68.270 | 64.937 | |
| 20)Methoxychlor | 11.524 | 11.827 | 37939598 | 16065905 | 68.278 | 61.452 | |
| 21)Endrin Ketone | 12.048 | 12.040 | 83381325 | 42107428 | 62.475 | 57.826 | |
| 22)DCB-Surrogate | 12.992 | 13.443 | 58327483 | 30722091 | 52.245 | 58.222 | |

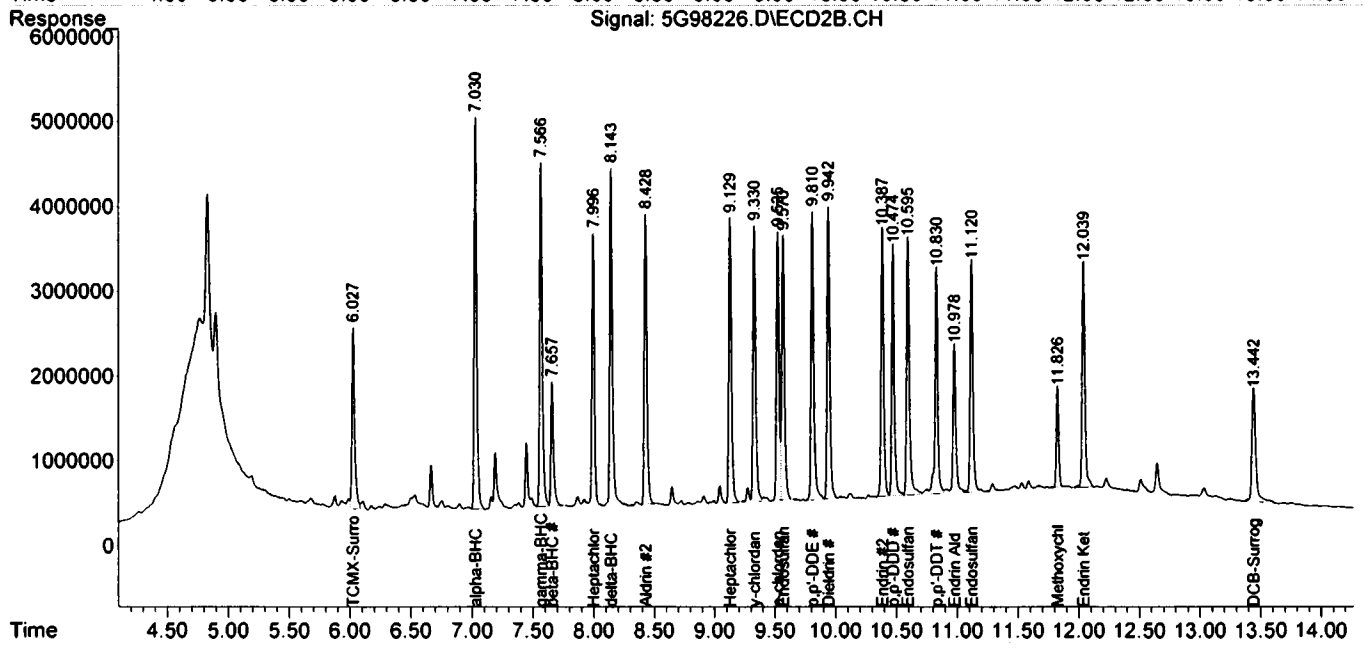
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98226.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 00:13:33
Operator : MS/MLC/MC
Sample : AD26083-042(MS:AD26083-040)
Misc : A,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 19:32:21 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-044(MSD:AD
Client Id: LTMW-1-20210916MSD U
Data File: 5G98227.D
Analysis Date: 09/20/21 00:31
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **5103-71-9** | **(^)a-chlordane** | **0.010** | **0.34** | **53494-70-5** | **Endrin Ketone** | **0.010** | **0.39** |
| **309-00-2** | **Aldrin** | **0.010** | **0.42** | **58-89-9** | **gamma-BHC** | **0.010** | **0.40** |
| **319-84-6** | **alpha-BHC** | **0.010** | **0.29** | **76-44-8** | **Heptachlor** | **0.010** | **0.39** |
| **319-85-7** | **beta-BHC** | **0.010** | **0.28** | **1024-57-3** | **Heptachlor Epoxide** | **0.010** | **0.36** |
| **319-86-8** | **(^)delta-BHC** | **0.010** | **0.31** | **72-43-5** | **Methoxychlor** | **0.014** | **0.42** |
| **60-57-1** | **Dieldrin** | **0.010** | **0.39** | **72-54-8** | **p,p'-DDD** | **0.010** | **0.41** |
| **959-98-8** | **Endosulfan I** | **0.010** | **0.40** | **72-55-9** | **p,p'-DDE** | **0.010** | **0.36** |
| **33213-65-9** | **Endosulfan II** | **0.010** | **0.38** | **50-29-3** | **(^)p,p'-DDT** | **0.010** | **0.38** |
| **1031-07-8** | **Endosulfan Sulfate** | **0.010** | **0.40** | 8001-35-2 | Toxaphene | 0.25 | U |
| **72-20-8** | **(^)Endrin** | **0.010** | **0.40** | **5103-74-2** | **y-chlordane** | **0.010** | **0.34** |
| **7421-93-4** | **Endrin Aldehyde** | **0.010** | **0.27** | **57-74-9** | **Chlordane (Total)** | **0.010** | **0.68** |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98227.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 00:31:46
Operator : MS/MLC/MC
Sample : AD26083-044(MSD:AD26083-040)
Misc : A,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 19:32:56 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

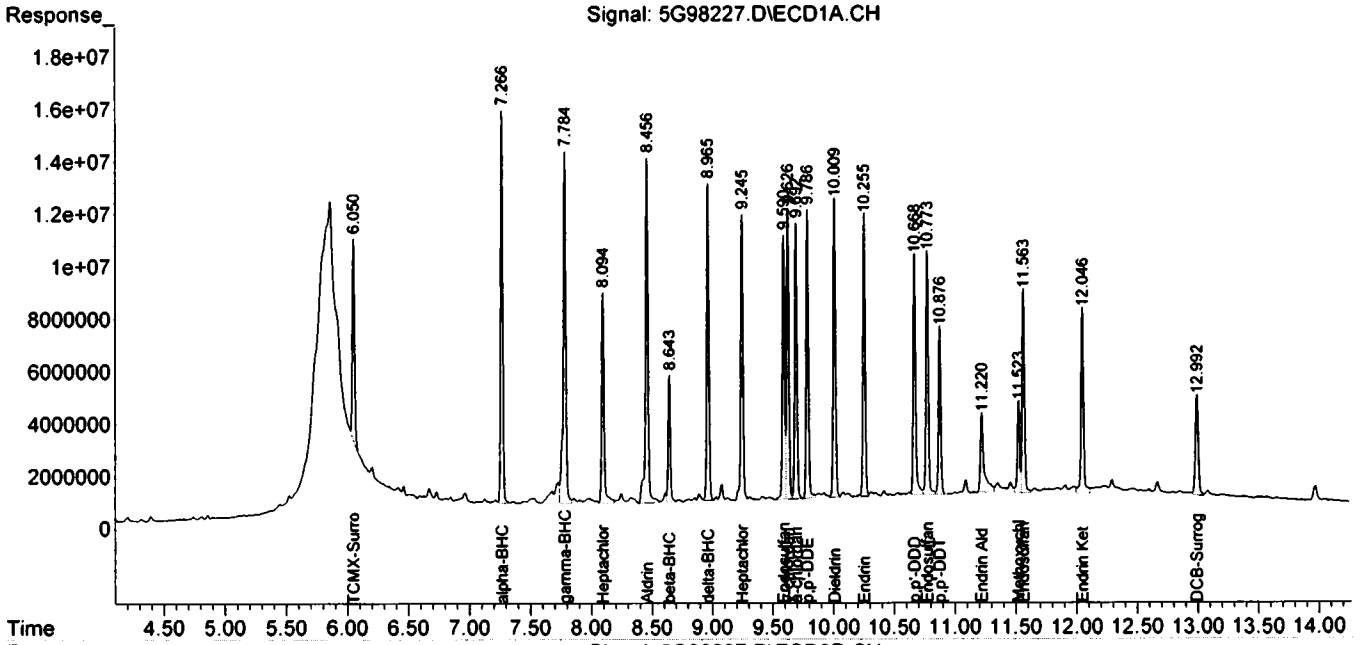
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 6.050 | 6.028 | 96389113 | 40477601 | 50.237m | 45.425 | |
| 2)alpha-BHC | 7.267 | 7.030 | 178.3E6 | 77556181 | 58.367 | 58.200 | |
| 3)gamma-BHC | 7.784 | 7.566 | 200.3E6 | 69206409 | 80.311 | 61.871 | |
| 4)beta-BHC | 8.644 | 7.658 | 62296095 | 24111848 | 56.415 | 47.689 | |
| 5)Heptachlor | 8.095 | 7.996 | 110.3E6 | 55915200 | 78.538 | 66.749 | |
| 6)delta-BHC | 8.966 | 8.142 | 144.9E6 | 67537583 | 61.858 | 61.880 | |
| 7)Aldrin | 8.457 | 8.428 | 190.5E6 | 64199156 | 83.449 | 60.632 | # |
| 8)Heptachlor Epoxid | 9.245 | 9.130 | 143.3E6 | 59621426 | 72.848 | 66.510 | |
| 9)y-chlordane | 9.626 | 9.330 | 142.3E6 | 60451281 | 67.128 | 64.233 | |
| 10)a-chlordane | 9.693 | 9.526 | 136.1E6 | 55359359 | 66.451 | 67.789 | |
| 11)Endosulfan I | 9.591 | 9.571 | 130.1E6 | 57887525 | 79.458 | 62.632 | |
| 12)p,p'-DDE | 9.787 | 9.810 | 141.7E6 | 61438010 | 71.057 | 70.768 | |
| 13)Dieldrin | 10.010 | 9.942 | 148.2E6 | 62401720 | 77.417 | 72.564 | |
| 14)Endrin | 10.255 | 10.387 | 137.7E6 | 54650272 | 80.447 | 80.471 | |
| 15)p,p'-DDD | 10.668 | 10.474 | 125.2E6 | 48214508 | 82.998 | 75.011 | |
| 16)Endosulfan II | 10.774 | 10.596 | 127.1E6 | 55625771 | 75.011 | 71.641 | |
| 17)p,p'-DDT | 10.877 | 10.831 | 83283889 | 45954777 | 69.550 | 75.906 | |
| 18)Endrin Aldehyde | 11.221 | 10.978 | 63024172 | 29151734 | 53.523 | 49.262 | |
| 19)Endosulfan Sulfat | 11.563 | 11.120 | 108.4E6 | 47065544 | 79.838 | 70.852 | |
| 20)Methoxychlor | 11.524 | 11.827 | 46433981 | 18580364 | 83.565 | 71.070 | |
| 21)Endrin Ketone | 12.047 | 12.040 | 104.4E6 | 46963562 | 78.253 | 64.495 | |
| 22)DCB-Surrogate | 12.992 | 13.443 | 65979984 | 31989997 | 59.100 | 60.624 | |

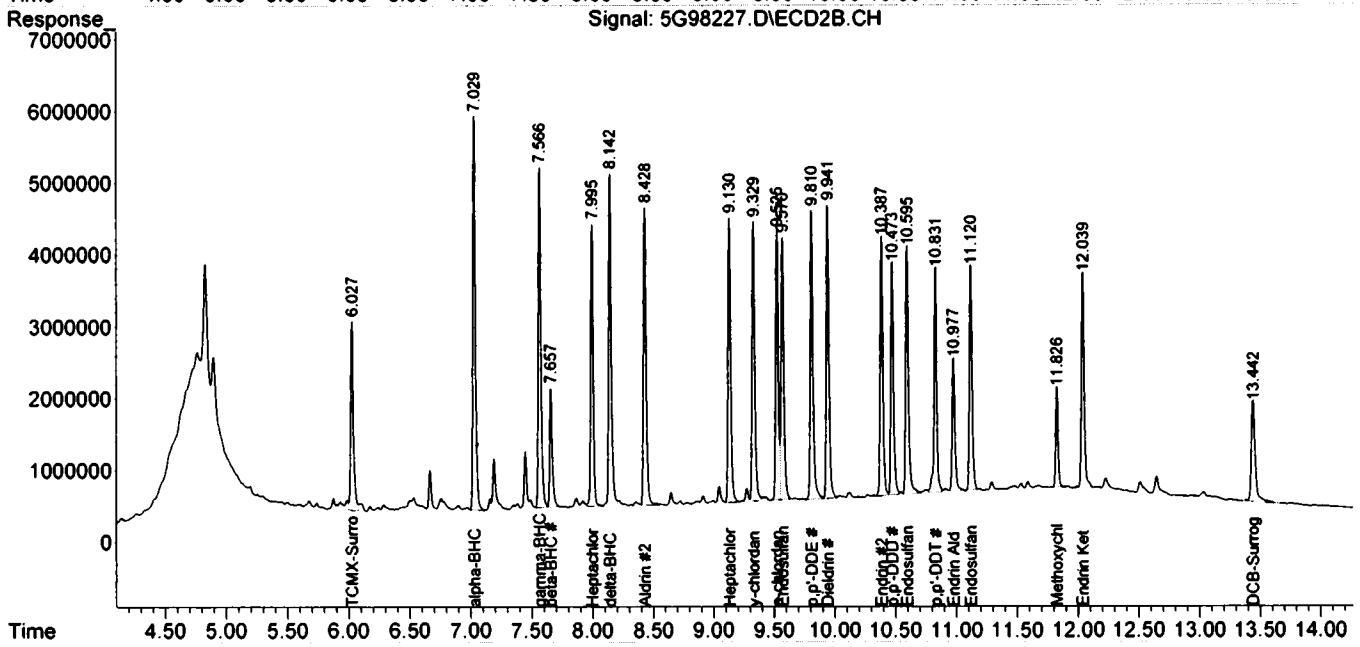
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98227.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 00:31:46
Operator : MS/MLC/MC
Sample : AD26083-044(MSD:AD26083-040)
Misc : A,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 19:32:56 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-046
Client Id: LTMW-23-20210916 U
Data File: 5G98374.D
Analysis Date: 09/28/21 13:59
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.015 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.26 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 611603

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98374.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Sep-21, 13:59:37
Operator : MS/MLC/MC/PR
Sample : AD26083-046
Misc : A,PEST
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 12:40:21 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

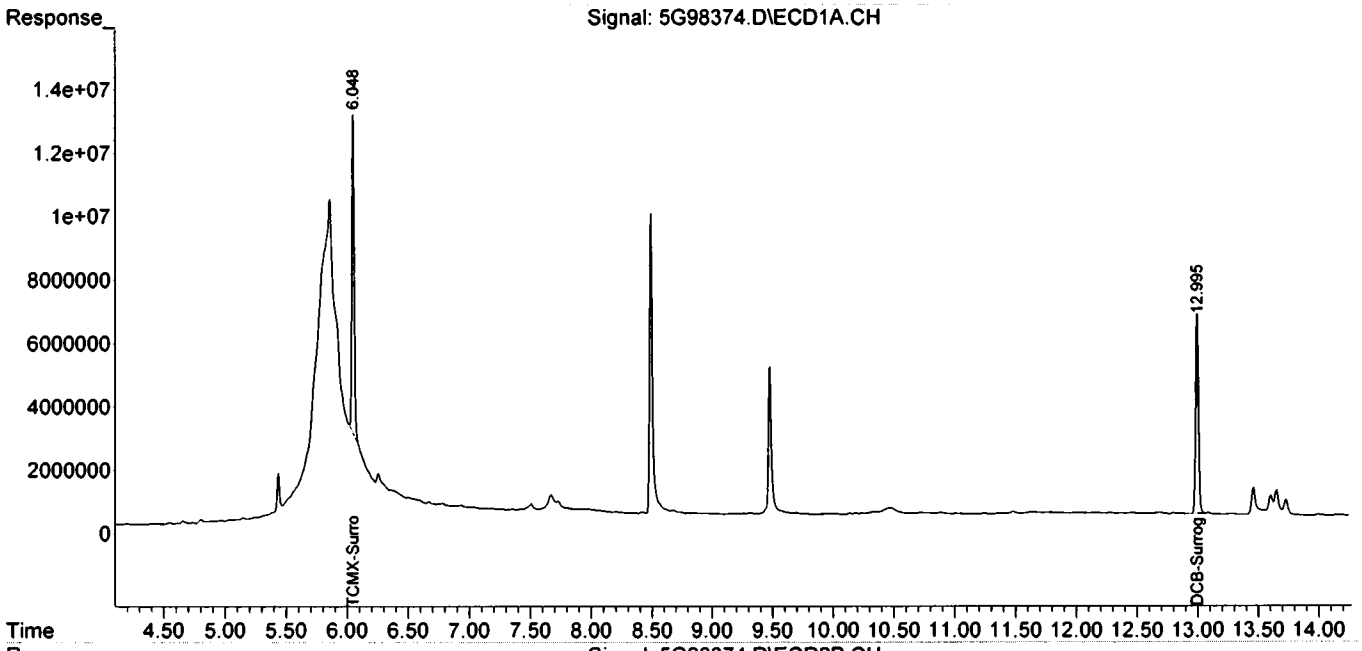
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.048 | 6.026 | 132.3E6 | 60910849 | 68.964m | 68.356 |
| 22) | DCB-Surrogate | 12.996 | 13.450 | 102.9E6 | 50140324 | 92.190 | 95.021 |

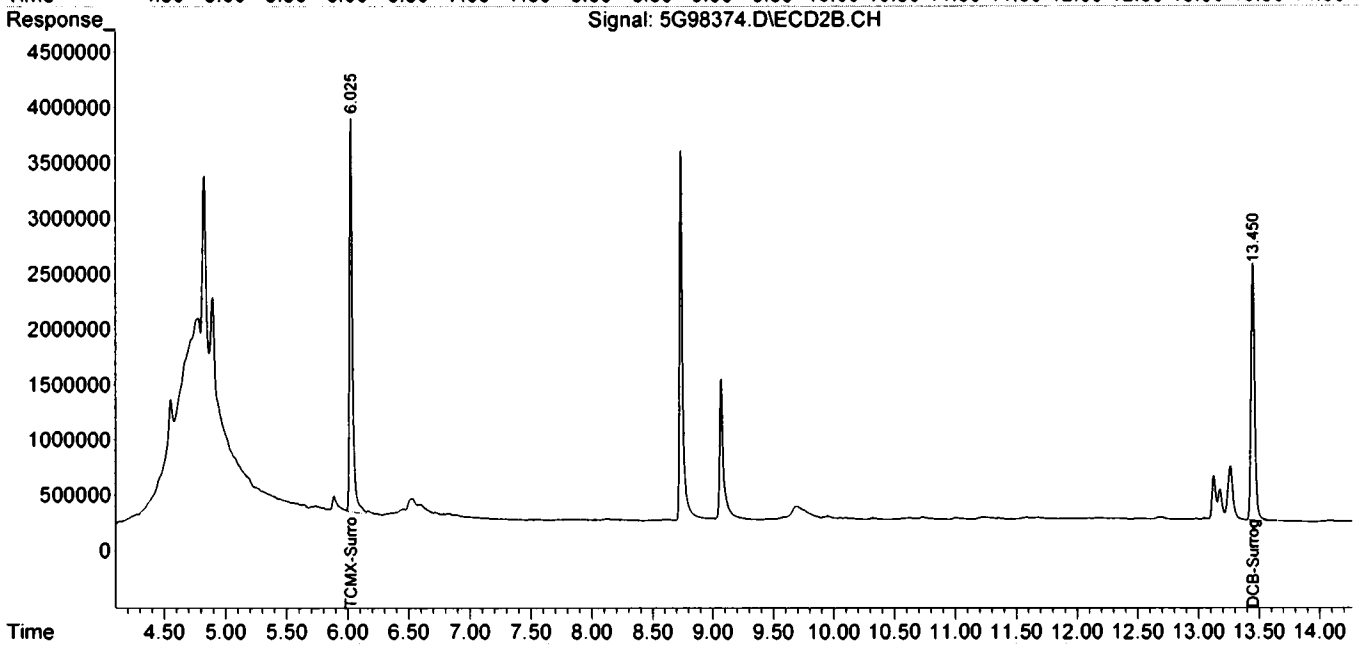
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98374.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Sep-21, 13:59:37
Operator : MS/MLC/MC/PR
Sample : AD26083-046
Misc : A,PEST
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 12:40:21 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-048
Client Id: LTMW-19-20210916
Data File: 5G98375.D
Analysis Date: 09/28/21 14:17
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.015 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.26 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98375.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Sep-21, 14:17:54
Operator : MS/MLC/MC/PR
Sample : AD26083-048
Misc : A,PEST
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 12:40:52 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

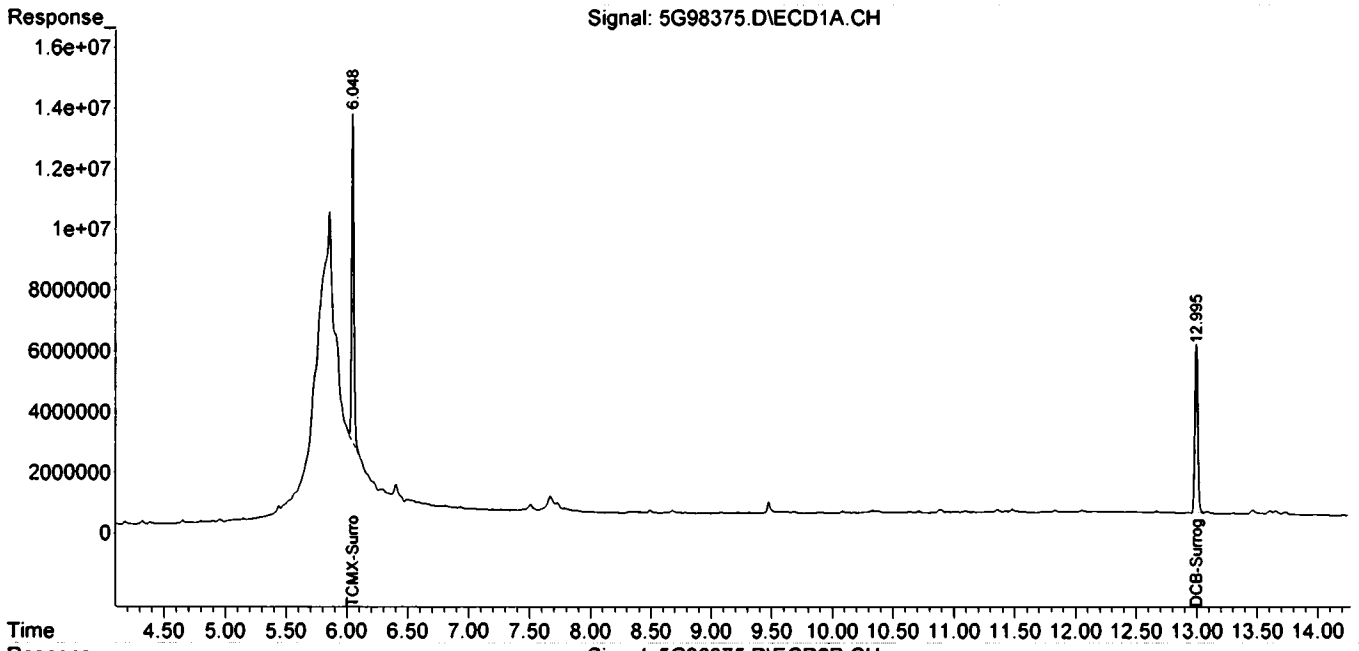
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.048 | 6.025 | 139.6E6 | 60413985 | 72.735m | 67.799 |
| 22)DCB-Surrogate | 12.996 | 13.448 | 92945875 | 44583334 | 83.254 | 84.490 |

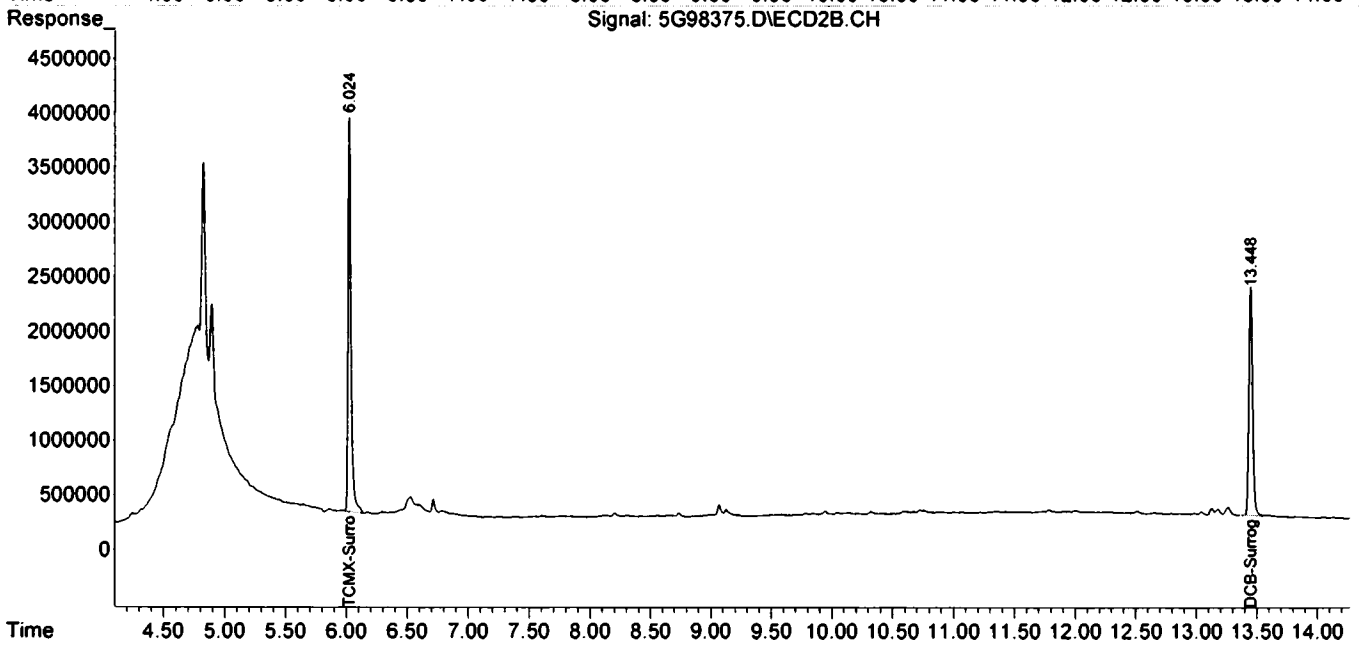
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98375.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Sep-21, 14:17:54
Operator : MS/MLC/MC/PR
Sample : AD26083-048
Misc : A,PEST
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 12:40:52 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-049(MS:AD26
Client Id: LTMW-19-20210916MS
Data File: 5G98262.D
Analysis Date: 09/21/21 09:26
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| **5103-71-9** | **(^)a-chlordane** | **0.010** | **0.39** | **53494-70-5** | **Endrin Ketone** | **0.010** | **0.41** |
| **309-00-2** | **Aldrin** | **0.010** | **0.37** | **58-89-9** | **gamma-BHC** | **0.010** | **0.36** |
| **319-84-6** | **(^)alpha-BHC** | **0.010** | **0.33** | **76-44-8** | **(^)Heptachlor** | **0.010** | **0.33** |
| **319-85-7** | **beta-BHC** | **0.010** | **0.35** | **1024-57-3** | **Heptachlor Epoxide** | **0.010** | **0.40** |
| **319-86-8** | **(^)delta-BHC** | **0.010** | **0.37** | **72-43-5** | **Methoxychlor** | **0.014** | **0.41** |
| **60-57-1** | **(^)Dieldrin** | **0.010** | **0.42** | **72-54-8** | **p,p'-DDD** | **0.010** | **0.47** |
| **959-98-8** | **Endosulfan I** | **0.010** | **0.42** | **72-55-9** | **(^)p,p'-DDE** | **0.010** | **0.41** |
| **33213-65-9** | **(^)Endosulfan II** | **0.010** | **0.44** | **50-29-3** | **p,p'-DDT** | **0.010** | **0.39** |
| **1031-07-8** | **Endosulfan Sulfate** | **0.010** | **0.45** | 8001-35-2 | Toxaphene | 0.25 | U |
| **72-20-8** | **(^)Endrin** | **0.010** | **0.42** | **5103-74-2** | **(^)y-chlordane** | **0.010** | **0.39** |
| **7421-93-4** | **(^)Endrin Aldehyde** | **0.010** | **0.42** | **57-74-9** | **Chlordane (Total)** | **0.010** | **0.78** |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98262.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 09:26:55
Operator : MS/MLC/MC
Sample : AD26083-049(MS:AD26083-048) (Sig #1); AD26083-049(MS:) (Sig #2)
Misc : A,PEST
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 09:59:06 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

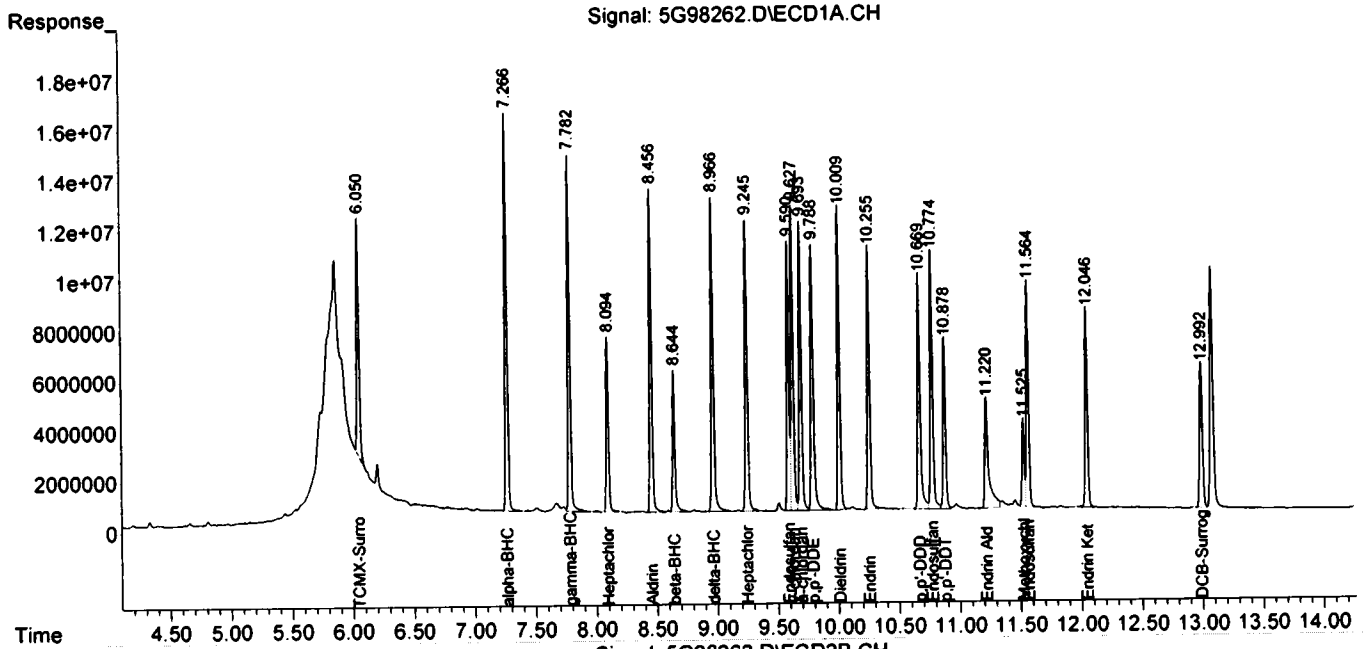
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.050 | 6.027 | 123.6E6 | 54390166 | 64.442m | 61.038 |
| 2)alpha-BHC | 7.267 | 7.029 | 196.5E6 | 87354995 | 64.324 | 65.554 |
| 3)gamma-BHC | 7.783 | 7.567 | 179.8E6 | 75068723 | 72.059 | 67.112 |
| 4)beta-BHC | 8.644 | 7.658 | 76981262 | 34410882 | 69.714 | 68.059 |
| 5)Heptachlor | 8.094 | 7.996 | 91272382 | 54987924 | 64.980 | 65.642 |
| 6)delta-BHC | 8.967 | 8.144 | 166.7E6 | 79743581 | 71.188 | 73.063 |
| 7)Aldrin | 8.457 | 8.429 | 168.6E6 | 74855515 | 73.854 | 70.696 |
| 8)Heptachlor Epoxid | 9.245 | 9.131 | 157.3E6 | 68328352 | 79.925 | 76.223 |
| 9)y-chlordane | 9.627 | 9.331 | 164.6E6 | 73150907 | 77.630 | 77.727 |
| 10)a-chlordane | 9.694 | 9.526 | 158.0E6 | 64029503 | 77.144 | 78.406 |
| 11)Endosulfan I | 9.591 | 9.571 | 137.8E6 | 71074263 | 84.108 | 76.900 |
| 12)p,p'-DDE | 9.789 | 9.813 | 162.0E6 | 70765290 | 81.245 | 81.512 |
| 13)Dieldrin | 10.009 | 9.943 | 161.9E6 | 72741600 | 84.543 | 84.587 |
| 14)Endrin | 10.256 | 10.388 | 144.2E6 | 57599329 | 84.224 | 84.813 |
| 15)p,p'-DDD | 10.670 | 10.476 | 141.1E6 | 55501256 | 93.565 | 86.347 |
| 16)Endosulfan II | 10.774 | 10.598 | 146.7E6 | 68521353 | 86.525 | 88.249 |
| 17)p,p'-DDT | 10.878 | 10.832 | 93132651 | 46547976 | 77.775 | 76.886 |
| 18)Endrin Aldehyde | 11.221 | 10.979 | 98388229 | 49448117 | 83.555 | 83.560 |
| 19)Endosulfan Sulfat | 11.564 | 11.121 | 122.7E6 | 59968754 | 90.365 | 90.276 |
| 20)Methoxychlor | 11.525 | 11.828 | 45114291 | 19003461 | 81.190 | 72.688 |
| 21)Endrin Ketone | 12.047 | 12.040 | 108.2E6 | 55270916 | 81.050 | 75.903 |
| 22)DCB-Surrogate | 12.992 | 13.444 | 93931782 | 46116675 | 84.137 | 87.396 |

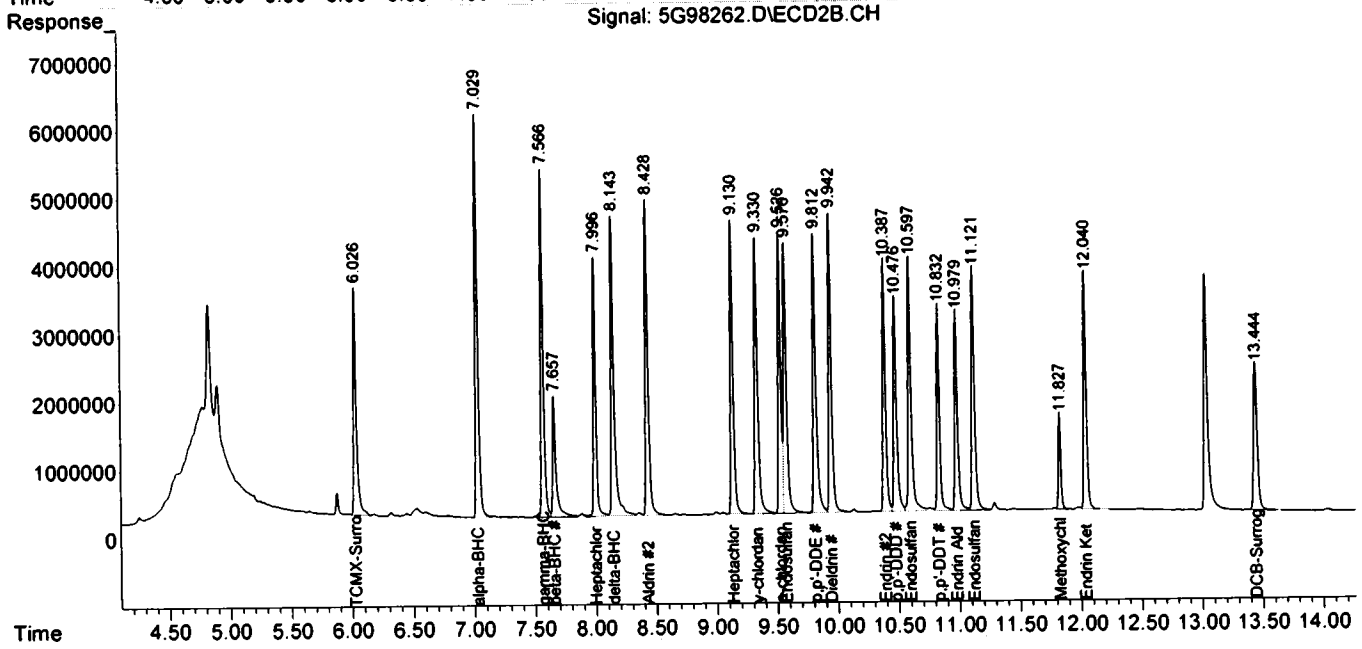
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98262.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 09:26:55
Operator : MS/MLC/MC
Sample : AD26083-049(MS:AD26083-048) (Sig #1); AD26083-049(MS:) (Sig #2)
Misc : A,PEST
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 09:59:06 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-050(MSD:AD
Client Id: LTMW-19-20210916MSD
Data File: 5G98263.D
Analysis Date: 09/21/21 09:45
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 990ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | (^)a-chlordane | 0.010 | 0.40 | 53494-70-5 | Endrin Ketone | 0.010 | 0.40 |
| 309-00-2 | Aldrin | 0.010 | 0.36 | 58-89-9 | gamma-BHC | 0.010 | 0.35 |
| 319-84-6 | (^)alpha-BHC | 0.010 | 0.31 | 76-44-8 | (^)Heptachlor | 0.010 | 0.34 |
| 319-85-7 | beta-BHC | 0.010 | 0.35 | 1024-57-3 | Heptachlor Epoxide | 0.010 | 0.39 |
| 319-86-8 | (^)delta-BHC | 0.010 | 0.36 | 72-43-5 | Methoxychlor | 0.014 | 0.42 |
| 60-57-1 | (^)Dieldrin | 0.010 | 0.44 | 72-54-8 | p,p'-DDD | 0.010 | 0.47 |
| 959-98-8 | Endosulfan I | 0.010 | 0.43 | 72-55-9 | (^)p,p'-DDE | 0.010 | 0.40 |
| 33213-65-9 | (^)Endosulfan II | 0.010 | 0.43 | 50-29-3 | (^)p,p'-DDT | 0.010 | 0.40 |
| 1031-07-8 | (^)Endosulfan Sulfate | 0.010 | 0.45 | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | 0.44 | 5103-74-2 | (^)y-chlordane | 0.010 | 0.39 |
| 7421-93-4 | Endrin Aldehyde | 0.010 | 0.44 | 57-74-9 | Chlordane (Total) | 0.010 | 0.79 |



*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98263.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 09:45:06
Operator : MS/MLC/MC
Sample : AD26083-050(MSD:AD26083-048) (Sig #1); AD26083-049(MSD:) (Sig #2)
Misc : A,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 10:07:09 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

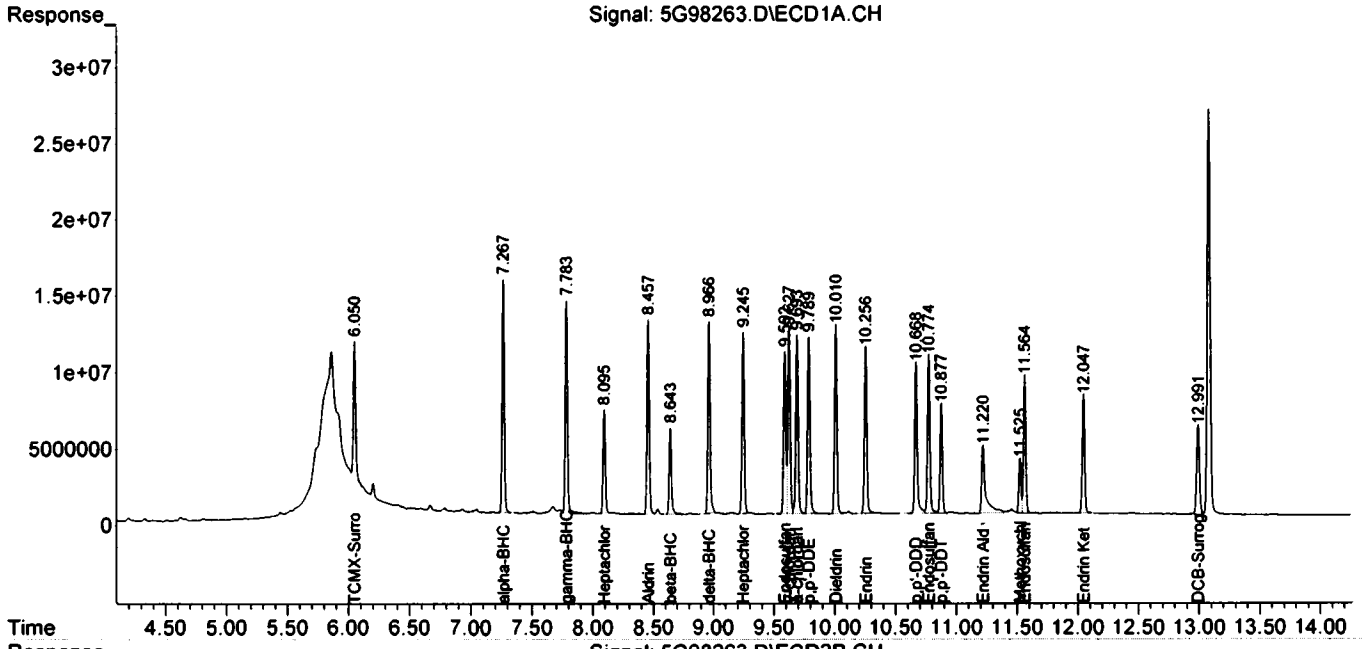
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.050 | 6.028 | 117.4E6 | 52569969 | 61.183m | 58.996 |
| 2) | alpha-BHC | 7.267 | 7.030 | 184.9E6 | 82688280 | 60.520 | 62.052 |
| 3) | gamma-BHC | 7.784 | 7.567 | 173.7E6 | 74773098 | 69.635 | 66.848 |
| 4) | beta-BHC | 8.644 | 7.659 | 76137228 | 34320081 | 68.950 | 67.879 |
| 5) | Heptachlor | 8.095 | 7.996 | 86810246 | 55994714 | 61.803 | 66.844 |
| 6) | delta-BHC | 8.967 | 8.144 | 159.4E6 | 77877091 | 68.078 | 71.353 |
| 7) | Aldrin | 8.457 | 8.430 | 162.1E6 | 71041228 | 71.014 | 67.093 |
| 8) | Heptachlor Epoxid | 9.246 | 9.131 | 152.6E6 | 68299488 | 77.573 | 76.191 |
| 9) | y-chlordane | 9.627 | 9.331 | 161.6E6 | 71782882 | 76.206 | 76.274 |
| 10) | a-chlordane | 9.693 | 9.527 | 156.6E6 | 64010900 | 76.460 | 78.384 |
| 11) | Endosulfan I | 9.592 | 9.571 | 140.2E6 | 68981118 | 85.618 | 74.635 |
| 12) | p,p'-DDE | 9.789 | 9.811 | 155.0E6 | 69315010 | 77.736 | 79.842 |
| 13) | Dieldrin | 10.010 | 9.942 | 161.7E6 | 74265227 | 84.478 | 86.359 |
| 14) | Endrin | 10.256 | 10.388 | 148.7E6 | 58648636 | 86.835 | 86.358 |
| 15) | p,p'-DDD | 10.669 | 10.476 | 141.3E6 | 56368112 | 93.646 | 87.696 |
| 16) | Endosulfan II | 10.774 | 10.597 | 142.9E6 | 65690057 | 84.291 | 84.603 |
| 17) | p,p'-DDT | 10.878 | 10.832 | 93325171 | 48420997 | 77.936 | 79.979 |
| 18) | Endrin Aldehyde | 11.221 | 10.979 | 103.5E6 | 48981224 | 87.892 | 82.771 |
| 19) | Endosulfan Sulfat | 11.564 | 11.121 | 118.6E6 | 59266144 | 87.322 | 89.218 |
| 20) | Methoxychlor | 11.525 | 11.827 | 46386392 | 19874110 | 83.480 | 76.018 |
| 21) | Endrin Ketone | 12.048 | 12.040 | 106.2E6 | 53623175 | 79.607 | 73.640 |
| 22) | DCB-Surrogate | 12.992 | 13.445 | 94572876 | 44220687 | 84.711 | 83.803 |

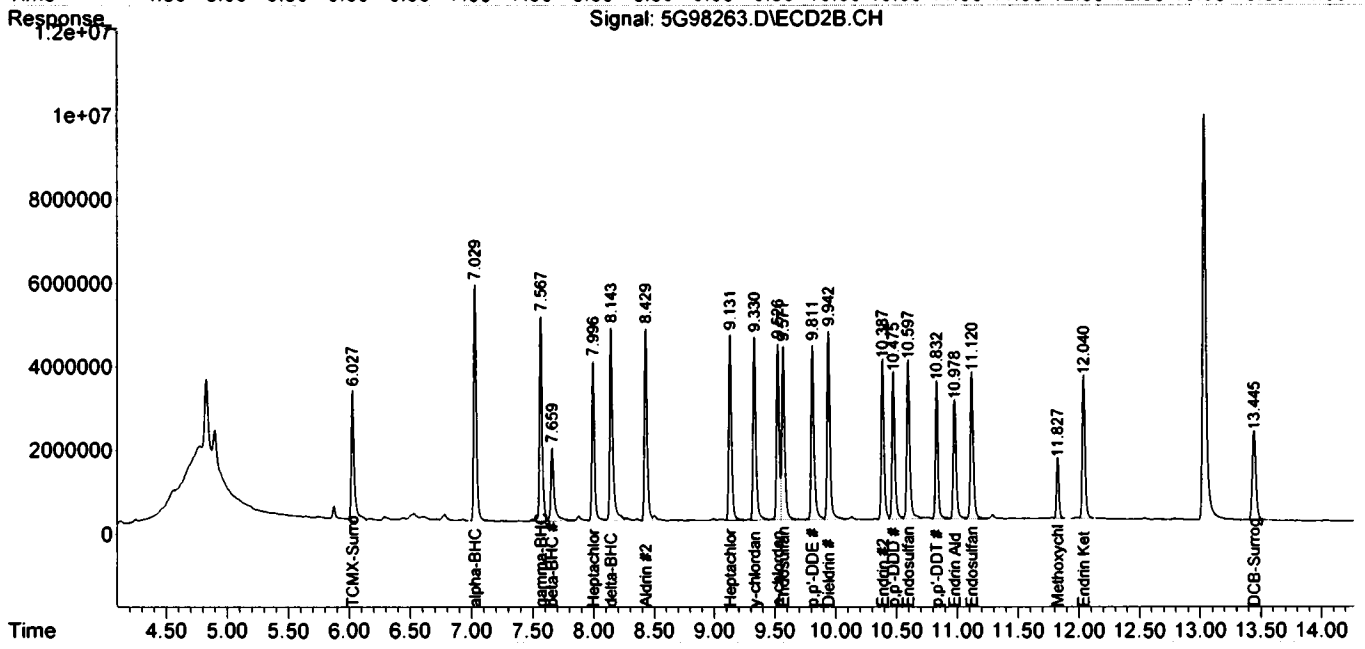
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98263.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 09:45:06
Operator : MS/MLC/MC
Sample : AD26083-050(MSD:AD26083-048) (Sig #1); AD26083-049(MSD:) (Sig #2)
Misc : A,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 10:07:09 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# GC Pesticide Data
# Standards Data

1091738 1620

# Form 6
## Initial Calibration

Method: EPA 8081B

Instrument: GC_6

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|
| 1 | 6G119038.D | CAL PEST@2PPB | 09/09/21 10:54 |
| 2 | 6G119039.D | CAL PEST@10PPB | 09/09/21 11:12 |
| 3 | 6G119037.D | CAL PEST@50PPB | 09/09/21 10:37 |
| 4 | 6G119040.D | CAL PEST@100PPB | 09/09/21 11:29 |
| 5 | 6G119041.D | CAL PEST@200PPB | 09/09/21 11:47 |
| 6 | 6G119042.D | CAL PEST@400PPB | 09/09/21 12:05 |
| 7 | 6G119043.D | CAL CHLOR@100PP | 09/09/21 12:22 |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | AvgRf | RT | Corr1 | Corr2 | %Rsd | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCMX-Surrogate | 1 | 0 | Qua | 0.3513 | 0.3042 | 0.3251 | 0.2525 | 0.2319 | 0.2027 | ---- | ---- | 0.278 | 4.74 | 0.991 | 0.998 | 21 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| alpha-BHC | 1 | 0 | Avg | 0.3298 | 0.2956 | 0.3203 | 0.2510 | 0.2304 | 0.1978 | ---- | ---- | 0.271 | 5.98 | 0.989 | 0.998 | 19 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| gamma-BHC | 1 | 0 | Qua | 0.3222 | 0.2845 | 0.3027 | 0.2335 | 0.2127 | 0.1802 | ---- | ---- | 0.256 | 6.52 | 0.987 | 0.998 | 22 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| beta-BHC | 1 | 0 | Qua | 0.2052 | 0.1781 | 0.1816 | 0.1379 | 0.1224 | 0.1016 | ---- | ---- | 0.155 | 7.46 | 0.983 | 0.997 | 26 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Heptachlor | 1 | 0 | Qua | 0.2991 | 0.2572 | 0.2542 | 0.1924 | 0.1718 | 0.1437 | ---- | ---- | 0.220 | 6.80 | 0.985 | 0.998 | 27 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| delta-BHC | 1 | 0 | Qua | 0.3153 | 0.2705 | 0.2841 | 0.2228 | 0.2027 | 0.1713 | ---- | ---- | 0.245 | 7.80 | 0.987 | 0.998 | 22 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Aldrin | 1 | 0 | Avg | 0.3472 | 0.3103 | 0.3423 | 0.2681 | 0.2506 | 0.2175 | ---- | ---- | 0.289 | 7.17 | 0.991 | 0.999 | 18 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Heptachlor Epoxide | 1 | 0 | Qua | 0.3247 | 0.2793 | 0.2878 | 0.2200 | 0.1992 | 0.1677 | ---- | ---- | 0.246 | 8.04 | 0.986 | 0.998 | 24 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| v-chlordane | 1 | 0 | Qua | 0.3642 | 0.3164 | 0.3275 | 0.2524 | 0.2295 | 0.1967 | ---- | ---- | 0.281 | 8.44 | 0.989 | 0.998 | 23 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| a-chlordane | 1 | 0 | Qua | 0.3738 | 0.3137 | 0.3313 | 0.2551 | 0.2322 | 0.1997 | ---- | ---- | 0.284 | 8.51 | 0.989 | 0.998 | 23 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endosulfan I | 1 | 0 | Qua | 0.2729 | 0.2353 | 0.2382 | 0.1817 | 0.1625 | 0.1364 | ---- | ---- | 0.205 | 8.40 | 0.985 | 0.998 | 26 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| p,p'-DDE | 1 | 0 | Avg | 0.2795 | 0.2443 | 0.2850 | 0.2174 | 0.2011 | 0.1851 | ---- | ---- | 0.235 | 8.60 | 0.995 | 0.998 | 18 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Dieldrin | 1 | 0 | Qua | 0.2774 | 0.2351 | 0.2499 | 0.1865 | 0.1677 | 0.1531 | ---- | ---- | 0.212 | 8.85 | 0.993 | 0.997 | 23 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endrin | 1 | 0 | Qua | 0.2601 | 0.2238 | 0.2293 | 0.1746 | 0.1550 | 0.1418 | ---- | ---- | 0.197 | 9.11 | 0.993 | 0.997 | 24 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| p,p'-DDD | 1 | 0 | Qua | 0.2288 | 0.1888 | 0.1878 | 0.1447 | 0.1287 | 0.1125 | ---- | ---- | 0.165 | 9.58 | 0.990 | 0.998 | 27 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endosulfan II | 1 | 0 | Qua | 0.2877 | 0.2456 | 0.2479 | 0.1881 | 0.1689 | 0.1440 | ---- | ---- | 0.214 | 9.71 | 0.987 | 0.998 | 26 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| p,p'-DDT | 1 | 0 | Avg | 0.1781 | 0.1682 | 0.2094 | 0.1651 | 0.1555 | 0.1512 | ---- | ---- | 0.171 | 9.79 | 0.998 | 0.998 | 12 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endrin Aldehyde | 1 | 0 | Avg | 0.1811 | 0.1635 | 0.2060 | 0.1593 | 0.1436 | 0.1310 | ---- | ---- | 0.164 | 10.22 | 0.993 | 0.998 | 16 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endosulfan Sulfate | 1 | 0 | Qua | 0.2624 | 0.2190 | 0.2370 | 0.1836 | 0.1664 | 0.1566 | ---- | ---- | 0.204 | 10.60 | 0.996 | 0.998 | 21 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Methoxychlor | 1 | 0 | Qua | 0.1305 | 0.1014 | 0.1205 | 0.0909 | 0.0801 | 0.0699 | ---- | ---- | 0.0989 | 10.51 | 0.988 | 0.997 | 24 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endrin Ketone | 1 | 0 | Qua | 0.2502 | 0.2221 | 0.2204 | 0.1700 | 0.1482 | 0.1287 | ---- | ---- | 0.190 | 11.11 | 0.988 | 0.997 | 25 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| DCB-Surrogate | 1 | 0 | Qua | 0.3377 | 0.2935 | 0.2915 | 0.2223 | 0.1978 | 0.1645 | ---- | ---- | 0.251 | 12.10 | 0.984 | 0.998 | 26 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Chlordane (Technical) | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0111 | 6.59 | -1 | -1 | Lvl=7 | 100.0 | | | | | | | |
| Chlordane (Technical) | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0335 | 8.44 | -1 | -1 | Lvl=7 | 100.0 | | | | | | | |
| Chlordane (Technical) | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0474 | 8.51 | -1 | -1 | Lvl=7 | 100.0 | | | | | | | |
| Toxaphene | 1 | 1 | Qua | 0.0046 | 0.0038 | 0.0035 | 0.0028 | 0.0026 | 0.0022 | ---- | ---- | 0.00329 | 9.29 | 0.989 | 0.999 | 27 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 1 | 2 | Avg | 0.0029 | 0.0028 | 0.0027 | 0.0024 | 0.0022 | 0.0020 | ---- | ---- | 0.00256 | 9.73 | 0.996 | 1.00 | 14 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 1 | 3 | Qua | 0.0083 | 0.0082 | 0.0071 | 0.0063 | 0.0054 | 0.0046 | ---- | ---- | 0.00670 | 10.05 | 0.989 | 0.999 | 23 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 1 | 4 | Avg | 0.0072 | 0.0062 | 0.0071 | 0.0068 | 0.0064 | 0.0059 | ---- | ---- | 0.00663 | 10.41 | 0.997 | 1.00 | 7.8 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 1 | 5 | Avg | 0.0056 | 0.0066 | 0.0066 | 0.0059 | 0.0052 | 0.0044 | ---- | ---- | 0.00577 | 10.82 | 0.990 | 0.999 | 15 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| TCMX-Surrogate | 2 | 0 | Avg | 1.8189 | 1.5741 | 1.6895 | 1.3184 | 1.2398 | 1.0892 | ---- | ---- | 1.46 | 4.72 | 0.993 | 0.999 | 19 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| alpha-BHC | 2 | 0 | Avg | 1.8484 | 1.7162 | 2.1646 | 1.7808 | 1.7635 | 1.5948 | ---- | ---- | 1.81 | 5.67 | 0.996 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| gamma-BHC | 2 | 0 | Avg | 1.8900 | 1.6518 | 1.9576 | 1.6060 | 1.5542 | 1.4051 | ---- | ---- | 1.68 | 6.22 | 0.996 | 0.999 | 12 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| beta-BHC | 2 | 0 | Avg | 1.1468 | 0.9777 | 1.0540 | 0.8463 | 0.7913 | 0.6935 | ---- | ---- | 0.918 | 6.30 | 0.993 | 0.999 | 19 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Heptachlor | 2 | 0 | Avg | 1.8504 | 1.5609 | 1.7588 | 1.4104 | 1.3518 | 1.2026 | ---- | ---- | 1.52 | 6.67 | 0.994 | 0.999 | 16 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| delta-BHC | 2 | 0 | Avg | 1.7561 | 1.5376 | 1.9106 | 1.5779 | 1.5305 | 1.3896 | ---- | ---- | 1.62 | 6.80 | 0.996 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |

Avg Rsd Col 1: 21.46  Avg Rsd Col 2: 14.62

***Flags***

c - failed the initial calibration criteria(if applicable)

***Note:***

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

1091738 1621

# Form 6
## Initial Calibration

Method: EPA 8081B

Instrument: GC_6

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time | Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|---|---|---|---|
| 1 | 6G119038.D | CAL PEST@2PPB | 09/09/21 10:54 | 2 | 6G119039.D | CAL PEST@10PPB | 09/09/21 11:12 |
| 3 | 6G119037.D | CAL PEST@50PPB | 09/09/21 10:37 | 4 | 6G119040.D | CAL PEST@100PPB | 09/09/21 11:29 |
| 5 | 6G119041.D | CAL PEST@200PPB | 09/09/21 11:47 | 6 | 6G119042.D | CAL PEST@400PPB | 09/09/21 12:05 |
| 7 | 6G119043.D | CAL CHLOR@100PP | 09/09/21 12:22 | | | | |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | AvgRf | RT | Corr1 | Corr2 | %Rsd | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 2 | 0 | Avg | 1.5147 | 1.4346 | 1.6805 | 1.3692 | 1.3248 | 1.1950 | ---- | ---- | 1.42 | 7.12 | 0.996 | 0.999 | 12 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Heptachlor Epoxide | 2 | 0 | Avg | 1.6598 | 1.3872 | 1.4924 | 1.2327 | 1.1715 | 1.0378 | ---- | ---- | 1.33 | 7.85 | 0.994 | 0.999 | 17 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| v-chlordane | 2 | 0 | Avg | 1.6150 | 1.3574 | 1.5333 | 1.2632 | 1.2237 | 1.1114 | ---- | ---- | 1.35 | 8.07 | 0.996 | 0.999 | 14 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| a-chlordane | 2 | 0 | Avg | 1.4940 | 1.2995 | 1.4425 | 1.1670 | 1.1051 | 0.9866 | ---- | ---- | 1.25 | 8.27 | 0.994 | 0.999 | 16 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endosulfan I | 2 | 0 | Avg | 1.4634 | 1.2676 | 1.4438 | 1.1765 | 1.1477 | 1.0332 | ---- | ---- | 1.26 | 8.32 | 0.996 | 0.999 | 14 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| p,p'-DDE | 2 | 0 | Avg | 1.2328 | 1.1278 | 1.3513 | 1.1251 | 1.1115 | 1.0194 | ---- | ---- | 1.16 | 8.57 | 0.997 | 0.999 | 9.9 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Dieldrin | 2 | 0 | Avg | 1.2993 | 1.1380 | 1.3273 | 1.1089 | 1.0815 | 0.9842 | ---- | ---- | 1.16 | 8.72 | 0.997 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endrin | 2 | 0 | Avg | 1.2720 | 1.0474 | 1.1897 | 0.9897 | 0.9589 | 0.8711 | ---- | ---- | 1.05 | 9.19 | 0.996 | 0.999 | 14 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| p,p'-DDD | 2 | 0 | Avg | 1.1703 | 0.9467 | 1.0253 | 0.8840 | 0.8547 | 0.7756 | ---- | ---- | 0.943 | 9.28 | 0.997 | 1.00 | 15 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endosulfan II | 2 | 0 | Avg | 1.3770 | 1.1426 | 1.2007 | 1.0242 | 0.9886 | 0.8904 | ---- | ---- | 1.10 | 9.42 | 0.996 | 1.00 | 16 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| p,p'-DDT | 2 | 0 | Avg | 0.7365 | 0.7458 | 0.9677 | 0.8184 | 0.8203 | 0.7679 | ---- | ---- | 0.809 | 9.67 | 0.998 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endrin Aldehyde | 2 | 0 | Qua | 1.4184 | 1.0143 | 1.0161 | 0.8366 | 0.7891 | 0.6992 | ---- | ---- | 0.962 | 9.82 | 0.994 | 0.999 | 27 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endosulfan Sulfate | 2 | 0 | Avg | 1.1083 | 0.9759 | 1.0374 | 0.8775 | 0.8348 | 0.7547 | ---- | ---- | 0.931 | 9.98 | 0.996 | 0.999 | 14 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Methoxychlor | 2 | 0 | Avg | 0.5651 | 0.5016 | 0.5759 | 0.4753 | 0.4491 | 0.4036 | ---- | ---- | 0.495 | 10.74 | 0.995 | 0.999 | 13 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endrin Ketone | 2 | 0 | Avg | 1.3151 | 1.0136 | 1.1422 | 0.9576 | 0.9210 | 0.8265 | ---- | ---- | 1.03 | 10.97 | 0.996 | 0.999 | 17 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| DCB-Surrogate | 2 | 0 | Qua | 1.3129 | 1.1129 | 1.1334 | 0.8778 | 0.8037 | 0.7032 | ---- | ---- | 0.991 | 12.58 | 0.991 | 0.998 | 23 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Chlordane (Technical) | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.0624 | 6.45 | -1 | -1 | Lvl=7 | 100.0 | | | | | | | |
| Chlordane (Technical) | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.270 | 8.06 | -1 | -1 | Lvl=7 | 100.0 | | | | | | | |
| Chlordane (Technical) | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 0.139 | 8.27 | -1 | -1 | Lvl=7 | 100.0 | | | | | | | |
| Toxaphene | 2 | 1 | Avg | 0.0263 | 0.0214 | 0.0216 | 0.0194 | 0.0188 | 0.0172 | ---- | ---- | 0.0208 | 8.88 | 0.998 | 1.00 | 15 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 2 | 2 | Qua | 0.0429 | 0.0323 | 0.0293 | 0.0264 | 0.0254 | 0.0238 | ---- | ---- | 0.0301 | 9.46 | 0.999 | 1.00 | 23 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 2 | 3 | Avg | 0.0262 | 0.0267 | 0.0244 | 0.0223 | 0.0212 | 0.0204 | ---- | ---- | 0.0236 | 9.99 | 0.999 | 1.00 | 11 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 2 | 4 | Avg | 0.0243 | 0.0282 | 0.0278 | 0.0270 | 0.0266 | 0.0251 | ---- | ---- | 0.0265 | 10.47 | 0.999 | 1.00 | 5.8 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 2 | 5 | Avg | 0.0441 | 0.0484 | 0.0522 | 0.0517 | 0.0523 | 0.0510 | ---- | ---- | 0.0500 | 10.55 | 1.00 | 1.00 | 6.4 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |

Avg Rsd Col 1: 21.46  Avg Rsd Col 2: 14.62

***Flags***

c - failed the initial calibration criteria(if applicable)

***Note:***

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 10:54
Operator : MS/MLC/AH
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:51:24 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:48:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

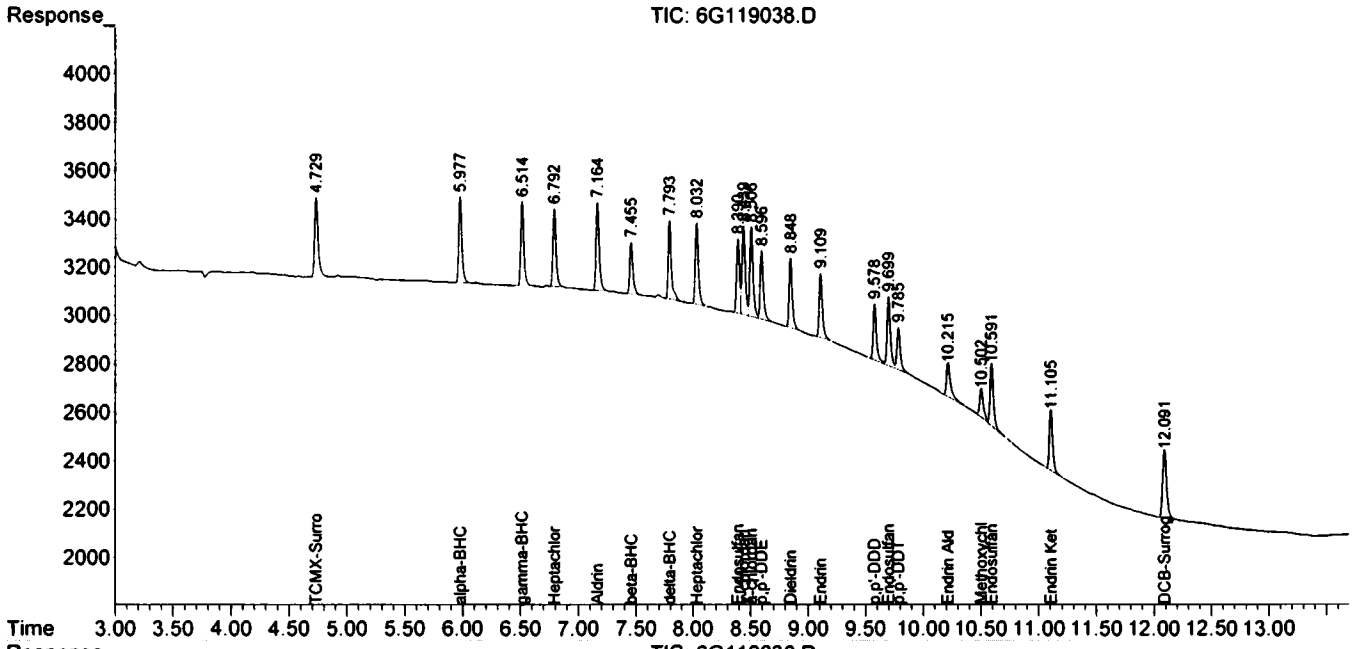
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 4.729 | 4.719 | 7026 | 36378 | 3.891m | 3.027m |
| 2)alpha-BHC | 5.978 | 5.672 | 6598 | 36969 | 3.352 | 2.517 |
| 3)gamma-BHC | 6.515 | 6.215 | 6444 | 37801 | 3.579 | 2.771 |
| 4)beta-BHC | 7.456 | 6.296 | 4106 | 22936 | 4.109 | 3.060 # |
| 5)Heptachlor | 6.793 | 6.666 | 5982 | 37010 | 3.775 | 3.098 |
| 6)delta-BHC | 7.793 | 6.801 | 6307 | 35123 | 3.885 | 2.684 # |
| 7)Aldrin | 7.165 | 7.118 | 6946 | 30295 | 3.674 | 2.568 # |
| 8)Heptachlor Epoxid | 8.033 | 7.852 | 6494 | 33198 | 4.034 | 3.065m |
| 9)y-chlordane | 8.440 | 8.064 | 7284 | 32301 | 4.268 | 2.851 # |
| 10)a-chlordane | 8.507 | 8.272 | 7477 | 29881 | 4.452 | 2.853 # |
| 11)Endosulfan I | 8.391 | 8.321 | 5460 | 29269 | 3.939 | 2.778 # |
| 12)p,p'-DDE | 8.597 | 8.571 | 5590 | 24656 | 3.987 | 2.434 # |
| 13)Dieldrin | 8.849 | 8.716 | 5548 | 25987 | 4.097 | 2.655 # |
| 14)Endrin | 9.110 | 9.192 | 5203 | 25440 | 4.362 | 3.313 |
| 15)p,p'-DDD | 9.579 | 9.279 | 4577 | 23407 | 4.509 | 3.022 # |
| 16)Endosulfan II | 9.700 | 9.413 | 5754 | 27541 | 4.432 | 3.100m# |
| 17)p,p'-DDT | 9.786 | 9.665 | 3563 | 14731 | 4.496 | 2.090 # |
| 18)Endrin Aldehyde | 10.216 | 9.823 | 3622 | 28369 | 3.357 | 3.546 |
| 19)Endosulfan Sulfat | 10.592 | 9.974 | 5248 | 22167 | 4.993 | 2.924 # |
| 20)Methoxychlor | 10.502 | 10.735 | 2611 | 11303 | 6.207m | 3.138m# |
| 21)Endrin Ketone | 11.105 | 10.962 | 5004 | 26303 | 4.934 | 3.097m# |
| 22)DCB-Surrogate | 12.092 | 12.579 | 6756 | 26259 | 5.338 | 3.964m# |
| 23)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

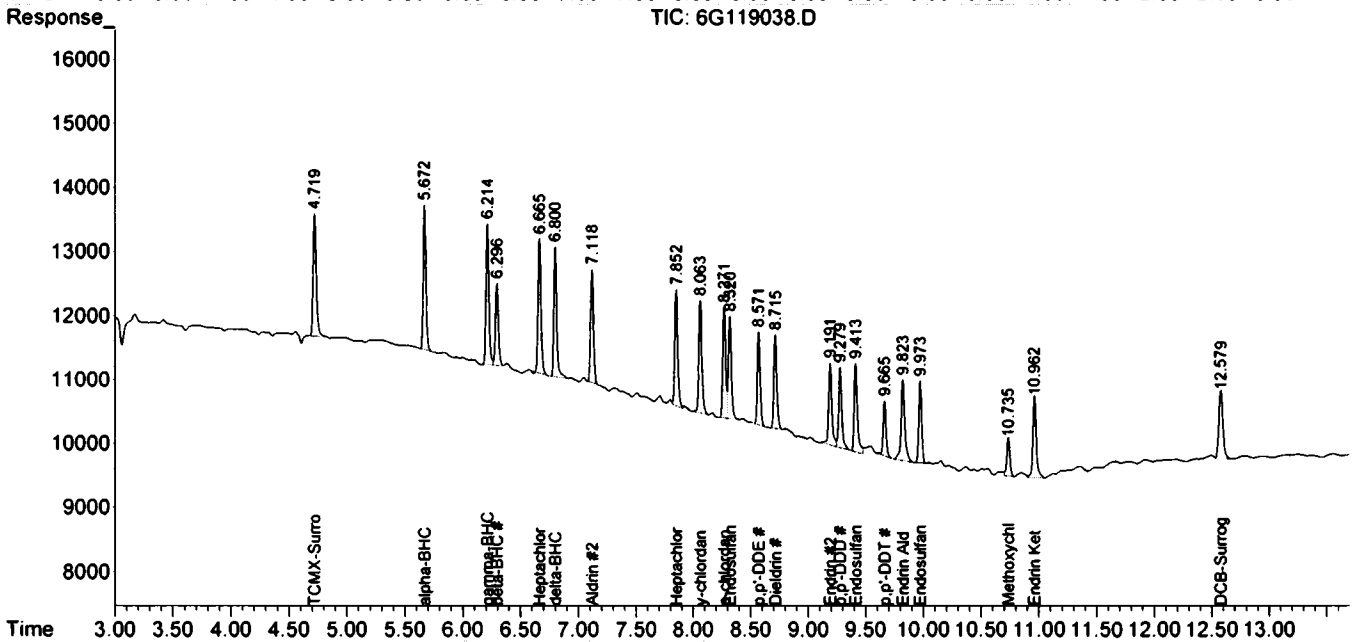
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 10:54
Operator : MS/MLC/AH
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:51:24 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:48:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 11:12
Operator : MS/MLC/AH
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:52:20 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:48:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

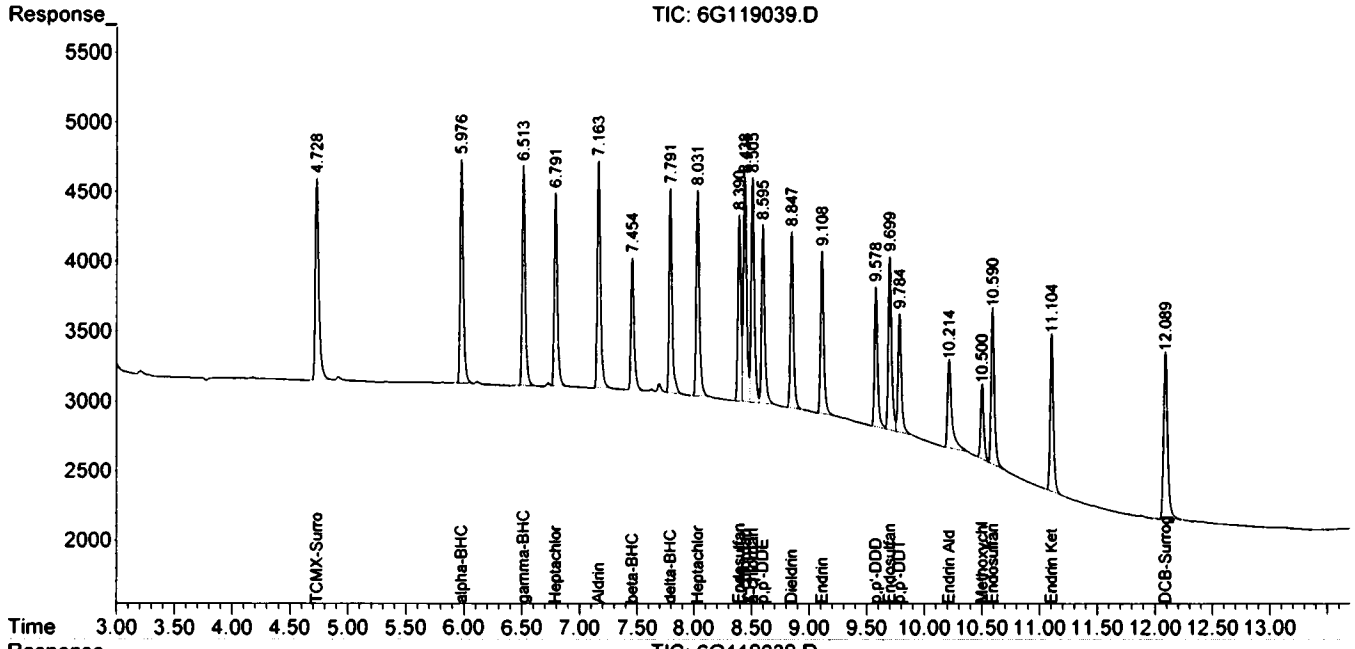
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 4.729 | 4.718 | 30423 | 157415 | 16.846 | 13.100m |
| 2)alpha-BHC | 5.976 | 5.672 | 29566 | 171622 | 15.023 | 11.685 |
| 3)gamma-BHC | 6.513 | 6.215 | 28459 | 165183 | 15.806 | 12.108 |
| 4)beta-BHC | 7.455 | 6.296 | 17815 | 97776 | 17.828 | 13.047 # |
| 5)Heptachlor | 6.791 | 6.666 | 25720 | 156094 | 16.377 | 13.068 |
| 6)delta-BHC | 7.792 | 6.802 | 27057 | 153763 | 16.665 | 11.752 # |
| 7)Aldrin | 7.164 | 7.118 | 31031 | 143462 | 16.415 | 12.160 # |
| 8)Heptachlor Epoxid | 8.032 | 7.853 | 27935 | 138726 | 17.355 | 12.807 # |
| 9)y-chlordane | 8.439 | 8.064 | 31644 | 135747 | 18.540 | 11.980 # |
| 10)a-chlordane | 8.506 | 8.272 | 31375 | 129950 | 18.683 | 12.407 # |
| 11)Endosulfan I | 8.391 | 8.321 | 23532 | 126769 | 16.976 | 12.033 # |
| 12)p,p'-DDE | 8.596 | 8.572 | 24438 | 112781 | 17.427 | 11.134 # |
| 13)Dieldrin | 8.848 | 8.717 | 23512 | 113800 | 17.361 | 11.628 # |
| 14)Endrin | 9.109 | 9.193 | 22385 | 104746 | 18.764 | 13.670 # |
| 15)p,p'-DDD | 9.579 | 9.280 | 18882 | 94679 | 18.751 | 12.224 # |
| 16)Endosulfan II | 9.700 | 9.413 | 24566 | 114261 | 18.921 | 12.860m# |
| 17)p,p'-DDT | 9.785 | 9.666 | 16820 | 74589 | 21.319 | 10.579 # |
| 18)Endrin Aldehyde | 10.215 | 9.824 | 16358 | 101433 | 15.239 | 12.680 |
| 19)Endosulfan Sulfat | 10.591 | 9.975 | 21901 | 97593 | 20.836 | 12.873 # |
| 20)Methoxychlor | 10.501 | 10.736 | 10142 | 50165 | 24.161 | 13.925m# |
| 21)Endrin Ketone | 11.104 | 10.964 | 22218 | 101360 | 21.904 | 11.968 # |
| 22)DCB-Surrogate | 12.089 | 12.578 | 29359 | 111293 | 23.195 | 16.802 # |
| 23)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

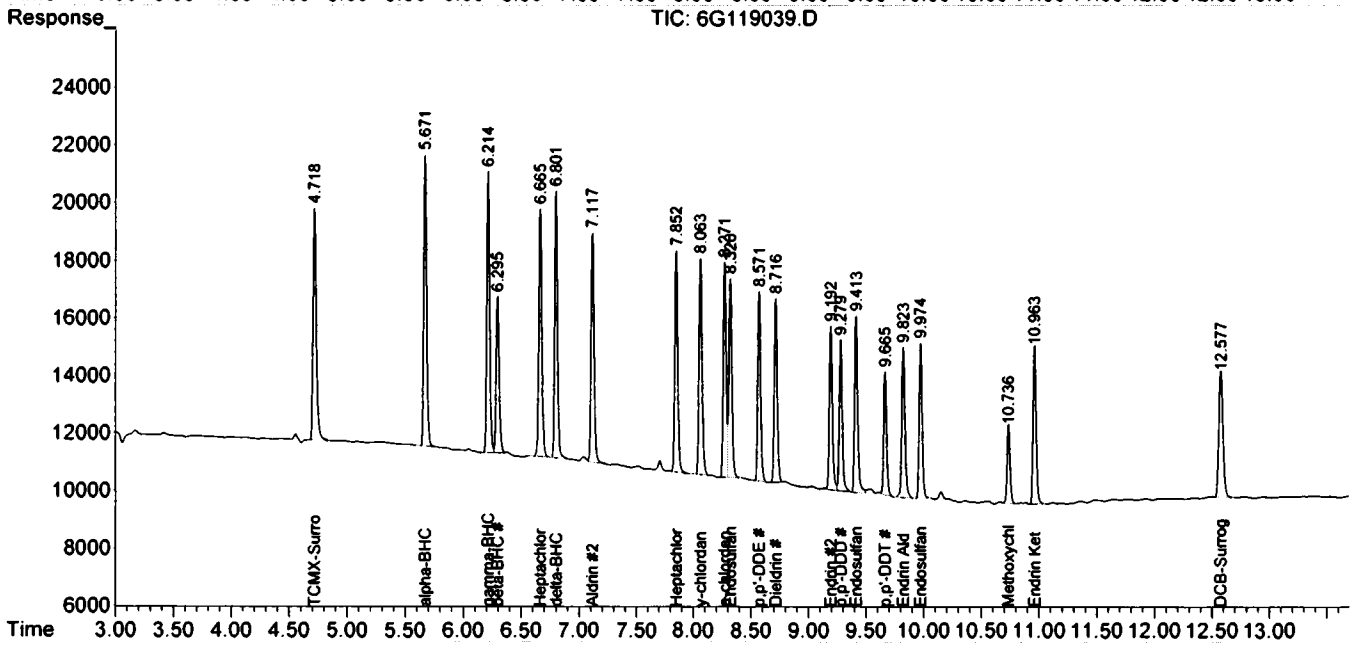
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 11:12
Operator : MS/MLC/AH
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:52:20 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:48:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 10:37
Operator : MS/MLC/AH
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:48:22 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:48:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

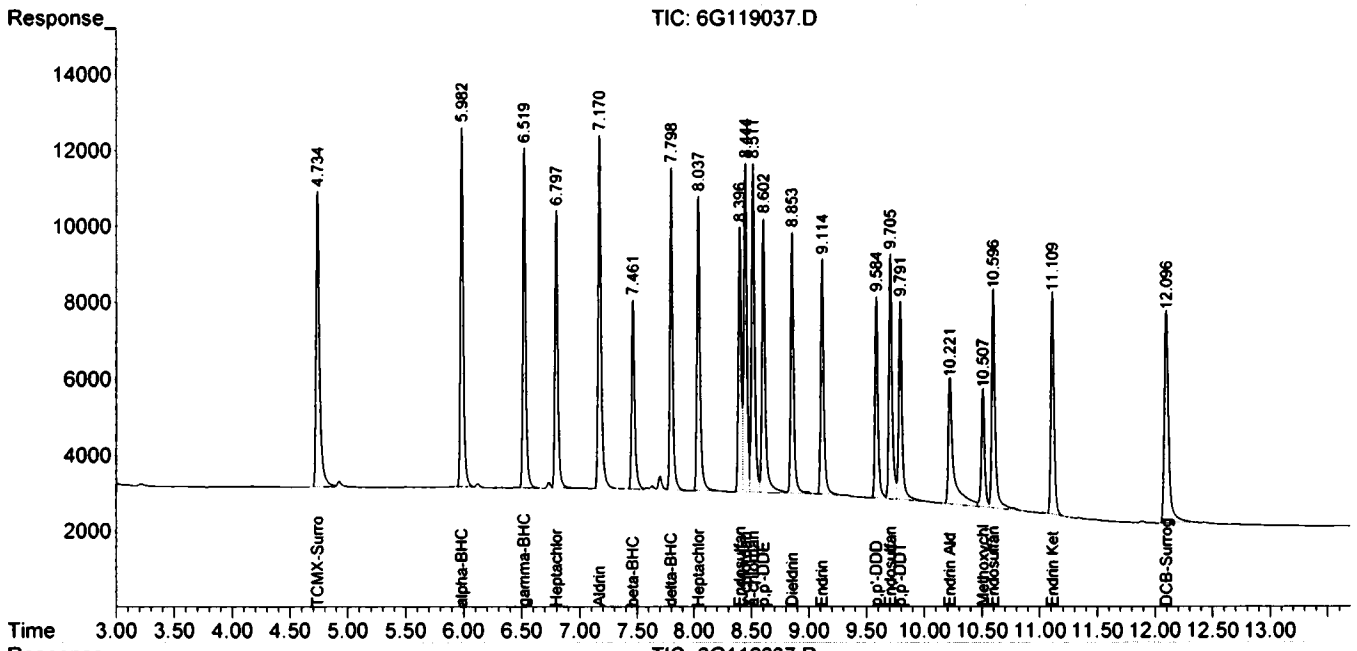
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 4.735 | 4.719 | 162576 | 844785 | 90.022 | 70.304 | |
| 2)alpha-BHC | 5.983 | 5.673 | 160180 | 1082341 | 81.390 | 73.693 | |
| 3)gamma-BHC | 6.520 | 6.216 | 151386 | 978810 | 84.078 | 71.747 | |
| 4)beta-BHC | 7.461 | 6.297 | 90839 | 527043 | 90.908 | 70.326 | |
| 5)Heptachlor | 6.798 | 6.667 | 127145 | 879437 | 85.202 | 73.625 | |
| 6)delta-BHC | 7.798 | 6.803 | 142082 | 955335 | 87.513 | 73.013 | |
| 7)Aldrin | 7.170 | 7.119 | 171174 | 840267 | 90.550 | 71.221 | |
| 8)Heptachlor Epoxid | 8.038 | 7.854 | 143904 | 746245 | 89.404 | 68.895 | |
| 9)y-chlordane | 8.445 | 8.065 | 163767 | 766685 | 95.948 | 67.665 | # |
| 10)a-chlordane | 8.512 | 8.273 | 165664 | 721277 | 98.650 | 68.862 | # |
| 11)Endosulfan I | 8.397 | 8.322 | 119104 | 721903 | 85.921 | 68.521 | |
| 12)p,p'-DDE | 8.603 | 8.573 | 142539 | 675685 | 101.645 | 66.705 | # |
| 13)Dieldrin | 8.854 | 8.718 | 124955 | 663686 | 92.266 | 67.816 | # |
| 14)Endrin | 9.115 | 9.195 | 114664 | 594881 | 96.119 | 78.749 | |
| 15)p,p'-DDD | 9.585 | 9.282 | 93903 | 512674 | 97.584 | 66.192 | # |
| 16)Endosulfan II | 9.705 | 9.416 | 123951 | 600350 | 95.469 | 67.566 | # |
| 17)p,p'-DDT | 9.792 | 9.668 | 104707 | 483858 | 137.076 | 68.384 | # |
| 18)Endrin Aldehyde | 10.221 | 9.825 | 103021 | 508075 | 99.642 | 63.516 | # |
| 19)Endosulfan Sulfat | 10.597 | 9.977 | 118535 | 518728 | 112.770 | 68.425 | # |
| 20)Methoxychlor | 10.508 | 10.738 | 60277 | 287964 | 145.845 | 79.932 | # |
| 21)Endrin Ketone | 11.110 | 10.966 | 110200 | 571112 | 108.642 | 68.733 | # |
| 22)DCB-Surrogate | 12.097 | 12.582 | 145750 | 566705 | 115.152 | 85.557 | # |
| 23)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 24)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 25)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 26)Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 27)Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 28)Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 29)Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 30)Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |

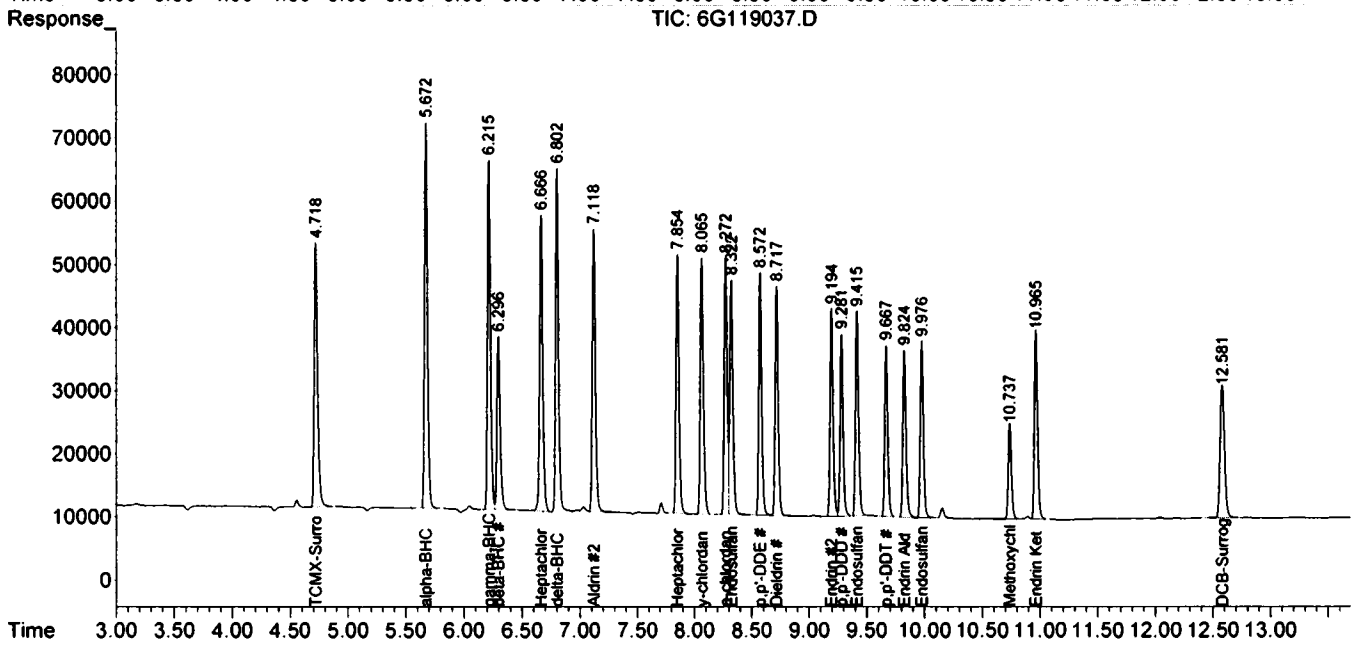
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 10:37
Operator : MS/MLC/AH
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:48:22 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:48:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 11:29
Operator : MS/MLC/AH
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:52:47 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:48:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

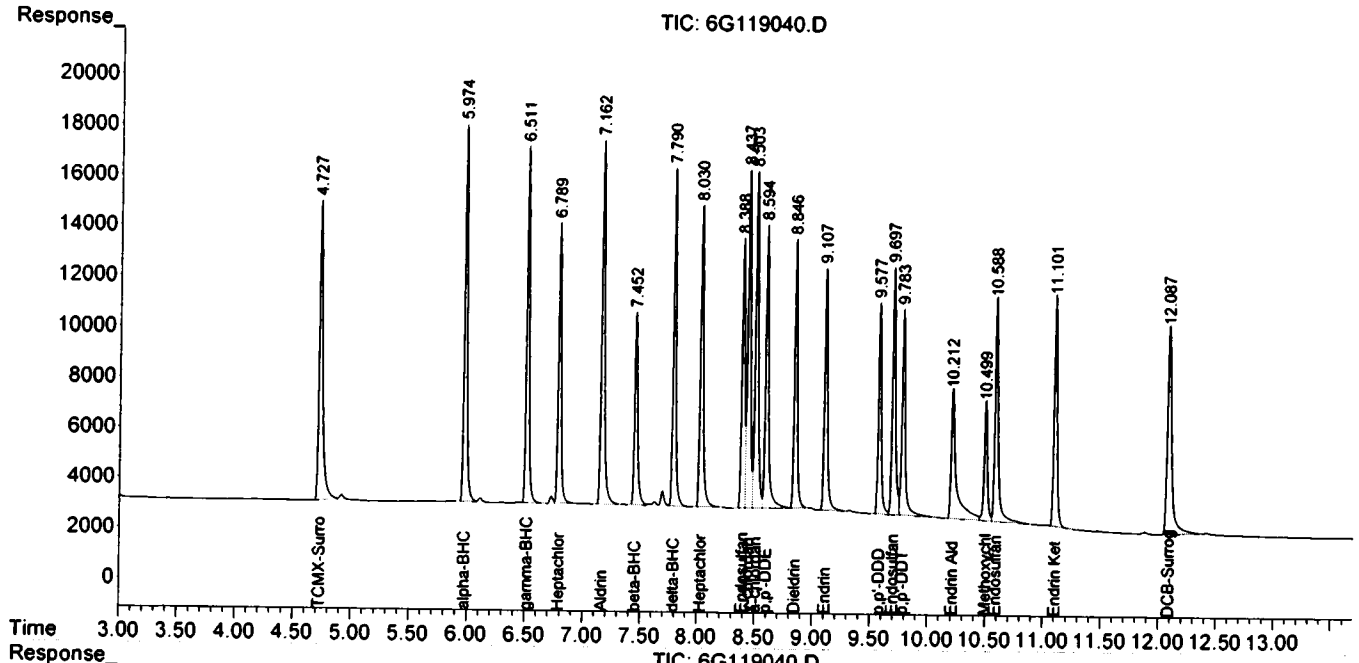
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 4.728 | 4.719 | 252577 | 1318411 | 139.858 | 109.720 | |
| 2)alpha-BHC | 5.975 | 5.673 | 251076 | 1780817 | 127.577 | 121.250 | |
| 3)gamma-BHC | 6.512 | 6.215 | 233562 | 1606041 | 129.718 | 117.723 | |
| 4)beta-BHC | 7.453 | 6.296 | 137902 | 846319 | 138.006 | 112.928 | |
| 5)Heptachlor | 6.790 | 6.666 | 192463 | 1410495 | 133.939 | 118.084 | |
| 6)delta-BHC | 7.790 | 6.802 | 222875 | 1577967 | 137.276 | 120.599 | |
| 7)Aldrin | 7.163 | 7.119 | 268178 | 1369234 | 141.865 | 116.057 | |
| 8)Heptachlor Epoxid | 8.030 | 7.853 | 220042 | 1232785 | 136.706 | 113.813 | |
| 9)y-chlordane | 8.437 | 8.064 | 252409 | 1263217 | 147.881 | 111.487 | |
| 10)a-chlordane | 8.504 | 8.272 | 255107 | 1167066 | 151.911 | 111.423 | # |
| 11)Endosulfan I | 8.389 | 8.321 | 181785 | 1176576 | 131.138 | 111.678 | |
| 12)p,p'-DDE | 8.595 | 8.572 | 217414 | 1125176 | 155.039 | 111.080 | # |
| 13)Dieldrin | 8.847 | 8.717 | 186505 | 1108904 | 137.715 | 113.308 | |
| 14)Endrin | 9.107 | 9.193 | 174687 | 989703 | 146.434 | 132.593 | |
| 15)p,p'-DDD | 9.577 | 9.280 | 144765 | 884005 | 155.784 | 114.135 | # |
| 16)Endosulfan II | 9.698 | 9.414 | 188189 | 1024248 | 144.947 | 115.274 | |
| 17)p,p'-DDT | 9.783 | 9.666 | 165132 | 818479 | 221.484 | 115.348 | # |
| 18)Endrin Aldehyde | 10.213 | 9.823 | 159300 | 836640 | 158.278 | 104.591 | # |
| 19)Endosulfan Sulfat | 10.589 | 9.975 | 183684 | 877558 | 174.751 | 115.758 | # |
| 20)Methoxychlor | 10.500 | 10.737 | 90938 | 475331 | 222.214 | 131.941 | # |
| 21)Endrin Ketone | 11.102 | 10.963 | 170058 | 957614 | 167.654 | 117.172 | # |
| 22)DCB-Surrogate | 12.088 | 12.579 | 222306 | 877874 | 175.636 | 132.534 | |
| 23)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 24)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 25)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 26)Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 27)Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 28)Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 29)Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 30)Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |

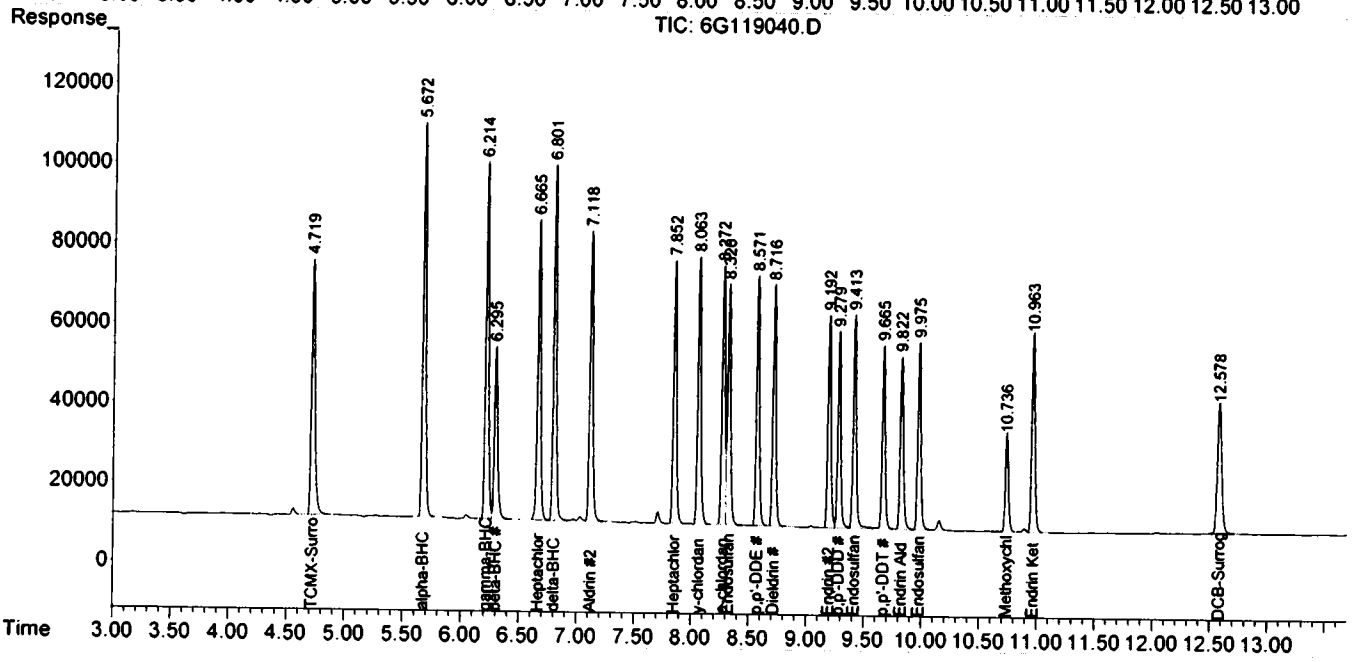
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 11:29
Operator : MS/MLC/AH
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:52:47 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:48:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 11:47
Operator : MS/MLC/AH
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:53:37 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:48:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

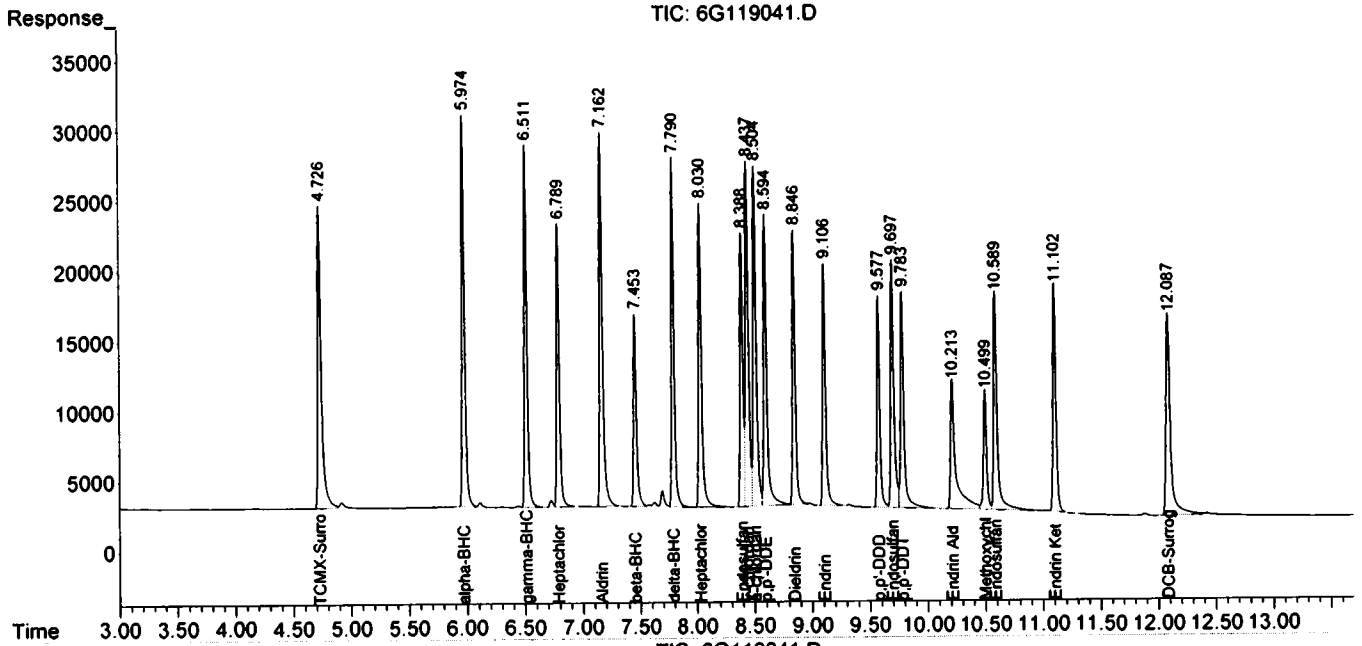
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 4.727 | 4.719 | 463852 | 2479700 | 256.846 | 206.365 | |
| 2)alpha-BHC | 5.975 | 5.673 | 460904 | 3527113 | 234.194 | 240.149 | |
| 3)gamma-BHC | 6.512 | 6.215 | 425532 | 3108398 | 236.335 | 227.847 | |
| 4)beta-BHC | 7.453 | 6.296 | 244984 | 1582622 | 245.170 | 211.176 | |
| 5)Heptachlor | 6.790 | 6.667 | 343716 | 2703640 | 267.399 | 226.344 | |
| 6)delta-BHC | 7.791 | 6.802 | 405465 | 3061181 | 249.740 | 233.956 | |
| 7)Aldrin | 7.163 | 7.120 | 501219 | 2649759 | 265.143 | 224.595 | |
| 8)Heptachlor Epoxid | 8.030 | 7.854 | 398448 | 2343123 | 247.545 | 216.322 | |
| 9)y-chlordane | 8.438 | 8.065 | 459034 | 2447540 | 268.939 | 216.010 | |
| 10)a-chlordane | 8.505 | 8.273 | 464550 | 2210288 | 276.630 | 211.022 | |
| 11)Endosulfan I | 8.389 | 8.322 | 325090 | 2295582 | 234.517 | 217.891 | |
| 12)p,p'-DDE | 8.595 | 8.573 | 402271 | 2223036 | 286.862 | 219.463 | |
| 13)Dieldrin | 8.846 | 8.718 | 335564 | 2163031 | 247.781 | 221.019 | |
| 14)Endrin | 9.107 | 9.194 | 310090 | 1917885 | 259.938 | 264.770 | |
| 15)p,p'-DDD | 9.577 | 9.281 | 257473 | 1709567 | 304.796 | 220.725 | # |
| 16)Endosulfan II | 9.698 | 9.415 | 337891 | 1977319 | 260.250 | 222.538 | |
| 17)p,p'-DDT | 9.784 | 9.667 | 311120 | 1640713 | 446.485 | 229.634 | # |
| 18)Endrin Aldehyde | 10.214 | 9.824 | 287214 | 1578231 | 306.509 | 197.299 | # |
| 19)Endosulfan Sulfat | 10.590 | 9.976 | 332988 | 1669732 | 316.793 | 220.253 | # |
| 20)Methoxychlor | 10.500 | 10.737 | 160293 | 898386 | 400.987 | 249.371 | # |
| 21)Endrin Ketone | 11.102 | 10.964 | 296529 | 1842178 | 292.337 | 234.938 | |
| 22)DCB-Surrogate | 12.087 | 12.580 | 395754 | 1607425 | 312.671 | 242.676 | |
| 23)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 24)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 25)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 26)Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 27)Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 28)Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 29)Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |
| 30)Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d | |

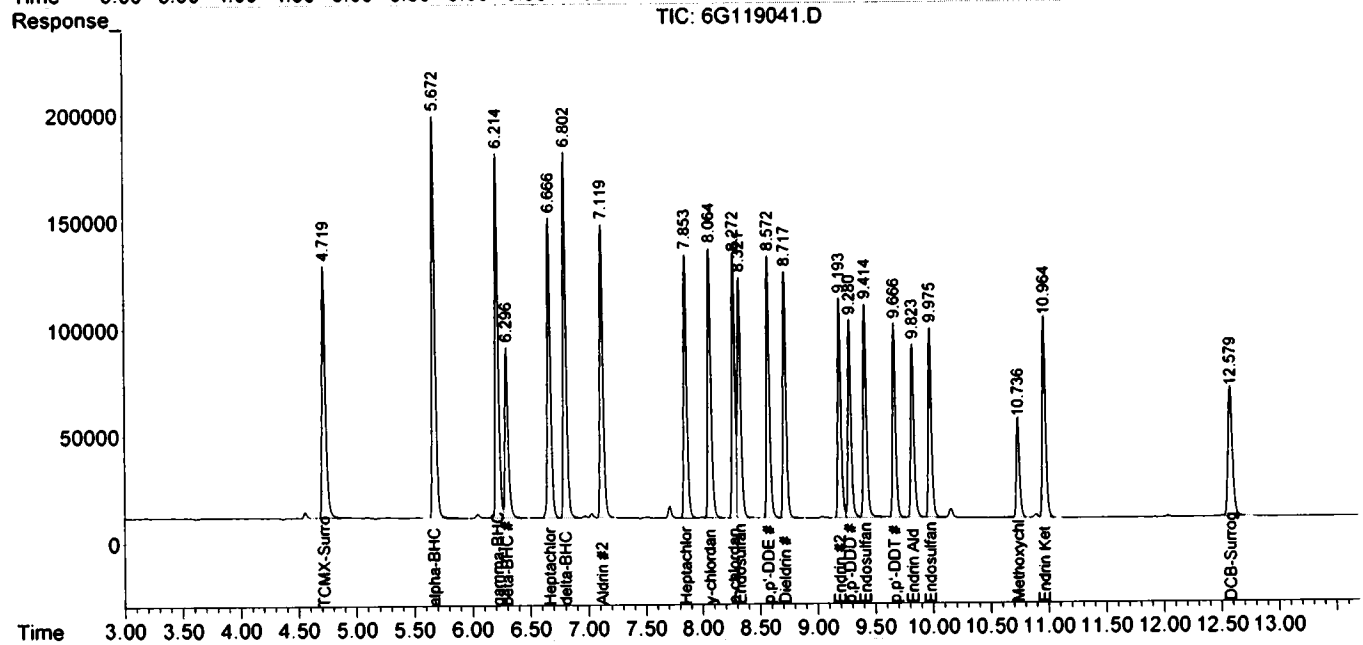
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 11:47
Operator : MS/MLC/AH
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:53:37 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:48:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 12:05
Operator : MS/MLC/AH
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:54:14 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:48:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

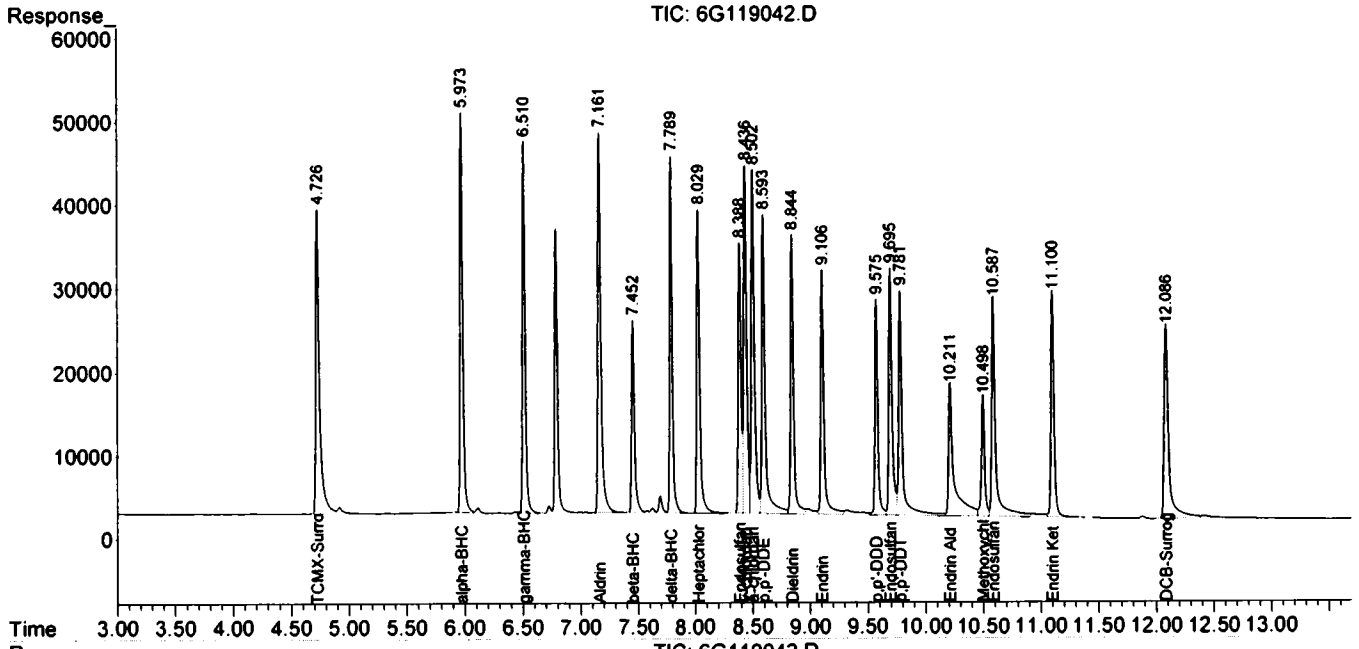
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 4.727 | 4.720 | 811137 | 4357137 | 449.146 | 362.608 |
| 2)alpha-BHC | 5.974 | 5.673 | 791363 | 6379575 | 402.107 | 434.364 |
| 3)gamma-BHC | 6.511 | 6.215 | 721135 | 5620703 | 400.510 | 411.999 |
| 4)beta-BHC | 7.452 | 6.296 | 406728 | 2774265 | 407.036 | 370.182 |
| 5)Heptachlor | 6.789 | 6.667 | 575088 | 4810483 | BelowCal | 402.725 |
| 6)delta-BHC | 7.789 | 6.802 | 685497 | 5558605 | 422.222 | 424.826 |
| 7)Aldrin | 7.162 | 7.119 | 870318 | 4780297 | 460.395 | 405.180 |
| 8)Heptachlor Epoxid | 8.029 | 7.853 | 671153 | 4151407 | 416.969 | 383.266 |
| 9)y-chlordane | 8.436 | 8.064 | 787176 | 4445804 | 461.190 | 392.369 |
| 10)a-chlordane | 8.503 | 8.272 | 798993 | 3946528 | 475.784 | 376.786 |
| 11)Endosulfan I | 8.388 | 8.321 | 545670 | 4132907 | 393.640 | 392.286 |
| 12)p,p'-DDE | 8.594 | 8.571 | 740689 | 4077836 | 528.190 | 402.573 |
| 13)Dieldrin | 8.845 | 8.717 | 612509 | 3937155 | 452.277 | 402.300 |
| 14)Endrin | 9.107 | 9.193 | 567297 | 3484449 | 475.546 | 509.832 |
| 15)p,p'-DDD | 9.576 | 9.280 | 450117 | 3102543 | 791.726 | 400.574 # |
| 16)Endosulfan II | 9.696 | 9.414 | 576260 | 3561721 | 443.847 | 400.854 |
| 17)p,p'-DDT | 9.782 | 9.666 | 605090 | 3071790 | 1082.347 | 424.933 # |
| 18)Endrin Aldehyde | 10.212 | 9.823 | 524245 | 2797129 | 693.658 | 349.677 # |
| 19)Endosulfan Sulfat | 10.588 | 9.975 | 626491 | 3019165 | 596.022 | 398.256 # |
| 20)Methoxychlor | 10.499 | 10.736 | 279843 | 1614745 | 732.271 | 448.215 # |
| 21)Endrin Ketone | 11.101 | 10.963 | 515132 | 3306095 | 507.851 | 458.425 |
| 22)DCB-Surrogate | 12.087 | 12.579 | 658071 | 2813102 | 519.919 | 424.700 |
| 23)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

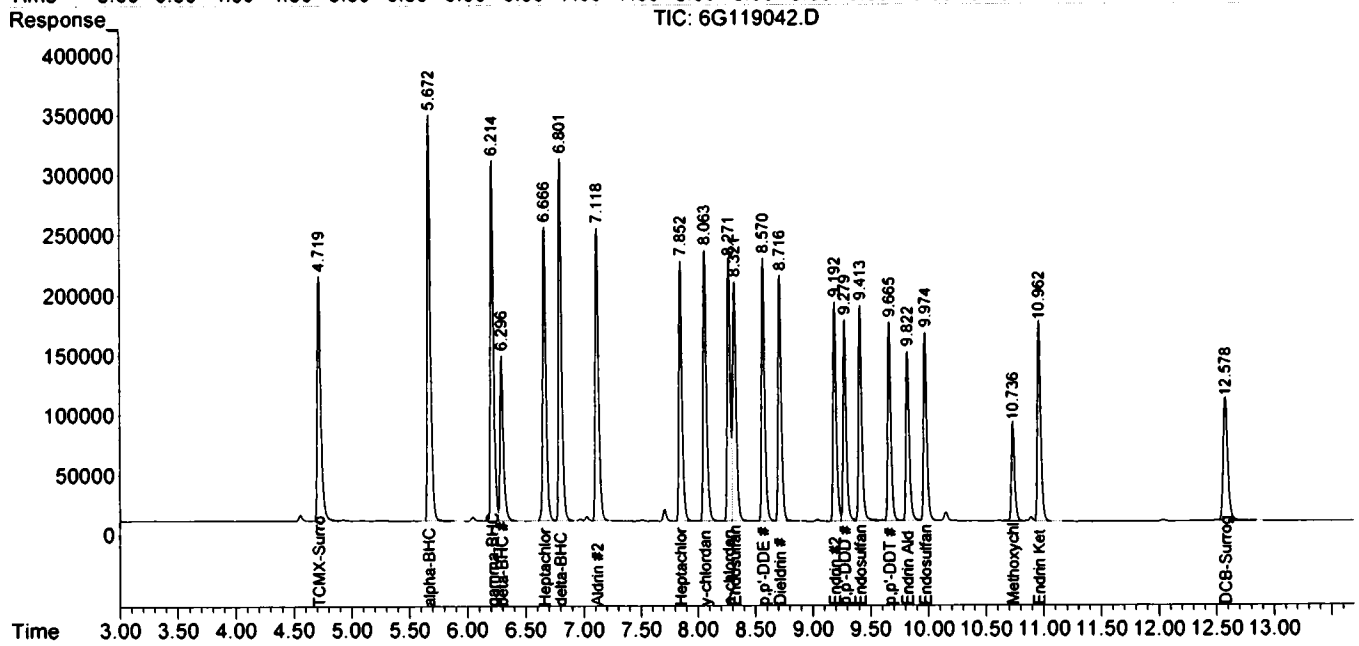
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 12:05
Operator : MS/MLC/AH
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:54:14 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:48:14 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 12:22
Operator : MS/MLC/AH
Sample : CAL CHLOR@100PPB
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:55:35 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:55:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

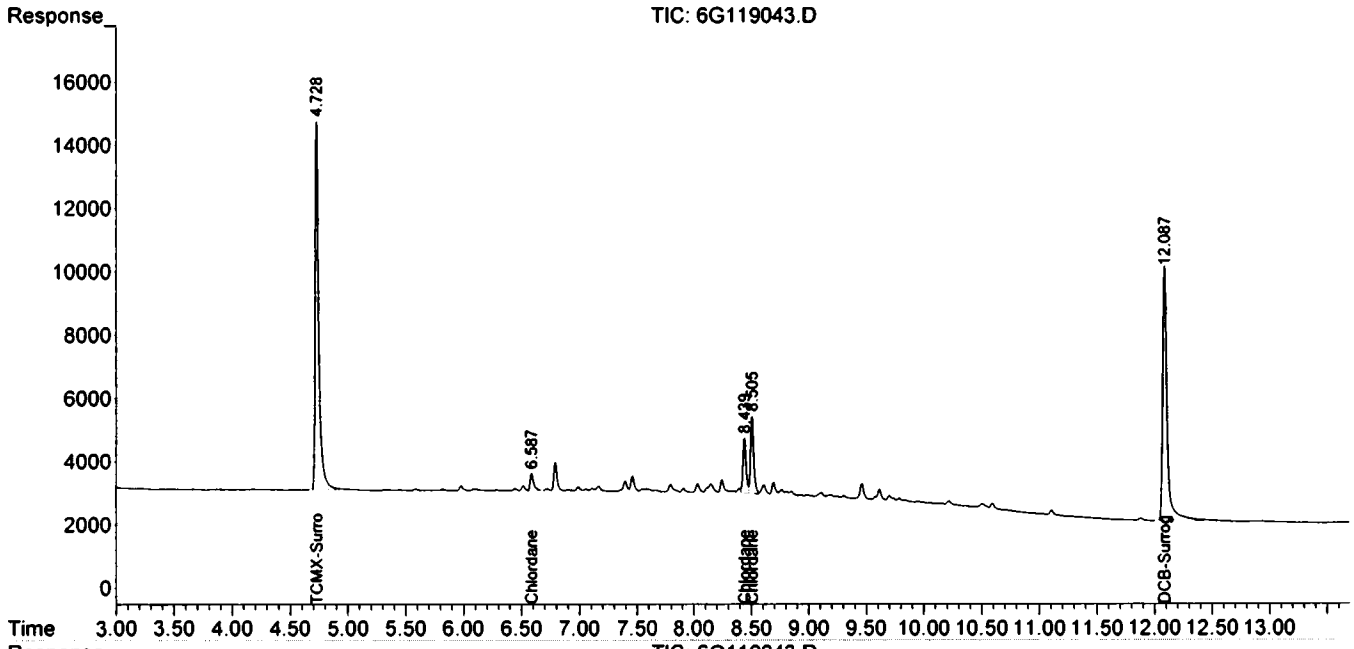
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 4.728 | 4.720 | 249027 | 1320433 | 137.893 | 109.889 |
| 2)alpha-BHC | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 3)gamma-BHC | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 4)beta-BHC | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 5)Heptachlor | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 6)delta-BHC | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 7)Aldrin | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8)Heptachlor Epoxid | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 9)y-chlordane | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 10)a-chlordane | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 11)Endosulfan I | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 12)p,p'-DDE | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Dieldrin | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Endrin | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)p,p'-DDD | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Endosulfan II | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)p,p'-DDT | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Endrin Aldehyde | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Endosulfan Sulfat | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Methoxychlor | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Endrin Ketone | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)DCB-Surrogate | 12.088 | 12.580 | 214908 | 838270 | 169.792 | 126.555 # |
| 23)Chlordane (Techni | 6.588 | 6.453 | 11135 | 62415 | 135.946 | 127.946 |
| 24)Chlordane (Techni | 8.439 | 8.064 | 33522 | 269850 | 145.560 | 201.772m# |
| 25)Chlordane (Techni | 8.506 | 8.273 | 47384 | 138788 | 149.020 | 130.990 |
| 26)Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

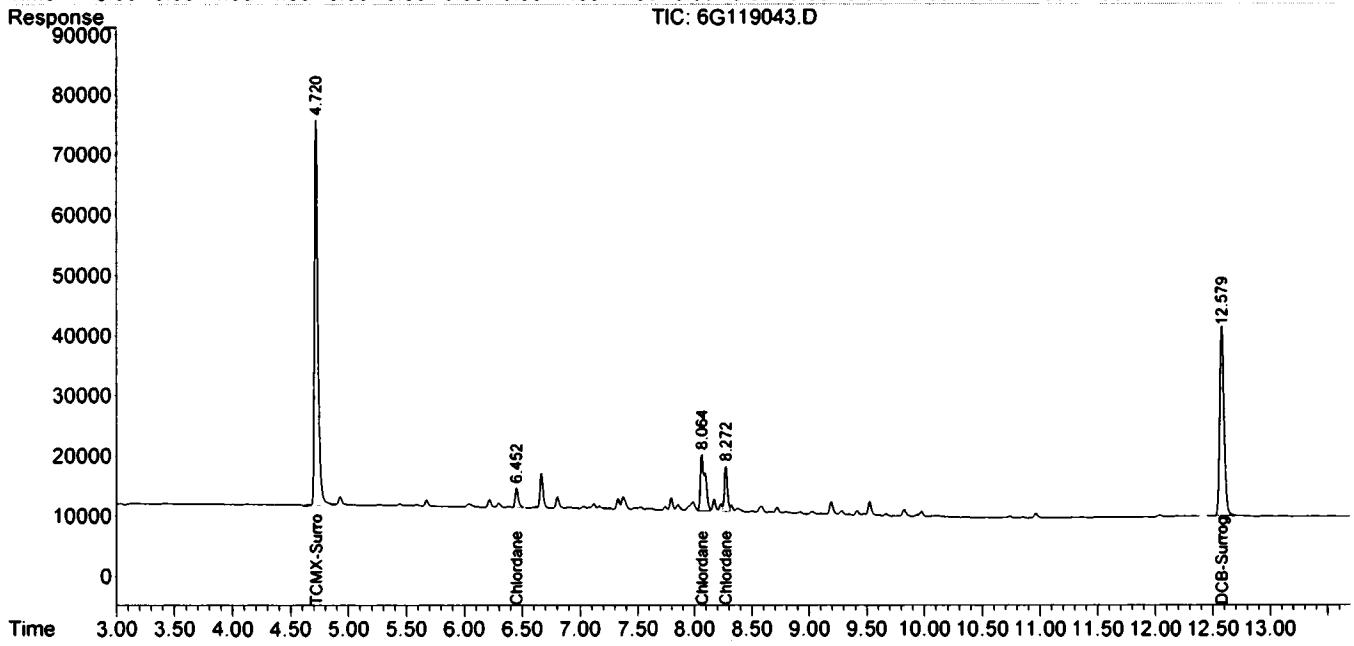
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 12:22
Operator : MS/MLC/AH
Sample : CAL CHLOR@100PPB
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:55:35 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 12:55:15 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_6\Data\09-09-21\
Data File : 6G119044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 13:50
Operator : MS/MLC/AH
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:02:44 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 17:37:01 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

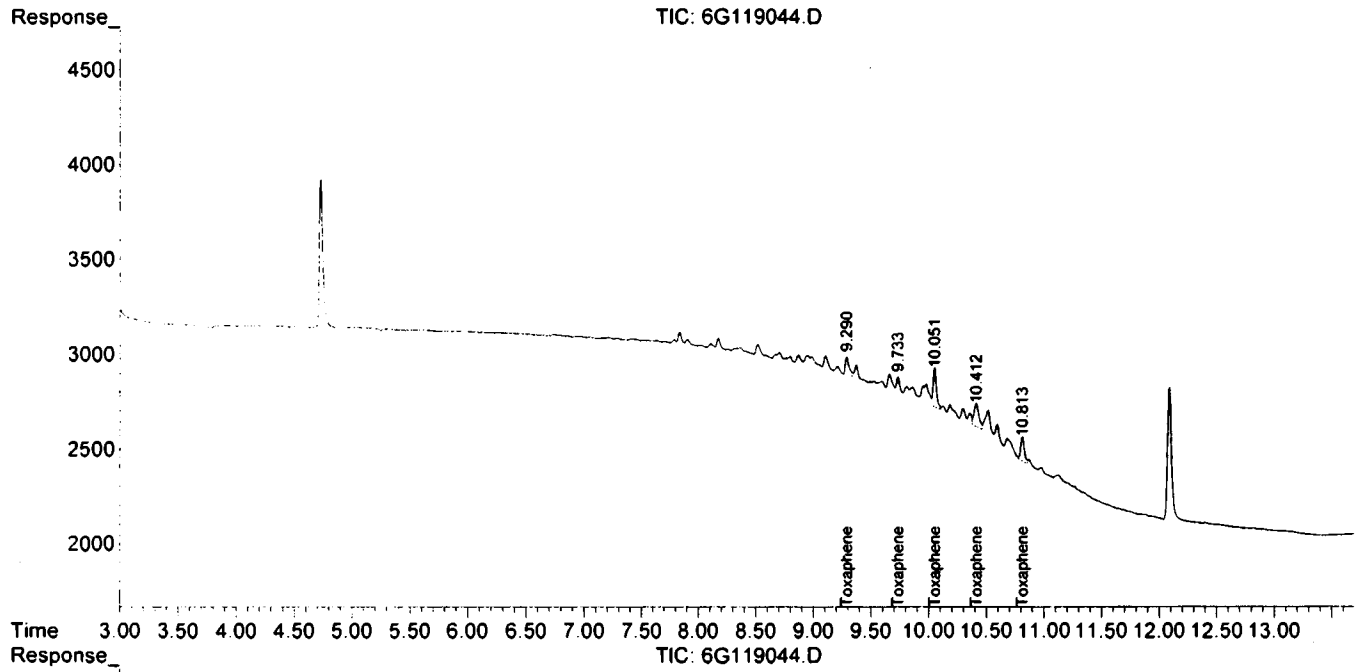
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 26)Toxaphene {1} | 9.290 | 8.881 | 2324 | 13148 | 93.841m | 146.068 # |
| 27)Toxaphene {2} | 9.733 | 9.457 | 1464 | 21460 | 131.336m | 137.280 |
| 28)Toxaphene {3} | 10.051 | 9.983 | 4191 | 13142 | 147.989m | 77.651m# |
| 29)Toxaphene {4} | 10.412 | 10.467 | 3612 | 12154 | 168.864m | 64.233m# |
| 30)Toxaphene {5} | 10.813 | 10.546 | 2838 | 22061 | 100.647m | 141.994 # |

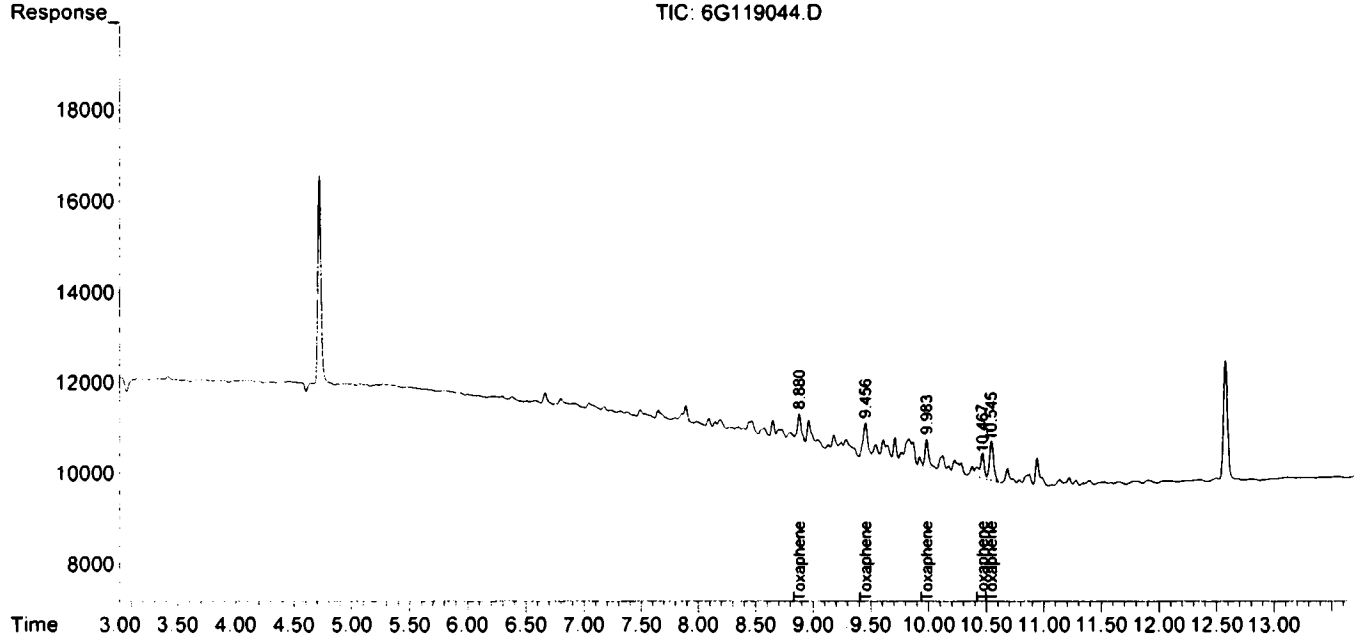
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2021\GC_6\Data\09-09-21\
Data File : 6G119044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 13:50
Operator : MS/MLC/AH
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:02:44 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 17:37:01 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\GCDATA\2021\GC_6\DATA\09-09-21\
Data File : 6G119045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 14:11
Operator : MS/MLC/AH
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:02:54 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 17:37:01 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

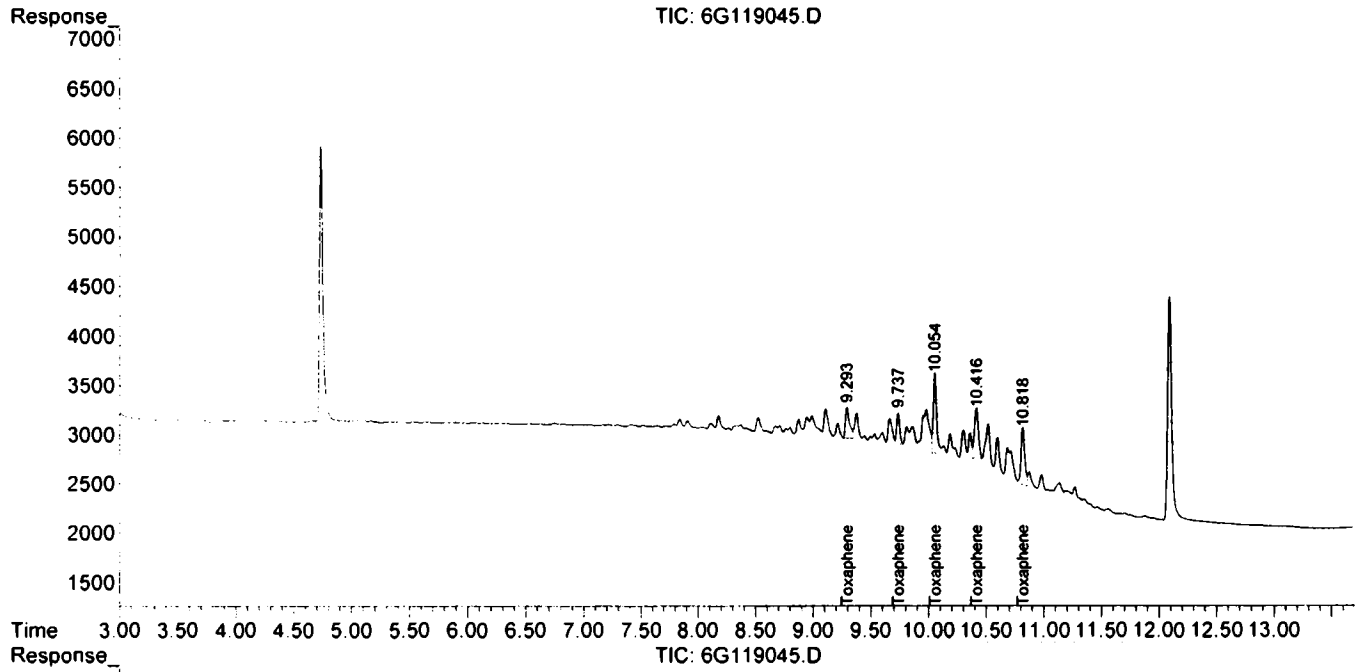
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 26)Toxaphene (1) | 9.293 | 8.883 | 7704 | 42952 | 311.131m | 477.172m# |
| 27)Toxaphene (2) | 9.737 | 9.460 | 5744 | 64663 | 515.175m | 413.645m |
| 28)Toxaphene (3) | 10.054 | 9.986 | 16524 | 53573 | 583.422m | 316.543m# |
| 29)Toxaphene (4) | 10.416 | 10.470 | 12438 | 56493 | 581.571m | 298.565 # |
| 30)Toxaphene (5) | 10.818 | 10.547 | 13251 | 96913 | 469.874 | 607.695 # |

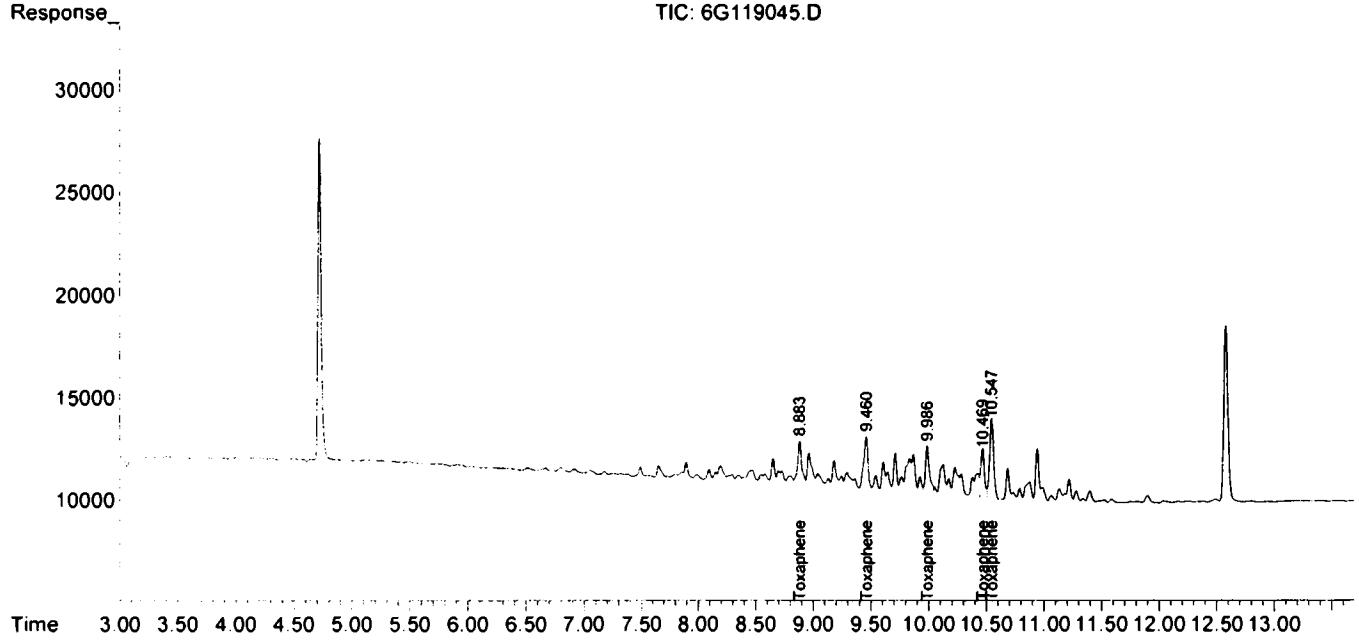
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2021\GC_6\DATA\09-09-21\
Data File : 6G119045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 14:11
Operator : MS/MLC/AH
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:02:54 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 17:37:01 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\GCDATA\2021\GC_6\DATA\09-09-21\
Data File : 6G119046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 14:28
Operator : MS/MLC/AH
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:03:04 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 17:37:01 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

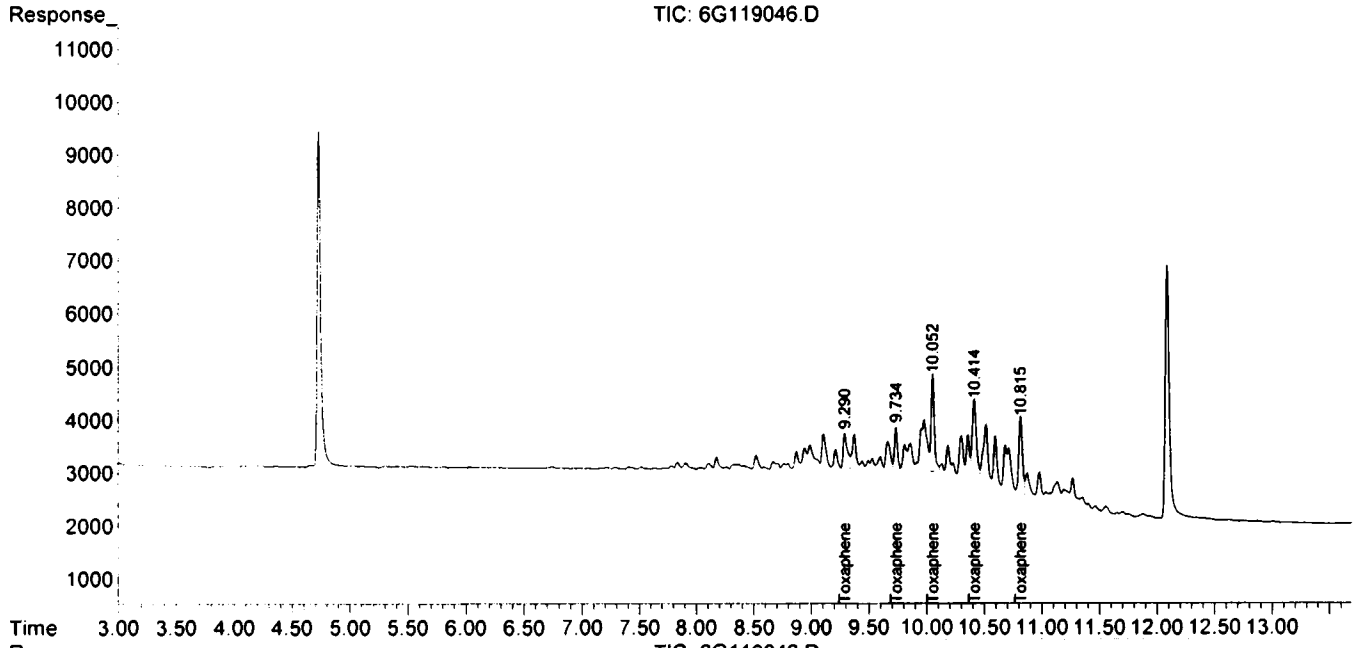
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 26)Toxaphene {1} | 9.290 | 8.882 | 17666 | 108339 | 713.443m | 1203.587m# |
| 27)Toxaphene {2} | 9.734 | 9.460 | 13855 | 146880 | 1242.681m | 939.587m |
| 28)Toxaphene {3} | 10.052 | 9.986 | 35973 | 122250 | 1270.117m | 722.333m# |
| 29)Toxaphene {4} | 10.414 | 10.468 | 35775 | 139123 | 1672.686m | 735.264m# |
| 30)Toxaphene {5} | 10.815 | 10.547 | 33407 | 261150 | 1184.599m | 1555.885m# |

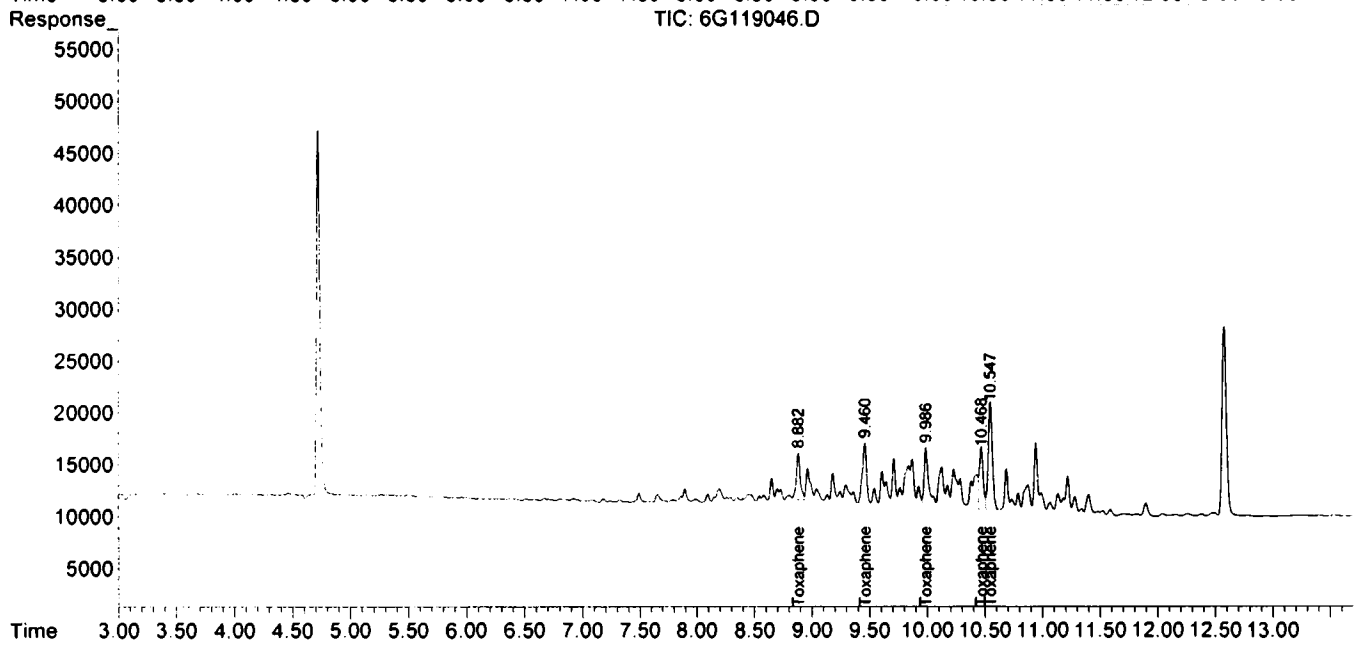
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2021\GC_6\DATA\09-09-21\
Data File : 6G119046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 14:28
Operator : MS/MLC/AH
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:03:04 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 17:37:01 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\GCDATA\2021\GC_6\DATA\09-09-21\
Data File : 6G119047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 14:46
Operator : MS/MLC/AH
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:03:19 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 17:37:01 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

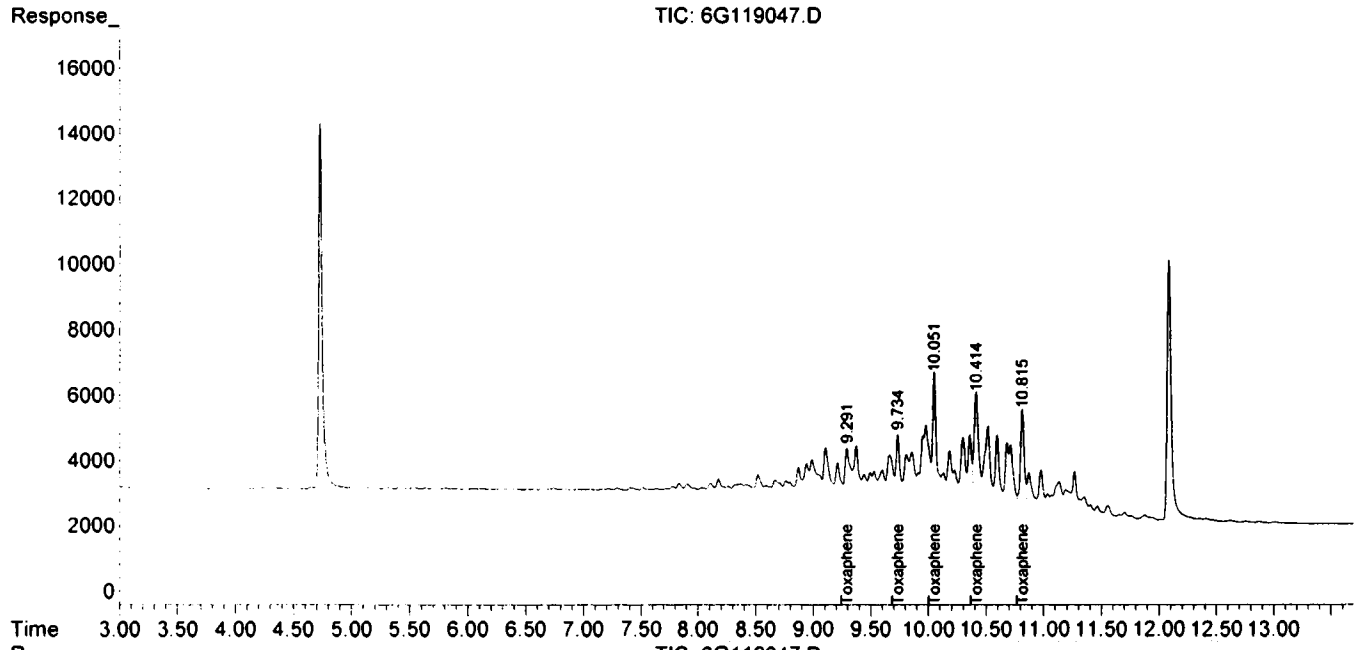
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 26)Toxaphene {1} | 9.291 | 8.882 | 28880 | 194707 | 1166.353m | 2163.083m# |
| 27)Toxaphene {2} | 9.734 | 9.460 | 24683 | 264503 | 2213.974m | 1692.020m |
| 28)Toxaphene {3} | 10.051 | 9.986 | 63137 | 223467 | 2229.243m | 1320.386m# |
| 29)Toxaphene {4} | 10.414 | 10.468 | 68064 | 270495 | 3182.387m | 1429.562m# |
| 30)Toxaphene {5} | 10.815 | 10.548 | 59154 | 517930 | 2097.567m | 2884.220m# |

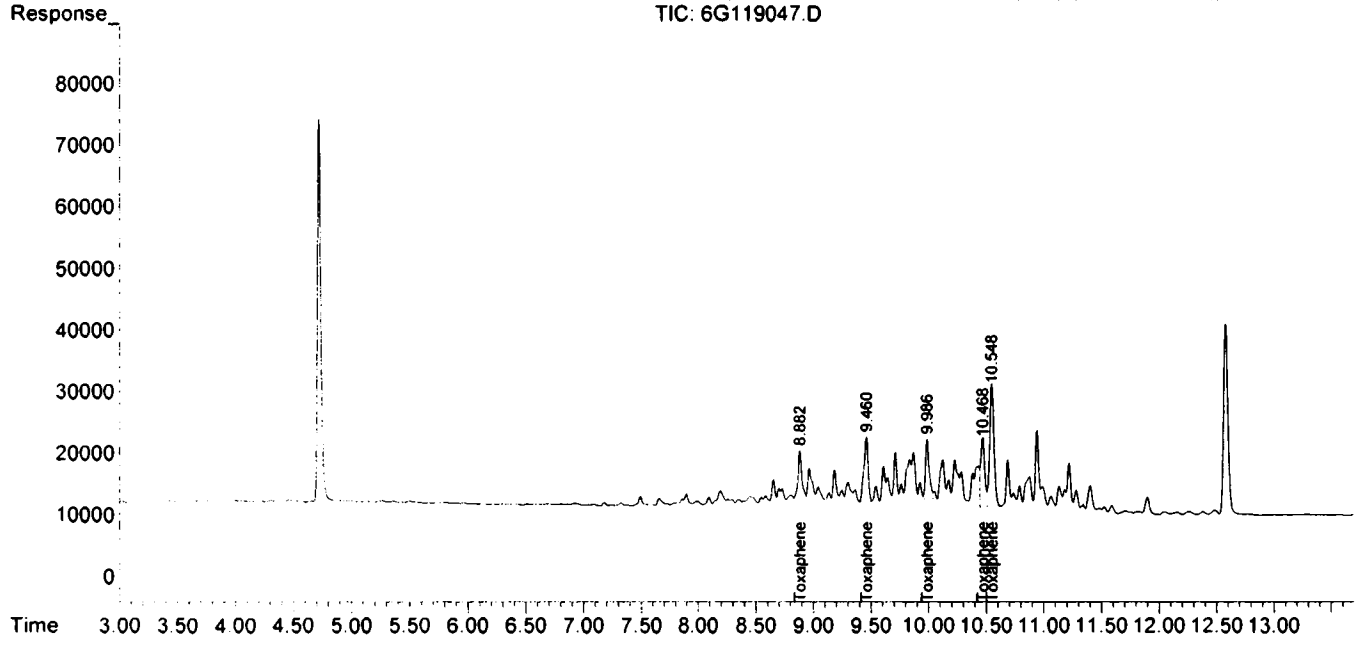
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2021\GC_6\DATA\09-09-21\
Data File : 6G119047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 14:46
Operator : MS/MLC/AH
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:03:19 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 17:37:01 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\GCDATA\2021\GC_6\DATA\09-09-21\
Data File : 6G119048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 15:04
Operator : MS/MLC/AH
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:03:31 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 17:37:01 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 26)Toxaphene {1} | 9.290 | 8.883 | 52369 | 376962 | 2114.973m | 4187.834m# |
| 27)Toxaphene {2} | 9.734 | 9.461 | 45615 | 508431 | 4091.482m | 3252.421m |
| 28)Toxaphene {3} | 10.051 | 9.987 | 108412 | 425358 | 3827.783m | 2513.281m# |
| 29)Toxaphene {4} | 10.414 | 10.468 | 129456 | 532665 | 6052.814m | 2815.124m# |
| 30)Toxaphene {5} | 10.815 | 10.548 | 104682 | 1047426 | 3711.973m | 5229.783m# |

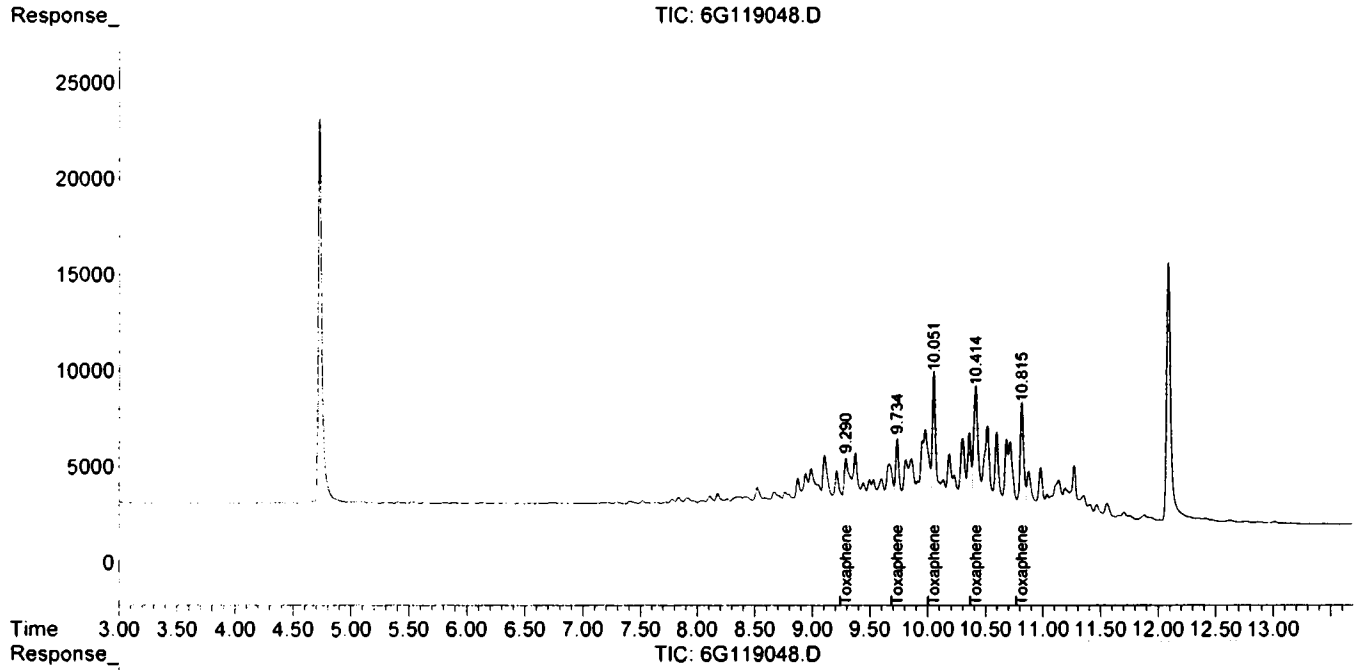
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

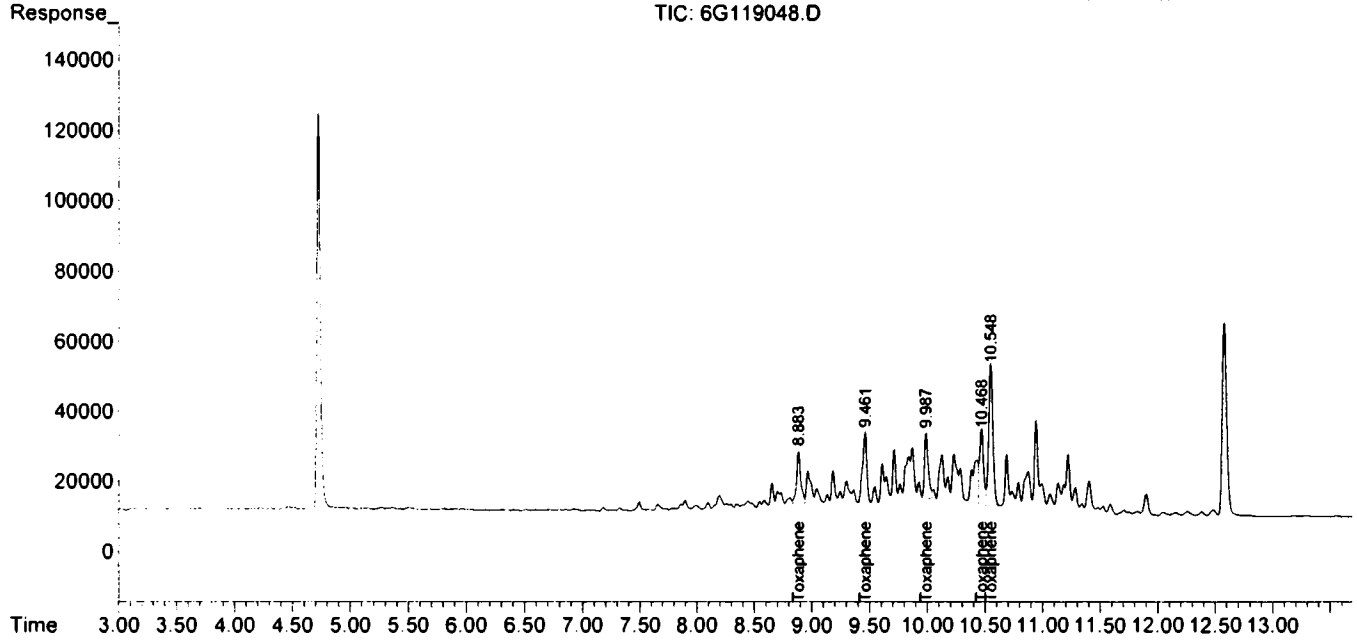
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_6\DATA\09-09-21\
Data File : 6G119048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 15:04
Operator : MS/MLC/AH
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:03:31 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 17:37:01 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\GCDATA\2021\GC_6\DATA\09-09-21\
Data File : 6G119049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 15:21
Operator : MS/MLC/AH
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:02:22 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 17:37:01 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

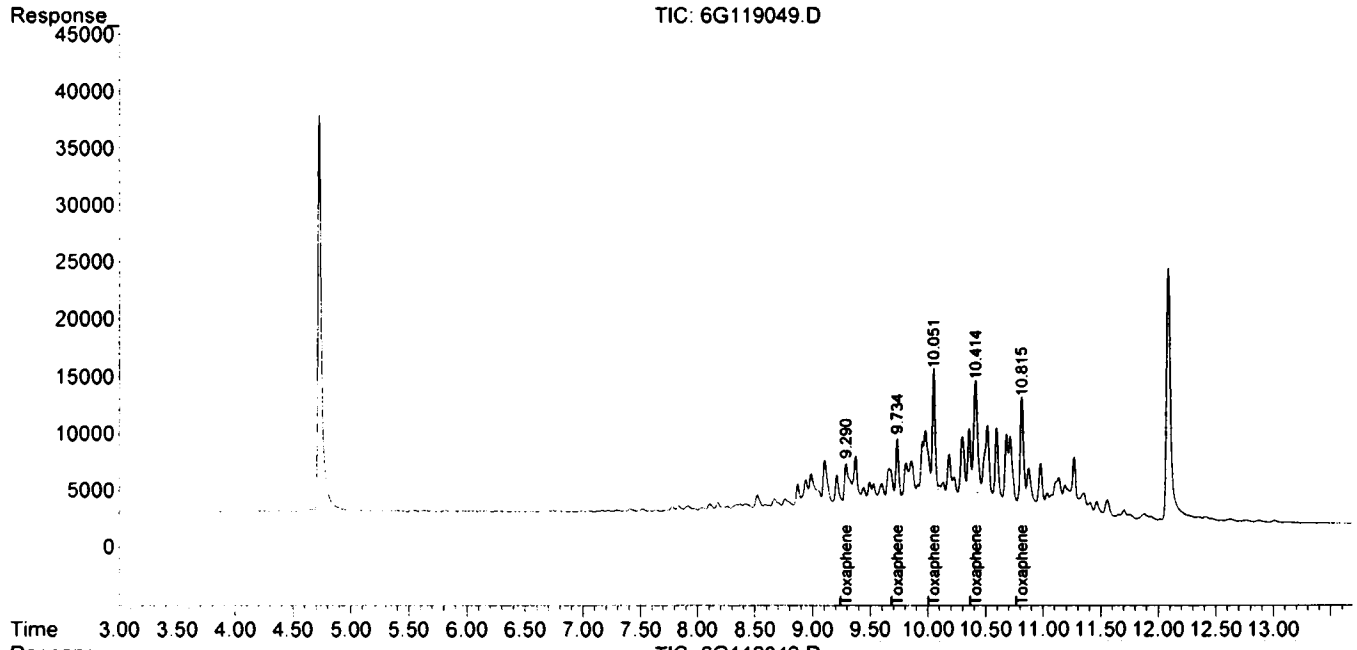
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 26)Toxaphene {1} | 9.290 | 8.884 | 87818 | 691163 | 3546.618m | 7678.414m# |
| 27)Toxaphene {2} | 9.734 | 9.462 | 81766 | 952436 | 7333.983m | 6092.713m |
| 28)Toxaphene {3} | 10.051 | 9.987 | 184316 | 818218 | 6507.801m | 4834.550m# |
| 29)Toxaphene {4} | 10.414 | 10.469 | 237279 | 1005152 | 11094.164m | 5312.211m# |
| 30)Toxaphene {5} | 10.815 | 10.549 | 179456 | 2042687 | 6363.403m | 8809.197m# |

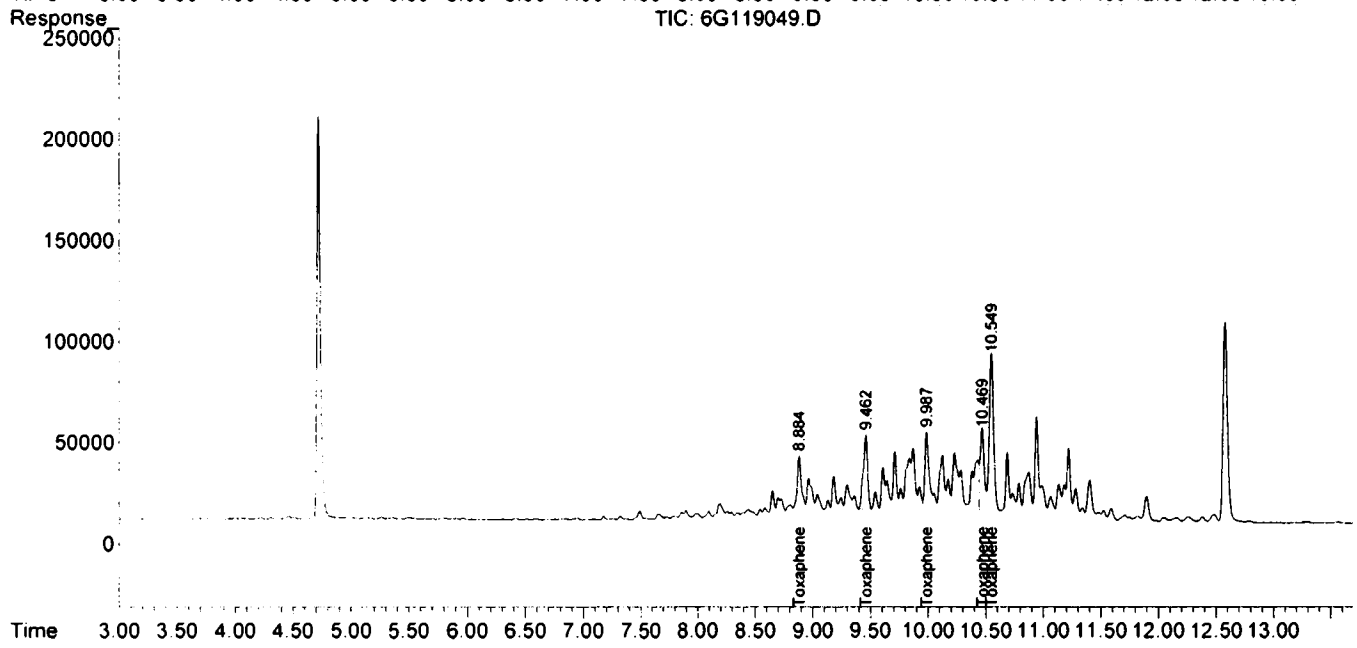
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2021\GC_6\DATA\09-09-21\
Data File : 6G119049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 15:21
Operator : MS/MLC/AH
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:02:22 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 17:37:01 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_6\DATA\09-09-21\
Data File : 6G119052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 16:58
Operator : MS/MLC/AH
Sample : TOX V
Misc : S,PEST
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:12:57 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

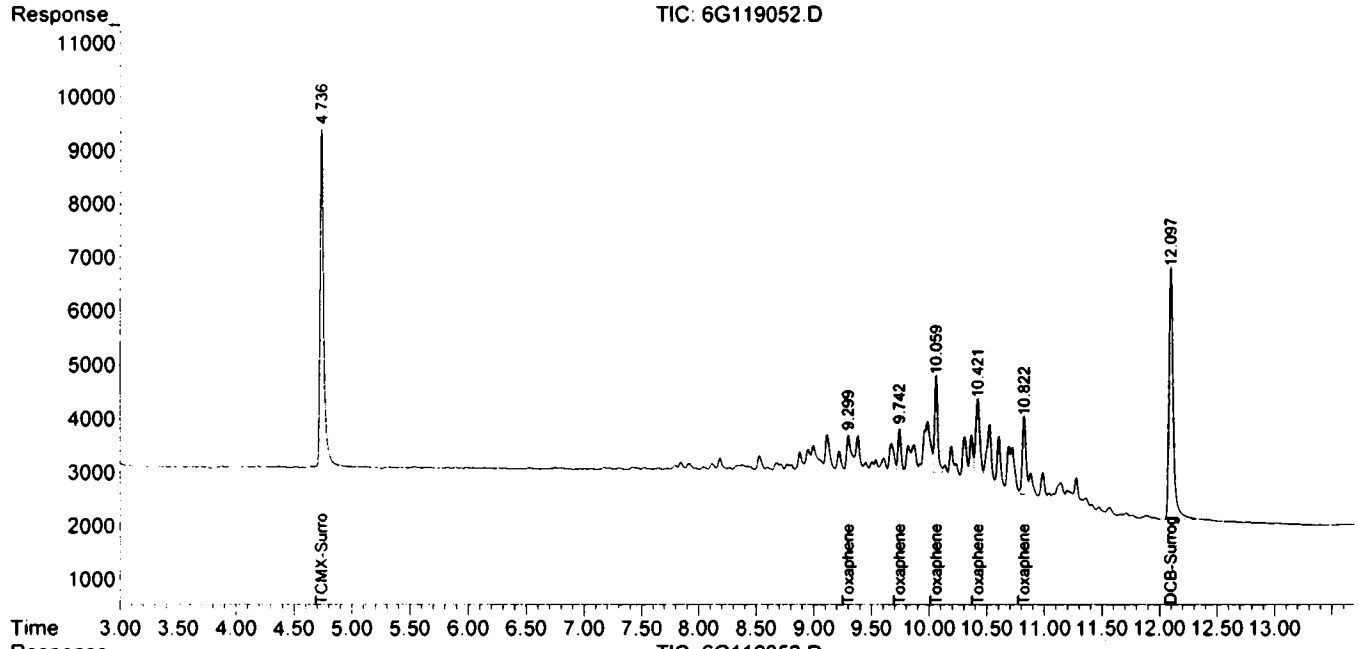
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 4.737 | 4.721 | 134047 | 719516 | 50.737 | 49.450 |
| 22)DCB-Surrogate | 12.098 | 12.582 | 120758 | 486438 | 51.710 | 53.112 |
| 26)Toxaphene {1} | 9.299 | 8.884 | 16308 | 114046 | 537.792m | 547.255m |
| 27)Toxaphene {2} | 9.742 | 9.462 | 13122 | 153774 | 512.444m | 567.952m |
| 28)Toxaphene {3} | 10.059 | 9.987 | 36189 | 126308 | 570.128m | 535.240m |
| 29)Toxaphene {4} | 10.421 | 10.470 | 35434 | 145212 | 534.070m | 547.314m |
| 30)Toxaphene {5} | 10.823 | 10.548 | 31904 | 267199 | 552.939 | 534.328m |

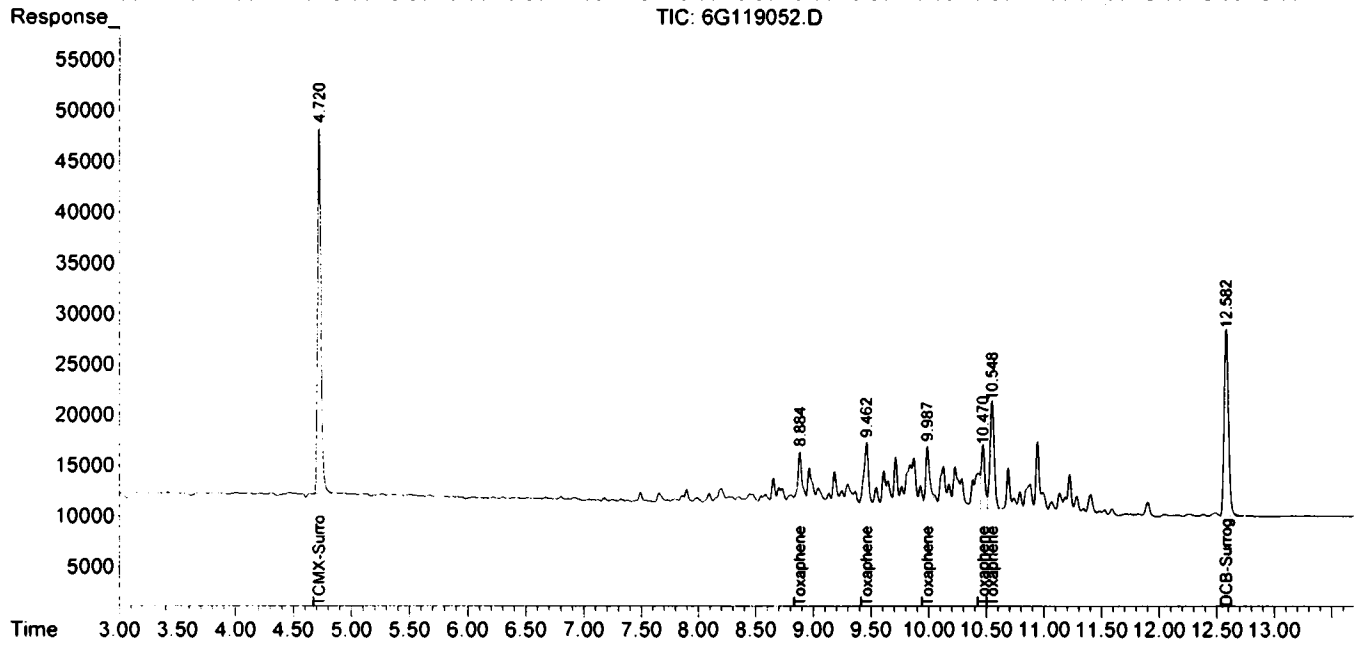
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2021\GC_6\DATA\09-09-21\
Data File : 6G119052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 16:58
Operator : MS/MLC/AH
Sample : TOX V
Misc : S,PEST
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:12:57 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



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# Form 6
## Initial Calibration

Method: EPA 8081B

Instrument: GC_5

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|
| 1 | 5G98075.D | CAL PEST@2PPB | 09/09/21 14:35 |
| 2 | 5G98076.D | CAL PEST@10PPB | 09/09/21 14:53 |
| 3 | 5G98074.D | CAL PEST@50PPB | 09/09/21 14:16 |
| 4 | 5G98077.D | CAL PEST@100PPB | 09/09/21 15:11 |
| 5 | 5G98078.D | CAL PEST@200PPB | 09/09/21 15:29 |
| 6 | 5G98079.D | CAL PEST@400PPB | 09/09/21 15:47 |
| 7 | 5G98080.D | CAL CHLOR@100PP | 09/09/21 16:06 |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | AvgRf | RT | Corr1 | Corr2 | %Rsd | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCMX-Surrogate | 1 | 0 | Avg | 239.90 | 154.96 | 235.11 | 173.49 | 176.65 | 171.09 | ---- | ---- | 192 | 6.05 | 0.998 | 0.998 | 19 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| alpha-BHC | 1 | 0 | Avg | 349.13 | 307.06 | 340.53 | 276.24 | 285.39 | 274.41 | ---- | ---- | 305 | 7.27 | 0.999 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| gamma-BHC | 1 | 0 | Avg | 202.18 | 228.95 | 318.23 | 245.39 | 253.83 | 248.09 | ---- | ---- | 249 | 7.79 | 0.998 | 0.999 | 15 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| beta-BHC | 1 | 0 | Avg | 105.78 | 108.09 | 134.65 | 106.30 | 109.64 | 98.063 | ---- | ---- | 110 | 8.65 | 0.995 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Heptachlor | 1 | 0 | Avg | 125.83 | 117.79 | 180.69 | 139.18 | 145.93 | 133.32 | ---- | ---- | 140 | 8.10 | 0.996 | 0.998 | 16 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| delta-BHC | 1 | 0 | Avg | 208.42 | 216.73 | 282.44 | 230.99 | 238.92 | 227.73 | ---- | ---- | 234 | 8.97 | 0.999 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Aldrin | 1 | 0 | Avg | 219.01 | 215.71 | 276.41 | 221.76 | 227.44 | 209.03 | ---- | ---- | 228 | 8.46 | 0.997 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Heptachlor Epoxide | 1 | 0 | Avg | 178.97 | 187.27 | 240.40 | 194.09 | 199.15 | 180.58 | ---- | ---- | 197 | 9.25 | 0.996 | 0.999 | 12 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| v-chlordane | 1 | 0 | Avg | 214.35 | 194.77 | 249.60 | 205.93 | 210.78 | 196.55 | ---- | ---- | 212 | 9.63 | 0.998 | 0.999 | 9.4 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| a-chlordane | 1 | 0 | Avg | 215.05 | 190.64 | 238.28 | 195.07 | 201.92 | 187.55 | ---- | ---- | 205 | 9.70 | 0.998 | 0.999 | 9.3 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endosulfan I | 1 | 0 | Avg | 160.25 | 147.58 | 194.79 | 157.37 | 167.75 | 154.99 | ---- | ---- | 164 | 9.60 | 0.998 | 0.999 | 10 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| p,p'-DDE | 1 | 0 | Avg | 183.12 | 192.46 | 233.62 | 193.68 | 204.47 | 189.05 | ---- | ---- | 199 | 9.80 | 0.998 | 0.999 | 9.1 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Dieldrin | 1 | 0 | Avg | 188.00 | 178.62 | 225.56 | 186.48 | 191.50 | 178.62 | ---- | ---- | 191 | 10.02 | 0.998 | 0.999 | 9.1 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endrin | 1 | 0 | Avg | 150.61 | 157.71 | 213.29 | 167.37 | 173.32 | 164.93 | ---- | ---- | 171 | 10.26 | 0.998 | 0.999 | 13 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| p,p'-DDD | 1 | 0 | Avg | 148.52 | 142.14 | 175.50 | 145.36 | 149.85 | 143.60 | ---- | ---- | 151 | 10.68 | 0.999 | 0.999 | 8.2 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endosulfan II | 1 | 0 | Avg | 161.10 | 154.30 | 200.25 | 166.15 | 172.21 | 162.90 | ---- | ---- | 169 | 10.78 | 0.999 | 0.999 | 9.5 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| p,p'-DDT | 1 | 0 | LinF | 35.443 | 54.284 | 115.66 | 101.76 | 118.51 | 121.28 | ---- | ---- | 91.2 | 10.89 | 0.999 | 0.999 | 41 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endrin Aldehyde | 1 | 0 | Avg | 92.315 | 109.42 | 132.24 | 123.21 | 128.49 | 120.81 | ---- | ---- | 118 | 11.23 | 0.999 | 1.00 | 12 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endosulfan Sulfate | 1 | 0 | Avg | 114.50 | 122.05 | 161.52 | 137.75 | 143.32 | 135.81 | ---- | ---- | 136 | 11.57 | 0.999 | 0.999 | 12 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Methoxychlor | 1 | 0 | LinF | 18.543 | 27.199 | 54.863 | 47.675 | 55.385 | 56.134 | ---- | ---- | 43.3 | 11.54 | 0.999 | 0.999 | 38 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endrin Ketone | 1 | 0 | Avg | 107.28 | 117.52 | 156.83 | 134.24 | 143.88 | 141.00 | ---- | ---- | 133 | 12.06 | 0.999 | 0.999 | 14 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| DCB-Surrogate | 1 | 0 | Avg | 106.97 | 101.48 | 131.50 | 107.77 | 113.58 | 108.51 | ---- | ---- | 112 | 13.00 | 0.999 | 0.999 | 9.4 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Chlordane (Technical) | 1 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 7.96 | 7.90 | -1 | -1 | Lvl=7 | 100.0 | | | | | | | |
| Chlordane (Technical) | 1 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 19.2 | 9.63 | -1 | -1 | Lvl=7 | 100.0 | | | | | | | |
| Chlordane (Technical) | 1 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 26.6 | 9.70 | -1 | -1 | Lvl=7 | 100.0 | | | | | | | |
| Toxaphene | 1 | 1 | Avg | 0.5340 | 0.4116 | 0.6742 | 0.5356 | 0.5852 | 0.6474 | ---- | ---- | 0.565 | 10.06 | 0.996 | 0.999 | 17 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 1 | 2 | Avg | 0.8746 | 1.2257 | 1.3511 | 1.3011 | 1.3877 | 1.4560 | ---- | ---- | 1.27 | 10.51 | 0.999 | 1.00 | 16 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 1 | 3 | Avg | 1.9955 | 2.8148 | 3.1023 | 3.0078 | 3.0647 | 3.1714 | ---- | ---- | 2.86 | 11.14 | 1.00 | 1.00 | 15 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 1 | 4 | Avg | 1.6475 | 1.6640 | 1.8512 | 1.8437 | 2.0393 | 2.2200 | ---- | ---- | 1.88 | 11.56 | 0.998 | 1.00 | 12 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 1 | 5 | Avg | 0.0945 | 0.4739 | 0.8517 | 1.1643 | 1.4537 | 1.7914 | ---- | ---- | 0.972 | 11.85 | 0.990 | 1.00 | 65 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| TCMX-Surrogate | 2 | 0 | Avg | 74.051 | 87.208 | 118.75 | 88.043 | 87.657 | 78.929 | ---- | ---- | 89.1 | 6.02 | 0.994 | 0.998 | 18 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| alpha-BHC | 2 | 0 | Avg | 120.93 | 123.29 | 163.80 | 130.14 | 135.96 | 125.39 | ---- | ---- | 133 | 7.03 | 0.997 | 0.999 | 12 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| gamma-BHC | 2 | 0 | Avg | 89.696 | 104.39 | 144.22 | 111.84 | 114.70 | 106.26 | ---- | ---- | 112 | 7.56 | 0.997 | 0.999 | 16 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| beta-BHC | 2 | 0 | LinF | 35.588 | 53.260 | 71.951 | 54.159 | 56.385 | 48.544 | ---- | ---- | 53.3 | 7.66 | 0.992 | 0.998 | 22 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Heptachlor | 2 | 0 | Avg | 74.333 | 72.373 | 104.85 | 82.602 | 88.107 | 80.347 | ---- | ---- | 83.8 | 7.99 | 0.997 | 0.999 | 14 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| delta-BHC | 2 | 0 | Avg | 91.006 | 94.318 | 133.72 | 111.44 | 115.48 | 108.88 | ---- | ---- | 109 | 8.14 | 0.998 | 0.999 | 14 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |

Avg Rsd Col 1: 16.07  Avg Rsd Col 2: 13.84

***Flags***

c - failed the initial calibration criteria(if applicable)

***Note:***

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

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# Form 6

## Initial Calibration

Method: EPA 8081B

Instrument: GC_5

| Level #: | Data File: | Cal Identifier: | Analysis Date/Time |
|---|---|---|---|
| 1 | 5G98075.D | CAL PEST@2PPB | 09/09/21 14:35 |
| 2 | 5G98076.D | CAL PEST@10PPB | 09/09/21 14:53 |
| 3 | 5G98074.D | CAL PEST@50PPB | 09/09/21 14:16 |
| 4 | 5G98077.D | CAL PEST@100PPB | 09/09/21 15:11 |
| 5 | 5G98078.D | CAL PEST@200PPB | 09/09/21 15:29 |
| 6 | 5G98079.D | CAL PEST@400PPB | 09/09/21 15:47 |
| 7 | 5G98080.D | CAL CHLOR@100PP | 09/09/21 16:06 |

| Compound | Col | Mr | Fit: | RF1 | RF2 | RF3 | RF4 | RF5 | RF6 | RF7 | RF8 | AvgRf | RT | Corr1 | Corr2 | %Rsd | Calibration Level Concentrations Lvl1 | Lvl2 | Lvl3 | Lvl4 | Lvl5 | Lvl6 | Lvl7 | Lvl8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 2 | 0 | Avg | 98.364 | 98.329 | 127.44 | 103.80 | 110.07 | 97.288 | ---- | ---- | 106 | 8.43 | 0.995 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Heptachlor Epoxide | 2 | 0 | Avg | 82.909 | 84.374 | 109.83 | 88.603 | 90.000 | 82.128 | ---- | ---- | 89.6 | 9.13 | 0.997 | 0.999 | 12 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| v-chlordane | 2 | 0 | Avg | 83.769 | 86.442 | 112.47 | 93.670 | 97.561 | 90.750 | ---- | ---- | 94.1 | 9.33 | 0.998 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| a-chlordane | 2 | 0 | Avg | 73.061 | 73.908 | 98.099 | 80.865 | 84.657 | 79.389 | ---- | ---- | 81.7 | 9.52 | 0.998 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endosulfan I | 2 | 0 | Avg | 89.053 | 86.344 | 112.51 | 90.965 | 92.457 | 83.216 | ---- | ---- | 92.4 | 9.57 | 0.996 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| p,p'-DDE | 2 | 0 | Avg | 74.972 | 76.410 | 105.86 | 87.169 | 91.342 | 85.133 | ---- | ---- | 86.8 | 9.81 | 0.998 | 0.999 | 13 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Dieldrin | 2 | 0 | Avg | 82.238 | 78.949 | 98.667 | 85.253 | 87.484 | 83.381 | ---- | ---- | 86.0 | 9.94 | 0.999 | 1.00 | 8.0 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endrin | 2 | 0 | Avg | 56.677 | 60.191 | 85.103 | 67.159 | 70.940 | 67.406 | ---- | ---- | 67.9 | 10.39 | 0.998 | 0.999 | 15 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| p,p'-DDD | 2 | 0 | Avg | 52.153 | 60.217 | 77.093 | 64.602 | 67.455 | 64.137 | ---- | ---- | 64.3 | 10.48 | 0.999 | 0.999 | 13 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endosulfan II | 2 | 0 | Avg | 63.732 | 71.042 | 94.904 | 78.623 | 81.717 | 75.851 | ---- | ---- | 77.6 | 10.60 | 0.998 | 0.999 | 14 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| p,p'-DDT | 2 | 0 | LinF | 26.621 | 34.288 | 62.993 | 53.671 | 61.378 | 60.741 | ---- | ---- | 49.9 | 10.83 | 0.999 | 0.999 | 31 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endrin Aldehyde | 2 | 0 | Avg | 50.819 | 54.851 | 70.025 | 59.873 | 62.157 | 57.335 | ---- | ---- | 59.2 | 10.98 | 0.998 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endosulfan Sulfate | 2 | 0 | Avg | 57.640 | 61.357 | 79.005 | 66.645 | 69.635 | 64.285 | ---- | ---- | 66.4 | 11.12 | 0.998 | 0.999 | 11 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Methoxychlor | 2 | 0 | LinF | 14.557 | 16.164 | 27.519 | 22.948 | 27.298 | 26.039 | ---- | ---- | 22.4 | 11.83 | 0.998 | 0.998 | 26 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Endrin Ketone | 2 | 0 | Avg | 65.555 | 64.903 | 84.833 | 73.353 | 76.458 | 71.804 | ---- | ---- | 72.8 | 12.04 | 0.999 | 0.999 | 10 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| DCB-Surrogate | 2 | 0 | Avg | 49.238 | 47.599 | 62.337 | 51.841 | 54.478 | 51.110 | ---- | ---- | 52.8 | 13.45 | 0.998 | 0.999 | 9.9 | 2.00 | 10.00 | 50.00 | 100.0 | 200.0 | 400.0 | | |
| Chlordane (Technical) | 2 | 1 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 3.29 | 7.79 | -1 | -1 | Lvl=7 | 100.0 | | | | | | | |
| Chlordane (Technical) | 2 | 2 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 8.13 | 9.34 | -1 | -1 | Lvl=7 | 100.0 | | | | | | | |
| Chlordane (Technical) | 2 | 3 | Avg | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 7.76 | 9.53 | -1 | -1 | Lvl=7 | 100.0 | | | | | | | |
| Toxaphene | 2 | 1 | Avg | 1.1437 | 1.0356 | 1.0198 | 1.0098 | 0.9651 | 0.8986 | ---- | ---- | 1.01 | 10.10 | 0.998 | 1.00 | 8.0 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 2 | 2 | Avg | 1.2125 | 1.2737 | 1.3266 | 1.3612 | 1.1730 | 1.2368 | ---- | ---- | 1.26 | 10.65 | 0.998 | 0.998 | 5.6 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 2 | 3 | Avg | 1.2834 | 1.1972 | 1.3560 | 1.3833 | 1.4608 | 1.4832 | ---- | ---- | 1.36 | 11.13 | 1.00 | 1.00 | 7.9 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 2 | 4 | Avg | 1.6200 | 2.3073 | 2.9436 | 3.1615 | 3.4817 | 3.6479 | ---- | ---- | 2.86 | 11.66 | 0.999 | 1.00 | 27 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |
| Toxaphene | 2 | 5 | Avg | 1.0226 | 1.2341 | 1.2765 | 1.3681 | 1.4216 | 1.4637 | ---- | ---- | 1.30 | 12.03 | 1.00 | 1.00 | 12 | 50.00 | 200.0 | 500.0 | 1000. | 2000. | 4000. | | |

Avg Rsd Col 1: 16.07  Avg Rsd Col 2: 13.84

***Flags***

c - failed the initial calibration criteria(if applicable)

***Note:***

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pch/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98075.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 14:35:04
Operator : MS/MLC
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 10:21:29 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:42:38 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

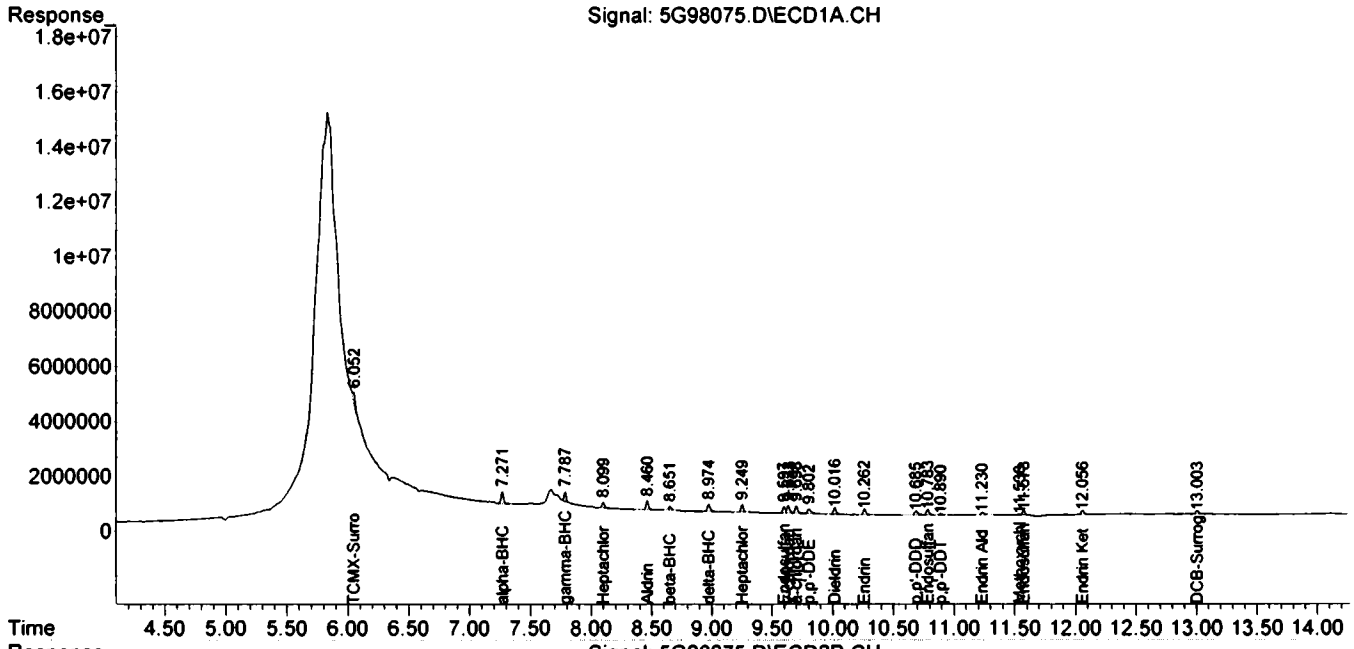
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.052 | 6.030 | 4798069 | 1481027 | 2.839m | 1.913 # |
| 2)alpha-BHC | 7.271 | 7.031 | 6982652 | 2418677 | 3.113 | 2.062 # |
| 3)gamma-BHC | 7.787 | 7.569 | 4043710 | 1793921 | 1.927m | 1.775 |
| 4)beta-BHC | 8.651 | 7.663 | 2115615 | 711776 | 2.343 | 1.549 # |
| 5)Heptachlor | 8.099 | 7.999 | 2516792 | 1486665 | 2.055m | 2.005 |
| 6)delta-BHC | 8.974 | 8.149 | 4168442 | 1820122 | 2.224 | 1.743 |
| 7)Aldrin | 8.461 | 8.432 | 4380213 | 1967280 | 2.317 | 2.112 |
| 8)Heptachlor Epoxid | 9.251 | 9.135 | 3579432 | 1658181 | 2.156 | 1.958 |
| 9)y-chlordane | 9.633 | 9.336 | 4287022 | 1675385 | 2.528 | 1.901 |
| 10)a-chlordane | 9.699 | 9.531 | 4301113 | 1461222 | 2.611 | 1.803 # |
| 11)Endosulfan I | 9.597 | 9.576 | 3205159 | 1781064 | 2.133m | 2.218 |
| 12)p,p'-DDE | 9.803 | 9.825 | 3662467 | 1499445 | 2.290 | 1.886 |
| 13)Dieldrin | 10.016 | 9.948 | 3760118 | 1644777 | 2.380 | 1.999 |
| 14)Endrin | 10.263 | 10.394 | 3012239 | 1133548 | 2.263 | 1.747 |
| 15)p,p'-DDD | 10.686 | 10.492 | 2970568 | 1043072 | 2.228 | 1.747 |
| 16)Endosulfan II | 10.784 | 10.605 | 3222162 | 1274643 | 2.282 | 1.727 |
| 17)p,p'-DDT | 10.890 | 10.843 | 708865 | 532433 | 0.884m | 1.068 |
| 18)Endrin Aldehyde | 11.231 | 10.989 | 1846303 | 1016389 | 1.698 | 1.656 |
| 19)Endosulfan Sulfat | 11.573 | 11.129 | 2290173 | 1152814 | 1.964m | 1.738 |
| 20)Methoxychlor | 11.538 | 11.838 | 370872 | 291149 | 0.876m | 1.281m# |
| 21)Endrin Ketone | 12.057 | 12.049 | 2145608 | 1311100 | 1.976 | 1.871 |
| 22)DCB-Surrogate | 13.004 | 13.458 | 2139579 | 984762 | 2.168 | 1.772 |
| 23)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

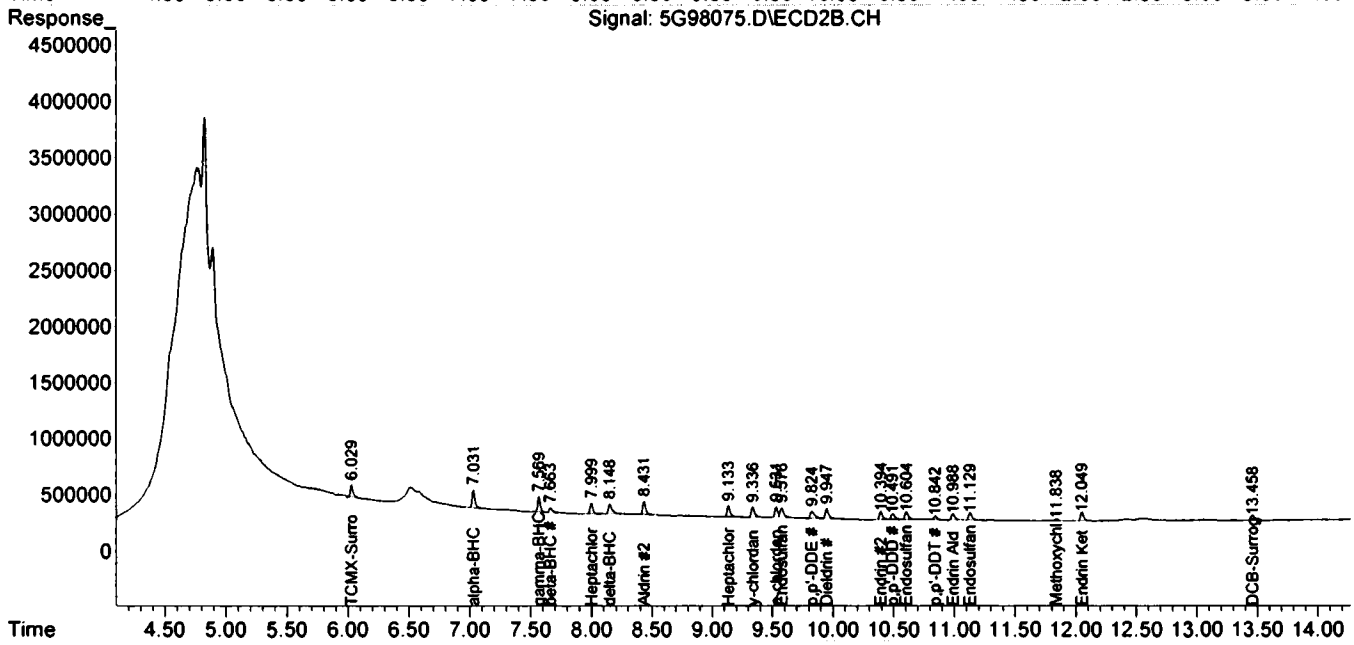
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98075.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 14:35:04
Operator : MS/MLC
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 10:21:29 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:42:38 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98076.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 14:53:23
Operator : MS/MLC
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:47:08 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:42:38 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

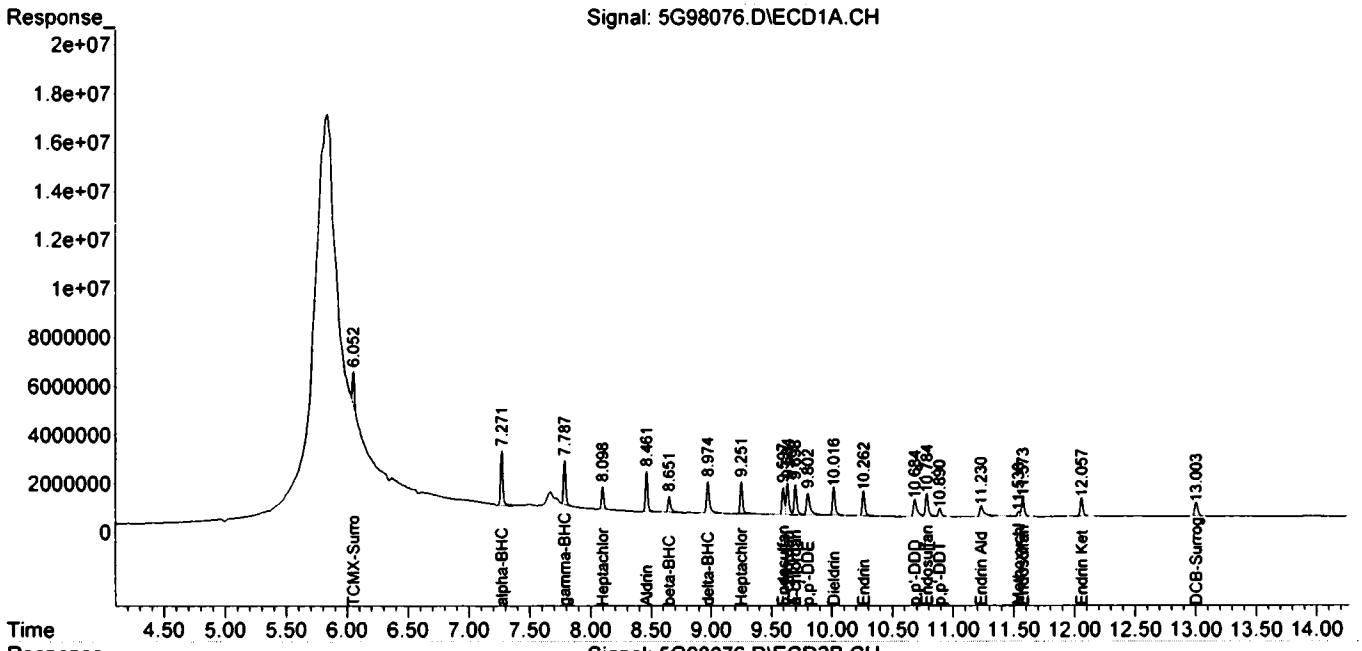
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.052 | 6.030 | 15496606 | 8720853 | 9.171m | 11.262 |
| 2)alpha-BHC | 7.272 | 7.032 | 30706399 | 12329937 | 13.688 | 10.513 |
| 3)gamma-BHC | 7.787 | 7.570 | 22895842 | 10439371 | 10.909m | 10.329 |
| 4)beta-BHC | 8.652 | 7.664 | 10809206 | 5326001 | 11.973 | 11.592 |
| 5)Heptachlor | 8.098 | 8.000 | 11779847 | 7237317 | 9.620m | 9.760 |
| 6)delta-BHC | 8.974 | 8.150 | 21673777 | 9431871 | 11.564 | 9.031 |
| 7)Aldrin | 8.462 | 8.433 | 21571022 | 9832979 | 11.411 | 10.557 |
| 8)Heptachlor Epoxid | 9.251 | 9.135 | 18727851 | 8437484 | 11.278 | 9.961 |
| 9)y-chlordane | 9.634 | 9.336 | 19477652 | 8644202 | 11.486 | 9.809 |
| 10)a-chlordane | 9.699 | 9.532 | 19064109 | 7390843 | 11.573 | 9.117 |
| 11)Endosulfan I | 9.598 | 9.577 | 14758552 | 8634433 | 9.821 | 10.754 |
| 12)p,p'-DDE | 9.803 | 9.824 | 19246883 | 7641031 | 12.033 | 9.611 |
| 13)Dieldrin | 10.017 | 9.949 | 17862334 | 7894920 | 11.308 | 9.594 |
| 14)Endrin | 10.263 | 10.394 | 15771162 | 6019170 | 11.847 | 9.277 |
| 15)p,p'-DDD | 10.685 | 10.490 | 14214744 | 6021775 | 10.661 | 10.087 |
| 16)Endosulfan II | 10.784 | 10.606 | 15430097 | 7104267 | 10.928 | 9.627 |
| 17)p,p'-DDT | 10.891 | 10.844 | 5428406 | 3428827 | 6.735 | 6.880 |
| 18)Endrin Aldehyde | 11.231 | 10.988 | 10942809 | 5485108 | 10.063 | 8.935 |
| 19)Endosulfan Sulfat | 11.574 | 11.130 | 12205682 | 6135783 | 10.468 | 9.248 |
| 20)Methoxychlor | 11.539 | 11.839 | 2719988 | 1616468 | 6.397 | 7.113 |
| 21)Endrin Ketone | 12.057 | 12.050 | 11752615 | 6490311 | 10.824 | 9.262 |
| 22)DCB-Surrogate | 13.004 | 13.458 | 10148802 | 4759986 | 10.285 | 8.566 |
| 23)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

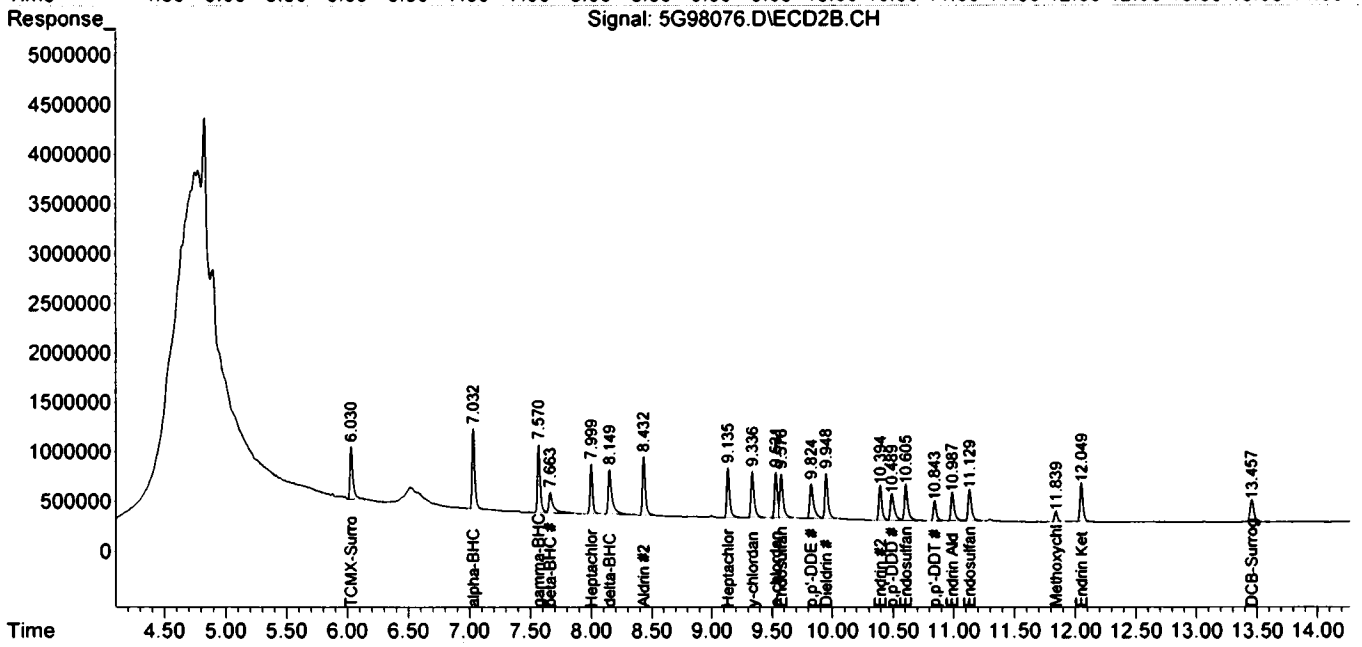
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98076.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 14:53:23
Operator : MS/MLC
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:47:08 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:42:38 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98074.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 14:16:52
Operator : MS/MLC
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:43:36 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:42:38 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

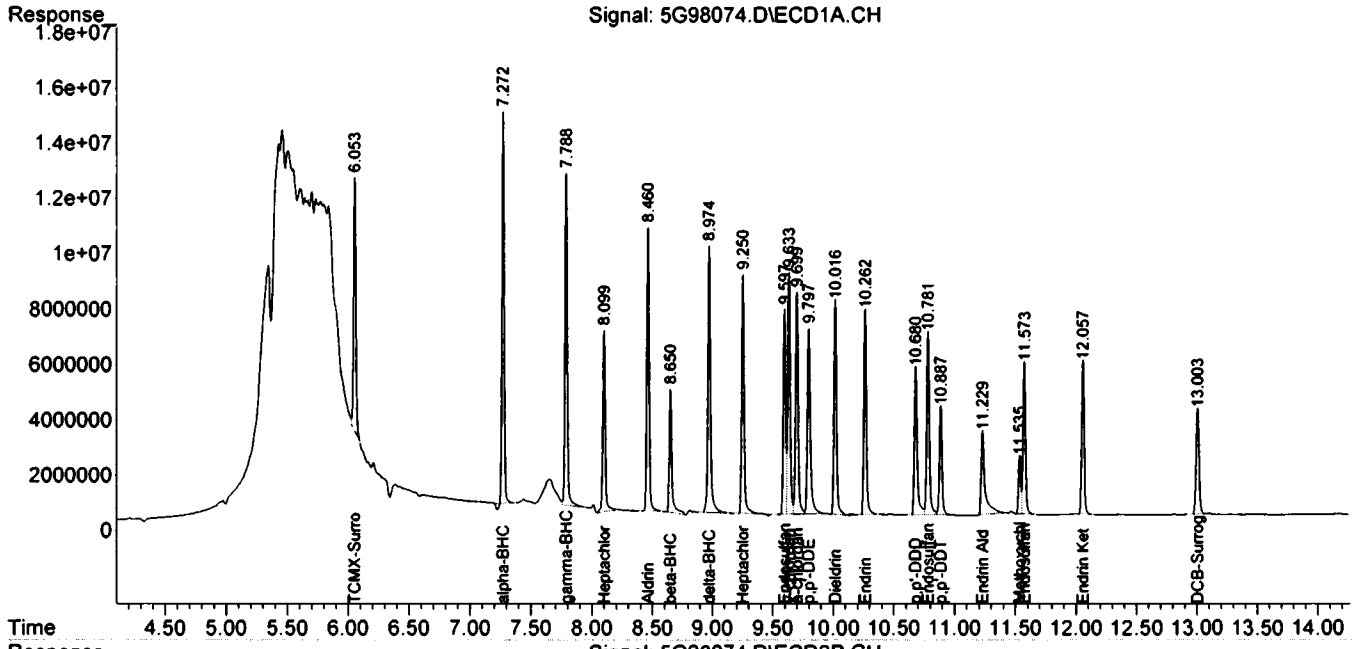
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.053 | 6.023 | 117.6E6 | 59378836 | 69.567m | 76.678 |
| 2) | alpha-BHC | 7.272 | 7.025 | 170.3E6 | 81902264 | 75.899 | 69.835 |
| 3) | gamma-BHC | 7.789 | 7.564 | 159.1E6 | 72113277 | 75.811 | 71.352 |
| 4) | beta-BHC | 8.650 | 7.656 | 67326890 | 35975692 | 74.577 | 78.303 |
| 5) | Heptachlor | 8.099 | 7.993 | 90349553 | 52426506 | 73.784 | 70.702 |
| 6) | delta-BHC | 8.974 | 8.143 | 141.2E6 | 66863427 | 75.351 | 64.022 |
| 7) | Aldrin | 8.461 | 8.426 | 138.2E6 | 63720968 | 73.108 | 68.416 |
| 8) | Heptachlor Epoxid | 9.251 | 9.129 | 120.2E6 | 54919515 | 72.391 | 64.833 |
| 9) | y-chlordane | 9.634 | 9.330 | 124.8E6 | 56239650 | 73.600 | 63.820 |
| 10) | a-chlordane | 9.699 | 9.525 | 119.1E6 | 49049891 | 72.327 | 60.507 |
| 11) | Endosulfan I | 9.597 | 9.569 | 97397731 | 56255324 | 64.813 | 70.068 |
| 12) | p,p'-DDE | 9.798 | 9.814 | 116.8E6 | 52932663 | 73.033 | 66.576 |
| 13) | Dieldrin | 10.016 | 9.941 | 112.8E6 | 49333960 | 71.399 | 59.952 |
| 14) | Endrin | 10.263 | 10.387 | 106.6E6 | 42551973 | 80.116 | 65.580 |
| 15) | p,p'-DDD | 10.680 | 10.478 | 87754166 | 38546763 | 65.818 | 64.570 |
| 16) | Endosulfan II | 10.782 | 10.598 | 100.1E6 | 47452013 | 70.913 | 64.303 |
| 17) | p,p'-DDT | 10.887 | 10.834 | 57834793 | 31496991 | 67.918 | 63.196 |
| 18) | Endrin Aldehyde | 11.230 | 10.980 | 66121377 | 35012596 | 60.807 | 57.037 |
| 19) | Endosulfan Sulfat | 11.573 | 11.122 | 80761787 | 39502727 | 69.266 | 59.542 |
| 20) | Methoxychlor | 11.536 | 11.831 | 27431525 | 13759786 | 62.111 | 60.551 |
| 21) | Endrin Ketone | 12.057 | 12.042 | 78418947 | 42416540 | 72.220 | 60.530 |
| 22) | DCB-Surrogate | 13.004 | 13.448 | 65752439 | 31168625 | 66.632 | 56.090 |
| 23) | Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24) | Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25) | Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26) | Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27) | Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28) | Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29) | Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30) | Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

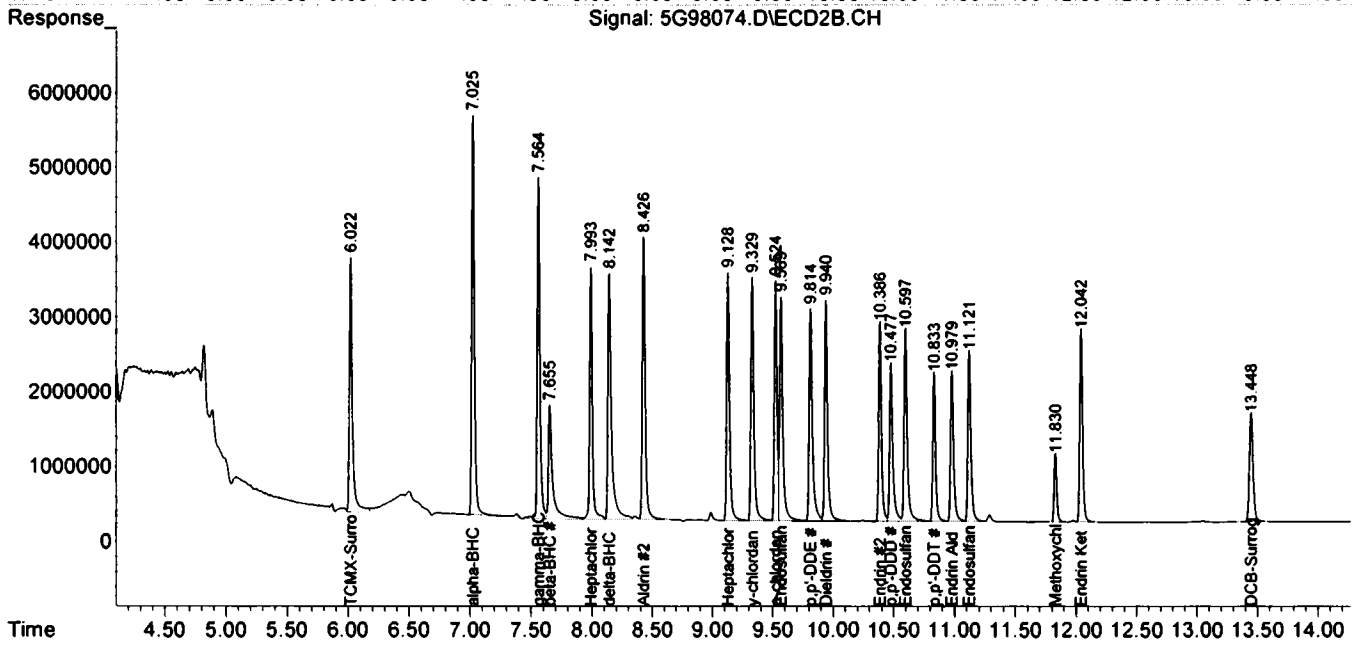
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98074.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 14:16:52
Operator : MS/MLC
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:43:36 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:42:38 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98077.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 15:11:35
Operator : MS/MLC
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:48:26 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:42:38 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

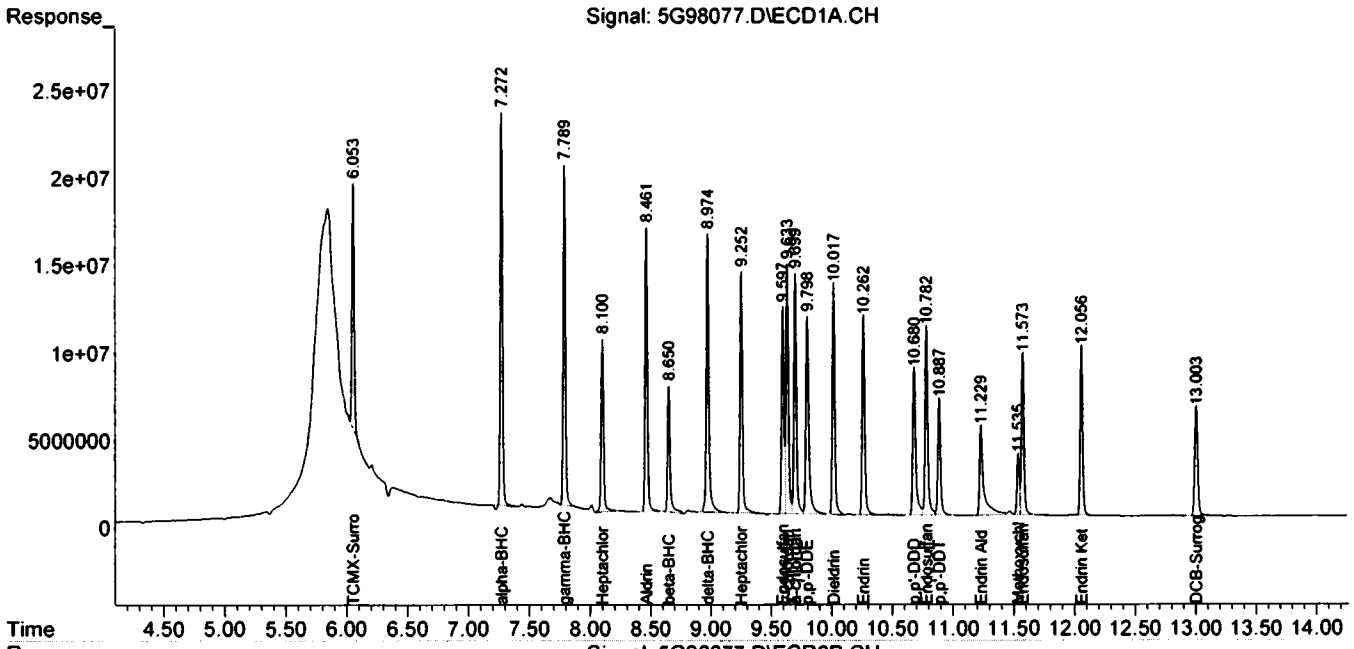
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.053 | 6.031 | 173.5E6 | 88043753 | 102.669m | 113.694 |
| 2)alpha-BHC | 7.272 | 7.033 | 276.2E6 | 130.1E6 | 123.140 | 110.967 |
| 3)gamma-BHC | 7.789 | 7.571 | 245.4E6 | 111.8E6 | 116.917m | 110.664 |
| 4)beta-BHC | 8.651 | 7.664 | 106.3E6 | 54159084 | 117.754 | 117.880 |
| 5)Heptachlor | 8.100 | 8.001 | 139.2E6 | 82602923 | 113.668 | 111.398 |
| 6)delta-BHC | 8.974 | 8.150 | 231.0E6 | 111.4E6 | 123.253 | 106.710 |
| 7)Aldrin | 8.462 | 8.434 | 221.8E6 | 103.8E6 | 117.308 | 111.458 |
| 8)Heptachlor Epoxid | 9.252 | 9.137 | 194.1E6 | 88603376 | 116.887 | 104.597 |
| 9)y-chlordane | 9.634 | 9.337 | 205.9E6 | 93670835 | 121.445 | 106.296 |
| 10)a-chlordane | 9.700 | 9.532 | 195.1E6 | 80865331 | 118.422 | 99.754 |
| 11)Endosulfan I | 9.598 | 9.577 | 157.4E6 | 90965490 | 104.728 | 113.300 |
| 12)p,p'-DDE | 9.799 | 9.822 | 193.7E6 | 87169762 | 121.094 | 109.638 |
| 13)Dieldrin | 10.017 | 9.949 | 186.5E6 | 85253013 | 118.055 | 103.602 |
| 14)Endrin | 10.263 | 10.394 | 167.4E6 | 67159558 | 125.731 | 103.505 |
| 15)p,p'-DDD | 10.680 | 10.487 | 145.4E6 | 64602798 | 109.030 | 108.217 |
| 16)Endosulfan II | 10.782 | 10.605 | 166.2E6 | 78623718 | 117.671 | 106.544 |
| 17)p,p'-DDT | 10.888 | 10.841 | 101.8E6 | 53671479 | 114.806 | 107.686 |
| 18)Endrin Aldehyde | 11.230 | 10.987 | 123.2E6 | 59873545 | 113.312 | 97.537 |
| 19)Endosulfan Sulfat | 11.574 | 11.129 | 137.8E6 | 66645472 | 118.149 | 100.454 |
| 20)Methoxychlor | 11.536 | 11.838 | 47675133 | 22948057 | 104.937 | 100.984 |
| 21)Endrin Ketone | 12.057 | 12.049 | 134.2E6 | 73353068 | 123.636 | 104.678 |
| 22)DCB-Surrogate | 13.004 | 13.458 | 107.8E6 | 51841155 | 109.217 | 93.292 |
| 23)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

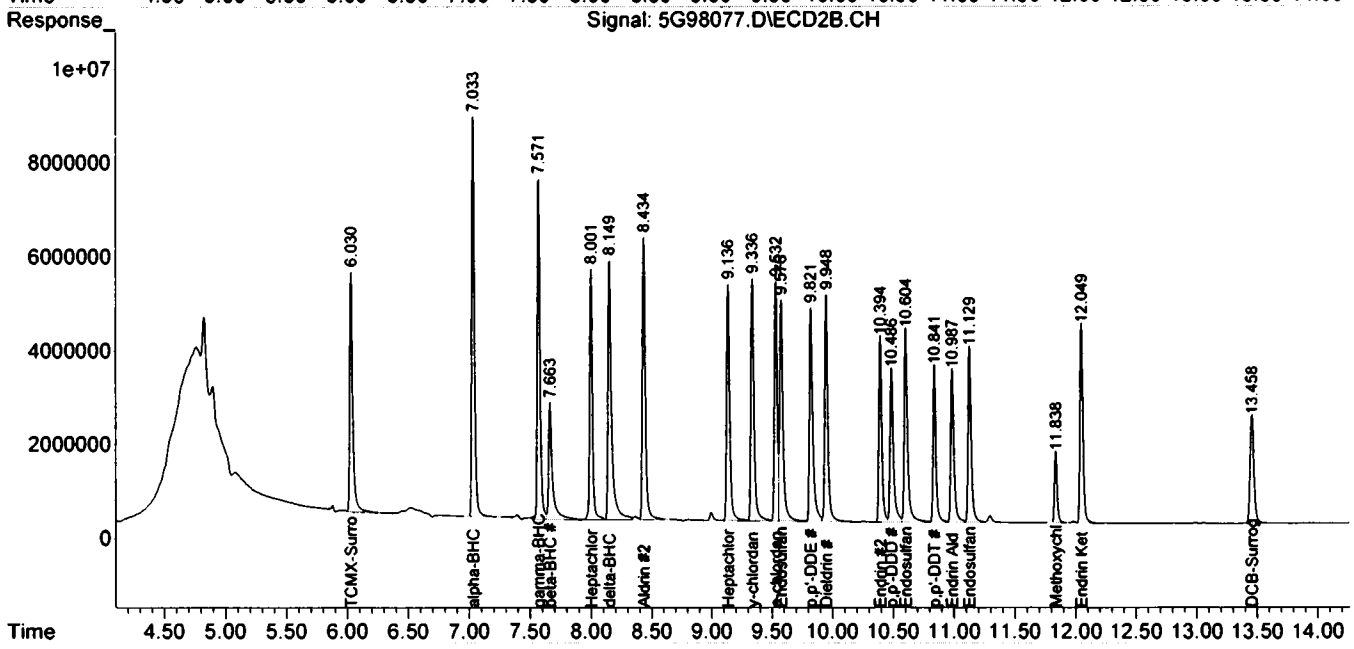
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98077.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 15:11:35
Operator : MS/MLC
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:48:26 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:42:38 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98078.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 15:29:46
Operator : MS/MLC
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:49:04 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:42:38 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

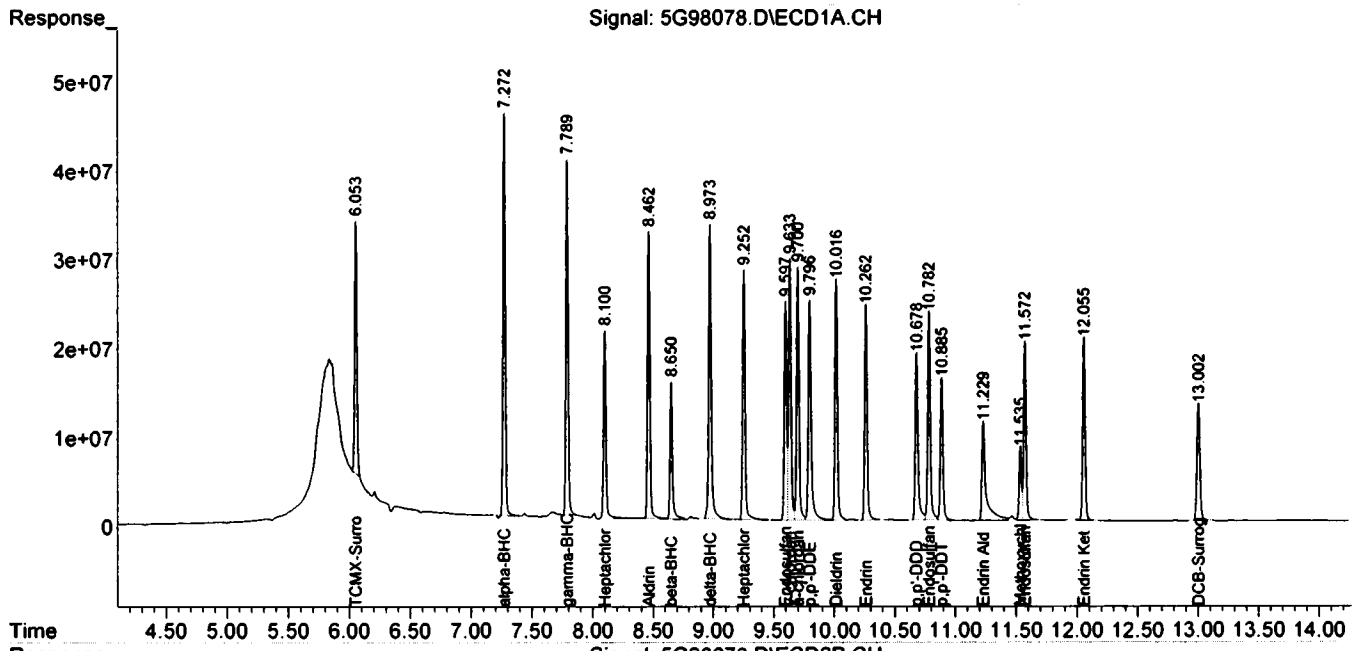
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.053 | 6.031 | 353.3E6 | 175.3E6 | 209.080m | 226.391 |
| 2)alpha-BHC | 7.272 | 7.033 | 570.8E6 | 271.9E6 | 254.438 | 231.867 |
| 3)gamma-BHC | 7.789 | 7.572 | 507.7E6 | 229.4E6 | 241.879m | 226.989 |
| 4)beta-BHC | 8.650 | 7.662 | 219.3E6 | 112.8E6 | 242.915 | 245.452 |
| 5)Heptachlor | 8.100 | 8.001 | 291.9E6 | 176.2E6 | 238.350 | 237.642 |
| 6)delta-BHC | 8.974 | 8.149 | 477.9E6 | 231.0E6 | 254.964 | 221.150 |
| 7)Aldrin | 8.462 | 8.434 | 454.9E6 | 220.1E6 | 240.620 | 236.362 |
| 8)Heptachlor Epoxid | 9.252 | 9.136 | 398.3E6 | 180.0E6 | 239.877 | 212.494 |
| 9)y-chlordane | 9.633 | 9.337 | 421.6E6 | 195.1E6 | 248.610 | 221.423 |
| 10)a-chlordane | 9.700 | 9.532 | 403.8E6 | 169.3E6 | 245.161 | 208.865 |
| 11)Endosulfan I | 9.598 | 9.577 | 335.5E6 | 184.9E6 | 223.260 | 230.316 |
| 12)p,p'-DDE | 9.797 | 9.819 | 409.0E6 | 182.7E6 | 255.684 | 229.774 |
| 13)Dieldrin | 10.016 | 9.948 | 383.0E6 | 175.0E6 | 242.466 | 212.626 |
| 14)Endrin | 10.262 | 10.394 | 346.7E6 | 141.9E6 | 260.414 | 218.663 |
| 15)p,p'-DDD | 10.678 | 10.485 | 299.7E6 | 134.9E6 | 224.794 | 225.993 |
| 16)Endosulfan II | 10.782 | 10.604 | 344.4E6 | 163.4E6 | 243.927 | 221.473 |
| 17)p,p'-DDT | 10.886 | 10.840 | 237.0E6 | 122.8E6 | 241.682 | 246.298 |
| 18)Endrin Aldehyde | 11.229 | 10.987 | 257.0E6 | 124.3E6 | 236.337 | 202.515 |
| 19)Endosulfan Sulfat | 11.572 | 11.128 | 286.7E6 | 139.3E6 | 245.850 | 209.920 |
| 20)Methoxychlor | 11.535 | 11.837 | 110.8E6 | 54596989 | 226.005 | 240.256 |
| 21)Endrin Ketone | 12.056 | 12.048 | 287.8E6 | 152.9E6 | 265.021 | 218.217 |
| 22)DCB-Surrogate | 13.002 | 13.456 | 227.2E6 | 109.0E6 | 230.211 | 196.077 |
| 23)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

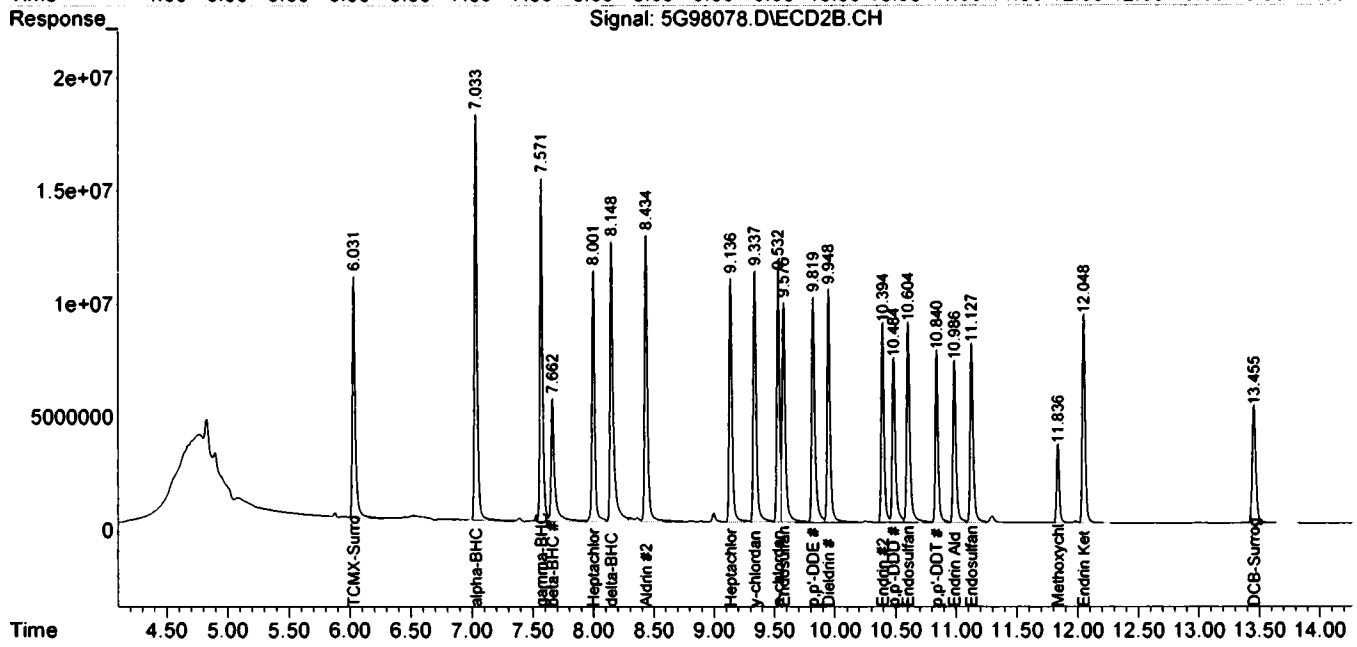
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98078.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 15:29:46
Operator : MS/MLC
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:49:04 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:42:38 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98079.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 15:47:57
Operator : MS/MLC
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:49:57 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:42:38 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

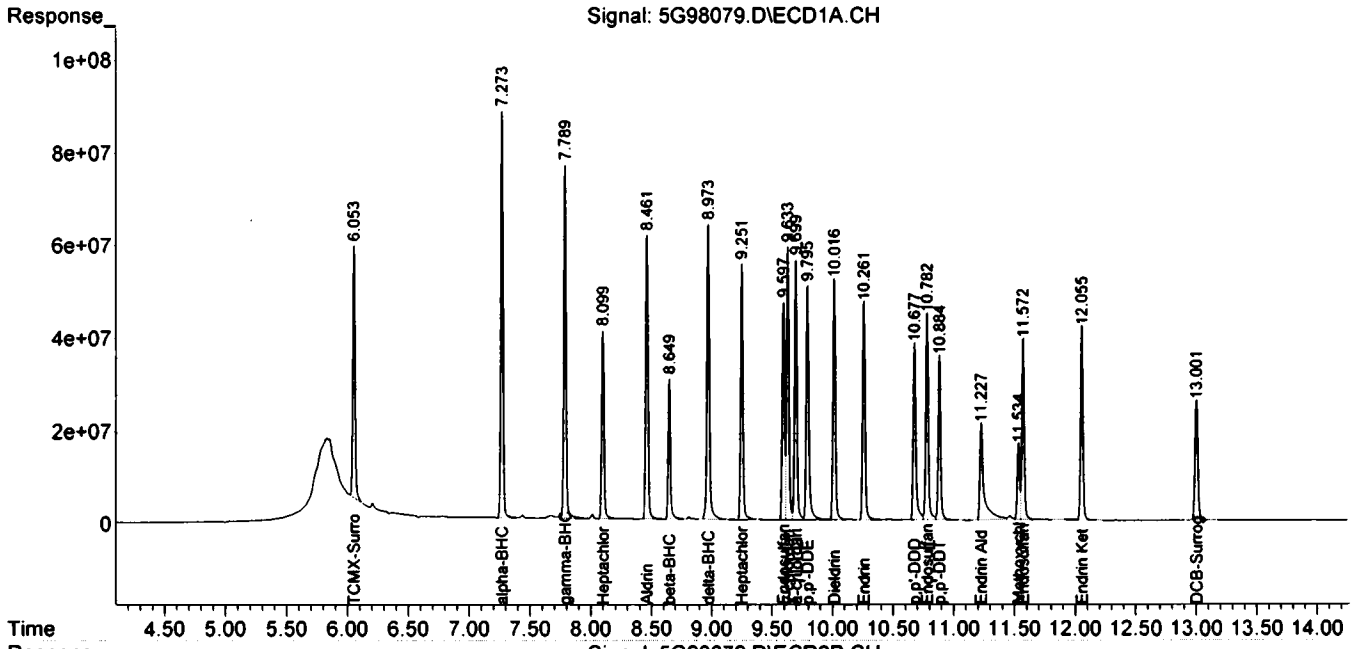
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.053 | 6.031 | 684.4E6 | 315.7E6 | 405.008m | 407.700 |
| 2)alpha-BHC | 7.273 | 7.033 | 1097.6E6 | 501.6E6 | 489.292 | 427.680 |
| 3)gamma-BHC | 7.789 | 7.571 | 992.4E6 | 425.1E6 | 472.828 | 420.578 |
| 4)beta-BHC | 8.650 | 7.662 | 392.3E6 | 194.2E6 | 434.497 | 422.634 |
| 5)Heptachlor | 8.100 | 8.001 | 533.3E6 | 321.4E6 | 435.509 | 433.424 |
| 6)delta-BHC | 8.974 | 8.148 | 910.9E6 | 435.5E6 | 486.044 | 417.016 |
| 7)Aldrin | 8.462 | 8.434 | 836.1E6 | 389.2E6 | 442.288 | 417.826 |
| 8)Heptachlor Epoxid | 9.251 | 9.136 | 722.3E6 | 328.5E6 | 435.012 | 387.816 |
| 9)y-chlordane | 9.633 | 9.336 | 786.2E6 | 363.0E6 | 463.666 | 411.929 |
| 10)a-chlordane | 9.699 | 9.531 | 750.2E6 | 317.6E6 | 455.440 | 391.738 |
| 11)Endosulfan I | 9.597 | 9.576 | 620.0E6 | 332.9E6 | 412.565 | 414.596 |
| 12)p,p'-DDE | 9.795 | 9.818 | 756.2E6 | 340.5E6 | 472.786 | 428.308 |
| 13)Dieldrin | 10.016 | 9.948 | 714.5E6 | 333.5E6 | 452.323 | 405.309 |
| 14)Endrin | 10.262 | 10.393 | 659.7E6 | 269.6E6 | 495.591 | 415.538 |
| 15)p,p'-DDD | 10.677 | 10.483 | 574.4E6 | 256.5E6 | 430.815 | 429.750 |
| 16)Endosulfan II | 10.782 | 10.603 | 651.6E6 | 303.4E6 | 461.498 | 411.151 |
| 17)p,p'-DDT | 10.885 | 10.839 | 485.1E6 | 243.0E6 | 432.203 | 487.484 |
| 18)Endrin Aldehyde | 11.228 | 10.986 | 483.3E6 | 229.3E6 | 444.434 | 373.607 |
| 19)Endosulfan Sulfat | 11.572 | 11.128 | 543.3E6 | 257.1E6 | 465.947 | 387.586 |
| 20)Methoxychlor | 11.534 | 11.836 | 224.5E6 | 104.2E6 | 411.908 | 458.360 |
| 21)Endrin Ketone | 12.055 | 12.048 | 564.0E6 | 287.2E6 | 519.427 | 409.871 |
| 22)DCB-Surrogate | 13.002 | 13.457 | 434.1E6 | 204.4E6 | 439.867 | 367.909 |
| 23)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 24)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 25)Chlordane (Techni | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 26)Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

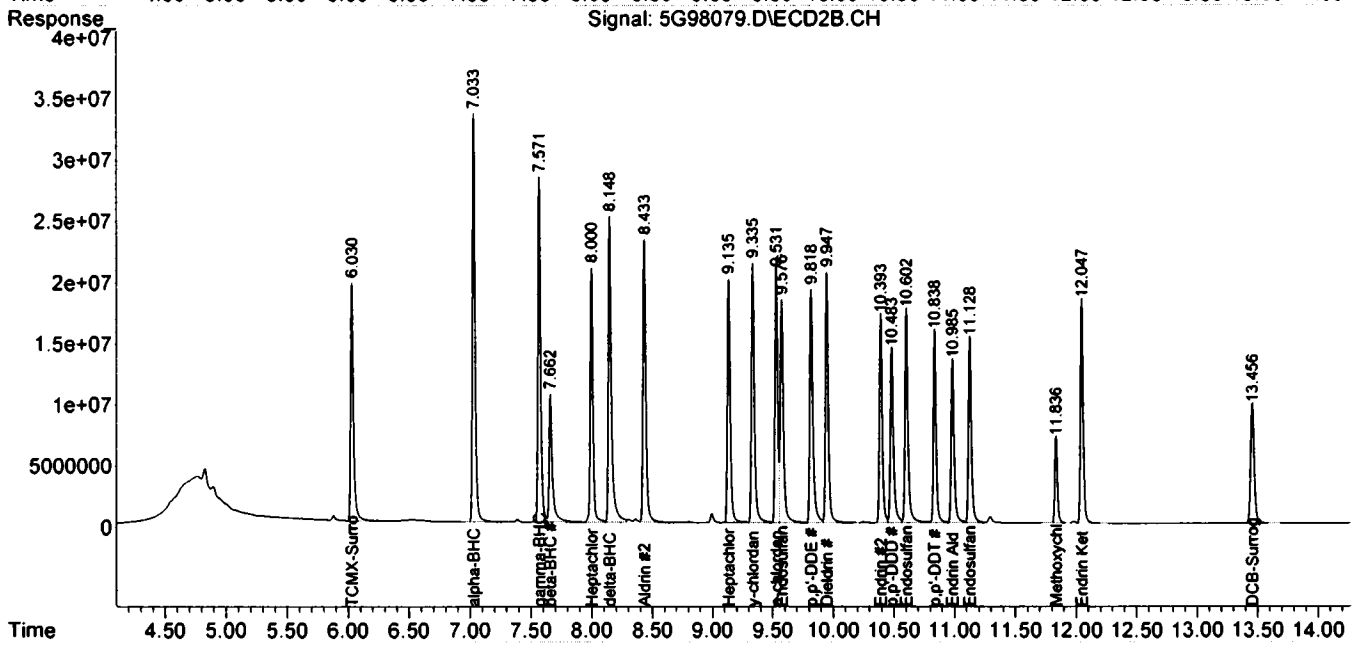
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98079.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 15:47:57
Operator : MS/MLC
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:49:57 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:42:38 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98080.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 16:06:15
Operator : MS/MLC
Sample : CAL CHLOR@100PPB
Misc : S,PEST
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:51:15 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:50:22 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

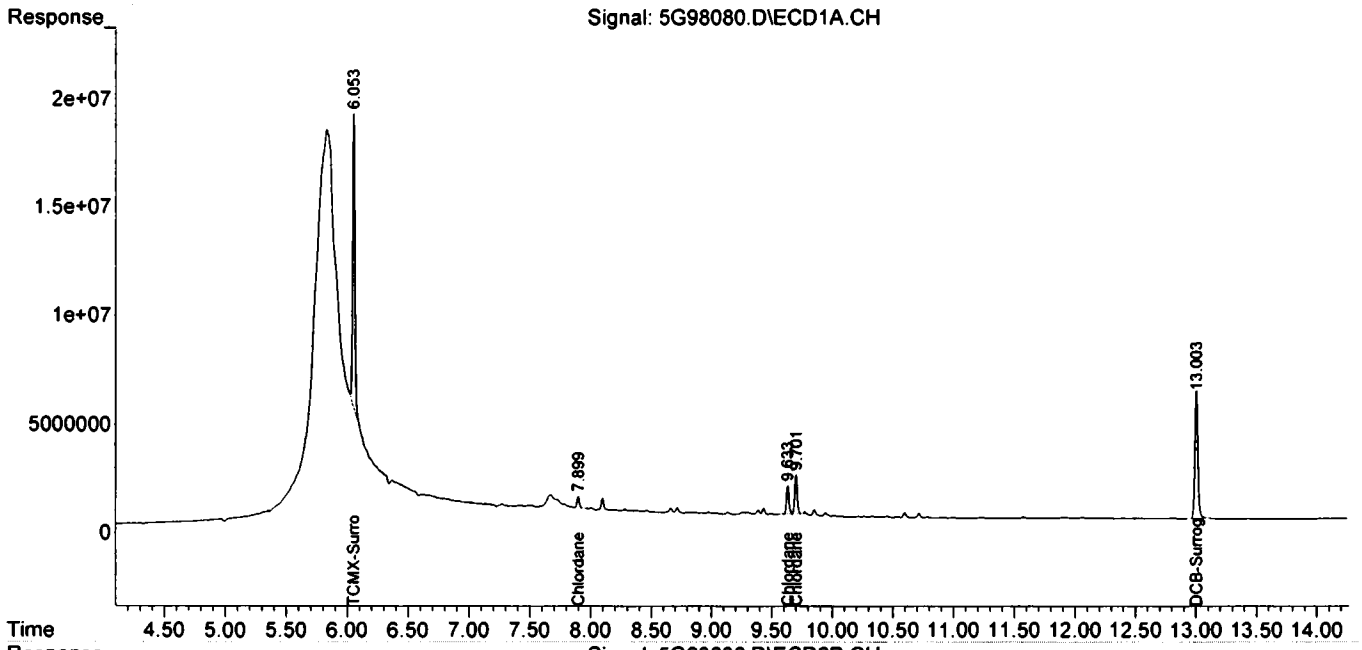
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.053 | 6.030 | 169.5E6 | 82792633 | 100.292m | 106.914 |
| 2)alpha-BHC | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 3)gamma-BHC | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 4)beta-BHC | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 5)Heptachlor | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 6)delta-BHC | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 7)Aldrin | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 8)Heptachlor Epoxid | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 9)y-chlordane | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 10)a-chlordane | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 11)Endosulfan I | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 12)p,p'-DDE | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 13)Dieldrin | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 14)Endrin | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 15)p,p'-DDD | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 16)Endosulfan II | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 17)p,p'-DDT | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 18)Endrin Aldehyde | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 19)Endosulfan Sulfat | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 20)Methoxychlor | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 21)Endrin Ketone | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 22)DCB-Surrogate | 13.003 | 13.458 | 101.6E6 | 48946611 | 102.911 | 88.083 |
| 23)Chlordane (Techni | 7.899 | 7.794 | 7957585 | 3293486 | 118.032m | 101.335 |
| 24)Chlordane (Techni | 9.633 | 9.337 | 19182546 | 8133494 | 100.720 | 78.837 |
| 25)Chlordane (Techni | 9.702 | 9.532 | 26601638 | 7757020 | 100.993 | 97.740 |
| 26)Toxaphene {1} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 27)Toxaphene {2} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 28)Toxaphene {3} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 29)Toxaphene {4} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |
| 30)Toxaphene {5} | 0.000 | 0.000 | 0 | 0 | N.D. d | N.D. d |

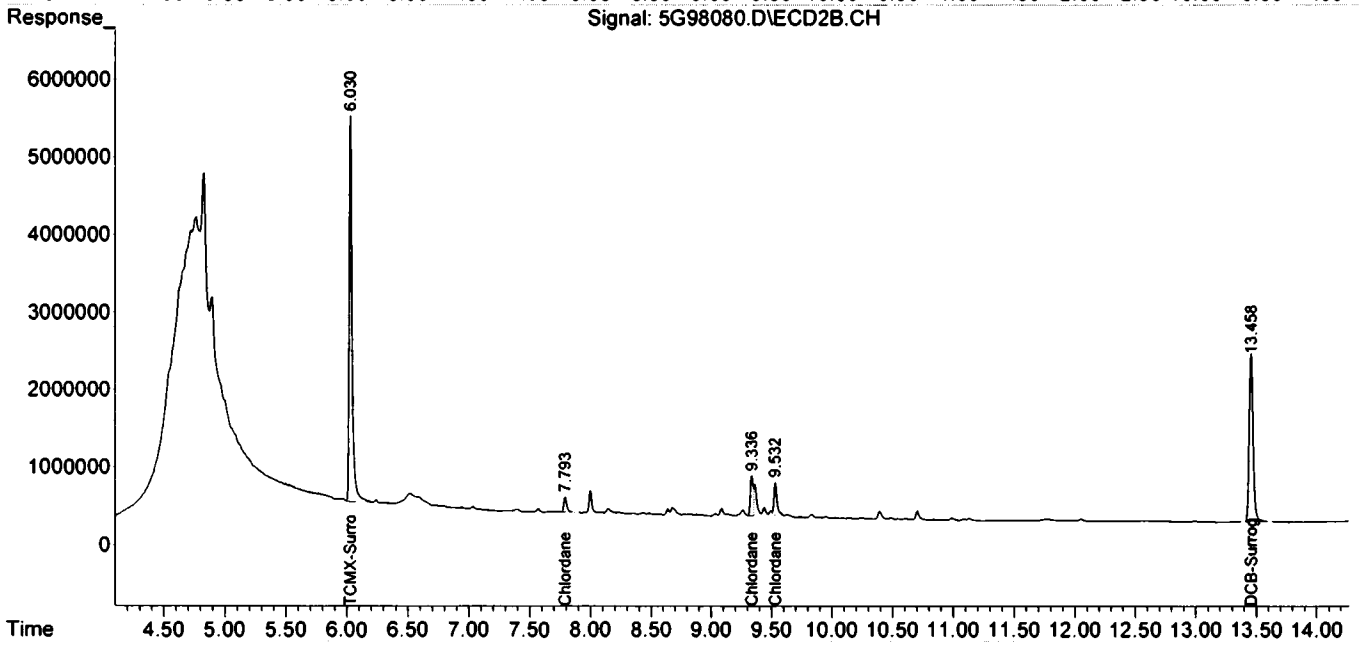
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98080.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 16:06:15
Operator : MS/MLC
Sample : CAL CHLOR@100PPB
Misc : S,PEST
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:51:15 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:50:22 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98081.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 16:24:27
Operator : MS/MLC
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 10:00:03 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:52:59 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 26)Toxaphene {1} | 10.057 | 10.104 | 267003 | 571894 | 38.220m | 87.571m# |
| 27)Toxaphene {2} | 10.508 | 10.645 | 437329 | 606280 | 17.200m | 35.618 # |
| 28)Toxaphene {3} | 11.146 | 11.136 | 997776 | 641732 | 39.090m | 50.999m# |
| 29)Toxaphene {4} | 11.564 | 11.659 | 823795 | 810015 | 34.465m | 53.709m# |
| 30)Toxaphene {5} | 11.848 | 12.027 | 47283 | 511308 | 1.669m | 41.594m# |

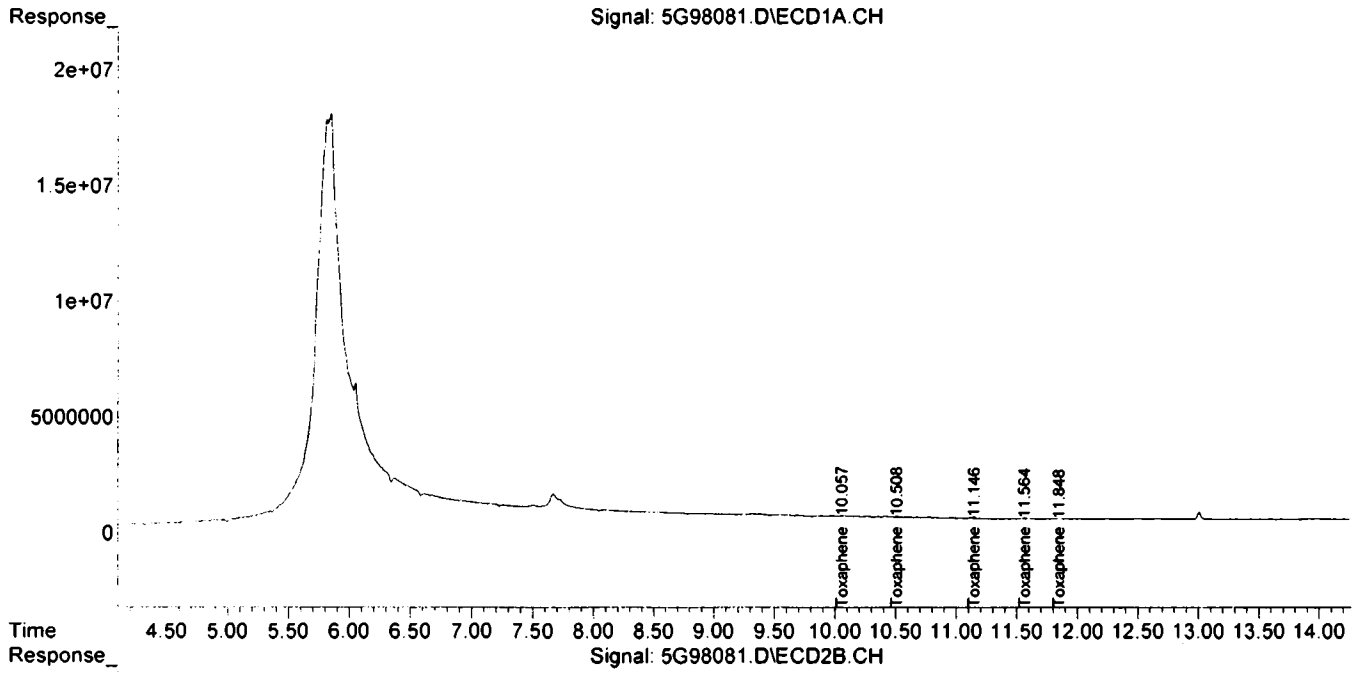
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

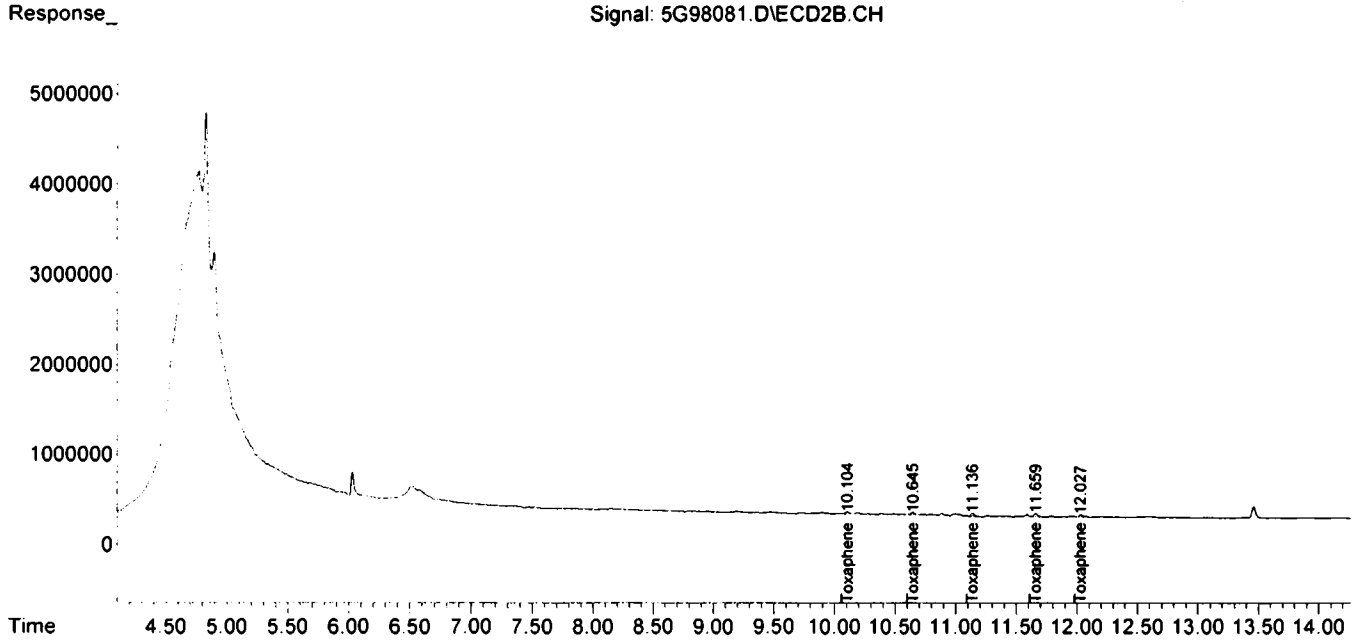
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98081.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 16:24:27
Operator : MS/MLC
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 10:00:03 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:52:59 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98082.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 16:42:39
Operator : MS/MLC
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:58:46 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:52:59 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

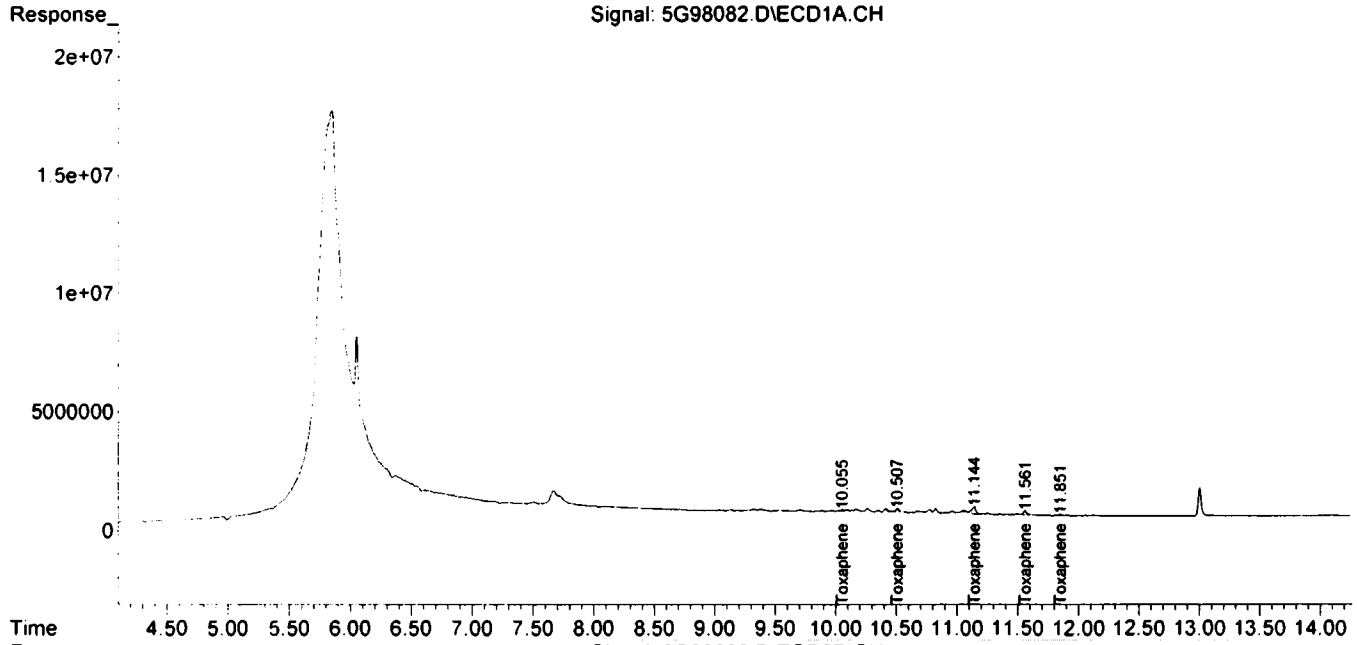
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 26)Toxaphene {1} | 10.055 | 10.104 | 823225 | 2071198 | 117.839m | 317.150m# |
| 27)Toxaphene {2} | 10.507 | 10.648 | 2451468 | 2547582 | 96.418m | 149.667 # |
| 28)Toxaphene {3} | 11.144 | 11.133 | 5629608 | 2394432 | 220.552m | 190.288m |
| 29)Toxaphene {4} | 11.561 | 11.657 | 3328032 | 4614676 | 139.234m | 305.979 # |
| 30)Toxaphene {5} | 11.851 | 12.027 | 947974 | 2468246 | 33.444m | 200.788 # |

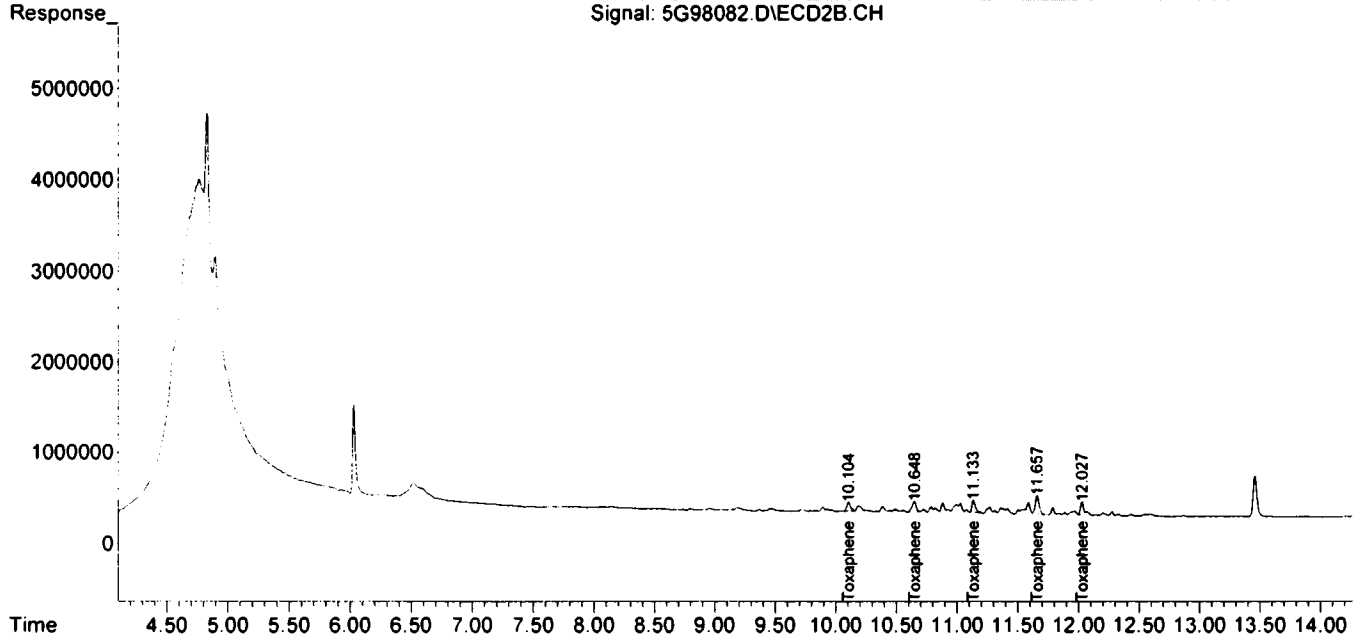
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98082.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 16:42:39
Operator : MS/MLC
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:58:46 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:52:59 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98083.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 17:00:53
Operator : MS/MLC
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:54:46 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:52:59 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 26)Toxaphene {1} | 10.057 | 10.104 | 3371112 | 5099276 | 482.553m | 780.820m# |
| 27)Toxaphene {2} | 10.507 | 10.647 | 6755569 | 6633079 | 265.702m | 389.685m# |
| 28)Toxaphene {3} | 11.145 | 11.134 | 15511796 | 6780075 | 607.708m | 538.819m |
| 29)Toxaphene {4} | 11.560 | 11.658 | 9256180 | 14718426 | 387.248m | 975.914m# |
| 30)Toxaphene {5} | 11.850 | 12.026 | 4258939 | 6382517 | 149.893m | 519.208m# |

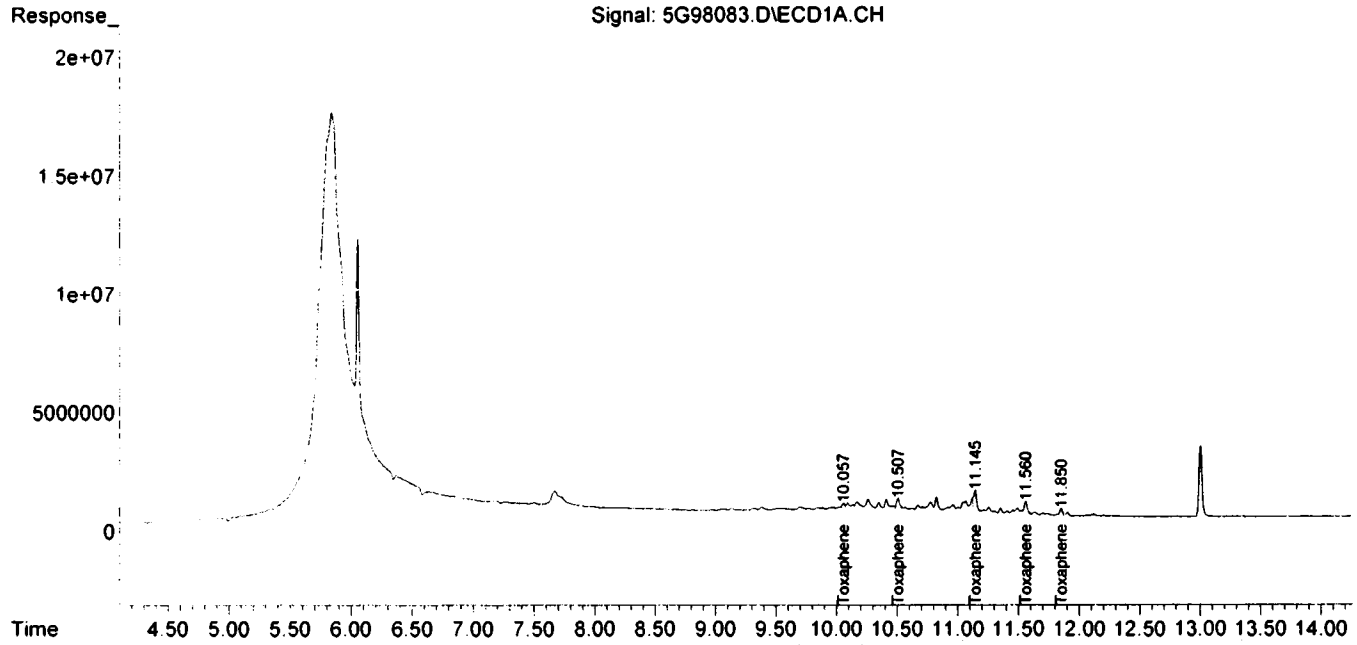
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

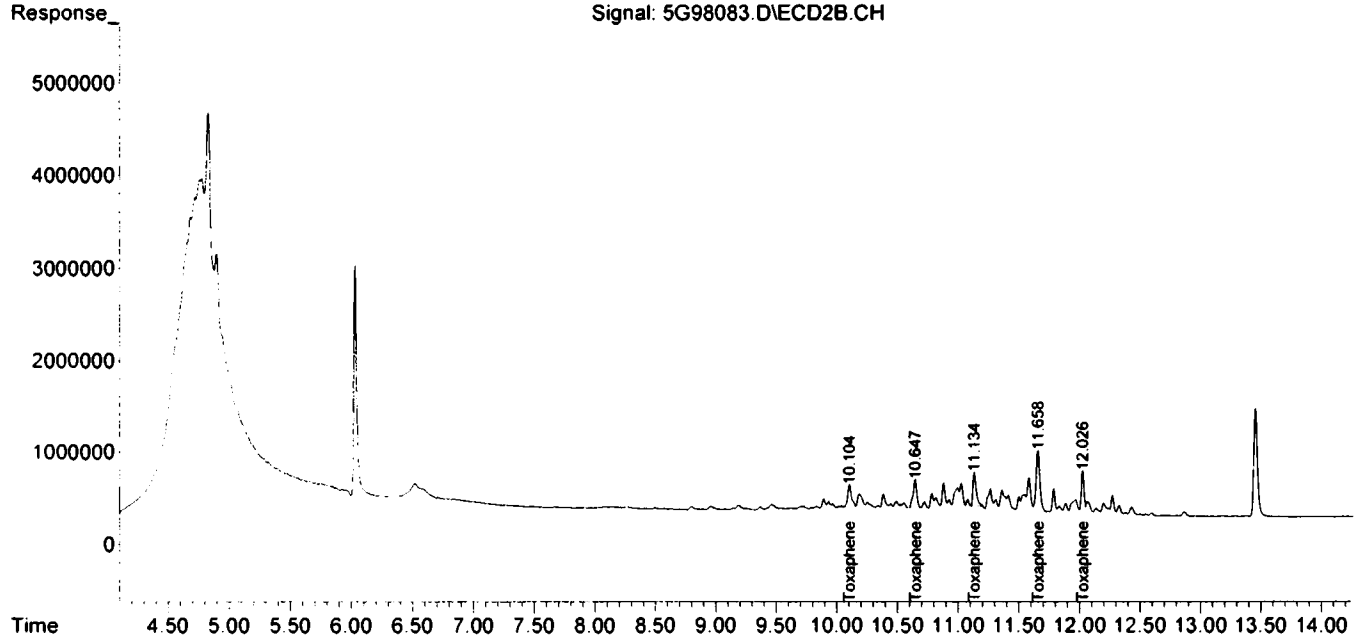
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98083.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 17:00:53
Operator : MS/MLC
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 09:54:46 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:52:59 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98084.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 17:19:12
Operator : MS/MLC
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 10:02:15 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:52:59 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

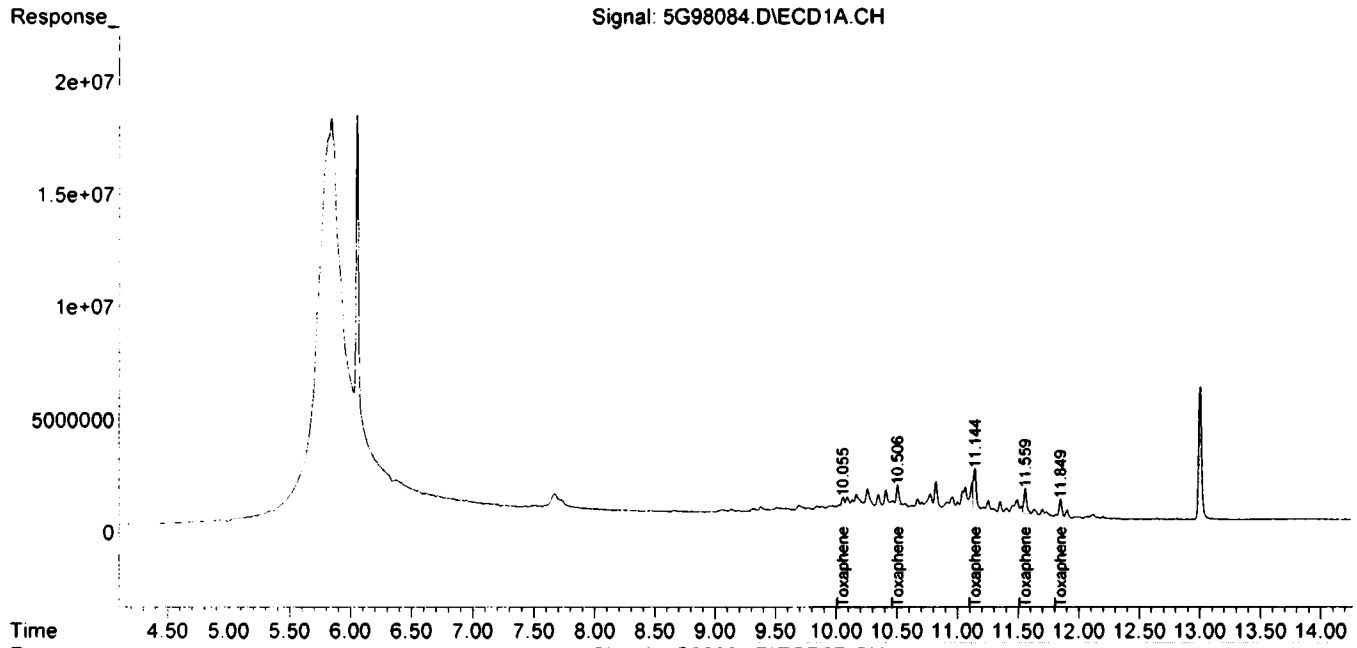
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 26)Toxaphene (1) | 10.055 | 10.105 | 5356181 | 10098357 | 766.703m | 1546.299m# |
| 27)Toxaphene (2) | 10.506 | 10.646 | 13011248 | 13612711 | 511.742m | 799.729m# |
| 28)Toxaphene (3) | 11.144 | 11.133 | 30078441 | 13833285 | 1178.387m | 1099.345m |
| 29)Toxaphene (4) | 11.559 | 11.657 | 18437694 | 31615783 | 771.373m | 2096.304m# |
| 30)Toxaphene (5) | 11.849 | 12.024 | 11643501 | 13681800 | 407.641m | 1112.993m# |

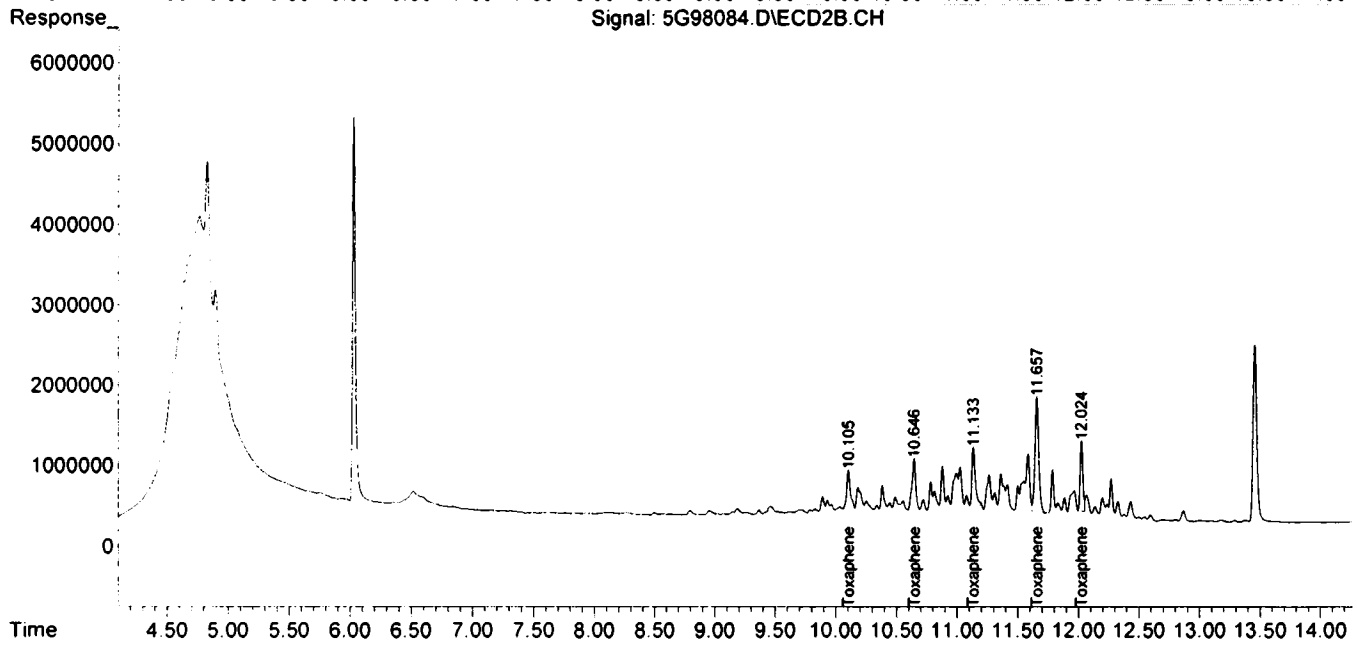
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98084.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 17:19:12
Operator : MS/MLC
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 10:02:15 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:52:59 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98085.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 17:37:23
Operator : MS/MLC
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 10:13:21 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:52:59 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 26)Toxaphene {1} | 10.056 | 10.103 | 11704520 | 19303147 | 1675.427m | 2955.771m# |
| 27)Toxaphene {2} | 10.505 | 10.646 | 27755630 | 23461769 | 1091.650m | 1378.349m# |
| 28)Toxaphene {3} | 11.144 | 11.133 | 61295681 | 29217810 | 2401.389m | 2321.968m |
| 29)Toxaphene {4} | 11.559 | 11.657 | 40786477 | 69634364 | 1706.373m | 4617.150m# |
| 30)Toxaphene {5} | 11.851 | 12.025 | 29075103 | 28432370 | 1005.678m | 2312.928m# |

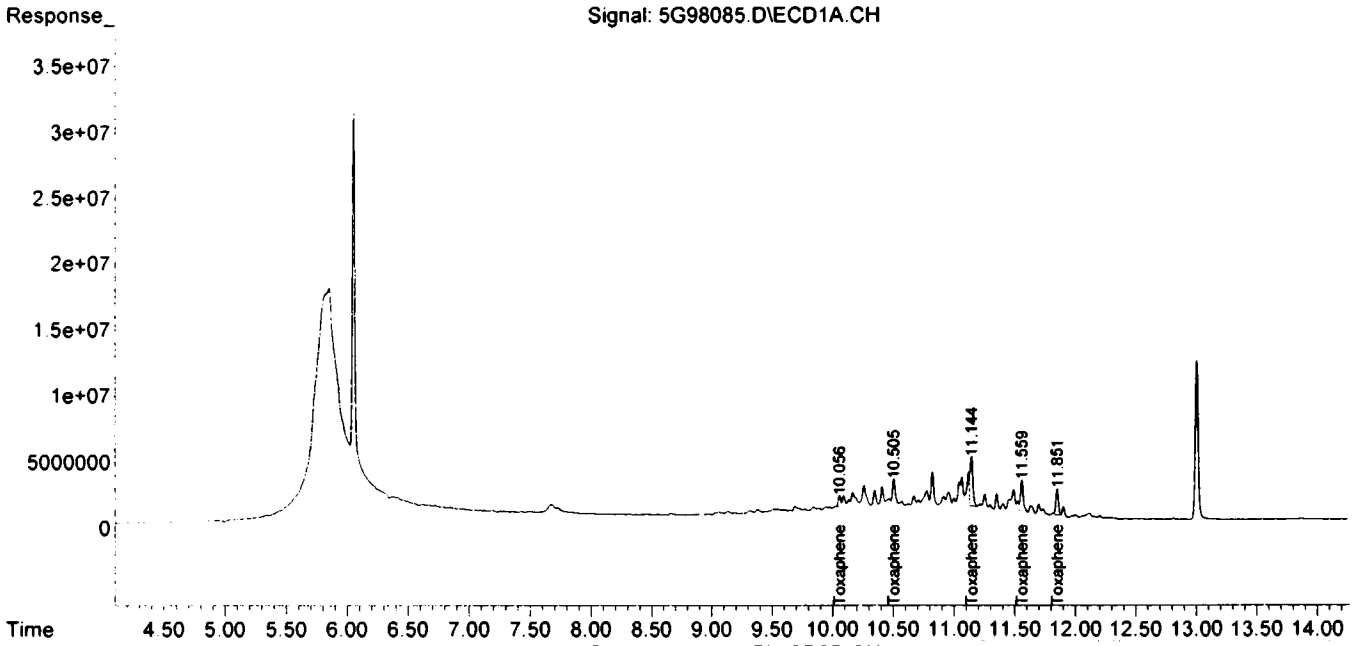
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

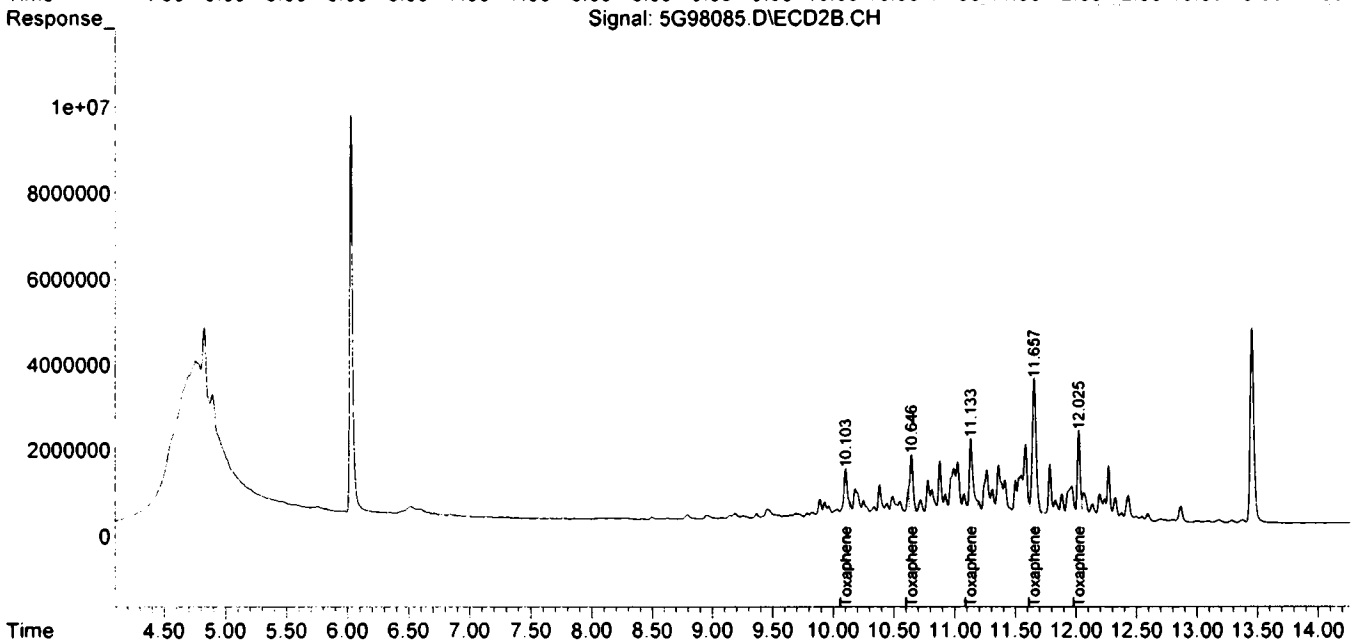
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98085.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 17:37:23
Operator : MS/MLC
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 10:13:21 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:52:59 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 17:55:34
Operator : MS/MLC
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 10:15:56 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:52:59 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 26)Toxaphene {1} | 10.056 | 10.103 | 25896662 | 35947314 | 3706.940m | 5504.389m# |
| 27)Toxaphene {2} | 10.506 | 10.646 | 58242086 | 49471999 | 2290.705m | 2906.416m# |
| 28)Toxaphene {3} | 11.144 | 11.134 | 126.9E6 | 59330433 | 4969.911m | 4715.048m |
| 29)Toxaphene {4} | 11.558 | 11.657 | 88803603 | 145.9E6 | 3715.252m | 9675.138m# |
| 30)Toxaphene {5} | 11.850 | 12.023 | 71659723 | 58550720 | 2410.513m | 4763.008m# |

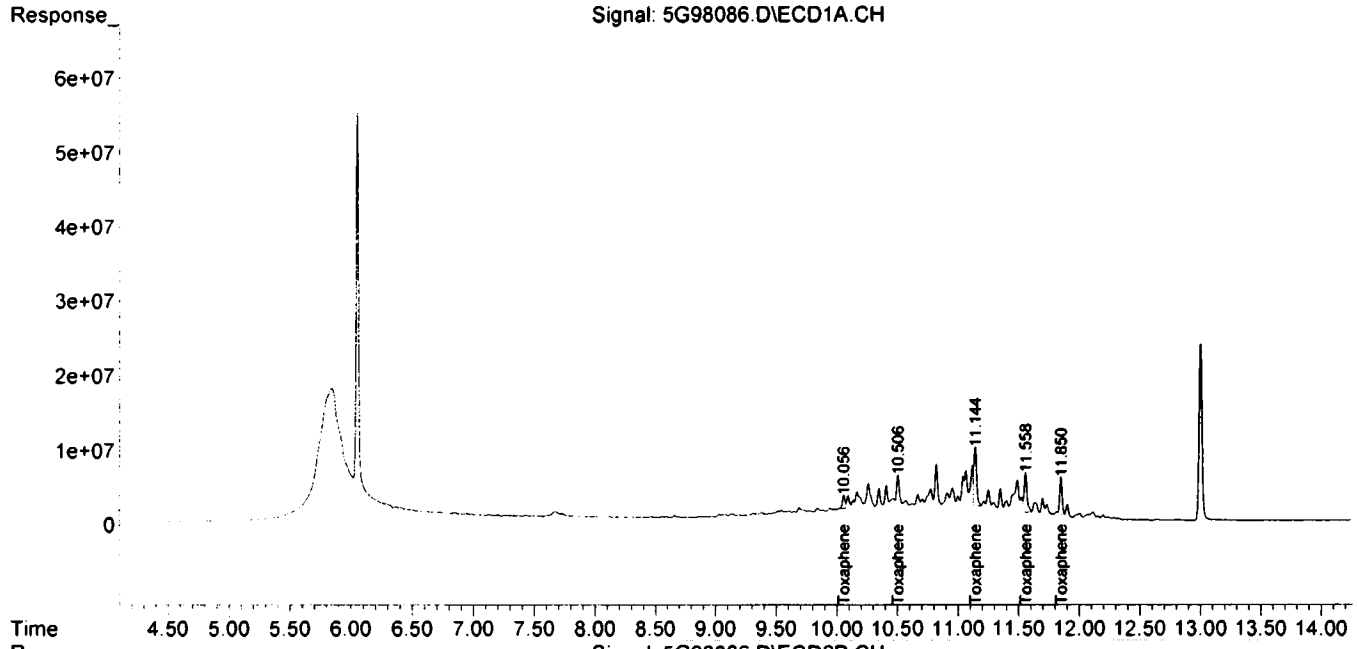
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

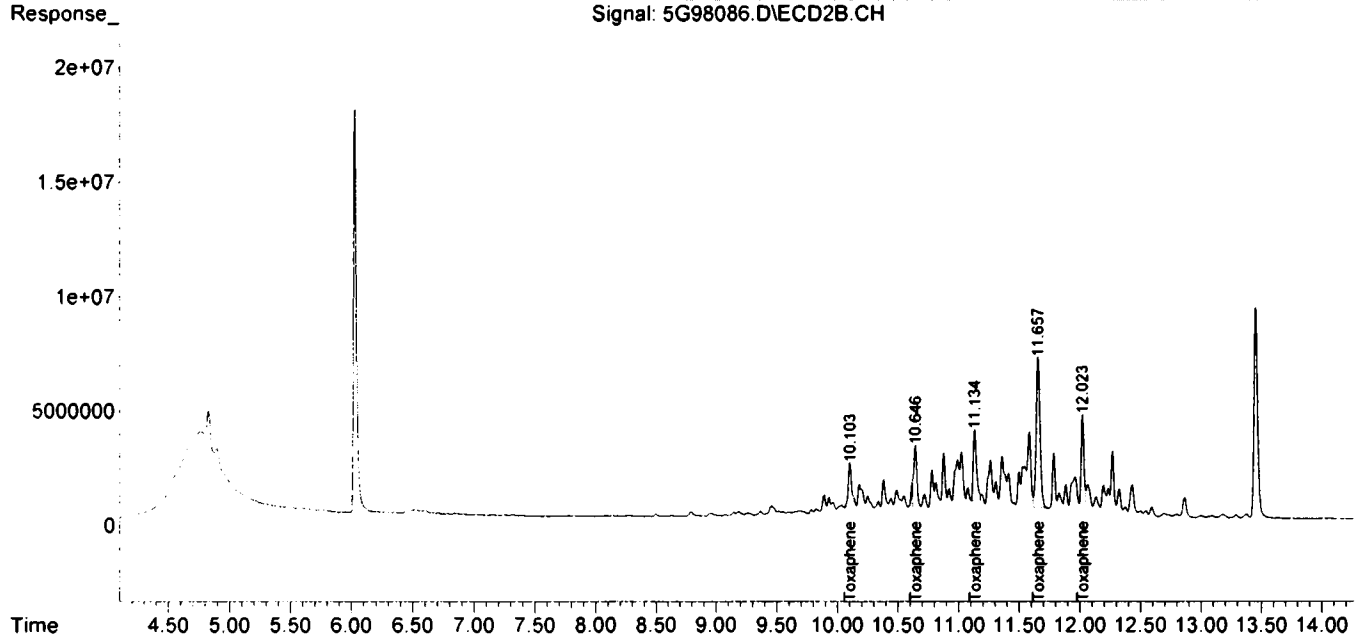
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 17:55:34
Operator : MS/MLC
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 10:15:56 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 09:52:59 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98087.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 18:13:48
Operator : MS/MLC
Sample : TOX V
Misc : S,PEST
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 10:35:26 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 26)Toxaphene {1} | 10.058 | 10.105 | 2640673 | 5421813 | 467.638m | 535.671 |
| 27)Toxaphene {2} | 10.506 | 10.647 | 6502102 | 6844167 | 513.563m | 541.460 |
| 28)Toxaphene {3} | 11.145 | 11.135 | 13405758 | 7085035 | 468.821m | 520.692m |
| 29)Toxaphene {4} | 11.561 | 11.659 | 9547016 | 15531774 | 508.450m | 542.997 |
| 30)Toxaphene {5} | 11.851 | 12.026 | 4547095 | 7720732 | 467.974m | 594.908 # |

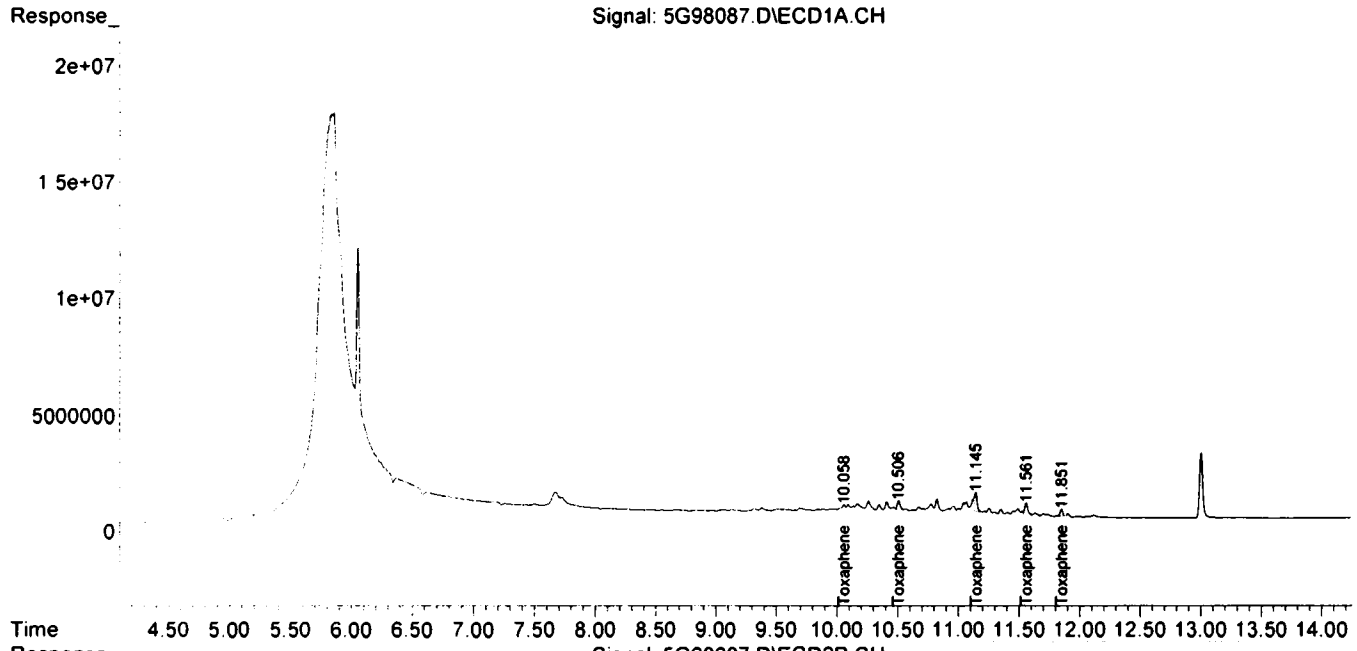
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

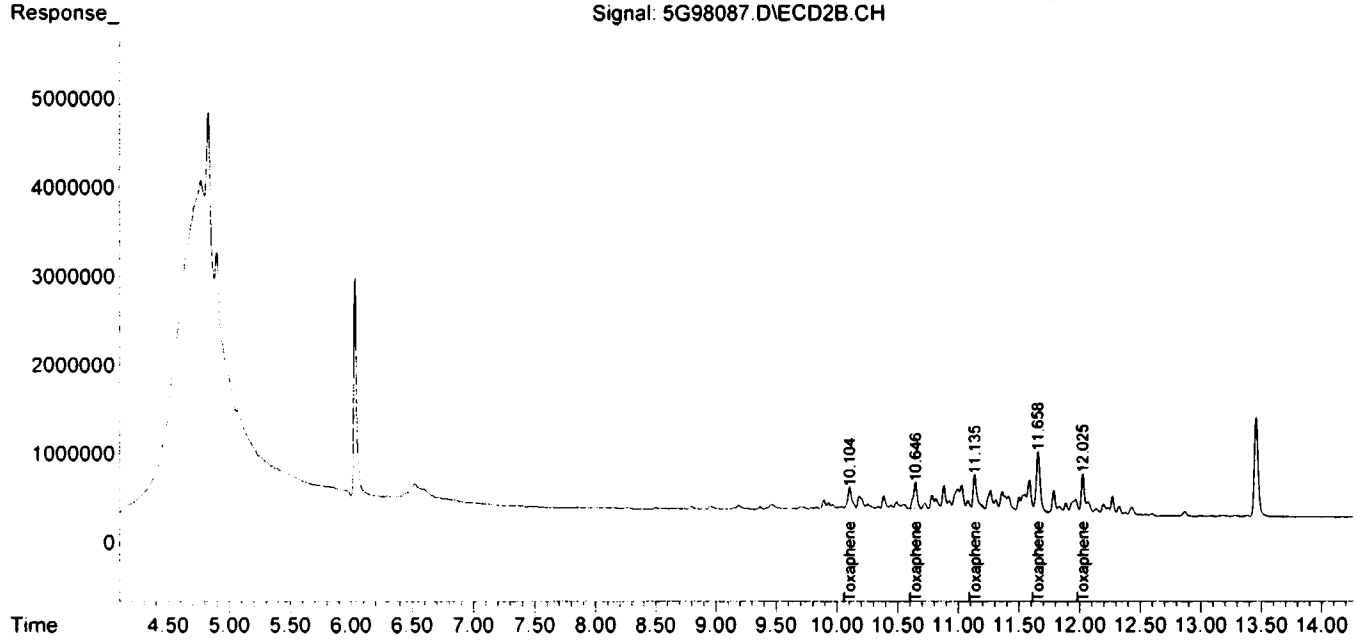
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2021\GC_5\DATA\09-0921\
Data File : 5G98087.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 18:13:48
Operator : MS/MLC
Sample : TOX V
Misc : S,PEST
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 10 10:35:26 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 9:54
Operator : MS/MLC/AH
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 10:21:10 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0824.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri Sep 03 14:52:11 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

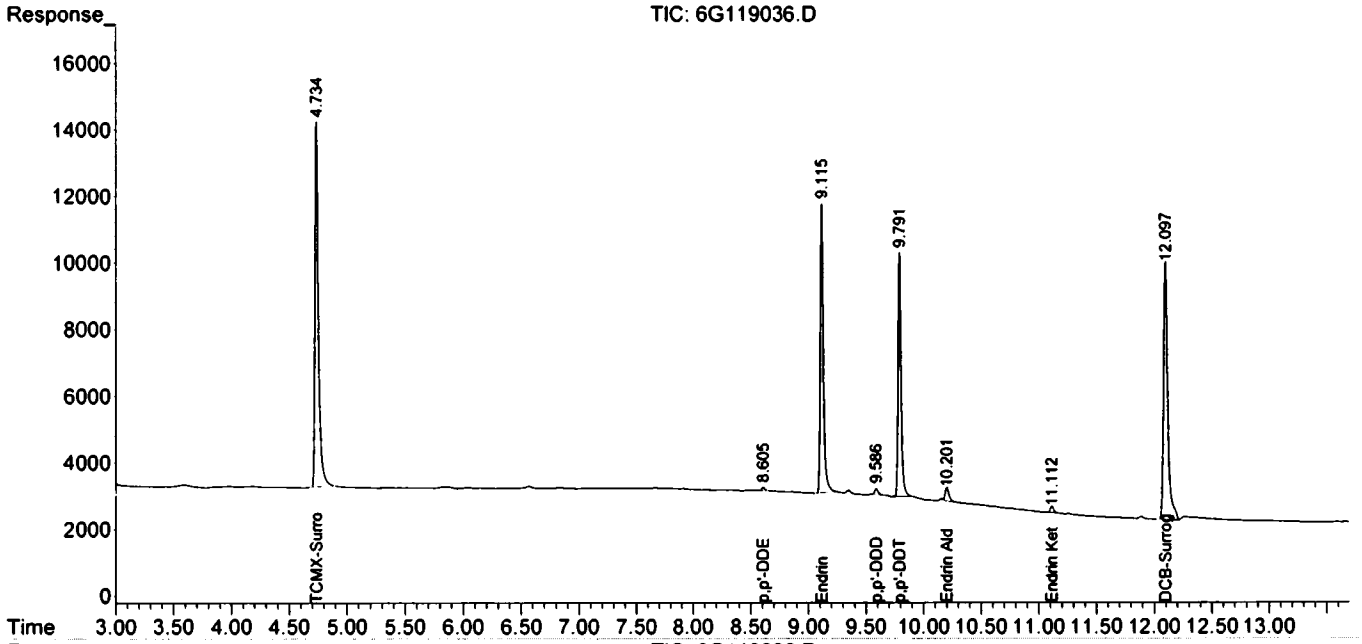
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 4.735 | 4.719 | 226927 | 1167515 | 125.655 | 97.162 |
| 12) | p,p'-DDE | 8.605 | 8.572 | 1628 | 8909 | 1.161m | 0.880m |
| 14) | Endrin | 9.116 | 9.195 | 158817 | 851699 | 133.131 | 113.622 |
| 15) | p,p'-DDD | 9.586 | 9.286 | 3652 | 43030 | 3.596m | 5.556 # |
| 17) | p,p'-DDT | 9.792 | 9.668 | 131138 | 698231 | 173.469 | 98.502 # |
| 18) | Endrin Aldehyde | 10.201 | 9.826 | 9201 | 10406 | 8.546m | 1.301m# |
| 21) | Endrin Ketone | 11.112 | 10.964 | 3816 | 18214 | 3.762m | 2.144m# |
| 22) | DCB-Surrogate | 12.098 | 12.580 | 196069 | 771729 | 154.907 | 116.510 |

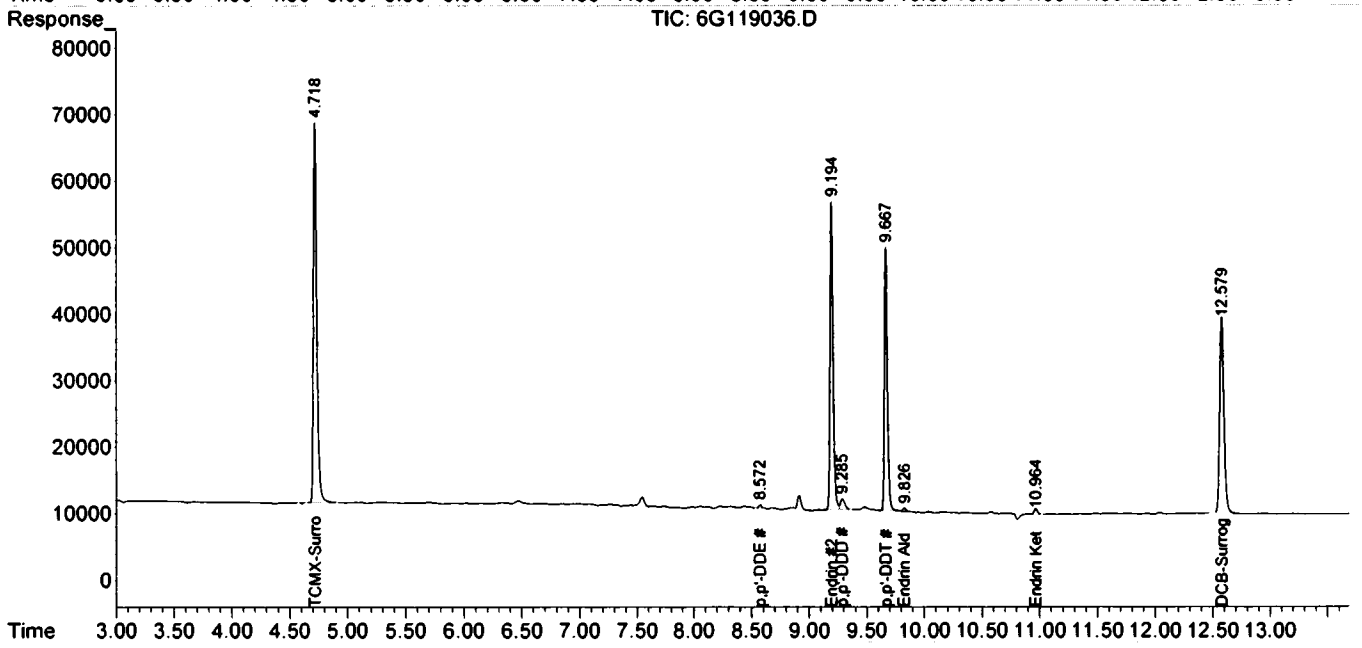
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-09-21\
Data File : 6G119036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 9 Sep 2021 9:54
Operator : MS/MLC/AH
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 10:21:10 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0824.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri Sep 03 14:52:11 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 13:49:56
Operator : MS/MLC
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 09 14:12:07 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0514.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 14 11:09:46 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

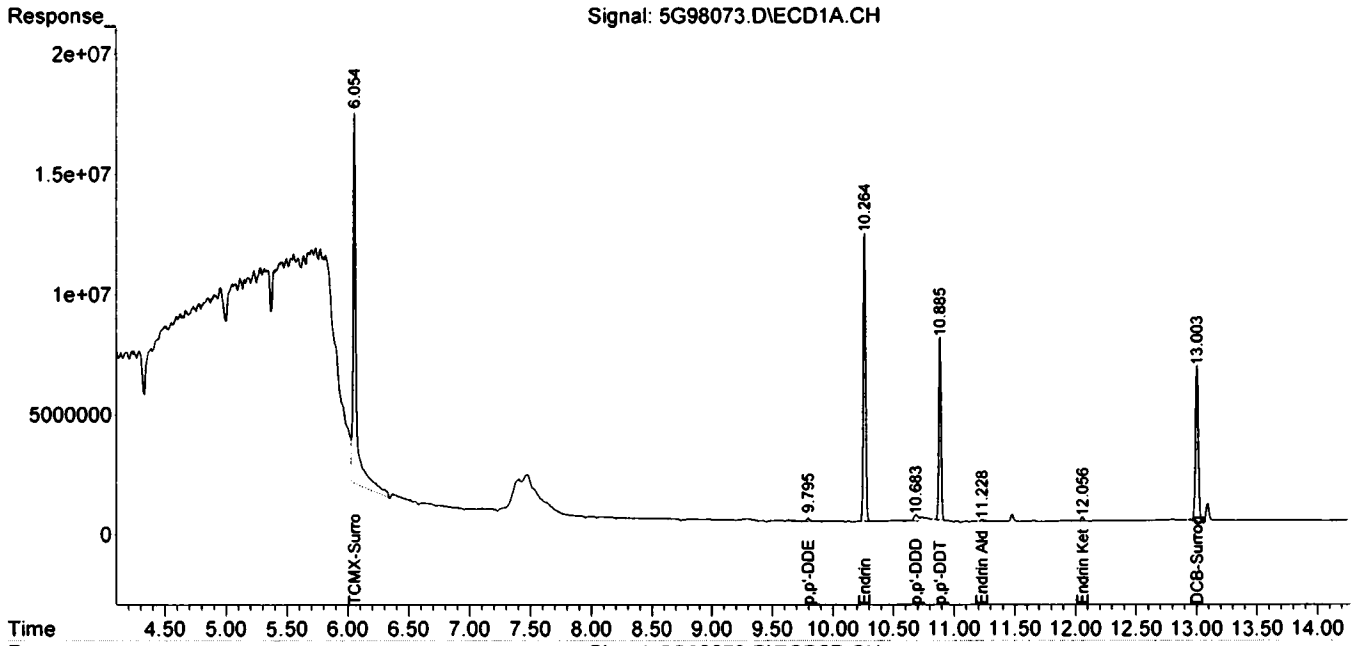
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.055 | 6.022 | 295.6E6 | 97240796 | 174.937 | 125.571 # |
| 12)p,p'-DDE | 9.795 | 9.810 | 2813397 | 689667 | 1.759m | 0.867m# |
| 14)Endrin | 10.264 | 10.387 | 157.3E6 | 66495669 | 118.136 | 102.482 |
| 15)p,p'-DDD | 10.683 | 10.478 | 5899612 | 1145053 | 4.425m | 1.918 # |
| 17)p,p'-DDT | 10.885 | 10.831 | 96159557 | 51245610 | 109.012 | 102.819 |
| 18)Endrin Aldehyde | 11.228 | 10.982 | 1882447 | 1563003 | 1.731m | 2.546 # |
| 21)Endrin Ketone | 12.056 | 12.042 | 2443436 | 1441408 | 2.250m | 2.057 |
| 22)DCB-Surrogate | 13.003 | 13.448 | 103.9E6 | 47526630 | 105.253 | 85.528 |

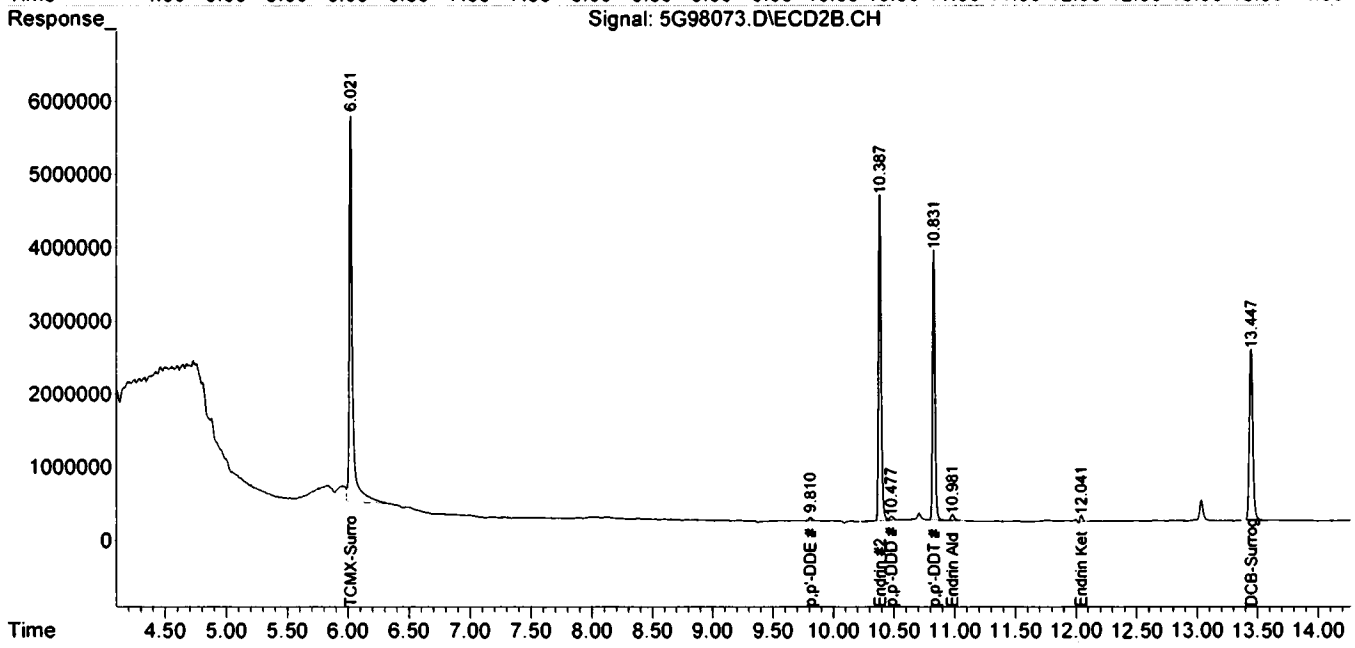
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-0921\
Data File : 5G98073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-Sep-21, 13:49:56
Operator : MS/MLC
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 09 14:12:07 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0514.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri May 14 11:09:46 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98220.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19-Sep-21, 22:24:21
Operator : MS/MLC/MC
Sample : CAL EVAL
Misc : A,PEST
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 08:58:08 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

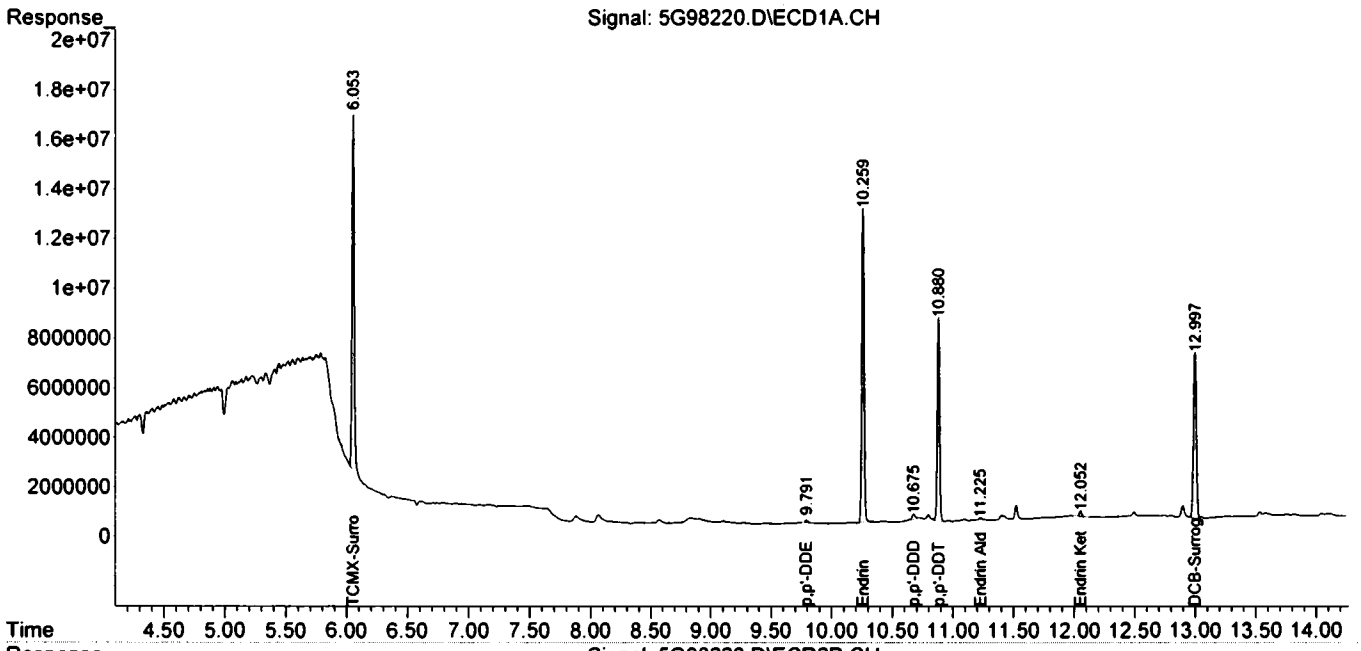
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.053 | 6.019 | 178.2E6 | 76326569 | 92.882m | 85.656 |
| 12)p,p'-DDE | 9.792 | 9.804 | 1711239 | 1631022 | 0.858 | 1.879 # |
| 14)Endrin | 10.259 | 10.381 | 163.8E6 | 62320694 | 95.663 | 91.765 |
| 15)p,p'-DDD | 10.675 | 10.468 | 4124024 | 2420616 | 2.734m | 3.766 # |
| 17)p,p'-DDT | 10.881 | 10.824 | 103.7E6 | 47984068 | 86.626 | 79.258m |
| 18)Endrin Aldehyde | 11.225 | 10.972 | 1754853 | 1694126 | 1.490m | 2.863m# |
| 21)Endrin Ketone | 12.052 | 12.037 | 3258368 | 2318804 | 2.441 | 3.184 # |
| 22)DCB-Surrogate | 12.997 | 13.440 | 109.4E6 | 53831100 | 97.985 | 102.016 |

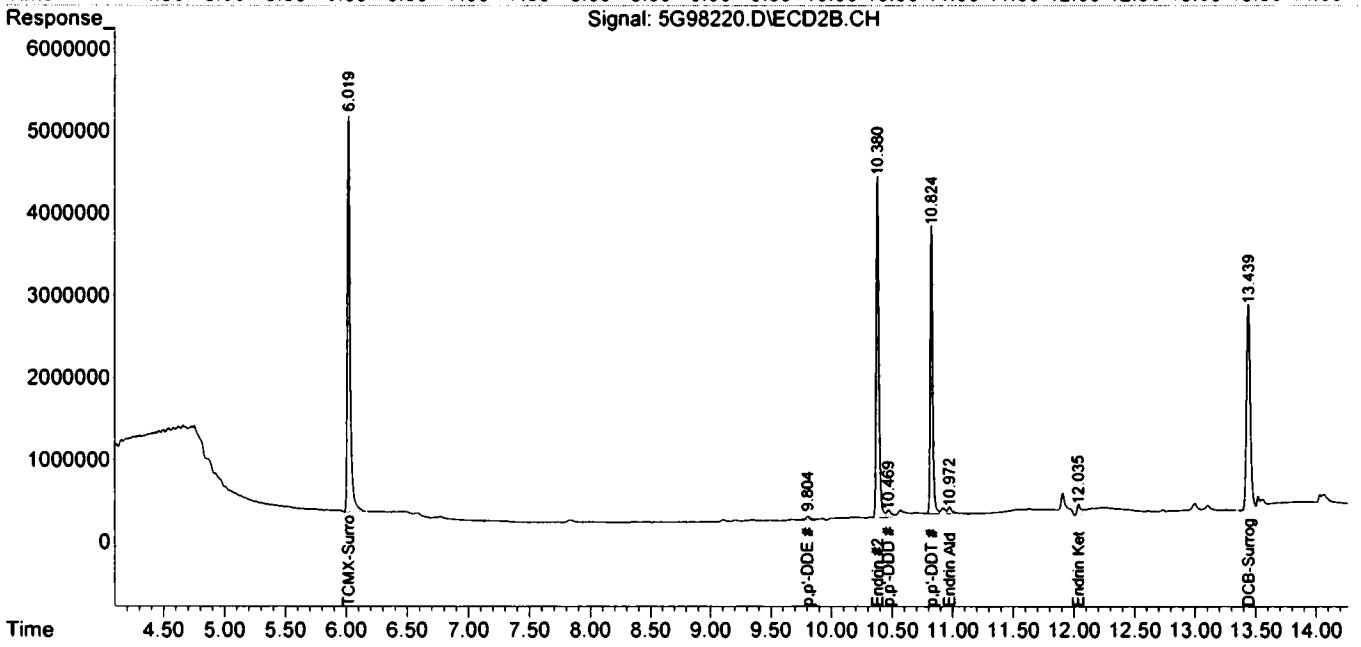
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98220.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19-Sep-21, 22:24:21
Operator : MS/MLC/MC
Sample : CAL EVAL
Misc : A,PEST
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 08:58:08 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\GCDATA\2021\GC_5\Data\09-21-21\
Data File : 5G98258.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 07:55:11
Operator : MS/MLC/MC
Sample : CAL EVAL
Misc : A,PEST
ALS Vial : 99 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Oct 13 12:59:12 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

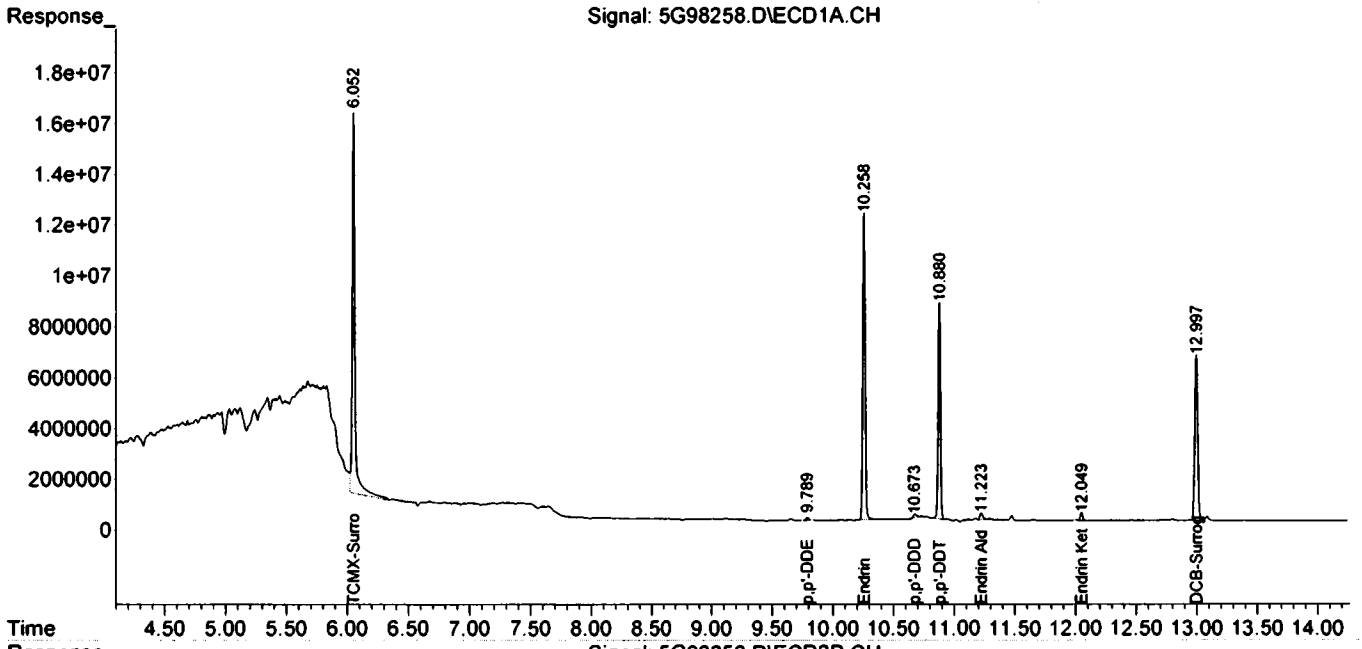
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.053 | 6.019 | 230.6E6 | 78800166 | 120.170 | 88.432 # |
| 12)p,p'-DDE | 9.790 | 9.805 | 1624243 | 870482 | 0.815 | 1.003 |
| 14)Endrin | 10.258 | 10.381 | 162.6E6 | 61711467 | 94.986m | 90.868m |
| 15)p,p'-DDD | 10.676 | 10.469 | 2017424 | 2152751 | 1.338 | 3.349 # |
| 17)p,p'-DDT | 10.880 | 10.825 | 109.4E6 | 51971858 | 91.396 | 85.845 |
| 18)Endrin Aldehyde | 11.224 | 10.975 | 4424480 | 2996711 | 3.757 | 5.064 # |
| 21)Endrin Ketone | 12.050 | 12.035 | 4384312 | 3483363 | 3.285 | 4.784 # |
| 22)DCB-Surrogate | 12.997 | 13.437 | 109.8E6 | 52936901 | 98.390 | 100.321m |

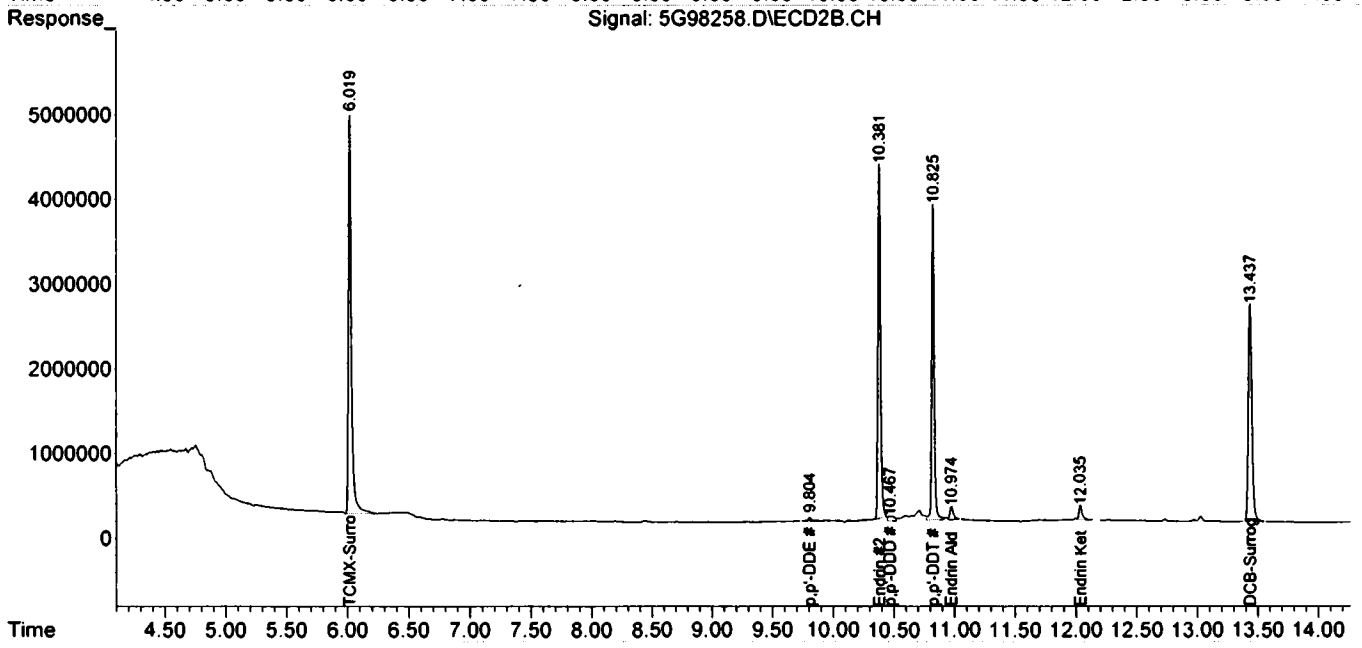
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2021\GC_5\Data\09-21-21\
Data File : 5G98258.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 07:55:11
Operator : MS/MLC/MC
Sample : CAL EVAL
Misc : A,PEST
ALS Vial : 99 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Oct 13 12:59:12 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98336.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Sep-21, 22:06:23
Operator : MS/MLC/MC
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 28 09:43:07 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

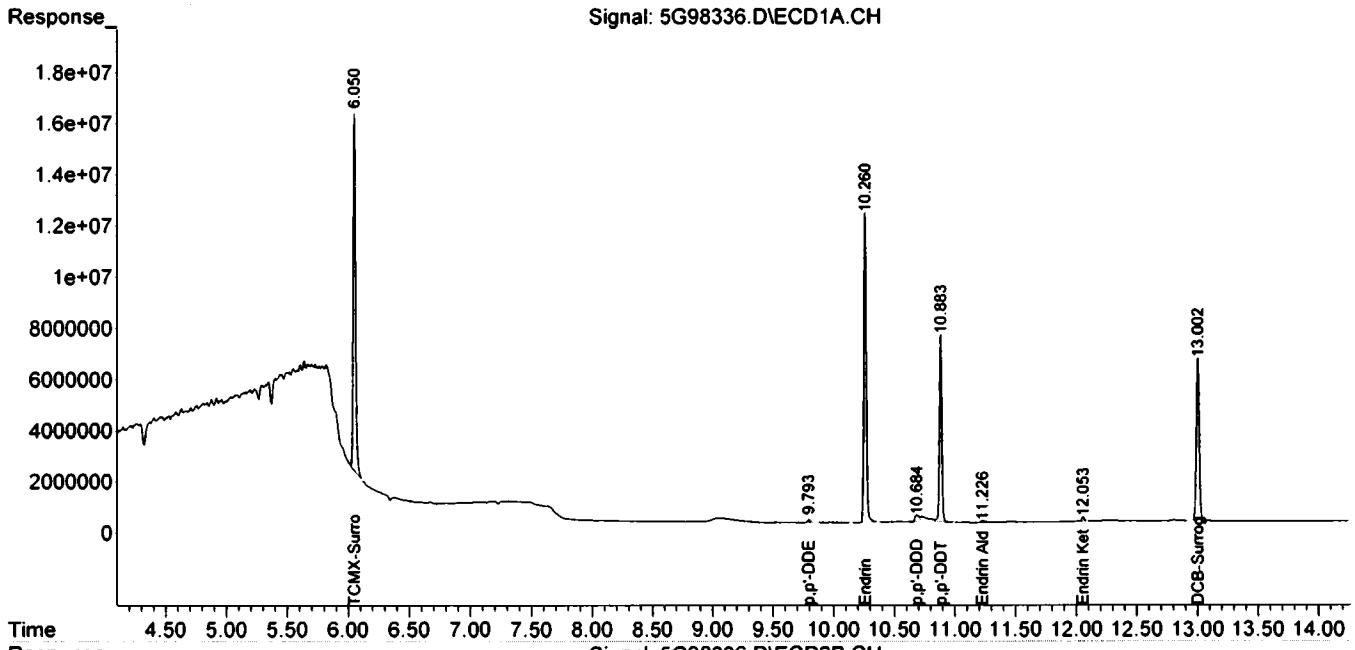
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | | |
| 1) | TCMX-Surrogate | 6.050 | 6.016 | 187.9E6 | 83712637 | 97.932m | 93.945 | |
| 12) | p,p'-DDE | 9.794 | 9.809 | 1679304 | 813220 | 0.842 | 0.937 | |
| 14) | Endrin | 10.260 | 10.384 | 165.9E6 | 65674036 | 96.927 | 96.703 | |
| 15) | p,p'-DDD | 10.685 | 10.476 | 6181410 | 2464810 | 4.098 | 3.835 | |
| 17) | p,p'-DDT | 10.884 | 10.829 | 97358167 | 47599483 | 81.304 | 78.622 | |
| 18) | Endrin Aldehyde | 11.226 | 10.977 | 1500089 | 975707 | 1.274m | 1.649 | # |
| 21) | Endrin Ketone | 12.053 | 12.040 | 2411358 | 2198320 | 1.807m | 3.019m | # |
| 22) | DCB-Surrogate | 13.002 | 13.444 | 104.7E6 | 47895224 | 93.742 | 90.766 | |

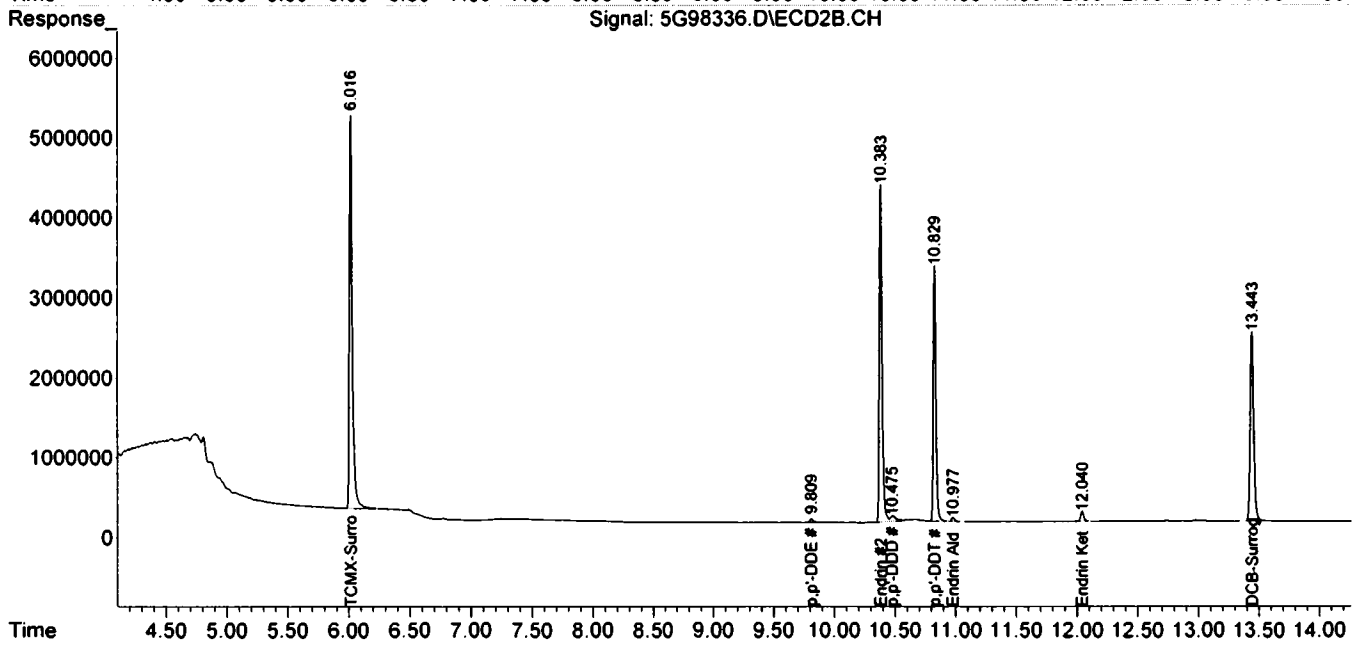
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98336.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Sep-21, 22:06:23
Operator : MS/MLC/MC
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 28 09:43:07 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119455.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2021 23:39
Operator : MS/MLC/MC/PR
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 08:30:56 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

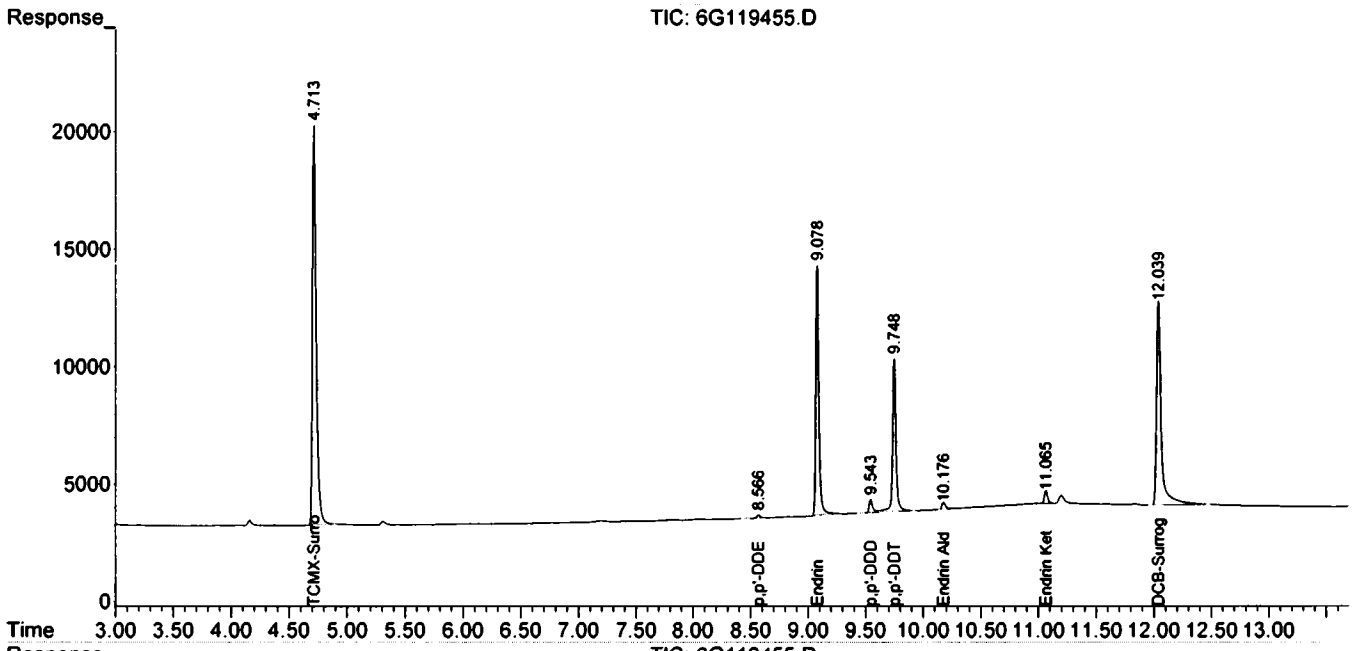
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 4.714 | 4.715 | 380254 | 1305207 | 154.752 | 89.703 # |
| 12)p,p'-DDE | 8.566 | 8.567 | 1760 | 11369 | 0.747 | 0.979 # |
| 14)Endrin | 9.079 | 9.188 | 191854 | 876406 | 112.215 | 83.085 # |
| 15)p,p'-DDD | 9.544 | 9.276 | 11300 | 59342 | 7.340 | 6.294 |
| 17)p,p'-DDT | 9.748 | 9.661 | 133474 | 669324 | 77.924 | 82.684 |
| 18)Endrin Aldehyde | 10.176 | 9.819 | 6433 | 45456 | 3.920m | 5.056 # |
| 21)Endrin Ketone | 11.065 | 10.958 | 10804 | 49939 | 6.003m | 4.851m |
| 22)DCB-Surrogate | 12.040 | 12.571 | 246512 | 829490 | 111.231 | 93.087 |

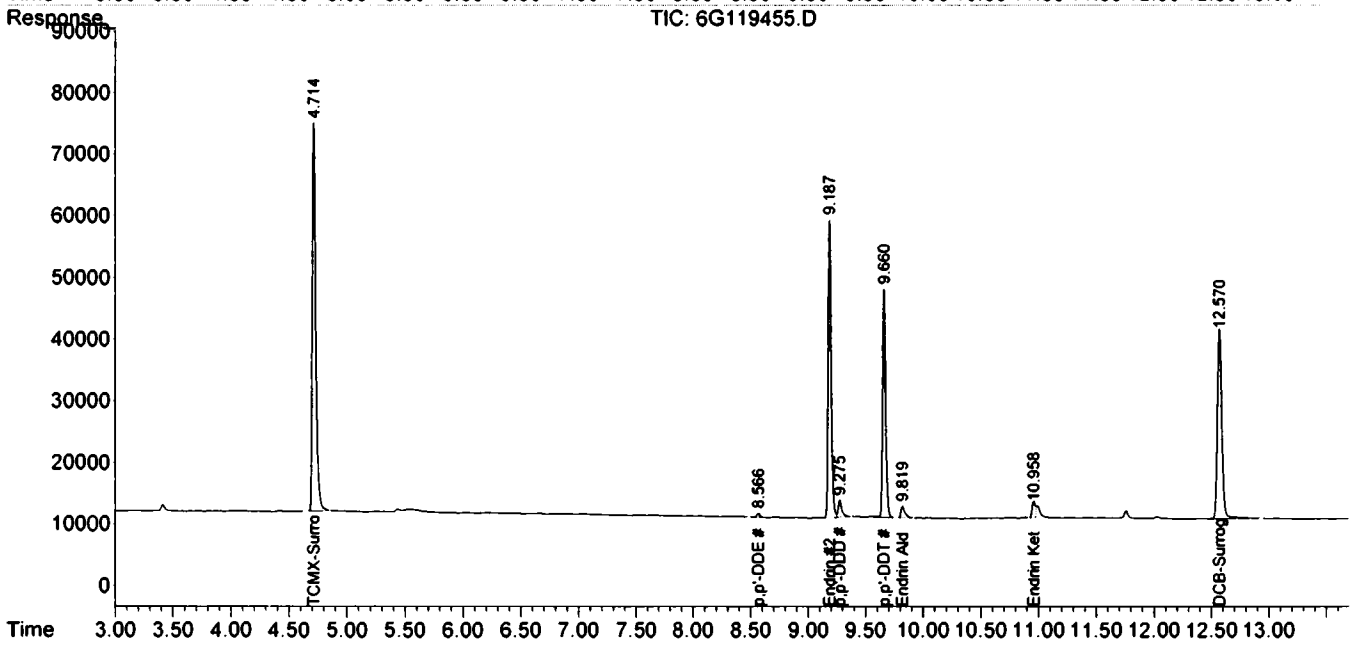
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119455.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Sep 2021 23:39
Operator : MS/MLC/MC/PR
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 08:30:56 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-29-21\
Data File : 5G98385.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29-Sep-21, 09:06:07
Operator : MS/MLC/MC/PR
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 99 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 09:26:48 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

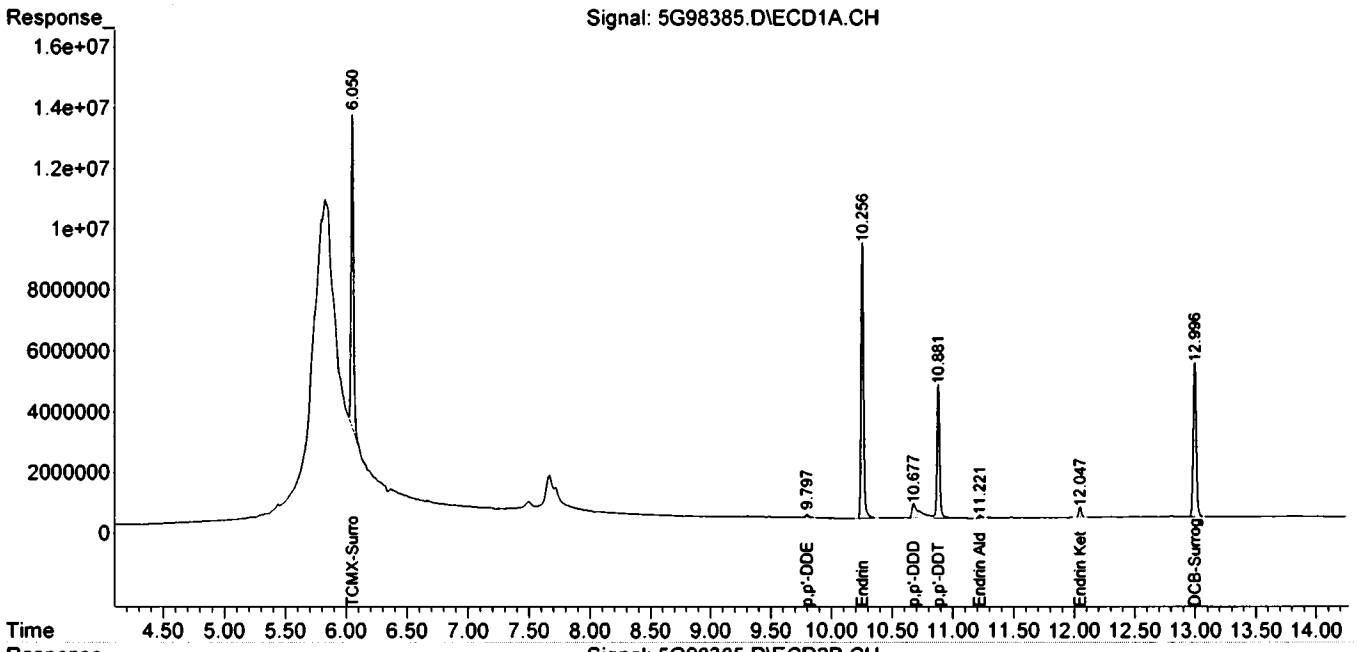
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | | |
| 1) | TCMX-Surrogate | 6.050 | 6.027 | 145.5E6 | 68447512 | 75.842m | 76.814 | |
| 12) | p,p'-DDE | 9.797 | 9.820 | 1886326 | 847012 | 0.946m | 0.976 | |
| 14) | Endrin | 10.256 | 10.390 | 130.6E6 | 51931138 | 76.267 | 76.467 | |
| 15) | p,p'-DDD | 10.677 | 10.487 | 9830242 | 5359429 | 6.517m | 8.338 | # |
| 17) | p,p'-DDT | 10.881 | 10.837 | 65614193 | 33938539 | 54.794m | 56.058 | |
| 18) | Endrin Aldehyde | 11.223 | 10.983 | 1709251 | 1673398 | 1.452 | 2.828 | # |
| 21) | Endrin Ketone | 12.048 | 12.045 | 4960948 | 4792443 | 3.717 | 6.581m | # |
| 22) | DCB-Surrogate | 12.996 | 13.449 | 87940955 | 41508077 | 78.771 | 78.662 | |

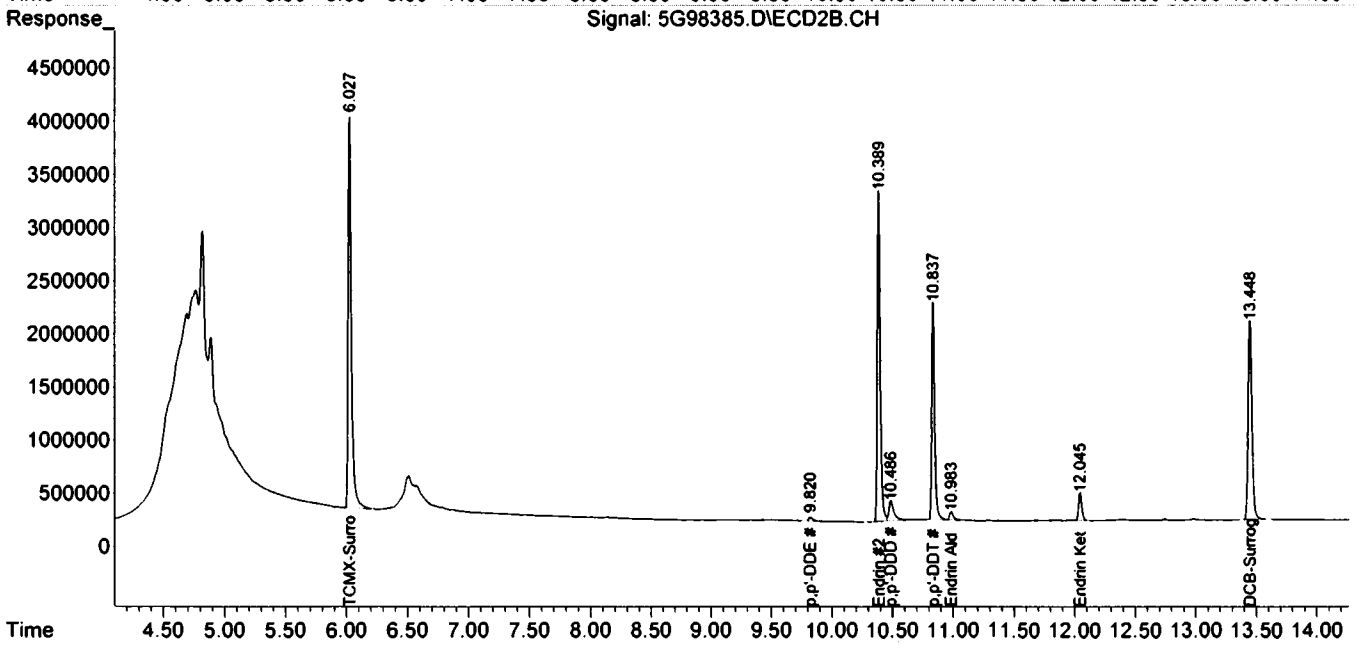
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-29-21\
Data File : 5G98385.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29-Sep-21, 09:06:07
Operator : MS/MLC/MC/PR
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 99 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 09:26:48 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



TxtDfile: 5G98088.D ICV FORM Date/Time: 09/09/21 18:32

| Compound | bytCol Num: | bytMr Num: | Type | sngConc: | Exp Conc | Rec | Flag | sngLoLim: | sngHiLim: |
|---|---|---|---|---|---|---|---|---|---|
| TCMX-Surrogate | 2 | 0 | | 94.27 | 100 | 94 | | 70 | 130 |
| TCMX-Surrogate | 1 | 0 | | 94.94 | 100 | 95 | | 70 | 130 |
| alpha-BHC | 1 | 0 | | 89.45 | 100 | 89 | | 70 | 130 |
| alpha-BHC | 2 | 0 | | 92.89 | 100 | 93 | | 70 | 130 |
| gamma-BHC | 2 | 0 | | 93.37 | 100 | 93 | | 70 | 130 |
| gamma-BHC | 1 | 0 | | 98.72 | 100 | 99 | | 70 | 130 |
| beta-BHC | 1 | 0 | | 86.52 | 100 | 87 | | 70 | 130 |
| beta-BHC | 2 | 0 | | 94.37 | 100 | 94 | | 70 | 130 |
| Heptachlor | 2 | 0 | | 93.86 | 100 | 94 | | 70 | 130 |
| Heptachlor | 1 | 0 | | 95.61 | 100 | 96 | | 70 | 130 |
| delta-BHC | 2 | 0 | | 94.97 | 100 | 95 | | 70 | 130 |
| delta-BHC | 1 | 0 | | 91.2 | 100 | 91 | | 70 | 130 |
| Aldrin | 1 | 0 | | 97.53 | 100 | 98 | | 70 | 130 |
| Aldrin | 2 | 0 | | 97.05 | 100 | 97 | | 70 | 130 |
| Heptachlor Epoxide | 2 | 0 | | 95.84 | 100 | 96 | | 70 | 130 |
| Heptachlor Epoxide | 1 | 0 | | 97.29 | 100 | 97 | | 70 | 130 |
| y-chlordane | 1 | 0 | | 95.54 | 100 | 96 | | 70 | 130 |
| y-chlordane | 2 | 0 | | 98.23 | 100 | 98 | | 70 | 130 |
| a-chlordane | 1 | 0 | | 94.82 | 100 | 95 | | 70 | 130 |
| a-chlordane | 2 | 0 | | 96.24 | 100 | 96 | | 70 | 130 |
| Endosulfan I | 2 | 0 | | 98.01 | 100 | 98 | | 70 | 130 |
| Endosulfan I | 1 | 0 | | 96.27 | 100 | 96 | | 70 | 130 |
| p,p'-DDE | 2 | 0 | | 97.38 | 100 | 97 | | 70 | 130 |
| p,p'-DDE | 1 | 0 | | 96.16 | 100 | 96 | | 70 | 130 |
| Dieldrin | 2 | 0 | | 104.74 | 100 | 105 | | 70 | 130 |
| Dieldrin | 1 | 0 | | 98.65 | 100 | 99 | | 70 | 130 |
| Endrin | 2 | 0 | | 91.35 | 100 | 91 | | 70 | 130 |
| Endrin | 1 | 0 | | 91.07 | 100 | 91 | | 70 | 130 |
| p,p'-DDD | 1 | 0 | | 104.21 | 100 | 104 | | 70 | 130 |
| p,p'-DDD | 2 | 0 | | 107.97 | 100 | 108 | | 70 | 130 |
| Endosulfan II | 2 | 0 | | 100.24 | 100 | 100 | | 70 | 130 |
| Endosulfan II | 1 | 0 | | 97.51 | 100 | 98 | | 70 | 130 |
| p,p'-DDT | 2 | 0 | | 84.47 | 100 | 84 | | 70 | 130 |
| p,p'-DDT | 1 | 0 | | 82.76 | 100 | 83 | | 70 | 130 |
| Endrin Aldehyde | 2 | 0 | | 103.13 | 100 | 103 | | 70 | 130 |
| Endrin Aldehyde | 1 | 0 | | 109.15 | 100 | 109 | | 70 | 130 |
| Endosulfan Sulfate | 2 | 0 | | 101.41 | 100 | 101 | | 70 | 130 |
| Endosulfan Sulfate | 1 | 0 | | 102.18 | 100 | 102 | | 70 | 130 |
| Methoxychlor | 2 | 0 | | 84.08 | 100 | 84 | | 70 | 130 |
| Methoxychlor | 1 | 0 | | 78.76 | 100 | 79 | | 70 | 130 |
| Endrin Ketone | 2 | 0 | | 88.96 | 100 | 89 | | 70 | 130 |
| Endrin Ketone | 1 | 0 | | 87.54 | 100 | 88 | | 70 | 130 |
| DCB-Surrogate | 2 | 0 | | 97 | 100 | 97 | | 70 | 130 |
| DCB-Surrogate | 1 | 0 | | 94.97 | 100 | 95 | | 70 | 130 |

TxtDfile: 6G119053.D ICV FORM Date/Time: 09/09/21 17:16 1091738 1695

| Compound | bytCol Num: | bytMr Num: | Type | sngConc: | Exp Conc | Rec | Flag | sngLoLim: | sngHiLim: |
|---|---|---|---|---|---|---|---|---|---|
| TCMX-Surrogate | 1 | 0 | | 99.37 | 100 | 99 | | 70 | 130 |
| TCMX-Surrogate | 2 | 0 | | 91.6 | 100 | 92 | | 70 | 130 |
| alpha-BHC | 2 | 0 | | 97.35 | 100 | 97 | | 70 | 130 |
| alpha-BHC | 1 | 0 | | 84.64 | 100 | 85 | | 70 | 130 |
| gamma-BHC | 2 | 0 | | 93.33 | 100 | 93 | | 70 | 130 |
| gamma-BHC | 1 | 0 | | 88.83 | 100 | 89 | | 70 | 130 |
| beta-BHC | 2 | 0 | | 83.12 | 100 | 83 | | 70 | 130 |
| beta-BHC | 1 | 0 | | 84.42 | 100 | 84 | | 70 | 130 |
| Heptachlor | 1 | 0 | | 89.65 | 100 | 90 | | 70 | 130 |
| Heptachlor | 2 | 0 | | 89.18 | 100 | 89 | | 70 | 130 |
| delta-BHC | 1 | 0 | | 85.17 | 100 | 85 | | 70 | 130 |
| delta-BHC | 2 | 0 | | 91.84 | 100 | 92 | | 70 | 130 |
| Aldrin | 1 | 0 | | 86.4 | 100 | 86 | | 70 | 130 |
| Aldrin | 2 | 0 | | 97.65 | 100 | 98 | | 70 | 130 |
| Heptachlor Epoxide | 1 | 0 | | 88.89 | 100 | 89 | | 70 | 130 |
| Heptachlor Epoxide | 2 | 0 | | 92.03 | 100 | 92 | | 70 | 130 |
| v-chlordane | 2 | 0 | | 92.97 | 100 | 93 | | 70 | 130 |
| v-chlordane | 1 | 0 | | 91.01 | 100 | 91 | | 70 | 130 |
| a-chlordane | 1 | 0 | | 91.13 | 100 | 91 | | 70 | 130 |
| a-chlordane | 2 | 0 | | 92.34 | 100 | 92 | | 70 | 130 |
| Endosulfan I | 1 | 0 | | 92.03 | 100 | 92 | | 70 | 130 |
| Endosulfan I | 2 | 0 | | 94.3 | 100 | 94 | | 70 | 130 |
| o,o'-DDE | 2 | 0 | | 96.49 | 100 | 96 | | 70 | 130 |
| o,o'-DDE | 1 | 0 | | 86.5 | 100 | 87 | | 70 | 130 |
| Dieldrin | 2 | 0 | | 99.18 | 100 | 99 | | 70 | 130 |
| Dieldrin | 1 | 0 | | 97.88 | 100 | 98 | | 70 | 130 |
| Endrin | 2 | 0 | | 89.64 | 100 | 90 | | 70 | 130 |
| Endrin | 1 | 0 | | 92.03 | 100 | 92 | | 70 | 130 |
| o,o'-DDD | 2 | 0 | | 100.63 | 100 | 101 | | 70 | 130 |
| o,o'-DDD | 1 | 0 | | 98.82 | 100 | 99 | | 70 | 130 |
| Endosulfan II | 2 | 0 | | 92.7 | 100 | 93 | | 70 | 130 |
| Endosulfan II | 1 | 0 | | 91.84 | 100 | 92 | | 70 | 130 |
| o,o'-DDT | 1 | 0 | | 84.24 | 100 | 84 | | 70 | 130 |
| o,o'-DDT | 2 | 0 | | 94.97 | 100 | 95 | | 70 | 130 |
| Endrin Aldehyde | 2 | 0 | | 99.41 | 100 | 99 | | 70 | 130 |
| Endrin Aldehyde | 1 | 0 | | 90.97 | 100 | 91 | | 70 | 130 |
| Endosulfan Sulfate | 2 | 0 | | 95.15 | 100 | 95 | | 70 | 130 |
| Endosulfan Sulfate | 1 | 0 | | 91.82 | 100 | 92 | | 70 | 130 |
| Methoxychlor | 2 | 0 | | 88.75 | 100 | 89 | | 70 | 130 |
| Methoxychlor | 1 | 0 | | 87.12 | 100 | 87 | | 70 | 130 |
| Endrin Ketone | 1 | 0 | | 82.93 | 100 | 83 | | 70 | 130 |
| Endrin Ketone | 2 | 0 | | 80.32 | 100 | 80 | | 70 | 130 |
| DCB-Surrogate | 2 | 0 | | 96.39 | 100 | 96 | | 70 | 130 |
| DCB-Surrogate | 1 | 0 | | 90.99 | 100 | 91 | | 70 | 130 |

# Form7
Continuing Calibration

Method: EPA 8081B

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Data File:** | | | | 5G98222.D | | | 5G98245.D | | | 5G98257.D | | | 5G98259.D | | | 5G98270.D | | |
| **Method:** | | | | 8081 | | | 8081 | | | 8081 | | | 8081 | | | 8081 | | |
| **Calibration Name:** | | | | CAL PEST@100PP | | | CAL PEST@100PP | | | CAL PEST@100PP | | | CAL PEST@100PP | | | CAL PEST@100PP | | |
| **Calibration Date/Time** | | | | 09/19/21 23:00 | | | 09/20/21 09:16 | | | 09/20/21 15:52 | | | 09/21/21 08:17 | | | 09/21/21 13:30 | | |
| Compound | Limit | Col | Mr | Conc | Conc Exp | %Diff | Conc | Conc Exp | %Diff | Conc | Conc Exp | %Diff | Conc | Conc Exp | %Diff | Conc | Conc Exp | %Diff |
| TCMX-Surrogate | 20 | 1 | 0 | 95.15 | 100 | 4.8 | 98.27 | 100 | 1.7 | 101.7 | 100 | 1.7 | 111.8 | 100 | 11.8 | 98.66 | 100 | 1.3 |
| alpha-BHC | 20 | 1 | 0 | 94.12 | 100 | 5.9 | 92.01 | 100 | 8.0 | 100.2 | 100 | 0.2 | 93.85 | 100 | 6.2 | 89.17 | 100 | 10.8 |
| gamma-BHC | 20 | 1 | 0 | 108.7 | 100 | 8.7 | 108.8 | 100 | 8.8 | 114.4 | 100 | 14.4 | 109.4 | 100 | 9.4 | 109.0 | 100 | 9.0 |
| beta-BHC | 20 | 1 | 0 | 99.84 | 100 | 0.2 | 98.8 | 100 | 1.2 | 105.7 | 100 | 5.7 | 98.3 | 100 | 1.7 | 101.6 | 100 | 1.6 |
| Heptachlor | 20 | 1 | 0 | 107.9 | 100 | 7.9 | 99.56 | 100 | 0.4 | 108.1 | 100 | 8.1 | 100.3 | 100 | 0.3 | 103.6 | 100 | 3.6 |
| delta-BHC | 20 | 1 | 0 | 102.7 | 100 | 2.7 | 104.6 | 100 | 4.6 | 109.8 | 100 | 9.8 | 104.1 | 100 | 4.1 | 101.9 | 100 | 1.9 |
| Aldrin | 20 | 1 | 0 | 101.5 | 100 | 1.5 | 101 | 100 | 1.0 | 105.3 | 100 | 5.3 | 100.6 | 100 | 0.6 | 101.5 | 100 | 1.5 |
| Heptachlor Epoxide | 20 | 1 | 0 | 104.8 | 100 | 4.8 | 104.3 | 100 | 4.3 | 111.7 | 100 | 11.7 | 103.8 | 100 | 3.8 | 102.9 | 100 | 2.9 |
| y-chlordane | 20 | 1 | 0 | 103.1 | 100 | 3.1 | 104.8 | 100 | 4.8 | 107.1 | 100 | 7.1 | 102.8 | 100 | 2.8 | 103.4 | 100 | 3.4 |
| a-chlordane | 20 | 1 | 0 | 103.2 | 100 | 3.2 | 104.2 | 100 | 4.2 | 106.1 | 100 | 6.1 | 103.2 | 100 | 3.2 | 104.3 | 100 | 4.3 |
| Endosulfan I | 20 | 1 | 0 | 99.87 | 100 | 0.1 | 98.83 | 100 | 1.2 | 104.0 | 100 | 4.0 | 97.85 | 100 | 2.2 | 98.84 | 100 | 1.2 |
| p,p'-DDE | 20 | 1 | 0 | 104.7 | 100 | 4.7 | 104.6 | 100 | 4.6 | 108.3 | 100 | 8.3 | 102.9 | 100 | 2.9 | 105.6 | 100 | 5.6 |
| Dieldrin | 20 | 1 | 0 | 102.5 | 100 | 2.5 | 103.3 | 100 | 3.3 | 107.0 | 100 | 7.0 | 101.2 | 100 | 1.2 | 102.4 | 100 | 2.4 |
| Endrin | 20 | 1 | 0 | 98.21 | 100 | 1.8 | 91.01 | 100 | 9.0 | 102.1 | 100 | 2.1 | 93.32 | 100 | 6.7 | 99.56 | 100 | 0.4 |
| p,p'-DDD | 20 | 1 | 0 | 102.4 | 100 | 2.3 | 103.4 | 100 | 3.4 | 105.0 | 100 | 5.0 | 99.91 | 100 | 0.1 | 100.4 | 100 | 0.4 |
| Endosulfan II | 20 | 1 | 0 | 104.2 | 100 | 4.2 | 105.6 | 100 | 5.6 | 108.1 | 100 | 8.1 | 104.3 | 100 | 4.3 | 106.3 | 100 | 6.3 |
| p,p'-DDT | 20 | 1 | 0 | 88.45 | 100 | 11.6 | 91.69 | 100 | 8.3 | 104.8 | 100 | 4.8 | 92.04 | 100 | 8.0 | 95.28 | 100 | 4.7 |
| Endrin Aldehyde | 20 | 1 | 0 | 115.5 | 100 | 15.5 | 122.6 | 100 | 22.6* | 118.1 | 100 | 18.1 | 117.3 | 100 | 17.3 | 114.6 | 100 | 14.6 |
| Endosulfan Sulfate | 20 | 1 | 0 | 110.6 | 100 | 10.6 | 112.5 | 100 | 12.5 | 111.9 | 100 | 11.9 | 110.7 | 100 | 10.7 | 114.8 | 100 | 14.8 |
| Methoxychlor | 20 | 1 | 0 | 83.68 | 100 | 16.3 | 85.72 | 100 | 14.3 | 99.7 | 100 | 0.3 | 83.52 | 100 | 16.5 | 84.12 | 100 | 15.9 |
| Endrin Ketone | 20 | 1 | 0 | 110.8 | 100 | 10.8 | 116.6 | 100 | 16.6 | 116.4 | 100 | 16.4 | 113.5 | 100 | 13.5 | 112 | 100 | 12.0 |
| DCB-Surrogate | 20 | 1 | 0 | 105.8 | 100 | 5.8 | 108 | 100 | 8.0 | 107.4 | 100 | 7.4 | 105.2 | 100 | 5.2 | 107.1 | 100 | 7.1 |
| Average Difference | 20 | 1 | 0 | | | 5.9 | | | 6.7 | | | 7.4 | | | 6.0 | | | 5.7 |
| TCMX-Surrogate | 20 | 2 | 0 | 94.5 | 100 | 5.5 | 91.93 | 100 | 8.1 | 96.91 | 100 | 3.1 | 93.64 | 100 | 6.4 | 93.37 | 100 | 6.6 |
| alpha-BHC | 20 | 2 | 0 | 97.98 | 100 | 2.0 | 95.03 | 100 | 5.0 | 100.7 | 100 | 0.7 | 95.42 | 100 | 4.6 | 98.13 | 100 | 1.9 |
| gamma-BHC | 20 | 2 | 0 | 96.62 | 100 | 3.4 | 93.86 | 100 | 6.1 | 100.2 | 100 | 0.2 | 93.54 | 100 | 6.5 | 95.17 | 100 | 4.8 |
| beta-BHC | 20 | 2 | 0 | 105.1 | 100 | 5.1 | 101.3 | 100 | 1.3 | 109.3 | 100 | 9.3 | 101.4 | 100 | 1.4 | 103.9 | 100 | 3.9 |
| Heptachlor | 20 | 2 | 0 | 92.81 | 100 | 7.2 | 88.82 | 100 | 11.2 | 98.79 | 100 | 1.2 | 82.18 | 100 | 17.8 | 91.48 | 100 | 8.5 |
| delta-BHC | 20 | 2 | 0 | 101.6 | 100 | 1.6 | 99.11 | 100 | 0.9 | 106.1 | 100 | 6.1 | 99.02 | 100 | 1.0 | 100.2 | 100 | 0.2 |
| Aldrin | 20 | 2 | 0 | 101.1 | 100 | 1.1 | 97.05 | 100 | 2.9 | 104 | 100 | 4.0 | 97.95 | 100 | 2.1 | 102.2 | 100 | 2.2 |
| Heptachlor Epoxide | 20 | 2 | 0 | 100.9 | 100 | 0.9 | 99.44 | 100 | 0.6 | 104.4 | 100 | 4.4 | 98.97 | 100 | 1.0 | 100.5 | 100 | 0.5 |
| y-chlordane | 20 | 2 | 0 | 103.9 | 100 | 3.9 | 101.2 | 100 | 1.2 | 106.5 | 100 | 6.5 | 101.9 | 100 | 1.9 | 102.3 | 100 | 2.3 |
| a-chlordane | 20 | 2 | 0 | 98.01 | 100 | 2.0 | 95.94 | 100 | 4.1 | 104.3 | 100 | 4.3 | 96.08 | 100 | 3.9 | 97.17 | 100 | 2.8 |
| Endosulfan I | 20 | 2 | 0 | 107.6 | 100 | 7.6 | 105.4 | 100 | 5.4 | 107.2 | 100 | 7.2 | 105.4 | 100 | 5.4 | 107.3 | 100 | 7.3 |
| p,p'-DDE | 20 | 2 | 0 | 102.9 | 100 | 2.9 | 101 | 100 | 1.0 | 107.3 | 100 | 7.3 | 97.63 | 100 | 2.4 | 101.2 | 100 | 1.2 |
| Dieldrin | 20 | 2 | 0 | 104 | 100 | 4.0 | 101.8 | 100 | 1.8 | 104 | 100 | 3.9 | 101.5 | 100 | 1.5 | 104.6 | 100 | 4.6 |
| Endrin | 20 | 2 | 0 | 94.38 | 100 | 5.6 | 87.19 | 100 | 12.8 | 101.7 | 100 | 1.7 | 87.05 | 100 | 13.0 | 96.54 | 100 | 3.5 |
| p,p'-DDD | 20 | 2 | 0 | 102.4 | 100 | 2.4 | 100.7 | 100 | 0.7 | 103.9 | 100 | 3.9 | 91.75 | 100 | 8.3 | 99.75 | 100 | 0.3 |
| Endosulfan II | 20 | 2 | 0 | 108.1 | 100 | 8.1 | 107.6 | 100 | 7.6 | 112 | 100 | 12.0 | 106.1 | 100 | 6.1 | 109.9 | 100 | 9.9 |
| p,p'-DDT | 20 | 2 | 0 | 83.13 | 100 | 16.9 | 84.9 | 100 | 15.1 | 99.07 | 100 | 0.9 | 81.86 | 100 | 18.1 | 90.49 | 100 | 9.5 |
| Endrin Aldehyde | 20 | 2 | 0 | 107 | 100 | 7.0 | 112.1 | 100 | 12.1 | 112.9 | 100 | 12.9 | 106.6 | 100 | 6.6 | 109.2 | 100 | 9.2 |
| Endosulfan Sulfate | 20 | 2 | 0 | 105 | 100 | 5.0 | 106.3 | 100 | 6.3 | 111.1 | 100 | 11.1 | 103.8 | 100 | 3.8 | 106.1 | 100 | 6.1 |
| Methoxychlor | 20 | 2 | 0 | 82.07 | 100 | 17.9 | 84.9 | 100 | 15.1 | 96.06 | 100 | 3.9 | 76.58 | 100 | 23.4* | 89.91 | 100 | 10.1 |
| Endrin Ketone | 20 | 2 | 0 | 107.2 | 100 | 7.2 | 112.3 | 100 | 12.3 | 115.8 | 100 | 15.8 | 107.9 | 100 | 7.9 | 110.1 | 100 | 10.1 |
| DCB-Surrogate | 20 | 2 | 0 | 110.6 | 100 | 10.6 | 111.5 | 100 | 11.5 | 115.8 | 100 | 15.8 | 109.5 | 100 | 9.5 | 112.2 | 100 | 12.2 |
| Average Difference | 20 | 2 | 0 | | | 5.8 | | | 6.5 | | | 6.2 | | | 6.9 | | | 5.4 |

***Flags/Notes:*** **** - Values outside of limits for this column/run***

# Form7
Continuing Calibration

Method: EPA 8081B

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Data File:** | | | | 5G98362.D | | | | 5G98384.D | | | | 5G98386.D | | | | 5G98407.D | | | | 6G119472.D | | | |
| **Method:** | | | | 8081 | | | | 8081 | | | | 8081 | | | | 8081 | | | | 8081 | | | |
| **Calibration Name:** | | | | CAL PEST@100PP | | | | CAL PEST@100PP | | | | CAL PEST@100PP | | | | CAL PEST@100PP | | | | CAL PEST@100PP | | | |
| **Calibration Date/Time** | | | | 09/28/21 09:58 | | | | 09/28/21 19:04 | | | | 09/29/21 09:47 | | | | 09/29/21 16:44 | | | | 09/29/21 09:03 | | | |
| | | | | | Conc | | | | Conc | | | | Conc | | | | Conc | | | | Conc | | |
| Compound | Limit | Col | Mr | Conc | Exp | %Diff | | Conc | Exp | %Diff | | Conc | Exp | %Diff | | Conc | Exp | %Diff | | Conc | Exp | %Diff | |
| TCMX-Surrogate | 20 | 1 | 0 | 96.72 | 100 | 3.3 | | 101.3 | 100 | 1.3 | | 86.77 | 100 | 13.2 | | 105.4 | 100 | 5.4 | | 168.0 | 100 | 68.0* | |
| alpha-BHC | 20 | 1 | 0 | 93.02 | 100 | 7.0 | | 101.3 | 100 | 1.3 | | 90.16 | 100 | 9.8 | | 101.1 | 100 | 1.1 | | 139.3 | 100 | 39.3* | |
| gamma-BHC | 20 | 1 | 0 | 104.2 | 100 | 4.2 | | 112.2 | 100 | 12.2 | | 102.4 | 100 | 2.4 | | 116.7 | 100 | 16.7 | | 148.1 | 100 | 48.1* | |
| beta-BHC | 20 | 1 | 0 | 98.42 | 100 | 1.6 | | 101.3 | 100 | 1.3 | | 92.83 | 100 | 7.2 | | 106.5 | 100 | 6.5 | | 140.9 | 100 | 40.9* | |
| Heptachlor | 20 | 1 | 0 | 92.72 | 100 | 7.3 | | 100.1 | 100 | 0.1 | | 91.3 | 100 | 8.7 | | 114.9 | 100 | 14.9 | | 134.5 | 100 | 34.5* | |
| delta-BHC | 20 | 1 | 0 | 102.9 | 100 | 2.9 | | 104 | 100 | 4.0 | | 94.55 | 100 | 5.4 | | 108.5 | 100 | 8.5 | | 147.2 | 100 | 47.1* | |
| Aldrin | 20 | 1 | 0 | 99.7 | 100 | 0.3 | | 103.7 | 100 | 3.7 | | 91.96 | 100 | 8.0 | | 105.8 | 100 | 5.8 | | 128.8 | 100 | 28.8* | |
| Heptachlor Epoxide | 20 | 1 | 0 | 101.7 | 100 | 1.7 | | 107.6 | 100 | 7.6 | | 97.46 | 100 | 2.5 | | 109.5 | 100 | 9.5 | | 133.2 | 100 | 33.2* | |
| y-chlordane | 20 | 1 | 0 | 99.79 | 100 | 0.2 | | 103.0 | 100 | 3.0 | | 91.31 | 100 | 8.7 | | 107.0 | 100 | 7.0 | | 139.1 | 100 | 39.1* | |
| a-chlordane | 20 | 1 | 0 | 97.88 | 100 | 2.1 | | 100.6 | 100 | 0.6 | | 89.68 | 100 | 10.3 | | 104 | 100 | 3.9 | | 136.6 | 100 | 36.6* | |
| Endosulfan I | 20 | 1 | 0 | 99.26 | 100 | 0.7 | | 106 | 100 | 6.0 | | 89.06 | 100 | 10.9 | | 107.1 | 100 | 7.1 | | 139.9 | 100 | 39.9* | |
| p,p'-DDE | 20 | 1 | 0 | 99.16 | 100 | 0.8 | | 104 | 100 | 4.0 | | 90.98 | 100 | 9.0 | | 106.8 | 100 | 6.8 | | 139.8 | 100 | 39.8* | |
| Dieldrin | 20 | 1 | 0 | 100.4 | 100 | 0.4 | | 104.2 | 100 | 4.2 | | 91.37 | 100 | 8.6 | | 106.6 | 100 | 6.6 | | 131.6 | 100 | 31.6* | |
| Endrin | 20 | 1 | 0 | 92.68 | 100 | 7.3 | | 93.61 | 100 | 6.4 | | 90.34 | 100 | 9.7 | | 112.4 | 100 | 12.4 | | 129.1 | 100 | 29.1* | |
| p,p'-DDD | 20 | 1 | 0 | 98.97 | 100 | 1.0 | | 108.2 | 100 | 8.2 | | 90.25 | 100 | 9.8 | | 106.3 | 100 | 6.3 | | 140.7 | 100 | 40.7* | |
| Endosulfan II | 20 | 1 | 0 | 101.9 | 100 | 1.9 | | 104.1 | 100 | 4.1 | | 91.21 | 100 | 8.8 | | 105.8 | 100 | 5.8 | | 133.4 | 100 | 33.4* | |
| p,p'-DDT | 20 | 1 | 0 | 83.29 | 100 | 16.7 | | 81.3 | 100 | 18.7 | | 75.69 | 100 | 24.3* | | 92.81 | 100 | 7.2 | | 89.12 | 100 | 10.9 | |
| Endrin Aldehyde | 20 | 1 | 0 | 115.3 | 100 | 15.3 | | 113.9 | 100 | 13.9 | | 100.2 | 100 | 0.2 | | 111.5 | 100 | 11.5 | | 115.6 | 100 | 15.6 | |
| Endosulfan Sulfate | 20 | 1 | 0 | 104.4 | 100 | 4.4 | | 105.4 | 100 | 5.4 | | 95.72 | 100 | 4.3 | | 108.3 | 100 | 8.3 | | 119.4 | 100 | 19.4 | |
| Methoxychlor | 20 | 1 | 0 | 84.36 | 100 | 15.6 | | 87.96 | 100 | 12.0 | | 79.5 | 100 | 20.5 | | 98.22 | 100 | 1.8 | | 85.98 | 100 | 14.0 | |
| Endrin Ketone | 20 | 1 | 0 | 108.1 | 100 | 8.1 | | 118.3 | 100 | 18.3 | | 98.86 | 100 | 1.1 | | 112.9 | 100 | 12.9 | | 127.6 | 100 | 27.6* | |
| DCB-Surrogate | 20 | 1 | 0 | 102.9 | 100 | 2.8 | | 108.1 | 100 | 8.1 | | 95.1 | 100 | 4.9 | | 106.2 | 100 | 6.2 | | 116.7 | 100 | 16.7 | |
| Average Difference | 20 | 1 | 0 | | | 4.8 | | | | 6.6 | | | | 8.6 | | | | 7.8 | | | | 33.4* | |
| TCMX-Surrogate | 20 | 2 | 0 | 94.24 | 100 | 5.8 | | 99.38 | 100 | 0.6 | | 88.54 | 100 | 11.5 | | 99.09 | 100 | 0.9 | | 93.73 | 100 | 6.3 | |
| alpha-BHC | 20 | 2 | 0 | 96.85 | 100 | 3.2 | | 103.7 | 100 | 3.7 | | 103.6 | 100 | 3.6 | | 107.7 | 100 | 7.7 | | 103.1 | 100 | 3.1 | |
| gamma-BHC | 20 | 2 | 0 | 96.83 | 100 | 3.2 | | 102.8 | 100 | 2.8 | | 94.77 | 100 | 5.2 | | 104.4 | 100 | 4.4 | | 98.39 | 100 | 1.6 | |
| beta-BHC | 20 | 2 | 0 | 101 | 100 | 0.9 | | 109.1 | 100 | 9.1 | | 113 | 100 | 13.0 | | 113.1 | 100 | 13.1 | | 95.87 | 100 | 4.1 | |
| Heptachlor | 20 | 2 | 0 | 80.54 | 100 | 19.5 | | 102.5 | 100 | 2.5 | | 89.12 | 100 | 10.9 | | 105.7 | 100 | 5.7 | | 94.41 | 100 | 5.6 | |
| delta-BHC | 20 | 2 | 0 | 100.4 | 100 | 0.3 | | 103.5 | 100 | 3.5 | | 102.3 | 100 | 2.3 | | 107.4 | 100 | 7.3 | | 101.3 | 100 | 1.3 | |
| Aldrin | 20 | 2 | 0 | 95.17 | 100 | 4.8 | | 101.1 | 100 | 1.1 | | 96.44 | 100 | 3.6 | | 102.7 | 100 | 2.7 | | 98.72 | 100 | 1.3 | |
| Heptachlor Epoxide | 20 | 2 | 0 | 98.12 | 100 | 1.9 | | 102.1 | 100 | 2.1 | | 95.46 | 100 | 4.5 | | 103.3 | 100 | 3.3 | | 92.11 | 100 | 7.9 | |
| y-chlordane | 20 | 2 | 0 | 97.04 | 100 | 3.0 | | 101.2 | 100 | 1.2 | | 93.33 | 100 | 6.7 | | 103.3 | 100 | 3.3 | | 93.33 | 100 | 6.7 | |
| a-chlordane | 20 | 2 | 0 | 94.78 | 100 | 5.2 | | 101.9 | 100 | 1.9 | | 89.96 | 100 | 10.0 | | 101.0 | 100 | 1.0 | | 93.56 | 100 | 6.4 | |
| Endosulfan I | 20 | 2 | 0 | 97.57 | 100 | 2.4 | | 99.47 | 100 | 0.5 | | 94.59 | 100 | 5.4 | | 103.6 | 100 | 3.6 | | 94.8 | 100 | 5.2 | |
| p,p'-DDE | 20 | 2 | 0 | 96.32 | 100 | 3.7 | | 103.1 | 100 | 3.1 | | 92.66 | 100 | 7.3 | | 104.9 | 100 | 4.9 | | 97.72 | 100 | 2.3 | |
| Dieldrin | 20 | 2 | 0 | 97.75 | 100 | 2.3 | | 98.06 | 100 | 1.9 | | 92.21 | 100 | 7.8 | | 104.4 | 100 | 4.4 | | 95.03 | 100 | 5.0 | |
| Endrin | 20 | 2 | 0 | 89.85 | 100 | 10.2 | | 95.37 | 100 | 4.6 | | 92.98 | 100 | 7.0 | | 113.1 | 100 | 13.1 | | 91.5 | 100 | 8.5 | |
| p,p'-DDD | 20 | 2 | 0 | 97.59 | 100 | 2.4 | | 108.2 | 100 | 8.2 | | 94.76 | 100 | 5.2 | | 108.9 | 100 | 8.9 | | 96.73 | 100 | 3.3 | |
| Endosulfan II | 20 | 2 | 0 | 100.8 | 100 | 0.8 | | 101.3 | 100 | 1.3 | | 96.94 | 100 | 3.1 | | 106.4 | 100 | 6.4 | | 92.35 | 100 | 7.7 | |
| p,p'-DDT | 20 | 2 | 0 | 80.63 | 100 | 19.4 | | 87.24 | 100 | 12.8 | | 82.19 | 100 | 17.8 | | 99.11 | 100 | 0.9 | | 89.34 | 100 | 10.7 | |
| Endrin Aldehyde | 20 | 2 | 0 | 104.2 | 100 | 4.2 | | 111.9 | 100 | 11.9 | | 98.82 | 100 | 1.2 | | 106.8 | 100 | 6.8 | | 105.3 | 100 | 5.3 | |
| Endosulfan Sulfate | 20 | 2 | 0 | 97.96 | 100 | 2.0 | | 104.4 | 100 | 4.4 | | 97.32 | 100 | 2.7 | | 106.5 | 100 | 6.4 | | 97.47 | 100 | 2.5 | |
| Methoxychlor | 20 | 2 | 0 | 80.75 | 100 | 19.3 | | 94.46 | 100 | 5.5 | | 83.43 | 100 | 16.6 | | 103.0 | 100 | 3.0 | | 90.35 | 100 | 9.7 | |
| Endrin Ketone | 20 | 2 | 0 | 102.8 | 100 | 2.8 | | 110.1 | 100 | 10.1 | | 94.57 | 100 | 5.4 | | 109.6 | 100 | 9.6 | | 94.01 | 100 | 6.0 | |
| DCB-Surrogate | 20 | 2 | 0 | 99.9 | 100 | 0.1 | | 106.4 | 100 | 6.4 | | 95.47 | 100 | 4.5 | | 108.9 | 100 | 8.9 | | 99.85 | 100 | 0.2 | |
| Average Difference | 20 | 2 | 0 | | | 5.3 | | | | 4.5 | | | | 7.1 | | | | 5.7 | | | | 5.0 | |

*Flags/Notes:* ** - Values outside of limits for this column/run*

# Form7
Continuing Calibration

Method: EPA 8081B

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Data File:** | | | | 6G119486.D | | | 6G119502.D | | | | | | | | | | |
| **Method:** | | | | 8081 | | | 8081 | | | | | | | | | | |
| **Calibration Name:** | | | | CAL PEST@100PP | | | CAL PEST@100PP | | | | | | | | | | |
| **Calibration Date/Time** | | | | 09/29/21 14:29 | | | 09/29/21 19:37 | | | | | | | | | | |
| | | | | Conc | | | Conc | | | Conc | | | Conc | | | Conc | | |
| Compound | Limit | Col | Mr | Conc | Exp | %Diff | Conc | Exp | %Diff | Conc | Exp | %Diff | Conc | Exp | %Diff | Conc | Exp | %Diff |
| TCMX-Surrogate | 20 | 1 | 0 | 171.6 | 100 | 71.6* | 177.3 | 100 | 77.3* | | | | | | | | | |
| alpha-BHC | 20 | 1 | 0 | 141.2 | 100 | 41.1* | 147.6 | 100 | 47.6* | | | | | | | | | |
| gamma-BHC | 20 | 1 | 0 | 150.1 | 100 | 50.1* | 158.0 | 100 | 58.0* | | | | | | | | | |
| beta-BHC | 20 | 1 | 0 | 145 | 100 | 45.0* | 153.5 | 100 | 53.5* | | | | | | | | | |
| Heptachlor | 20 | 1 | 0 | 133.3 | 100 | 33.3* | 140.8 | 100 | 40.8* | | | | | | | | | |
| delta-BHC | 20 | 1 | 0 | 152.5 | 100 | 52.5* | 157.6 | 100 | 57.6* | | | | | | | | | |
| Aldrin | 20 | 1 | 0 | 130.3 | 100 | 30.3* | 136.0 | 100 | 36.0* | | | | | | | | | |
| Heptachlor Epoxide | 20 | 1 | 0 | 135.2 | 100 | 35.2* | 144.3 | 100 | 44.3* | | | | | | | | | |
| y-chlordane | 20 | 1 | 0 | 142.7 | 100 | 42.7* | 155.2 | 100 | 55.2* | | | | | | | | | |
| a-chlordane | 20 | 1 | 0 | 139.5 | 100 | 39.5* | 150.5 | 100 | 50.5* | | | | | | | | | |
| Endosulfan I | 20 | 1 | 0 | 144.8 | 100 | 44.8* | 145.7 | 100 | 45.7* | | | | | | | | | |
| p,p'-DDE | 20 | 1 | 0 | 142.6 | 100 | 42.6* | 151.1 | 100 | 51.1* | | | | | | | | | |
| Dieldrin | 20 | 1 | 0 | 133.6 | 100 | 33.6* | 142.0 | 100 | 42.0* | | | | | | | | | |
| Endrin | 20 | 1 | 0 | 123.7 | 100 | 23.7* | 132.2 | 100 | 32.2* | | | | | | | | | |
| p,p'-DDD | 20 | 1 | 0 | 144.8 | 100 | 44.8* | 154.8 | 100 | 54.8* | | | | | | | | | |
| Endosulfan II | 20 | 1 | 0 | 136.6 | 100 | 36.6* | 145.1 | 100 | 45.1* | | | | | | | | | |
| p,p'-DDT | 20 | 1 | 0 | 88.59 | 100 | 11.4 | 97.45 | 100 | 2.6 | | | | | | | | | |
| Endrin Aldehyde | 20 | 1 | 0 | 124.6 | 100 | 24.6* | 121.4 | 100 | 21.4* | | | | | | | | | |
| Endosulfan Sulfate | 20 | 1 | 0 | 127.9 | 100 | 27.9* | 127.4 | 100 | 27.4* | | | | | | | | | |
| Methoxychlor | 20 | 1 | 0 | 87.95 | 100 | 12.1 | 93.52 | 100 | 6.5 | | | | | | | | | |
| Endrin Ketone | 20 | 1 | 0 | 136.9 | 100 | 36.9* | 143.6 | 100 | 43.6* | | | | | | | | | |
| DCB-Surrogate | 20 | 1 | 0 | 129.3 | 100 | 29.3* | 129.6 | 100 | 29.6* | | | | | | | | | |
| Average Difference | 20 | 1 | 0 | | | 36.8* | | | 41.9* | | | | | | | | | |
| TCMX-Surrogate | 20 | 2 | 0 | 92.5 | 100 | 7.5 | 96.38 | 100 | 3.6 | | | | | | | | | |
| alpha-BHC | 20 | 2 | 0 | 101.3 | 100 | 1.3 | 107.9 | 100 | 7.8 | | | | | | | | | |
| gamma-BHC | 20 | 2 | 0 | 98.45 | 100 | 1.6 | 107 | 100 | 6.9 | | | | | | | | | |
| beta-BHC | 20 | 2 | 0 | 94.74 | 100 | 5.3 | 102.4 | 100 | 2.4 | | | | | | | | | |
| Heptachlor | 20 | 2 | 0 | 93.69 | 100 | 6.3 | 100.7 | 100 | 0.7 | | | | | | | | | |
| delta-BHC | 20 | 2 | 0 | 101.0 | 100 | 1.0 | 108.5 | 100 | 8.5 | | | | | | | | | |
| Aldrin | 20 | 2 | 0 | 98.07 | 100 | 1.9 | 107.6 | 100 | 7.6 | | | | | | | | | |
| Heptachlor Epoxide | 20 | 2 | 0 | 94.08 | 100 | 5.9 | 103.7 | 100 | 3.7 | | | | | | | | | |
| y-chlordane | 20 | 2 | 0 | 95.23 | 100 | 4.8 | 106.1 | 100 | 6.1 | | | | | | | | | |
| a-chlordane | 20 | 2 | 0 | 101.9 | 100 | 1.9 | 105.5 | 100 | 5.5 | | | | | | | | | |
| Endosulfan I | 20 | 2 | 0 | 107.3 | 100 | 7.3 | 105.9 | 100 | 5.9 | | | | | | | | | |
| p,p'-DDE | 20 | 2 | 0 | 106.6 | 100 | 6.6 | 110.4 | 100 | 10.4 | | | | | | | | | |
| Dieldrin | 20 | 2 | 0 | 102.6 | 100 | 2.6 | 108.2 | 100 | 8.2 | | | | | | | | | |
| Endrin | 20 | 2 | 0 | 85.93 | 100 | 14.1 | 98.91 | 100 | 1.1 | | | | | | | | | |
| p,p'-DDD | 20 | 2 | 0 | 96.15 | 100 | 3.8 | 109.5 | 100 | 9.4 | | | | | | | | | |
| Endosulfan II | 20 | 2 | 0 | 91.33 | 100 | 8.7 | 101.9 | 100 | 1.8 | | | | | | | | | |
| p,p'-DDT | 20 | 2 | 0 | 86.48 | 100 | 13.5 | 100.6 | 100 | 0.6 | | | | | | | | | |
| Endrin Aldehyde | 20 | 2 | 0 | 105 | 100 | 5.0 | 115.5 | 100 | 15.5 | | | | | | | | | |
| Endosulfan Sulfate | 20 | 2 | 0 | 94.82 | 100 | 5.2 | 103.6 | 100 | 3.6 | | | | | | | | | |
| Methoxychlor | 20 | 2 | 0 | 80.45 | 100 | 19.6 | 92 | 100 | 8.0 | | | | | | | | | |
| Endrin Ketone | 20 | 2 | 0 | 96.74 | 100 | 3.3 | 103.5 | 100 | 3.5 | | | | | | | | | |
| DCB-Surrogate | 20 | 2 | 0 | 98.11 | 100 | 1.9 | 107 | 100 | 7.0 | | | | | | | | | |
| Average Difference | 20 | 2 | 0 | | | 5.9 | | | 5.8 | | | | | | | | | |

***Flags/Notes:*** **** - Values outside of limits for this column/run***

# Form7

RtWindow Summary

Method: EPA 8081B

| | | | Data File: | 5G98075.D | | 6G119038.D | | 5G98222.D | | 5G98245.D | | 5G98259.D | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Calibration Name: | CAL PEST@2PPB | | CAL PEST@2PPB | | CAL PEST@100PPB | | CAL PEST@100PPB | | CAL PEST@100PPB | |
| | | | Calibration Date/Time | 9/9/2021 2:35:04 PM | | 9/9/2021 10:54:00 AM | | 9/19/2021 11:00:41 PM | | 9/20/2021 9:16:42 AM | | 9/21/2021 8:17:45 AM | |
| Compound | Col | Mr | | Cal RT | Limit | Cal RT | Limit | Cal RT | Limit | Cal RT | Limit | Cal RT | Limit |
| TCMX-Surrogate | 1 | 0 | | 6.05 | (5.99 - 6.11) | 4.73 | (4.67 - 4.79) | 6.05 | (5.99 - 6.11) | 6.05 | (5.99 - 6.11) | 6.05 | (5.99 - 6.11) |
| alpha-BHC | 1 | 0 | | 7.27 | (7.23 - 7.31) | 5.98 | (5.94 - 6.02) | 7.27 | (7.23 - 7.31) | 7.27 | (7.23 - 7.31) | 7.27 | (7.23 - 7.31) |
| gamma-BHC | 1 | 0 | | 7.79 | (7.75 - 7.83) | 6.51 | (6.47 - 6.55) | 7.79 | (7.75 - 7.83) | 7.79 | (7.75 - 7.83) | 7.79 | (7.75 - 7.83) |
| beta-BHC | 1 | 0 | | 8.65 | (8.57 - 8.73) | 7.46 | (7.38 - 7.54) | 8.65 | (8.57 - 8.73) | 8.65 | (8.57 - 8.73) | 8.65 | (8.57 - 8.73) |
| Heptachlor | 1 | 0 | | 8.10 | (8.06 - 8.14) | 6.79 | (6.75 - 6.83) | 8.10 | (8.06 - 8.14) | 8.10 | (8.06 - 8.14) | 8.10 | (8.06 - 8.14) |
| delta-BHC | 1 | 0 | | 8.97 | (8.89 - 9.05) | 7.79 | (7.71 - 7.87) | 8.97 | (8.89 - 9.05) | 8.97 | (8.89 - 9.05) | 8.97 | (8.89 - 9.05) |
| Aldrin | 1 | 0 | | 8.46 | (8.38 - 8.54) | 7.16 | (7.08 - 7.24) | 8.46 | (8.38 - 8.54) | 8.46 | (8.38 - 8.54) | 8.46 | (8.38 - 8.54) |
| Heptachlor Epoxide | 1 | 0 | | 9.25 | (9.21 - 9.29) | 8.03 | (7.99 - 8.07) | 9.25 | (9.21 - 9.29) | 9.25 | (9.21 - 9.29) | 9.25 | (9.21 - 9.29) |
| v-chlordane | 1 | 0 | | 9.63 | (9.59 - 9.67) | 8.44 | (8.40 - 8.48) | 9.63 | (9.59 - 9.67) | 9.63 | (9.59 - 9.67) | 9.63 | (9.59 - 9.67) |
| a-chlordane | 1 | 0 | | 9.70 | (9.66 - 9.74) | 8.51 | (8.47 - 8.55) | 9.70 | (9.66 - 9.74) | 9.70 | (9.66 - 9.74) | 9.69 | (9.65 - 9.73) |
| Endosulfan I | 1 | 0 | | 9.60 | (9.56 - 9.64) | 8.39 | (8.35 - 8.43) | 9.59 | (9.55 - 9.63) | 9.59 | (9.55 - 9.63) | 9.59 | (9.55 - 9.63) |
| o,o'-DDE | 1 | 0 | | 9.80 | (9.72 - 9.88) | 8.60 | (8.52 - 8.68) | 9.80 | (9.72 - 9.88) | 9.80 | (9.72 - 9.88) | 9.80 | (9.72 - 9.88) |
| Dieldrin | 1 | 0 | | 10.02 | (9.94 - 10.10) | 8.85 | (8.77 - 8.93) | 10.01 | (9.93 - 10.09) | 10.01 | (9.93 - 10.09) | 10.01 | (9.93 - 10.09) |
| Endrin | 1 | 0 | | 10.26 | (10.22 - 10.30) | 9.11 | (9.07 - 9.15) | 10.26 | (10.22 - 10.30) | 10.26 | (10.22 - 10.30) | 10.26 | (10.22 - 10.30) |
| o,o'-DDD | 1 | 0 | | 10.68 | (10.60 - 10.76) | 9.58 | (9.50 - 9.66) | 10.68 | (10.60 - 10.76) | 10.68 | (10.60 - 10.76) | 10.68 | (10.60 - 10.76) |
| Endosulfan II | 1 | 0 | | 10.78 | (10.70 - 10.86) | 9.70 | (9.62 - 9.78) | 10.78 | (10.70 - 10.86) | 10.78 | (10.70 - 10.86) | 10.78 | (10.70 - 10.86) |
| o,o'-DDT | 1 | 0 | | 10.89 | (10.81 - 10.97) | 9.79 | (9.71 - 9.87) | 10.88 | (10.80 - 10.96) | 10.88 | (10.80 - 10.96) | 10.88 | (10.80 - 10.96) |
| Endrin Aldehyde | 1 | 0 | | 11.23 | (11.15 - 11.31) | 10.22 | (10.14 - 10.30) | 11.22 | (11.14 - 11.30) | 11.22 | (11.14 - 11.30) | 11.22 | (11.14 - 11.30) |
| Endosulfan Sulfate | 1 | 0 | | 11.57 | (11.53 - 11.61) | 10.59 | (10.55 - 10.63) | 11.57 | (11.53 - 11.61) | 11.57 | (11.53 - 11.61) | 11.57 | (11.53 - 11.61) |
| Methoxychlor | 1 | 0 | | 11.54 | (11.50 - 11.58) | 10.50 | (10.46 - 10.54) | 11.53 | (11.49 - 11.57) | 11.53 | (11.49 - 11.57) | 11.53 | (11.49 - 11.57) |
| Endrin Ketone | 1 | 0 | | 12.06 | (11.98 - 12.14) | 11.10 | (11.02 - 11.18) | 12.05 | (11.97 - 12.13) | 12.05 | (11.97 - 12.13) | 12.05 | (11.97 - 12.13) |
| DCB-Surrogate | 1 | 0 | | 13.00 | (12.94 - 13.06) | 12.09 | (12.03 - 12.15) | 13.00 | (12.94 - 13.06) | 13.00 | (12.94 - 13.06) | 13.00 | (12.94 - 13.06) |
| Chlordane (Technical | 1 | 1 | | | | | | | | | | | |
| Chlordane (Technical | 1 | 2 | | | | | | | | | | | |
| Chlordane (Technical | 1 | 3 | | | | | | | | | | | |
| Toxaphene | 1 | 1 | | | | | | | | | | | |
| Toxaphene | 1 | 2 | | | | | | | | | | | |
| Toxaphene | 1 | 3 | | | | | | | | | | | |
| Toxaphene | 1 | 4 | | | | | | | | | | | |
| Toxaphene | 1 | 5 | | | | | | | | | | | |
| TCMX-Surrogate | 2 | 0 | | 6.03 | (5.97 - 6.09) | 4.72 | (4.66 - 4.78) | 6.03 | (5.97 - 6.09) | 6.03 | (5.97 - 6.09) | 6.02 | (5.96 - 6.08) |
| alpha-BHC | 2 | 0 | | 7.03 | (6.99 - 7.07) | 5.67 | (5.63 - 5.71) | 7.03 | (6.99 - 7.07) | 7.03 | (6.99 - 7.07) | 7.02 | (6.98 - 7.06) |
| gamma-BHC | 2 | 0 | | 7.57 | (7.53 - 7.61) | 6.22 | (6.18 - 6.26) | 7.57 | (7.53 - 7.61) | 7.56 | (7.52 - 7.60) | 7.56 | (7.52 - 7.60) |
| beta-BHC | 2 | 0 | | 7.66 | (7.58 - 7.74) | 6.30 | (6.22 - 6.38) | 7.66 | (7.58 - 7.74) | 7.66 | (7.58 - 7.74) | 7.66 | (7.58 - 7.74) |
| Heptachlor | 2 | 0 | | 8.00 | (7.96 - 8.04) | 6.67 | (6.63 - 6.71) | 8.00 | (7.96 - 8.04) | 7.99 | (7.95 - 8.03) | 7.99 | (7.95 - 8.03) |
| delta-BHC | 2 | 0 | | 8.15 | (8.07 - 8.23) | 6.80 | (6.72 - 6.88) | 8.15 | (8.07 - 8.23) | 8.14 | (8.06 - 8.22) | 8.14 | (8.06 - 8.22) |
| Aldrin | 2 | 0 | | 8.43 | (8.35 - 8.51) | 7.12 | (7.04 - 7.20) | 8.43 | (8.35 - 8.51) | 8.43 | (8.35 - 8.51) | 8.42 | (8.34 - 8.50) |
| Heptachlor Epoxide | 2 | 0 | | 9.13 | (9.09 - 9.17) | 7.85 | (7.81 - 7.89) | 9.13 | (9.09 - 9.17) | 9.13 | (9.09 - 9.17) | 9.13 | (9.09 - 9.17) |
| v-chlordane | 2 | 0 | | 9.34 | (9.30 - 9.38) | 8.06 | (8.02 - 8.10) | 9.33 | (9.29 - 9.37) | 9.33 | (9.29 - 9.37) | 9.33 | (9.29 - 9.37) |
| a-chlordane | 2 | 0 | | 9.53 | (9.49 - 9.57) | 8.27 | (8.23 - 8.31) | 9.53 | (9.49 - 9.57) | 9.52 | (9.48 - 9.56) | 9.52 | (9.48 - 9.56) |
| Endosulfan I | 2 | 0 | | 9.58 | (9.54 - 9.62) | 8.32 | (8.28 - 8.36) | 9.57 | (9.53 - 9.61) | 9.57 | (9.53 - 9.61) | 9.57 | (9.53 - 9.61) |
| o,o'-DDE | 2 | 0 | | 9.82 | (9.74 - 9.90) | 8.57 | (8.49 - 8.65) | 9.82 | (9.74 - 9.90) | 9.82 | (9.74 - 9.90) | 9.81 | (9.73 - 9.89) |
| Dieldrin | 2 | 0 | | 9.95 | (9.87 - 10.03) | 8.72 | (8.64 - 8.80) | 9.94 | (9.86 - 10.02) | 9.94 | (9.86 - 10.02) | 9.94 | (9.86 - 10.02) |
| Endrin | 2 | 0 | | 10.39 | (10.35 - 10.43) | 9.19 | (9.15 - 9.23) | 10.39 | (10.35 - 10.43) | 10.38 | (10.34 - 10.42) | 10.38 | (10.34 - 10.42) |
| o,o'-DDD | 2 | 0 | | 10.49 | (10.41 - 10.57) | 9.28 | (9.20 - 9.36) | 10.48 | (10.40 - 10.56) | 10.48 | (10.40 - 10.56) | 10.48 | (10.40 - 10.56) |
| Endosulfan II | 2 | 0 | | 10.60 | (10.52 - 10.68) | 9.41 | (9.33 - 9.49) | 10.60 | (10.52 - 10.68) | 10.60 | (10.52 - 10.68) | 10.60 | (10.52 - 10.68) |
| o,o'-DDT | 2 | 0 | | 10.84 | (10.76 - 10.92) | 9.67 | (9.59 - 9.75) | 10.84 | (10.76 - 10.92) | 10.83 | (10.75 - 10.91) | 10.83 | (10.75 - 10.91) |
| Endrin Aldehyde | 2 | 0 | | 10.99 | (10.91 - 11.07) | 9.82 | (9.74 - 9.90) | 10.98 | (10.90 - 11.06) | 10.98 | (10.90 - 11.06) | 10.98 | (10.90 - 11.06) |
| Endosulfan Sulfate | 2 | 0 | | 11.13 | (11.09 - 11.17) | 9.98 | (9.94 - 10.02) | 11.12 | (11.08 - 11.16) | 11.12 | (11.08 - 11.16) | 11.12 | (11.08 - 11.16) |
| Methoxychlor | 2 | 0 | | 11.84 | (11.80 - 11.88) | 10.74 | (10.70 - 10.78) | 11.83 | (11.79 - 11.87) | 11.83 | (11.79 - 11.87) | 11.83 | (11.79 - 11.87) |
| Endrin Ketone | 2 | 0 | | 12.05 | (11.97 - 12.13) | 10.96 | (10.88 - 11.04) | 12.04 | (11.96 - 12.12) | 12.04 | (11.96 - 12.12) | 12.04 | (11.96 - 12.12) |
| DCB-Surrogate | 2 | 0 | | 13.46 | (13.40 - 13.52) | 12.58 | (12.52 - 12.64) | 13.45 | (13.39 - 13.51) | 13.44 | (13.38 - 13.50) | 13.44 | (13.38 - 13.50) |
| Chlordane (Technical | 2 | 1 | | | | | | | | | | | |
| Chlordane (Technical | 2 | 2 | | | | | | | | | | | |
| Chlordane (Technical | 2 | 3 | | | | | | | | | | | |
| Toxaphene | 2 | 1 | | | | | | | | | | | |
| Toxaphene | 2 | 2 | | | | | | | | | | | |
| Toxaphene | 2 | 3 | | | | | | | | | | | |
| Toxaphene | 2 | 4 | | | | | | | | | | | |
| Toxaphene | 2 | 5 | | | | | | | | | | | |

# Form7

RtWindow Summary

Method: EPA 8081B

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Data File:** | | | 5G98362.D | | 5G98386.D | | 6G119472.D | | 6G119486.D | | |
| **Calibration Name:** | | | CAL PEST@100PPB | | CAL PEST@100PPB | | CAL PEST@100PPB | | CAL PEST@100PPB | | |
| **Calibration Date/Time** | | | 9/28/2021 9:58:12 AM | | 9/29/2021 9:47:04 AM | | 9/29/2021 9:03:00 AM | | 9/29/2021 2:29:00 PM | | |
| **Compound** | **Col** | **Mr** | **Cal RT** | **Limit** | **Cal RT** | **Limit** | **Cal RT** | **Limit** | **Cal RT** | **Limit** | **Cal RT** | **Limit** |
| TCMX-Surrogate | 1 | 0 | 6.05 | (5.99 - 6.11) | 6.05 | (5.99 - 6.11) | 4.71 | (4.65 - 4.77) | 4.71 | (4.65 - 4.77) | | |
| alpha-BHC | 1 | 0 | 7.27 | (7.23 - 7.31) | 7.27 | (7.23 - 7.31) | 5.95 | (5.91 - 5.99) | 5.94 | (5.90 - 5.98) | | |
| gamma-BHC | 1 | 0 | 7.78 | (7.74 - 7.82) | 7.78 | (7.74 - 7.82) | 6.48 | (6.44 - 6.52) | 6.48 | (6.44 - 6.52) | | |
| beta-BHC | 1 | 0 | 8.65 | (8.57 - 8.73) | 8.64 | (8.56 - 8.72) | 7.42 | (7.34 - 7.50) | 7.42 | (7.33 - 7.49) | | |
| Heptachlor | 1 | 0 | 8.10 | (8.06 - 8.14) | 8.09 | (8.05 - 8.13) | 6.76 | (6.72 - 6.80) | 6.76 | (6.72 - 6.80) | | |
| delta-BHC | 1 | 0 | 8.97 | (8.89 - 9.05) | 8.97 | (8.89 - 9.05) | 7.76 | (7.68 - 7.84) | 7.75 | (7.67 - 7.83) | | |
| Aldrin | 1 | 0 | 8.46 | (8.38 - 8.54) | 8.46 | (8.38 - 8.54) | 7.13 | (7.05 - 7.21) | 7.13 | (7.05 - 7.21) | | |
| Heptachlor Epoxide | 1 | 0 | 9.25 | (9.21 - 9.29) | 9.24 | (9.20 - 9.28) | 8.00 | (7.96 - 8.04) | 7.99 | (7.95 - 8.03) | | |
| y-chlordane | 1 | 0 | 9.63 | (9.59 - 9.67) | 9.63 | (9.59 - 9.67) | 8.40 | (8.36 - 8.44) | 8.40 | (8.36 - 8.44) | | |
| a-chlordane | 1 | 0 | 9.70 | (9.66 - 9.74) | 9.69 | (9.65 - 9.73) | 8.47 | (8.43 - 8.51) | 8.46 | (8.42 - 8.50) | | |
| Endosulfan I | 1 | 0 | 9.59 | (9.55 - 9.63) | 9.59 | (9.55 - 9.63) | 8.35 | (8.31 - 8.39) | 8.35 | (8.31 - 8.39) | | |
| o,p'-DDE | 1 | 0 | 9.80 | (9.72 - 9.88) | 9.79 | (9.71 - 9.87) | 8.56 | (8.48 - 8.64) | 8.55 | (8.47 - 8.63) | | |
| Dieldrin | 1 | 0 | 10.01 | (9.93 - 10.09) | 10.01 | (9.93 - 10.09) | 8.81 | (8.73 - 8.89) | 8.81 | (8.73 - 8.89) | | |
| Endrin | 1 | 0 | 10.26 | (10.22 - 10.30) | 10.26 | (10.22 - 10.30) | 9.07 | (9.03 - 9.11) | 9.07 | (9.03 - 9.11) | | |
| o,p'-DDD | 1 | 0 | 10.68 | (10.60 - 10.76) | 10.67 | (10.59 - 10.75) | 9.53 | (9.45 - 9.61) | 9.53 | (9.45 - 9.61) | | |
| Endosulfan II | 1 | 0 | 10.78 | (10.70 - 10.86) | 10.78 | (10.70 - 10.86) | 9.66 | (9.58 - 9.74) | 9.65 | (9.57 - 9.73) | | |
| o,p'-DDT | 1 | 0 | 10.88 | (10.80 - 10.96) | 10.88 | (10.80 - 10.96) | 9.74 | (9.66 - 9.82) | 9.74 | (9.66 - 9.82) | | |
| Endrin Aldehyde | 1 | 0 | 11.22 | (11.14 - 11.30) | 11.22 | (11.14 - 11.30) | 10.17 | (10.09 - 10.25) | 10.16 | (10.08 - 10.24) | | |
| Endosulfan Sulfate | 1 | 0 | 11.57 | (11.53 - 11.61) | 11.56 | (11.52 - 11.60) | 10.54 | (10.50 - 10.58) | 10.54 | (10.50 - 10.58) | | |
| Methoxychlor | 1 | 0 | 11.53 | (11.49 - 11.57) | 11.53 | (11.49 - 11.57) | 10.45 | (10.41 - 10.49) | 10.45 | (10.41 - 10.49) | | |
| Endrin Ketone | 1 | 0 | 12.05 | (11.97 - 12.13) | 12.05 | (11.97 - 12.13) | 11.06 | (10.98 - 11.14) | 11.05 | (10.97 - 11.13) | | |
| DCB-Surrogate | 1 | 0 | 13.00 | (12.94 - 13.06) | 13.00 | (12.94 - 13.06) | 12.03 | (11.97 - 12.09) | 12.03 | (11.97 - 12.09) | | |
| Chlordane (Technical | 1 | 1 | | | | | | | | | | |
| Chlordane (Technical | 1 | 2 | | | | | | | | | | |
| Chlordane (Technical | 1 | 3 | | | | | | | | | | |
| Toxaphene | 1 | 1 | | | | | | | | | | |
| Toxaphene | 1 | 2 | | | | | | | | | | |
| Toxaphene | 1 | 3 | | | | | | | | | | |
| Toxaphene | 1 | 4 | | | | | | | | | | |
| Toxaphene | 1 | 5 | | | | | | | | | | |
| TCMX-Surrogate | 2 | 0 | 6.03 | (5.97 - 6.09) | 6.02 | (5.96 - 6.08) | 4.71 | (4.65 - 4.77) | 4.71 | (4.65 - 4.77) | | |
| alpha-BHC | 2 | 0 | 7.03 | (6.99 - 7.07) | 7.03 | (6.99 - 7.07) | 5.67 | (5.63 - 5.71) | 5.66 | (5.62 - 5.70) | | |
| gamma-BHC | 2 | 0 | 7.57 | (7.53 - 7.61) | 7.57 | (7.53 - 7.61) | 6.21 | (6.17 - 6.25) | 6.21 | (6.17 - 6.25) | | |
| beta-BHC | 2 | 0 | 7.66 | (7.58 - 7.74) | 7.66 | (7.58 - 7.74) | 6.29 | (6.21 - 6.37) | 6.29 | (6.21 - 6.37) | | |
| Heptachlor | 2 | 0 | 8.00 | (7.96 - 8.04) | 8.00 | (7.95 - 8.03) | 6.66 | (6.62 - 6.70) | 6.66 | (6.62 - 6.70) | | |
| delta-BHC | 2 | 0 | 8.15 | (8.07 - 8.23) | 8.15 | (8.07 - 8.23) | 6.79 | (6.71 - 6.87) | 6.79 | (6.71 - 6.87) | | |
| Aldrin | 2 | 0 | 8.43 | (8.35 - 8.51) | 8.43 | (8.35 - 8.51) | 7.11 | (7.03 - 7.19) | 7.11 | (7.03 - 7.19) | | |
| Heptachlor Epoxide | 2 | 0 | 9.13 | (9.09 - 9.17) | 9.13 | (9.09 - 9.17) | 7.84 | (7.80 - 7.88) | 7.84 | (7.80 - 7.88) | | |
| y-chlordane | 2 | 0 | 9.33 | (9.29 - 9.37) | 9.33 | (9.29 - 9.37) | 8.06 | (8.02 - 8.10) | 8.05 | (8.01 - 8.09) | | |
| a-chlordane | 2 | 0 | 9.53 | (9.49 - 9.57) | 9.53 | (9.49 - 9.57) | 8.26 | (8.22 - 8.30) | 8.26 | (8.22 - 8.30) | | |
| Endosulfan I | 2 | 0 | 9.57 | (9.53 - 9.61) | 9.57 | (9.53 - 9.61) | 8.31 | (8.27 - 8.35) | 8.31 | (8.27 - 8.35) | | |
| o,p'-DDE | 2 | 0 | 9.82 | (9.74 - 9.90) | 9.82 | (9.74 - 9.90) | 8.56 | (8.48 - 8.64) | 8.56 | (8.48 - 8.64) | | |
| Dieldrin | 2 | 0 | 9.94 | (9.86 - 10.02) | 9.94 | (9.86 - 10.02) | 8.71 | (8.63 - 8.79) | 8.71 | (8.63 - 8.79) | | |
| Endrin | 2 | 0 | 10.39 | (10.35 - 10.43) | 10.39 | (10.35 - 10.43) | 9.18 | (9.14 - 9.22) | 9.18 | (9.14 - 9.22) | | |
| o,p'-DDD | 2 | 0 | 10.48 | (10.40 - 10.56) | 10.48 | (10.40 - 10.56) | 9.27 | (9.19 - 9.35) | 9.27 | (9.19 - 9.35) | | |
| Endosulfan II | 2 | 0 | 10.60 | (10.52 - 10.68) | 10.60 | (10.52 - 10.68) | 9.41 | (9.32 - 9.48) | 9.40 | (9.32 - 9.48) | | |
| o,p'-DDT | 2 | 0 | 10.84 | (10.76 - 10.92) | 10.84 | (10.76 - 10.92) | 9.66 | (9.58 - 9.74) | 9.66 | (9.58 - 9.74) | | |
| Endrin Aldehyde | 2 | 0 | 10.98 | (10.90 - 11.06) | 10.98 | (10.90 - 11.06) | 9.81 | (9.73 - 9.89) | 9.81 | (9.73 - 9.89) | | |
| Endosulfan Sulfate | 2 | 0 | 11.13 | (11.09 - 11.17) | 11.12 | (11.08 - 11.16) | 9.97 | (9.93 - 10.01) | 9.97 | (9.93 - 10.01) | | |
| Methoxychlor | 2 | 0 | 11.83 | (11.79 - 11.87) | 11.83 | (11.79 - 11.87) | 10.73 | (10.69 - 10.77) | 10.73 | (10.69 - 10.77) | | |
| Endrin Ketone | 2 | 0 | 12.04 | (11.96 - 12.12) | 12.04 | (11.96 - 12.12) | 10.95 | (10.87 - 11.03) | 10.95 | (10.87 - 11.03) | | |
| DCB-Surrogate | 2 | 0 | 13.45 | (13.39 - 13.51) | 13.45 | (13.39 - 13.51) | 12.56 | (12.50 - 12.62) | 12.56 | (12.50 - 12.62) | | |
| Chlordane (Technical | 2 | 1 | | | | | | | | | | |
| Chlordane (Technical | 2 | 2 | | | | | | | | | | |
| Chlordane (Technical | 2 | 3 | | | | | | | | | | |
| Toxaphene | 2 | 1 | | | | | | | | | | |
| Toxaphene | 2 | 2 | | | | | | | | | | |
| Toxaphene | 2 | 3 | | | | | | | | | | |
| Toxaphene | 2 | 4 | | | | | | | | | | |
| Toxaphene | 2 | 5 | | | | | | | | | | |

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98222.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19-Sep-21, 23:00:41
Operator : MS/MLC/MC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 08:58:39 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

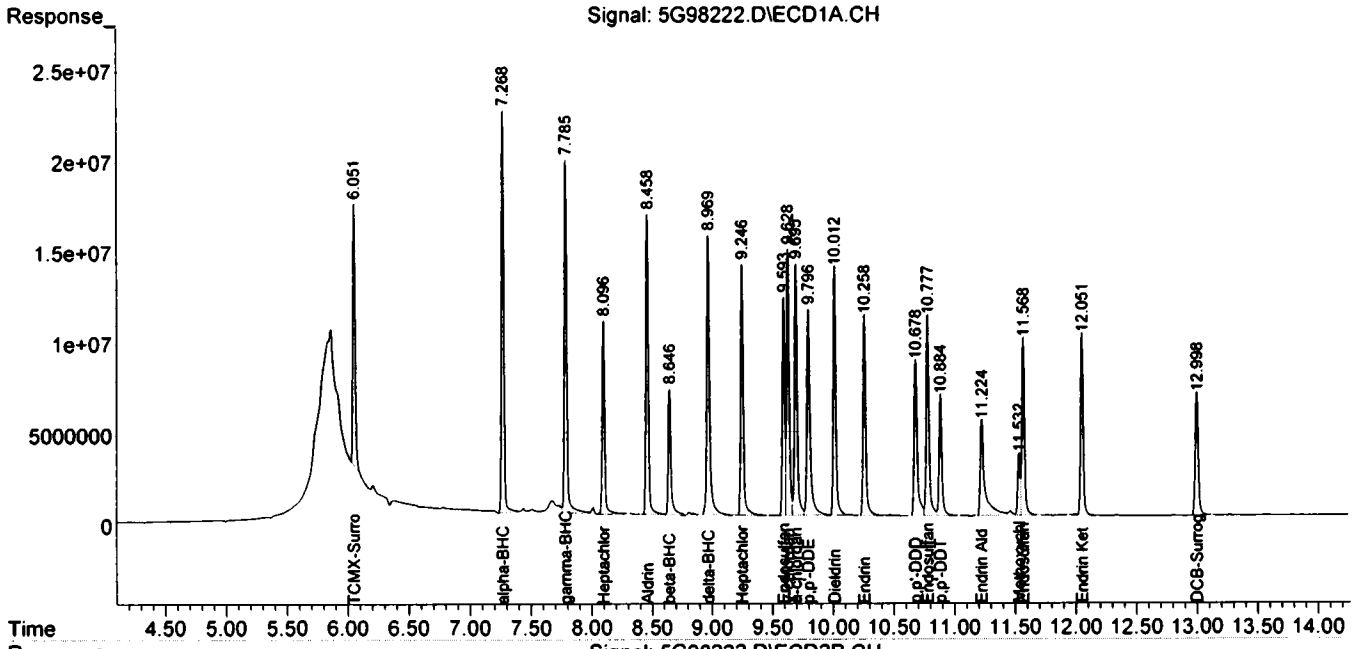
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.051 | 6.028 | 182.6E6 | 84210948 | 95.151m | 94.504 |
| 2)alpha-BHC | 7.269 | 7.030 | 287.5E6 | 130.6E6 | 94.121 | 97.981 |
| 3)gamma-BHC | 7.785 | 7.568 | 271.1E6 | 108.1E6 | 108.675 | 96.618 |
| 4)beta-BHC | 8.646 | 7.660 | 110.3E6 | 53131332 | 99.843 | 105.084 |
| 5)Heptachlor | 8.096 | 7.997 | 151.6E6 | 77747098 | 107.899 | 92.811 |
| 6)delta-BHC | 8.970 | 8.146 | 240.6E6 | 110.9E6 | 102.707 | 101.582 |
| 7)Aldrin | 8.459 | 8.430 | 231.6E6 | 107.0E6 | 101.490 | 101.075 |
| 8)Heptachlor Epoxid | 9.247 | 9.132 | 206.2E6 | 90481671 | 104.787 | 100.936 |
| 9)y-chlordane | 9.629 | 9.332 | 218.6E6 | 97772074 | 103.115 | 103.889 |
| 10)a-chlordane | 9.695 | 9.527 | 211.2E6 | 80039143 | 103.170 | 98.011 |
| 11)Endosulfan I | 9.594 | 9.572 | 163.6E6 | 99399496 | 99.870 | 107.547 |
| 12)p,p'-DDE | 9.797 | 9.819 | 208.8E6 | 89309986 | 104.731 | 102.873 |
| 13)Dieldrin | 10.012 | 9.944 | 196.3E6 | 89421294 | 102.513 | 103.983 |
| 14)Endrin | 10.258 | 10.390 | 168.1E6 | 64098739 | 98.210 | 94.383 |
| 15)p,p'-DDD | 10.679 | 10.484 | 154.4E6 | 65795656 | 102.354 | 102.363 |
| 16)Endosulfan II | 10.778 | 10.600 | 176.7E6 | 83905886 | 104.226 | 108.063 |
| 17)p,p'-DDT | 10.884 | 10.837 | 105.9E6 | 50328421 | 88.452 | 83.130 |
| 18)Endrin Aldehyde | 11.225 | 10.983 | 136.0E6 | 63295812 | 115.510 | 106.960 |
| 19)Endosulfan Sulfat | 11.568 | 11.124 | 150.2E6 | 69730962 | 110.581 | 104.972 |
| 20)Methoxychlor | 11.533 | 11.834 | 46497731 | 21455957 | 83.680 | 82.069 |
| 21)Endrin Ketone | 12.051 | 12.043 | 147.9E6 | 78055900 | 110.820 | 107.193 |
| 22)DCB-Surrogate | 12.999 | 13.450 | 118.1E6 | 58344751 | 105.751 | 110.569 |

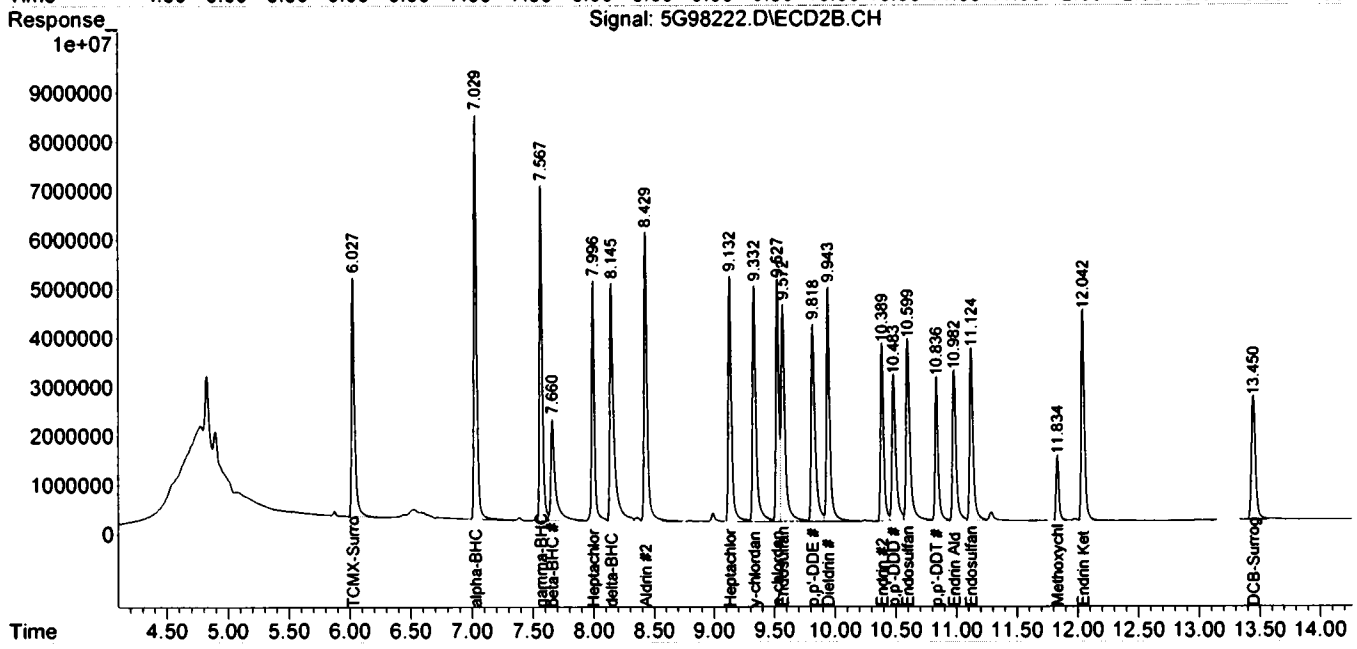
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98222.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19-Sep-21, 23:00:41
Operator : MS/MLC/MC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 08:58:39 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98245.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 09:16:42
Operator : MS/MLC/MC
Sample : CAL PEST@100PPB (Sig #1); CAL PEST (Sig #2)
Misc : A,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 09:56:40 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

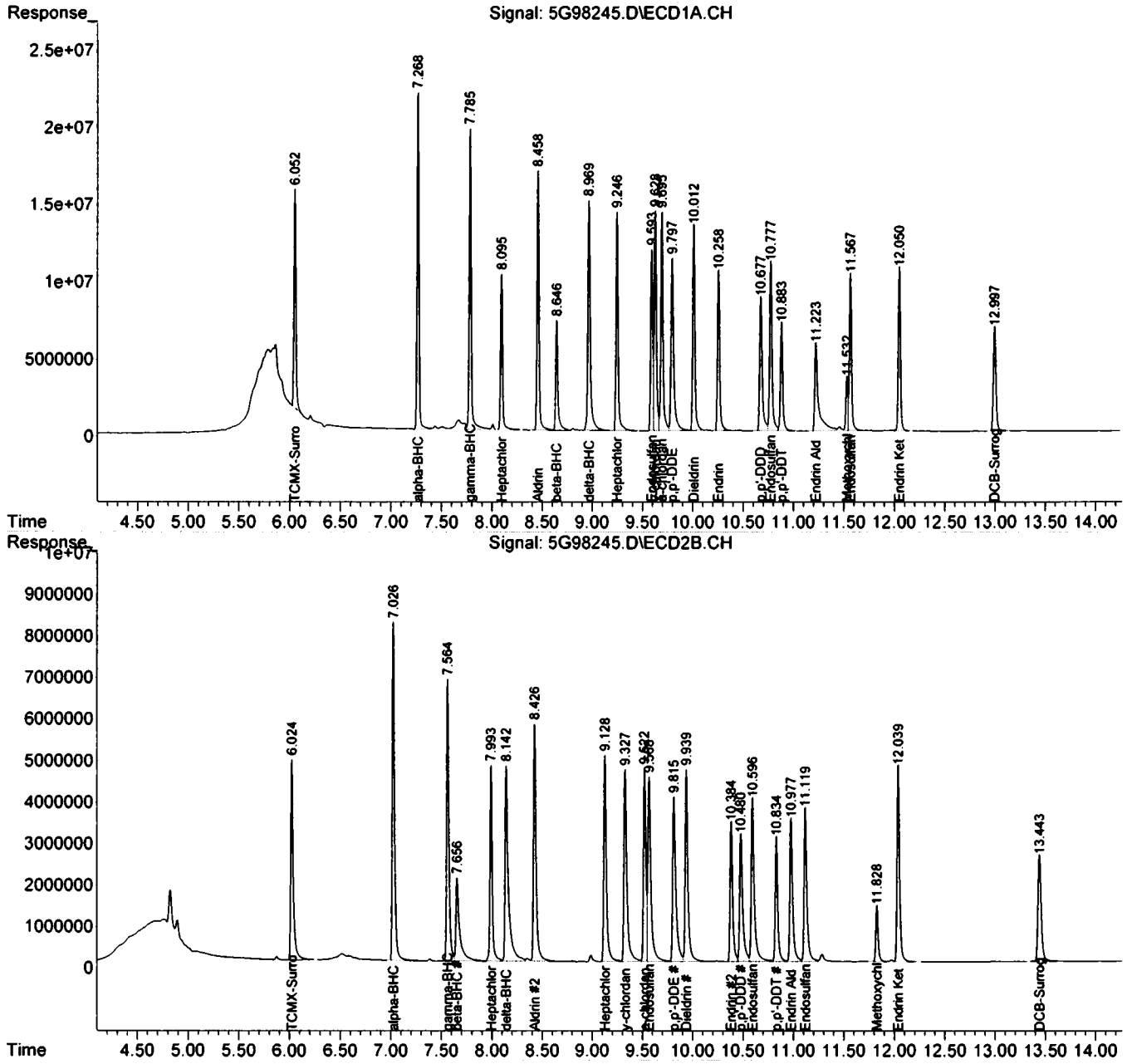
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.052 | 6.025 | 188.5E6 | 81913783 | 98.265m | 91.926 |
| 2)alpha-BHC | 7.268 | 7.026 | 281.0E6 | 126.6E6 | 92.008 | 95.031 |
| 3)gamma-BHC | 7.785 | 7.564 | 271.4E6 | 105.0E6 | 108.794 | 93.862 |
| 4)beta-BHC | 8.646 | 7.657 | 109.1E6 | 51228936 | 98.800 | 101.322 |
| 5)Heptachlor | 8.096 | 7.993 | 139.8E6 | 74400202 | 99.559 | 88.815 |
| 6)delta-BHC | 8.969 | 8.143 | 244.9E6 | 108.2E6 | 104.565 | 99.112 |
| 7)Aldrin | 8.458 | 8.426 | 230.5E6 | 102.8E6 | 100.996 | 97.048 |
| 8)Heptachlor Epoxid | 9.246 | 9.128 | 205.3E6 | 89139350 | 104.323 | 99.439 |
| 9)y-chlordane | 9.628 | 9.328 | 222.2E6 | 95230412 | 104.817 | 101.188 |
| 10)a-chlordane | 9.695 | 9.523 | 213.3E6 | 78350620 | 104.175 | 95.943 |
| 11)Endosulfan I | 9.593 | 9.568 | 161.9E6 | 97438712 | 98.833 | 105.425 |
| 12)p,p'-DDE | 9.798 | 9.815 | 208.6E6 | 87670999 | 104.590 | 100.985 |
| 13)Dieldrin | 10.012 | 9.939 | 197.8E6 | 87527391 | 103.307 | 101.781 |
| 14)Endrin | 10.258 | 10.385 | 155.8E6 | 59216106 | 91.011 | 87.194 |
| 15)p,p'-DDD | 10.678 | 10.480 | 156.0E6 | 64707187 | 103.400 | 100.670 |
| 16)Endosulfan II | 10.777 | 10.596 | 179.0E6 | 83513089 | 105.588 | 107.557 |
| 17)p,p'-DDT | 10.884 | 10.834 | 109.8E6 | 51399766 | 91.688 | 84.900 |
| 18)Endrin Aldehyde | 11.224 | 10.978 | 144.4E6 | 66305009 | 122.614 | 112.045 |
| 19)Endosulfan Sulfat | 11.567 | 11.119 | 152.8E6 | 70589553 | 112.474 | 106.264 |
| 20)Methoxychlor | 11.533 | 11.829 | 47631085 | 22195277 | 85.720 | 84.897 |
| 21)Endrin Ketone | 12.050 | 12.039 | 155.6E6 | 81785835 | 116.579 | 112.316 |
| 22)DCB-Surrogate | 12.998 | 13.443 | 120.6E6 | 58845279 | 107.997 | 111.518 |

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98245.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 09:16:42
Operator : MS/MLC/MC
Sample : CAL PEST@100PPB (Sig #1); CAL PEST (Sig #2)
Misc : A,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 09:56:40 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98257.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 15:52:44
Operator : MS/MLC/MC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 16:28:10 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

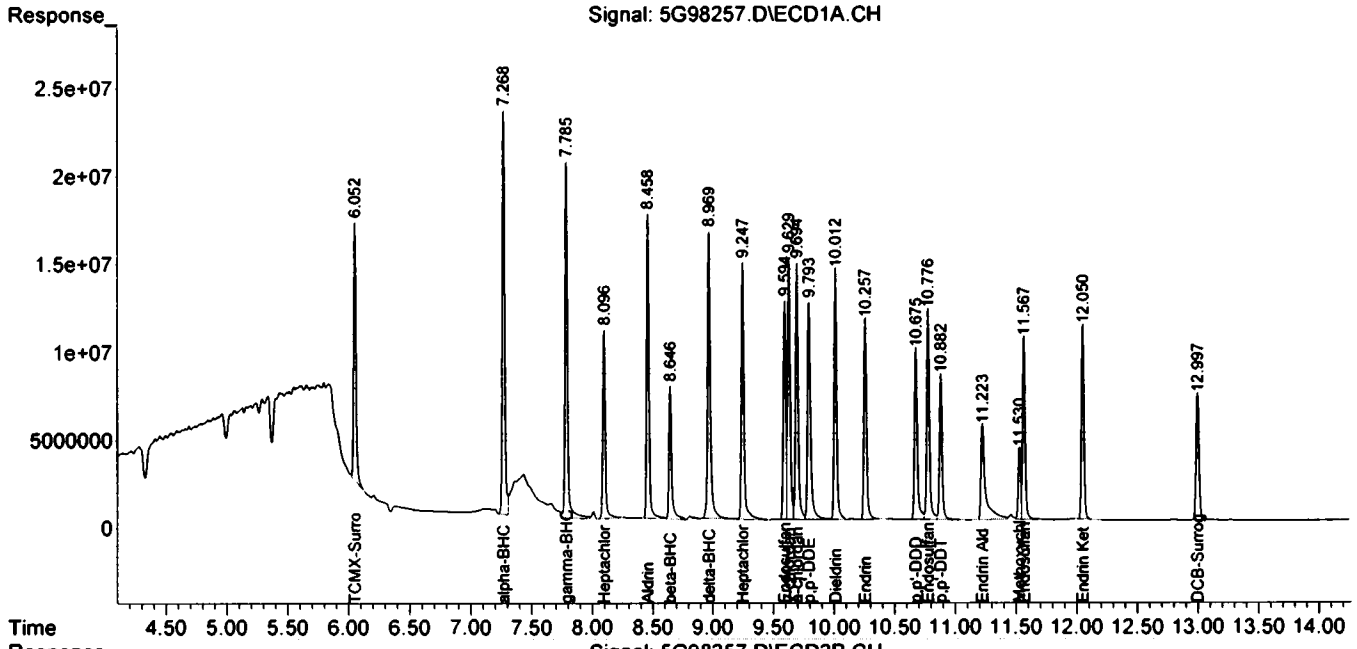
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.052 | 6.020 | 195.2E6 | 86350916 | 101.717m | 96.906m |
| 2) | alpha-BHC | 7.269 | 7.022 | 306.1E6 | 134.2E6 | 100.221 | 100.716 |
| 3) | gamma-BHC | 7.786 | 7.560 | 285.3E6 | 112.1E6 | 114.381 | 100.241 |
| 4) | beta-BHC | 8.647 | 7.653 | 116.7E6 | 55248246 | 105.714 | 109.271 |
| 5) | Heptachlor | 8.096 | 7.989 | 151.9E6 | 82757959 | 108.124 | 98.793 |
| 6) | delta-BHC | 8.970 | 8.139 | 257.1E6 | 115.8E6 | 109.773 | 106.112 |
| 7) | Aldrin | 8.459 | 8.422 | 240.2E6 | 110.1E6 | 105.262 | 103.957 |
| 8) | Heptachlor Epoxid | 9.248 | 9.124 | 219.7E6 | 93594124 | 111.671 | 104.408 |
| 9) | y-chlordane | 9.629 | 9.325 | 227.1E6 | 100.3E6 | 107.103 | 106.535 |
| 10) | a-chlordane | 9.695 | 9.520 | 217.2E6 | 85167207 | 106.093 | 104.290 |
| 11) | Endosulfan I | 9.594 | 9.566 | 170.4E6 | 99057491 | 104.042 | 107.177 |
| 12) | p,p'-DDE | 9.794 | 9.810 | 216.0E6 | 93150010 | 108.325 | 107.296 |
| 13) | Dieldrin | 10.012 | 9.936 | 205.0E6 | 89393975 | 107.043 | 103.952 |
| 14) | Endrin | 10.258 | 10.383 | 174.9E6 | 69041485 | 102.140 | 101.661 |
| 15) | p,p'-DDD | 10.676 | 10.474 | 158.4E6 | 66804095 | 105.043 | 103.932 |
| 16) | Endosulfan II | 10.777 | 10.592 | 183.1E6 | 86948458 | 108.052 | 111.982 |
| 17) | p,p'-DDT | 10.883 | 10.829 | 125.5E6 | 59978448 | 104.791 | 99.069 |
| 18) | Endrin Aldehyde | 11.224 | 10.975 | 139.0E6 | 66836058 | 118.049 | 112.943 |
| 19) | Endosulfan Sulfat | 11.567 | 11.117 | 152.0E6 | 73813618 | 111.880 | 111.118 |
| 20) | Methoxychlor | 11.530 | 11.825 | 55397188 | 25114182 | 99.696 | 96.062 |
| 21) | Endrin Ketone | 12.051 | 12.037 | 155.3E6 | 84328375 | 116.349 | 115.807 |
| 22) | DCB-Surrogate | 12.997 | 13.441 | 119.9E6 | 61105809 | 107.408 | 115.802 |

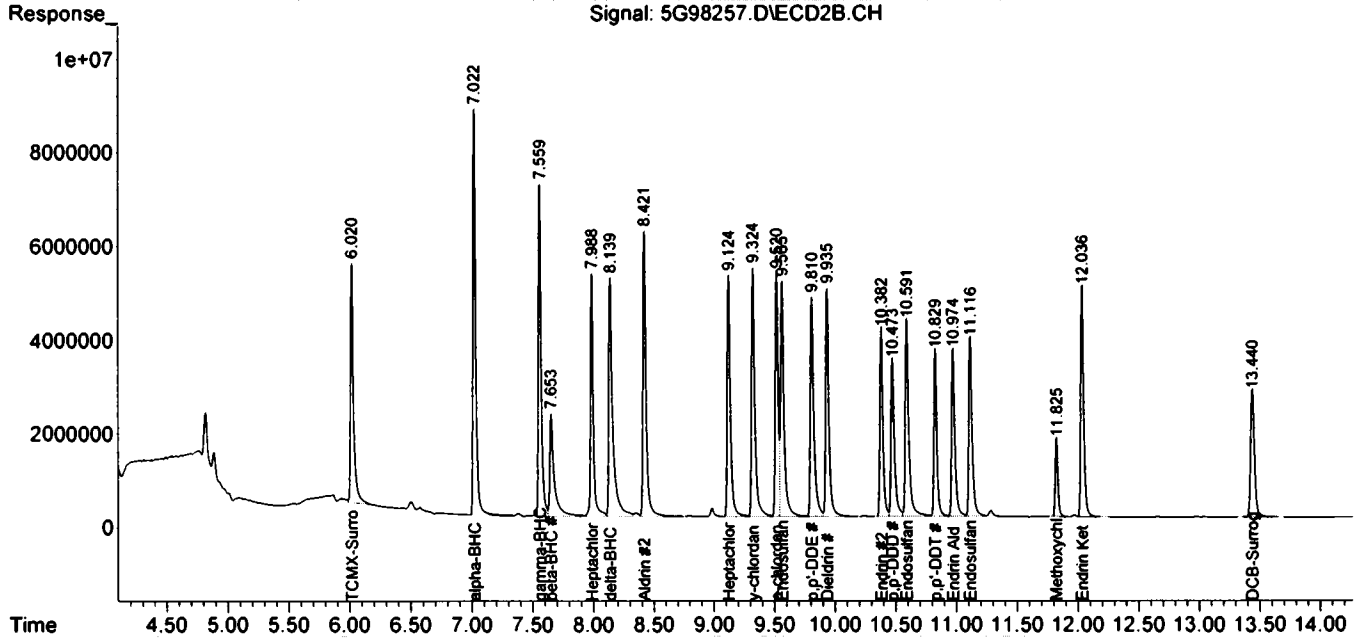
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98257.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 15:52:44
Operator : MS/MLC/MC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 16:28:10 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98259.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 08:17:45
Operator : MS/MLC/MC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 08:45:32 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

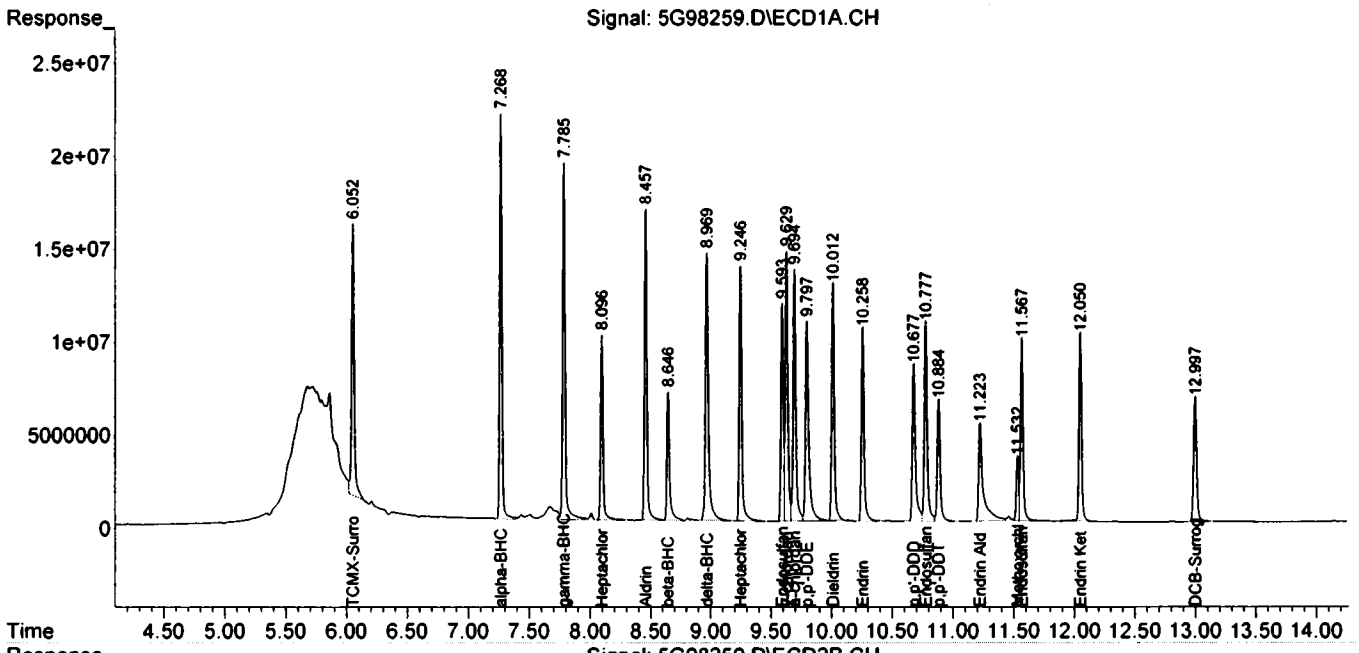
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.052 | 6.022 | 214.6E6 | 83440782 | 111.829m | 93.640 |
| 2)alpha-BHC | 7.268 | 7.025 | 286.7E6 | 127.2E6 | 93.852 | 95.420 |
| 3)gamma-BHC | 7.785 | 7.562 | 272.9E6 | 104.6E6 | 109.385 | 93.542 |
| 4)beta-BHC | 8.646 | 7.655 | 108.5E6 | 51266547 | 98.301 | 101.396 |
| 5)Heptachlor | 8.096 | 7.991 | 140.9E6 | 68840336 | 100.330 | 82.178 |
| 6)delta-BHC | 8.970 | 8.142 | 243.9E6 | 108.1E6 | 104.120 | 99.018 |
| 7)Aldrin | 8.458 | 8.424 | 229.6E6 | 103.7E6 | 100.584 | 97.953 |
| 8)Heptachlor Epoxid | 9.247 | 9.127 | 204.2E6 | 88722924 | 103.780 | 98.974 |
| 9)y-chlordane | 9.629 | 9.327 | 217.9E6 | 95895517 | 102.767 | 101.895 |
| 10)a-chlordane | 9.695 | 9.523 | 211.2E6 | 78462659 | 103.171 | 96.080 |
| 11)Endosulfan I | 9.593 | 9.567 | 160.3E6 | 97404607 | 97.848 | 105.388 |
| 12)p,p'-DDE | 9.797 | 9.815 | 205.2E6 | 84754894 | 102.891 | 97.626 |
| 13)Dieldrin | 10.012 | 9.938 | 193.7E6 | 87292939 | 101.170 | 101.508 |
| 14)Endrin | 10.258 | 10.384 | 159.8E6 | 59121675 | 93.320 | 87.055 |
| 15)p,p'-DDD | 10.678 | 10.479 | 150.7E6 | 58973765 | 99.910 | 91.750 |
| 16)Endosulfan II | 10.778 | 10.595 | 176.7E6 | 82374853 | 104.283 | 106.091 |
| 17)p,p'-DDT | 10.884 | 10.833 | 110.2E6 | 49561859 | 92.042 | 81.864 |
| 18)Endrin Aldehyde | 11.224 | 10.978 | 138.1E6 | 63081807 | 117.264 | 106.598 |
| 19)Endosulfan Sulfat | 11.567 | 11.119 | 150.3E6 | 68934190 | 110.655 | 103.772 |
| 20)Methoxychlor | 11.532 | 11.828 | 46411079 | 20019928 | 83.524 | 76.576 |
| 21)Endrin Ketone | 12.050 | 12.037 | 151.5E6 | 78568897 | 113.491 | 107.898 |
| 22)DCB-Surrogate | 12.998 | 13.442 | 117.4E6 | 57799063 | 105.195 | 109.535 |

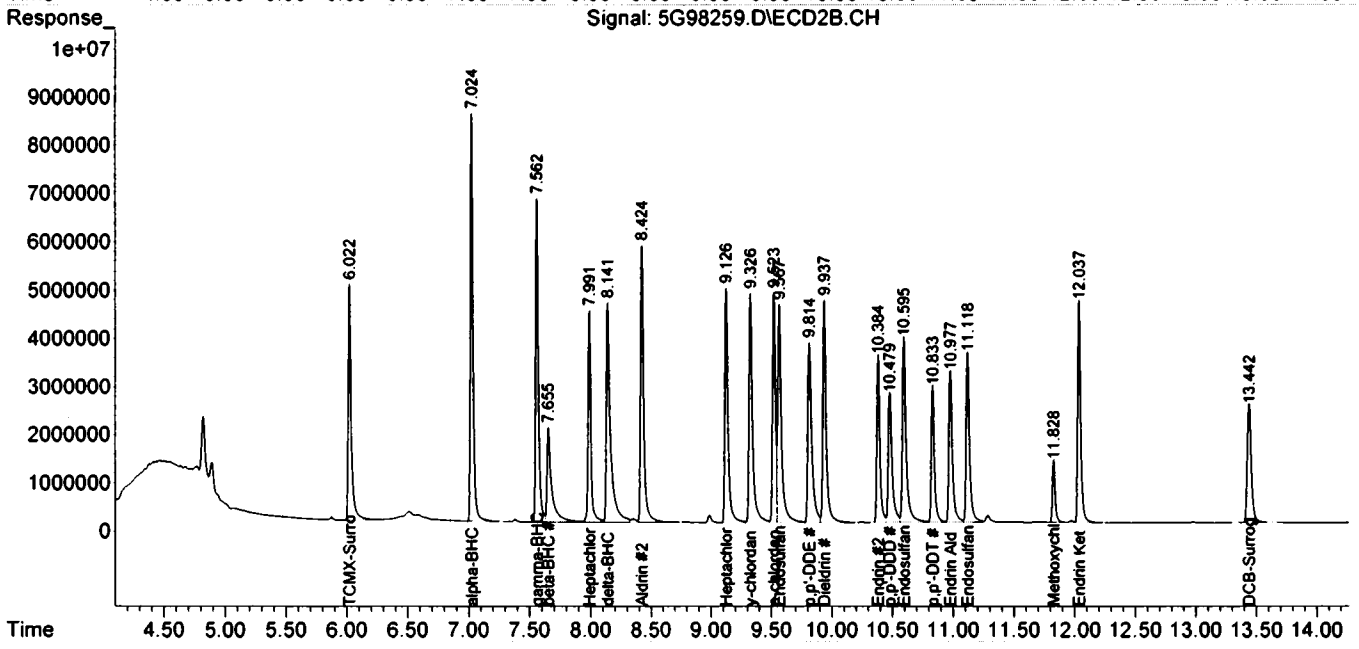
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98259.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 08:17:45
Operator : MS/MLC/MC
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 08:45:32 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98270.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 13:30:03
Operator : MS/MLC/MC
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 13:57:57 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

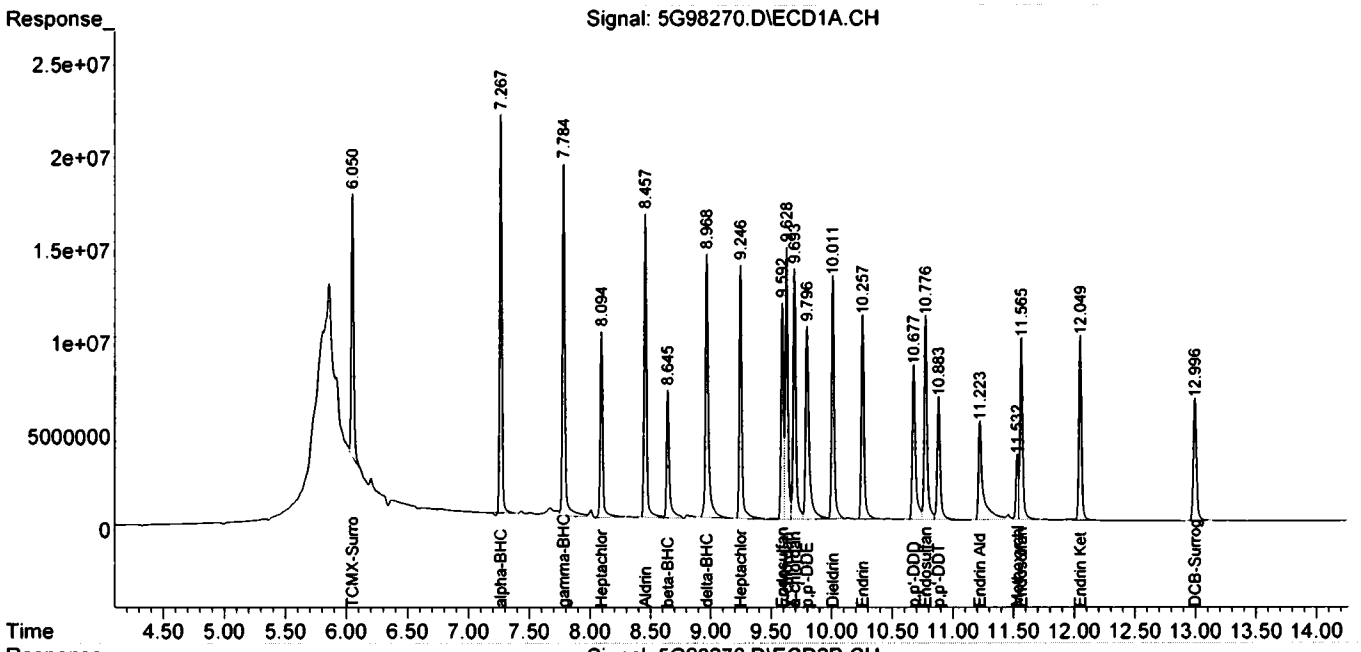
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.050 | 6.027 | 189.3E6 | 83199263 | 98.656m | 93.369m |
| 2)alpha-BHC | 7.267 | 7.030 | 272.4E6 | 130.8E6 | 89.168 | 98.134 |
| 3)gamma-BHC | 7.784 | 7.567 | 271.9E6 | 106.5E6 | 109.018 | 95.173 |
| 4)beta-BHC | 8.645 | 7.661 | 112.2E6 | 52550170 | 101.606 | 103.935 |
| 5)Heptachlor | 8.095 | 7.997 | 145.5E6 | 76631196 | 103.613 | 91.479 |
| 6)delta-BHC | 8.969 | 8.147 | 238.6E6 | 109.3E6 | 101.895 | 100.147 |
| 7)Aldrin | 8.457 | 8.430 | 231.7E6 | 108.2E6 | 101.524 | 102.155 |
| 8)Heptachlor Epoxid | 9.246 | 9.132 | 202.4E6 | 90126830 | 102.884 | 100.540 |
| 9)y-chlordane | 9.628 | 9.333 | 219.2E6 | 96295101 | 103.408 | 102.319 |
| 10)a-chlordane | 9.694 | 9.528 | 213.5E6 | 79350748 | 104.282 | 97.168 |
| 11)Endosulfan I | 9.593 | 9.572 | 161.9E6 | 99198708 | 98.835 | 107.329 |
| 12)p,p'-DDE | 9.797 | 9.821 | 210.5E6 | 87883989 | 105.588 | 101.231 |
| 13)Dieldrin | 10.011 | 9.944 | 196.0E6 | 89905175 | 102.378 | 104.546 |
| 14)Endrin | 10.257 | 10.390 | 170.5E6 | 65564527 | 99.563 | 96.542 |
| 15)p,p'-DDD | 10.678 | 10.486 | 151.4E6 | 64117906 | 100.379 | 99.753 |
| 16)Endosulfan II | 10.777 | 10.601 | 180.1E6 | 85319735 | 106.247 | 109.884 |
| 17)p,p'-DDT | 10.884 | 10.839 | 114.1E6 | 54786221 | 95.279 | 90.493 |
| 18)Endrin Aldehyde | 11.224 | 10.983 | 135.0E6 | 64614925 | 114.643 | 109.189 |
| 19)Endosulfan Sulfat | 11.566 | 11.125 | 155.9E6 | 70503371 | 114.782 | 106.134 |
| 20)Methoxychlor | 11.533 | 11.835 | 46744957 | 23504653 | 84.125 | 89.905 |
| 21)Endrin Ketone | 12.049 | 12.043 | 149.5E6 | 80153828 | 111.985 | 110.074 |
| 22)DCB-Surrogate | 12.996 | 13.450 | 119.5E6 | 59228747 | 107.056 | 112.245 |

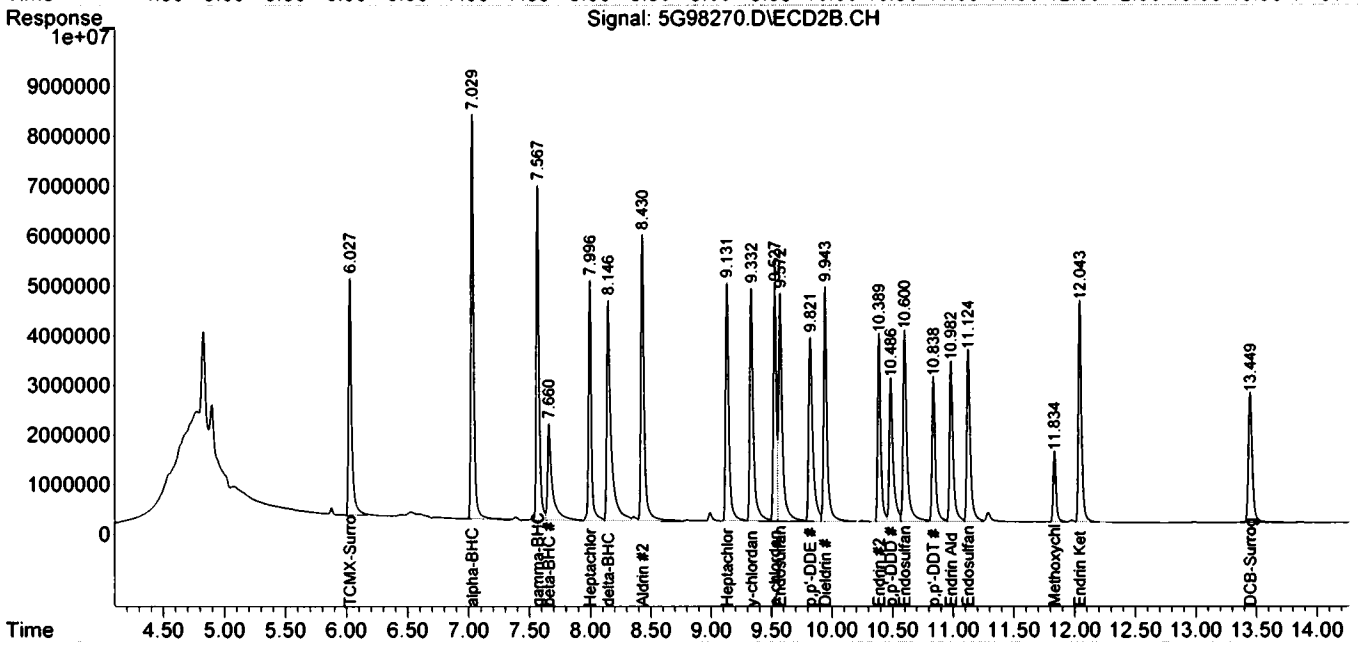
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98270.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 13:30:03
Operator : MS/MLC/MC
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 13:57:57 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98362.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Sep-21, 09:58:12
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 28 10:17:13 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

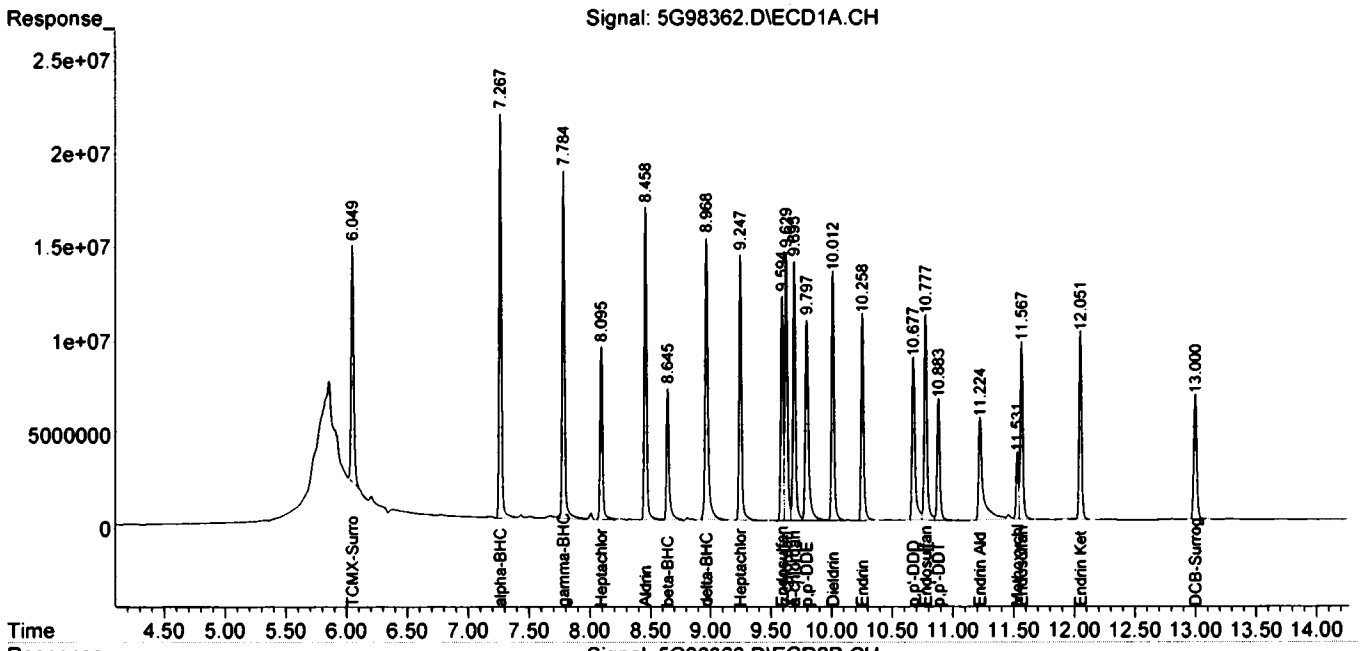
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.049 | 6.026 | 185.6E6 | 83972917 | 96.716m | 94.237 |
| 2) | alpha-BHC | 7.267 | 7.028 | 284.1E6 | 129.1E6 | 93.019 | 96.852 |
| 3) | gamma-BHC | 7.784 | 7.566 | 259.9E6 | 108.3E6 | 104.177 | 96.828 |
| 4) | beta-BHC | 8.645 | 7.660 | 108.7E6 | 51041228 | 98.416 | 100.950 |
| 5) | Heptachlor | 8.095 | 7.996 | 130.2E6 | 67468624 | 92.721 | 80.541 |
| 6) | delta-BHC | 8.969 | 8.146 | 241.0E6 | 109.5E6 | 102.902 | 100.351 |
| 7) | Aldrin | 8.459 | 8.429 | 227.5E6 | 100.8E6 | 99.701 | 95.168 |
| 8) | Heptachlor Epoxid | 9.247 | 9.132 | 200.0E6 | 87960844 | 101.663 | 98.124 |
| 9) | y-chlordane | 9.629 | 9.333 | 211.6E6 | 91324289 | 99.795 | 97.038 |
| 10) | a-chlordane | 9.696 | 9.528 | 200.4E6 | 77403915 | 97.880 | 94.784 |
| 11) | Endosulfan I | 9.594 | 9.573 | 162.6E6 | 90183064 | 99.256 | 97.575 |
| 12) | p,p'-DDE | 9.798 | 9.819 | 197.7E6 | 83622315 | 99.160 | 96.322 |
| 13) | Dieldrin | 10.012 | 9.945 | 192.3E6 | 84057234 | 100.439 | 97.746 |
| 14) | Endrin | 10.258 | 10.390 | 158.7E6 | 61021744 | 92.683 | 89.853 |
| 15) | p,p'-DDD | 10.677 | 10.484 | 149.3E6 | 62728749 | 98.972 | 97.592 |
| 16) | Endosulfan II | 10.778 | 10.601 | 172.7E6 | 78236415 | 101.877 | 100.761 |
| 17) | p,p'-DDT | 10.884 | 10.838 | 99737838 | 48814063 | 83.291 | 80.629 |
| 18) | Endrin Aldehyde | 11.225 | 10.983 | 135.8E6 | 61634959 | 115.286 | 104.154 |
| 19) | Endosulfan Sulfat | 11.567 | 11.125 | 141.8E6 | 65075069 | 104.389 | 97.963 |
| 20) | Methoxychlor | 11.531 | 11.833 | 46877467 | 21110801 | 84.363 | 80.749 |
| 21) | Endrin Ketone | 12.052 | 12.045 | 144.3E6 | 74861540 | 108.118 | 102.807 |
| 22) | DCB-Surrogate | 13.000 | 13.451 | 114.8E6 | 52713335 | 102.851 | 99.897 |

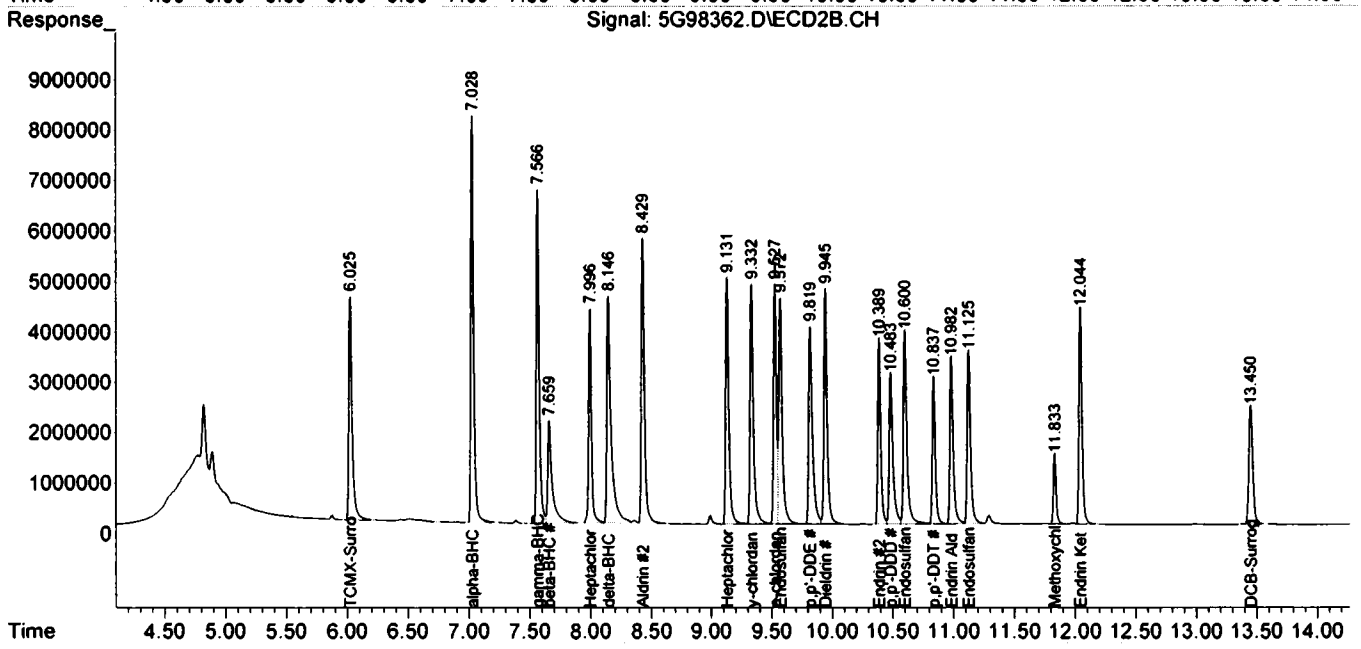
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98362.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Sep-21, 09:58:12
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 28 10:17:13 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98384.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Sep-21, 19:04:07
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 12:47:45 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

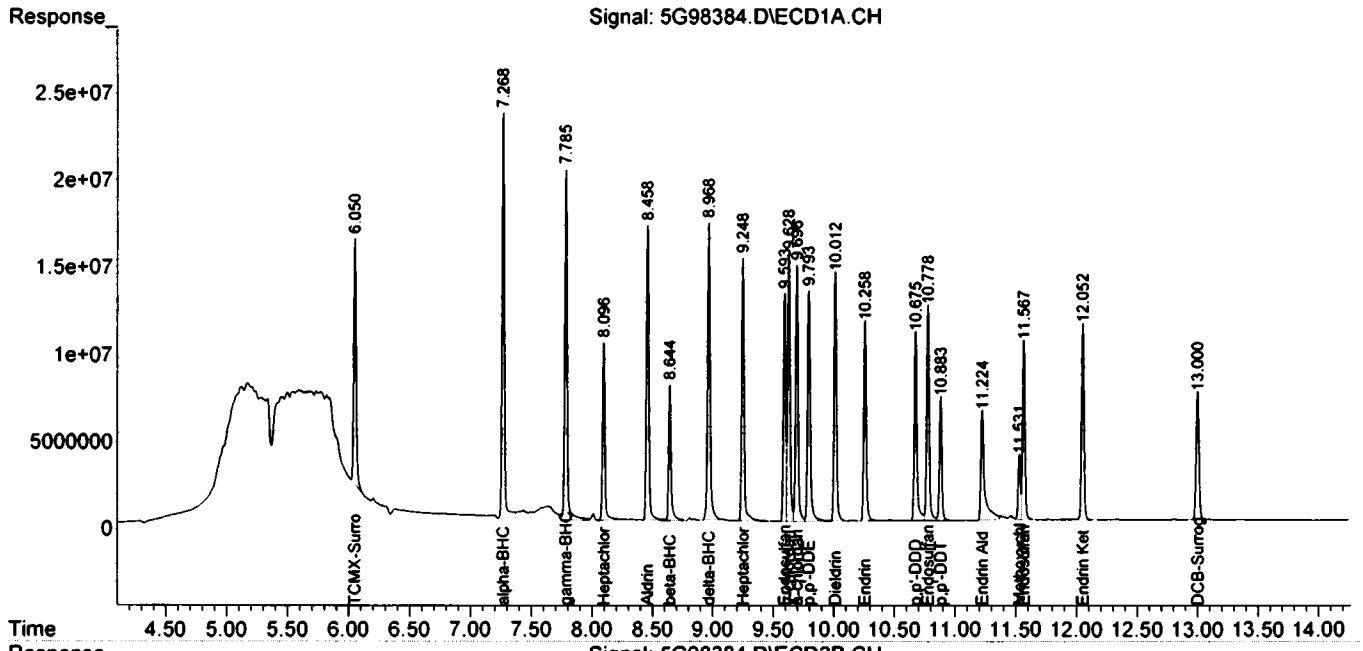
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.050 | 6.019 | 194.4E6 | 88555204 | 101.327m | 99.380m |
| 2)alpha-BHC | 7.268 | 7.022 | 309.5E6 | 138.2E6 | 101.309 | 103.677 |
| 3)gamma-BHC | 7.785 | 7.561 | 279.8E6 | 115.0E6 | 112.149 | 102.817 |
| 4)beta-BHC | 8.645 | 7.653 | 111.9E6 | 55170168 | 101.333 | 109.117 |
| 5)Heptachlor | 8.096 | 7.990 | 140.6E6 | 85862036 | 100.077 | 102.498 |
| 6)delta-BHC | 8.969 | 8.139 | 243.5E6 | 112.9E6 | 103.967 | 103.457 |
| 7)Aldrin | 8.459 | 8.423 | 236.6E6 | 107.0E6 | 103.660 | 101.094 |
| 8)Heptachlor Epoxid | 9.248 | 9.126 | 211.6E6 | 91498071 | 107.560 | 102.070 |
| 9)y-chlordane | 9.629 | 9.326 | 218.4E6 | 95270956 | 103.007 | 101.231 |
| 10)a-chlordane | 9.696 | 9.521 | 205.9E6 | 83227843 | 100.559 | 101.915 |
| 11)Endosulfan I | 9.594 | 9.566 | 173.6E6 | 91938779 | 105.979 | 99.474 |
| 12)p,p'-DDE | 9.794 | 9.810 | 207.3E6 | 89491444 | 103.959 | 103.082 |
| 13)Dieldrin | 10.012 | 9.937 | 199.5E6 | 84330076 | 104.218 | 98.063 |
| 14)Endrin | 10.258 | 10.384 | 160.3E6 | 64771011 | 93.608 | 95.373 |
| 15)p,p'-DDD | 10.676 | 10.475 | 163.2E6 | 69568873 | 108.186 | 108.233 |
| 16)Endosulfan II | 10.778 | 10.594 | 176.4E6 | 78658127 | 104.070 | 101.304 |
| 17)p,p'-DDT | 10.883 | 10.830 | 97357326 | 52815700 | 81.303 | 87.238 |
| 18)Endrin Aldehyde | 11.225 | 10.977 | 134.1E6 | 66190981 | 113.926 | 111.853 |
| 19)Endosulfan Sulfat | 11.568 | 11.119 | 143.1E6 | 69321826 | 105.373 | 104.356 |
| 20)Methoxychlor | 11.532 | 11.827 | 48876268 | 24696216 | 87.960 | 94.463 |
| 21)Endrin Ketone | 12.052 | 12.039 | 157.8E6 | 80183906 | 118.255 | 110.116 |
| 22)DCB-Surrogate | 13.000 | 13.444 | 120.6E6 | 56139858 | 108.052 | 106.391 |

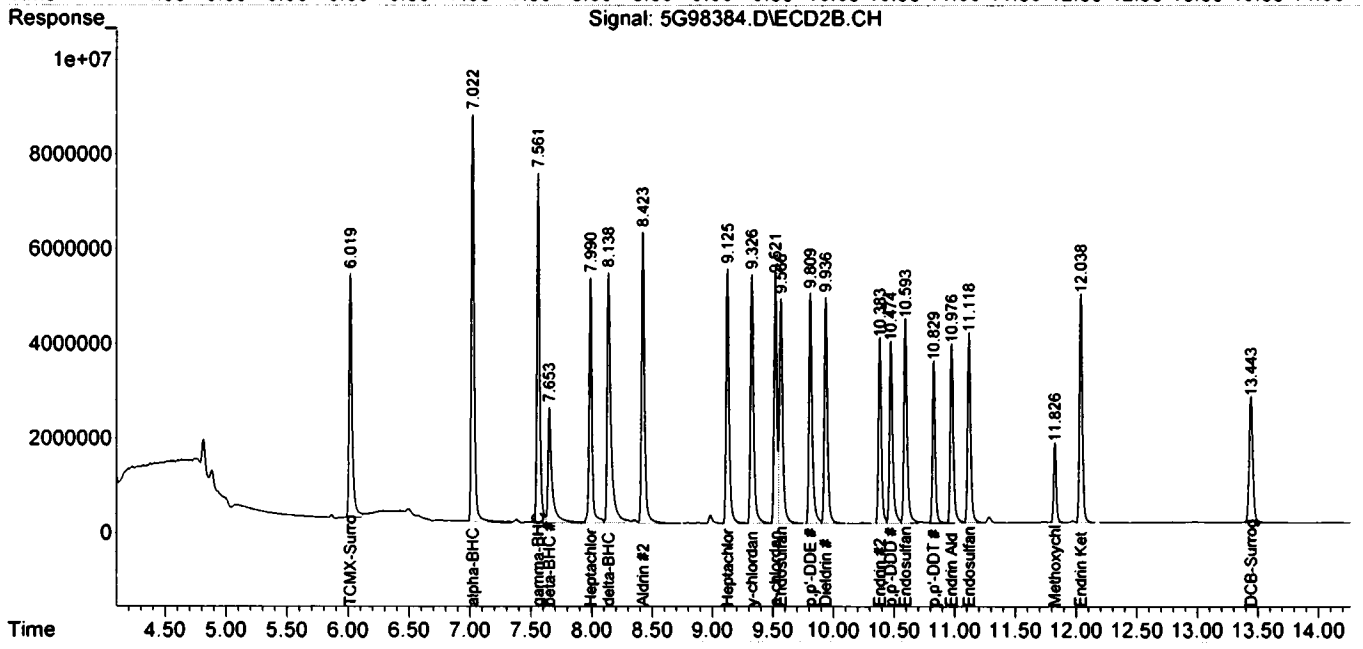
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98384.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Sep-21, 19:04:07
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 12:47:45 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119472.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 9:03
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 13:10:54 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

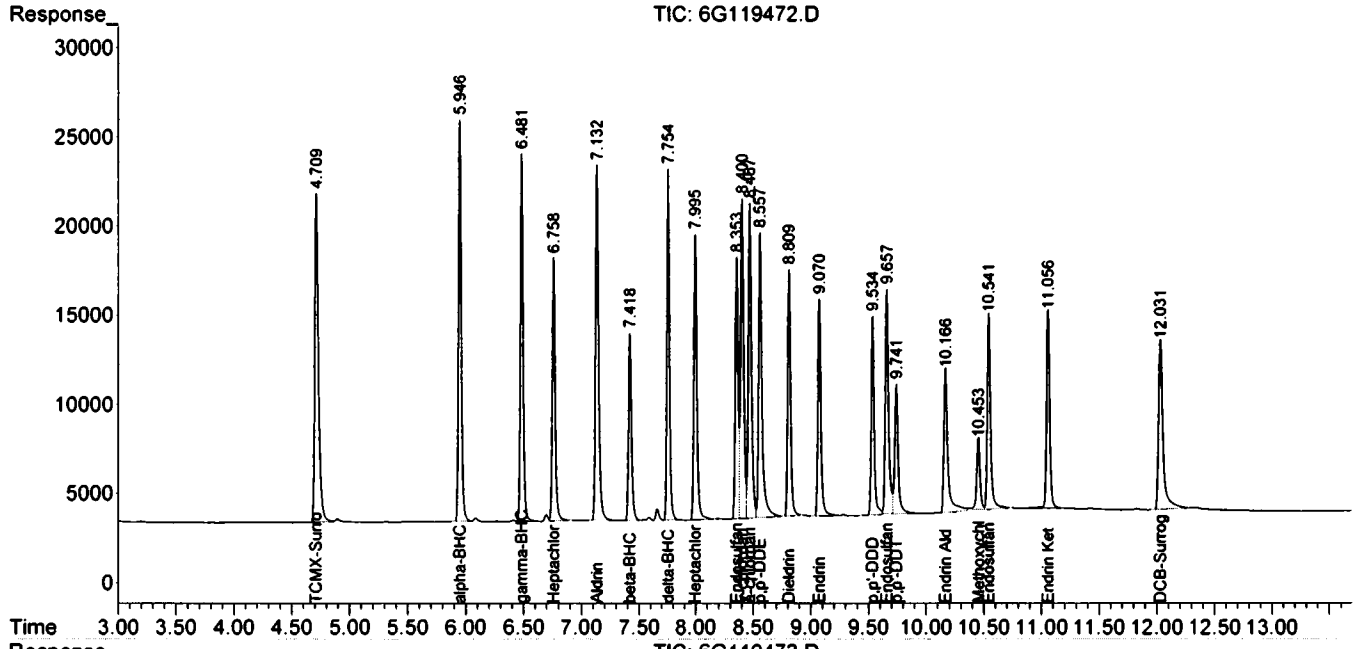
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 4.710 | 4.713 | 408871 | 1363833 | 168.009 | 93.733 | # |
| 2)alpha-BHC | 5.947 | 5.666 | 377311 | 1868333 | 139.291 | 103.141 | # |
| 3)gamma-BHC | 6.482 | 6.207 | 337268 | 1650555 | 148.098 | 98.394 | # |
| 4)beta-BHC | 7.419 | 6.290 | 188432 | 880388 | 140.945 | 95.871 | # |
| 5)Heptachlor | 6.759 | 6.658 | 253129 | 1437428 | 134.451 | 94.410 | # |
| 6)delta-BHC | 7.755 | 6.795 | 319218 | 1638108 | 147.147 | 101.298 | # |
| 7)Aldrin | 7.133 | 7.111 | 372770 | 1401617 | 128.816 | 98.716 | |
| 8)Heptachlor Epoxid | 7.995 | 7.845 | 288888 | 1225338 | 133.243 | 92.109 | # |
| 9)y-chlordane | 8.400 | 8.056 | 344222 | 1260639 | 139.064m | 93.331 | # |
| 10)a-chlordane | 8.468 | 8.264 | 342469 | 1168765 | 136.545 | 93.564 | # |
| 11)Endosulfan I | 8.353 | 8.313 | 247448 | 1190130 | 139.910m | 94.799 | # |
| 12)p,p'-DDE | 8.557 | 8.564 | 329195 | 1134853 | 139.816 | 97.718 | # |
| 13)Dieldrin | 8.810 | 8.708 | 239858 | 1099111 | 131.590 | 95.032 | # |
| 14)Endrin | 9.071 | 9.184 | 218491 | 965133 | 129.119 | 91.496 | # |
| 15)p,p'-DDD | 9.534 | 9.273 | 196532 | 911958 | 140.659 | 96.727 | # |
| 16)Endosulfan II | 9.657 | 9.405 | 245967 | 1019501 | 133.366m | 92.351 | # |
| 17)p,p'-DDT | 9.741 | 9.658 | 152650 | 723234 | 89.119 | 89.344 | |
| 18)Endrin Aldehyde | 10.167 | 9.814 | 189687 | 893154 | 115.579 | 105.323 | |
| 19)Endosulfan Sulfat | 10.542 | 9.966 | 214789 | 907881 | 119.372 | 97.465 | |
| 20)Methoxychlor | 10.453 | 10.728 | 78424 | 447362 | 85.978m | 90.347 | |
| 21)Endrin Ketone | 11.057 | 10.954 | 209309 | 967701 | 127.645 | 94.009 | # |
| 22)DCB-Surrogate | 12.031 | 12.565 | 257430 | 885542 | 116.737 | 99.846 | |

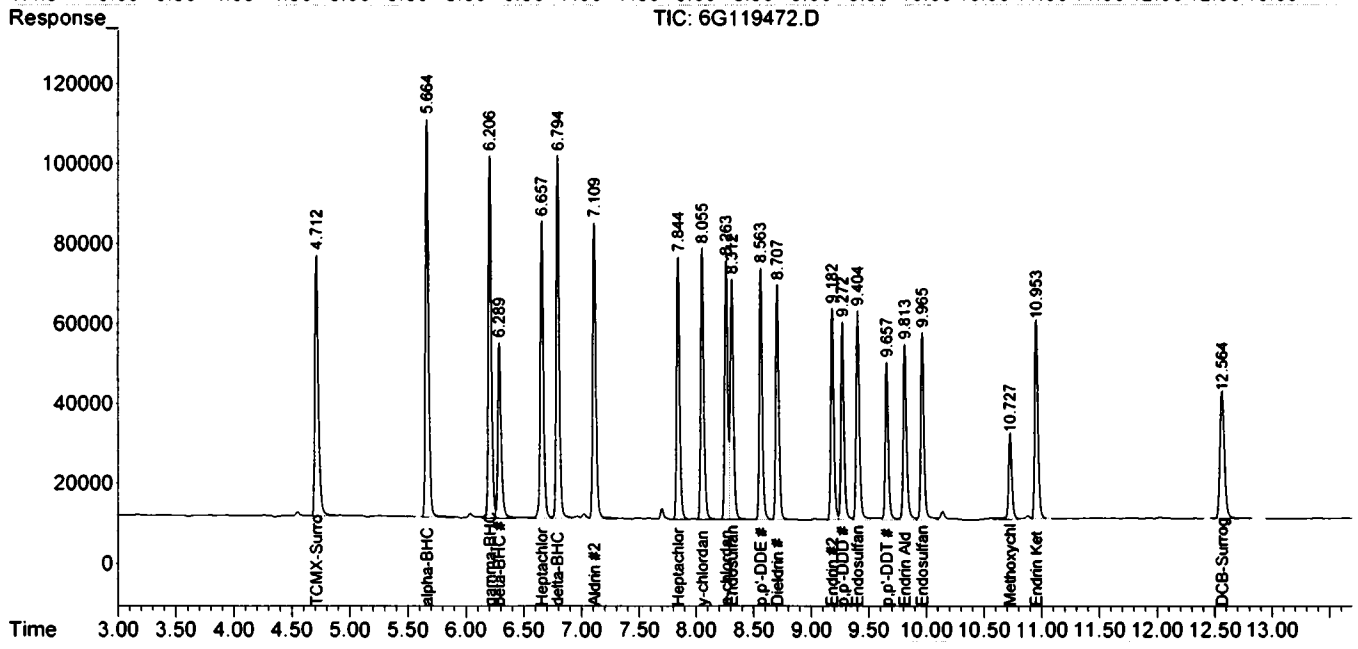
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119472.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 9:03
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 13:10:54 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-29-21\
Data File : 5G98386.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29-Sep-21, 09:47:04
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB (Sig #1); CAL 100 (Sig #2)
Misc : S,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 12:55:31 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

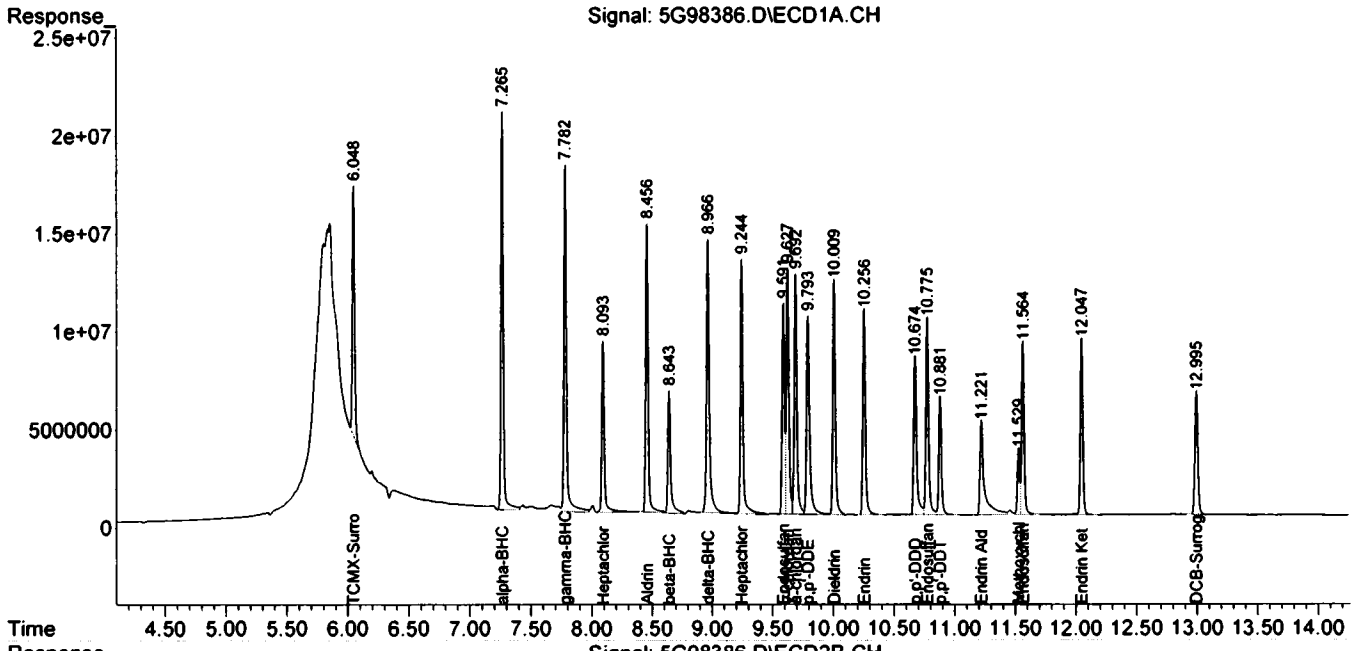
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.048 | 6.024 | 166.5E6 | 78892602 | 86.765m | 88.536m |
| 2)alpha-BHC | 7.266 | 7.028 | 275.4E6 | 138.0E6 | 90.162 | 103.592 |
| 3)gamma-BHC | 7.782 | 7.566 | 255.5E6 | 106.0E6 | 102.412 | 94.770 |
| 4)beta-BHC | 8.643 | 7.660 | 102.5E6 | 57115270 | 92.828 | 112.964 |
| 5)Heptachlor | 8.093 | 7.995 | 128.2E6 | 74658984 | 91.297 | 89.124 |
| 6)delta-BHC | 8.967 | 8.146 | 221.4E6 | 111.7E6 | 94.550 | 102.316 |
| 7)Aldrin | 8.457 | 8.428 | 209.9E6 | 102.1E6 | 91.957 | 96.436 |
| 8)Heptachlor Epoxid | 9.245 | 9.131 | 191.8E6 | 85569253 | 97.464 | 95.456 |
| 9)y-chlordane | 9.627 | 9.331 | 193.6E6 | 87833184 | 91.305 | 93.328 |
| 10)a-chlordane | 9.693 | 9.527 | 183.6E6 | 73466133 | 89.676 | 89.962 |
| 11)Endosulfan I | 9.592 | 9.572 | 145.9E6 | 87426920 | 89.059 | 94.593 |
| 12)p,p'-DDE | 9.794 | 9.818 | 181.4E6 | 80446089 | 90.979 | 92.663 |
| 13)Dieldrin | 10.010 | 9.943 | 174.9E6 | 79300654 | 91.371 | 92.215 |
| 14)Endrin | 10.256 | 10.389 | 154.7E6 | 63145629 | 90.340 | 92.980 |
| 15)p,p'-DDD | 10.675 | 10.483 | 136.1E6 | 60910349 | 90.254 | 94.763 |
| 16)Endosulfan II | 10.775 | 10.600 | 154.6E6 | 75267478 | 91.212 | 96.938 |
| 17)p,p'-DDT | 10.881 | 10.837 | 90631155 | 49758575 | 75.686 | 82.189 |
| 18)Endrin Aldehyde | 11.222 | 10.982 | 118.0E6 | 58477593 | 100.235 | 98.818 |
| 19)Endosulfan Sulfat | 11.564 | 11.123 | 130.0E6 | 64648737 | 95.721 | 97.321 |
| 20)Methoxychlor | 11.529 | 11.831 | 44174658 | 21812235 | 79.499 | 83.432 |
| 21)Endrin Ketone | 12.048 | 12.043 | 131.9E6 | 68860271 | 98.856 | 94.565 |
| 22)DCB-Surrogate | 12.995 | 13.449 | 106.2E6 | 50376618 | 95.101 | 95.469 |

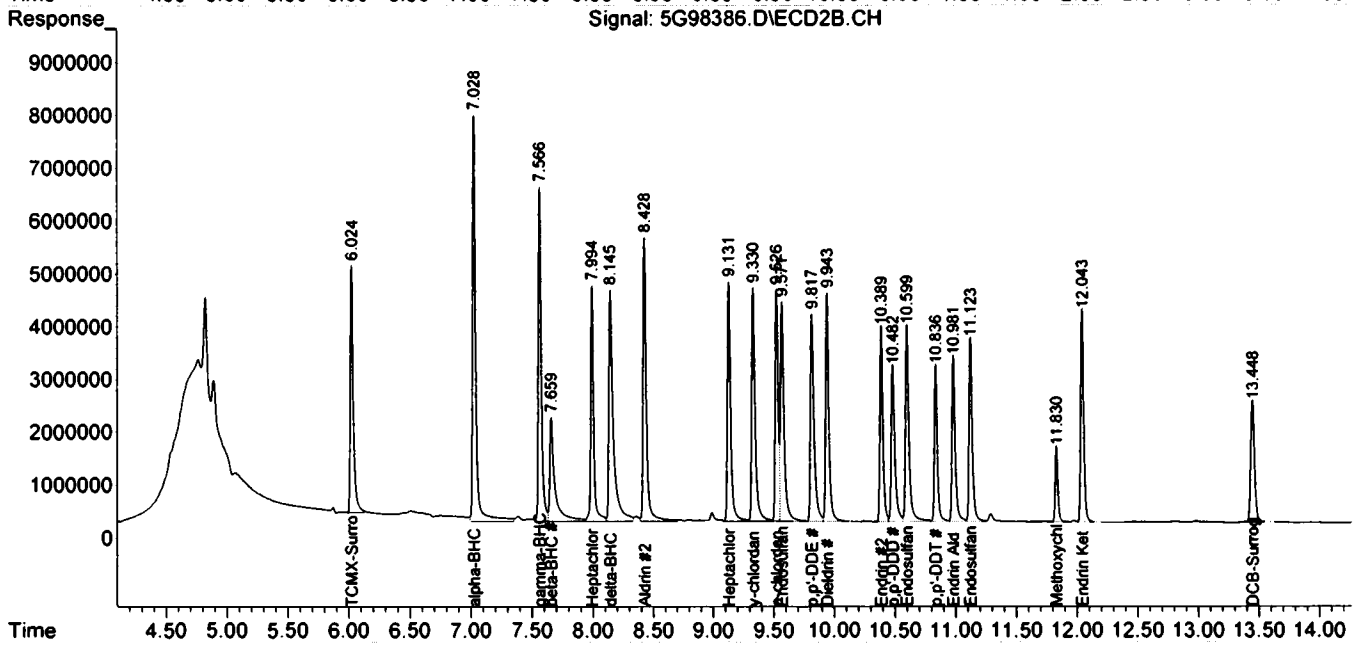
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-29-21\
Data File : 5G98386.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29-Sep-21, 09:47:04
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB (Sig #1); CAL 100 (Sig #2)
Misc : S,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 12:55:31 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119486.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 14:29
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 20:40:09 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

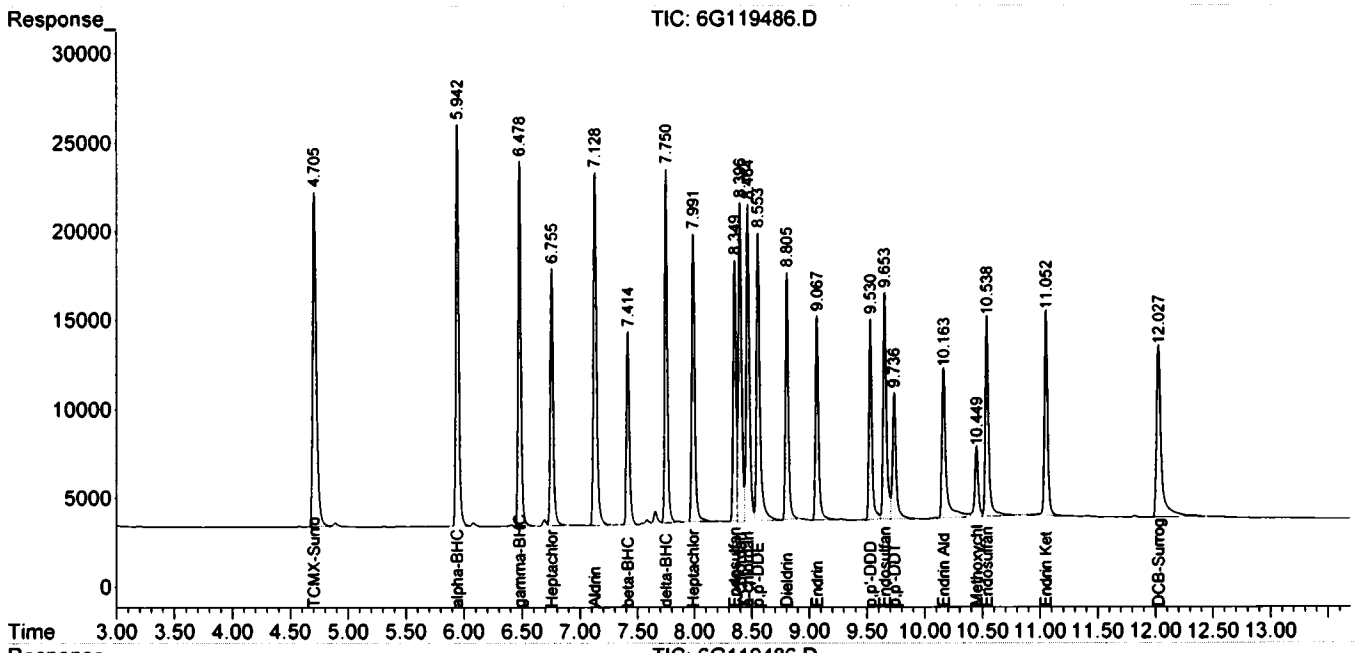
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 4.706 | 4.712 | 416408 | 1345878 | 171.550 | 92.499 # |
| 2)alpha-BHC | 5.943 | 5.665 | 382333 | 1835066 | 141.145 | 101.304 # |
| 3)gamma-BHC | 6.478 | 6.207 | 341259 | 1651508 | 150.103 | 98.451 # |
| 4)beta-BHC | 7.415 | 6.289 | 193116 | 869980 | 144.999 | 94.737 # |
| 5)Heptachlor | 6.756 | 6.657 | 251220 | 1426518 | 133.298 | 93.693 # |
| 6)delta-BHC | 7.751 | 6.793 | 329416 | 1633732 | 152.539 | 101.028 # |
| 7)Aldrin | 7.129 | 7.109 | 377085 | 1392490 | 130.307 | 98.073 |
| 8)Heptachlor Epoxid | 7.992 | 7.843 | 292661 | 1251560 | 135.211 | 94.081 # |
| 9)y-chlordane | 8.396 | 8.055 | 352128 | 1286312 | 142.667m | 95.232 # |
| 10)a-chlordane | 8.464f | 8.263 | 349090 | 1272722 | 139.509m | 101.887 # |
| 11)Endosulfan I | 8.349f | 8.310 | 255008 | 1346741 | 144.818m | 107.274m# |
| 12)p,p'-DDE | 8.554 | 8.562 | 335779 | 1238353 | 142.612 | 106.630 # |
| 13)Dieldrin | 8.806 | 8.707 | 243236 | 1186242 | 133.608 | 102.566 |
| 14)Endrin | 9.068 | 9.183 | 210072 | 906452 | 123.735 | 85.933 # |
| 15)p,p'-DDD | 9.531 | 9.271 | 201708 | 906548 | 144.825 | 96.153 # |
| 16)Endosulfan II | 9.653 | 9.403 | 251241 | 1008216 | 136.592m | 91.328 # |
| 17)p,p'-DDT | 9.737 | 9.656 | 151747 | 700087 | 88.591 | 86.485 |
| 18)Endrin Aldehyde | 10.164 | 9.813 | 204420 | 890320 | 124.556 | 104.966 |
| 19)Endosulfan Sulfat | 10.539 | 9.965 | 229142 | 883249 | 127.864 | 94.821 # |
| 20)Methoxychlor | 10.449 | 10.726 | 80103 | 398332 | 87.948m | 80.445 |
| 21)Endrin Ketone | 11.053 | 10.953 | 222844 | 995764 | 136.918 | 96.735 # |
| 22)DCB-Surrogate | 12.028 | 12.563 | 281779 | 871166 | 129.245 | 98.106 |

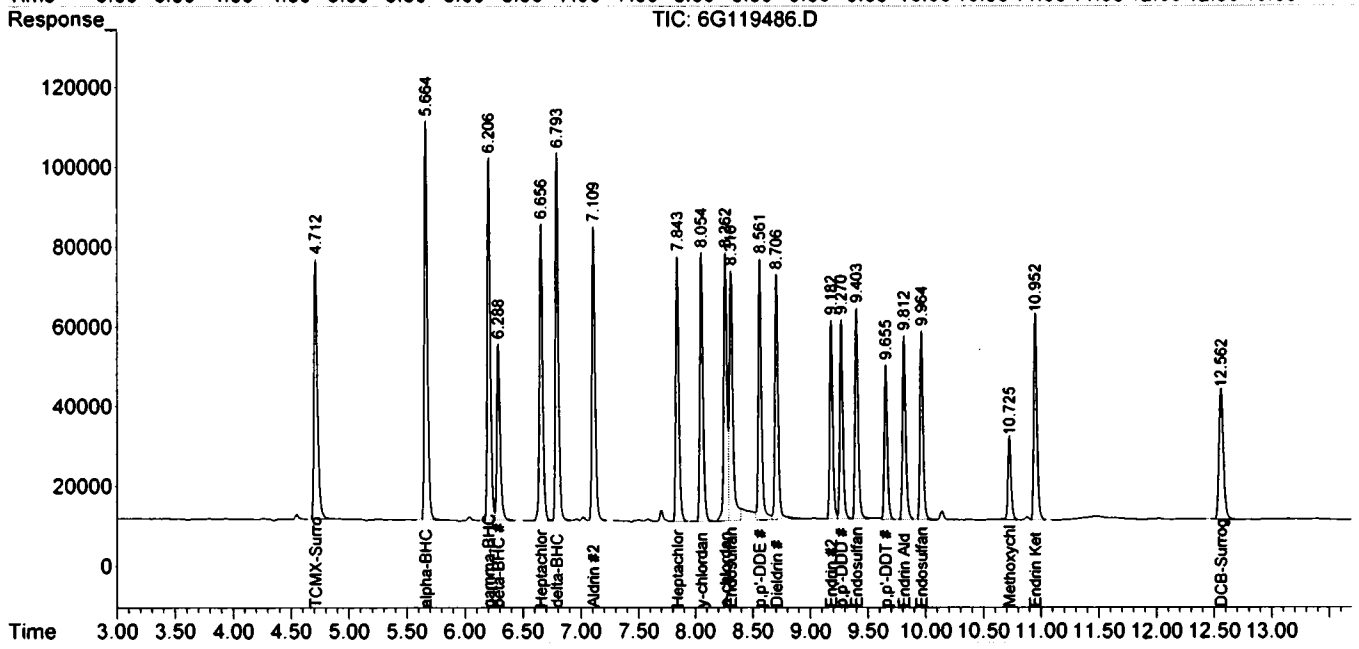
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119486.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 14:29
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 20:40:09 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-29-21\
Data File : 5G98407.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29-Sep-21, 16:44:39
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 16:59:37 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

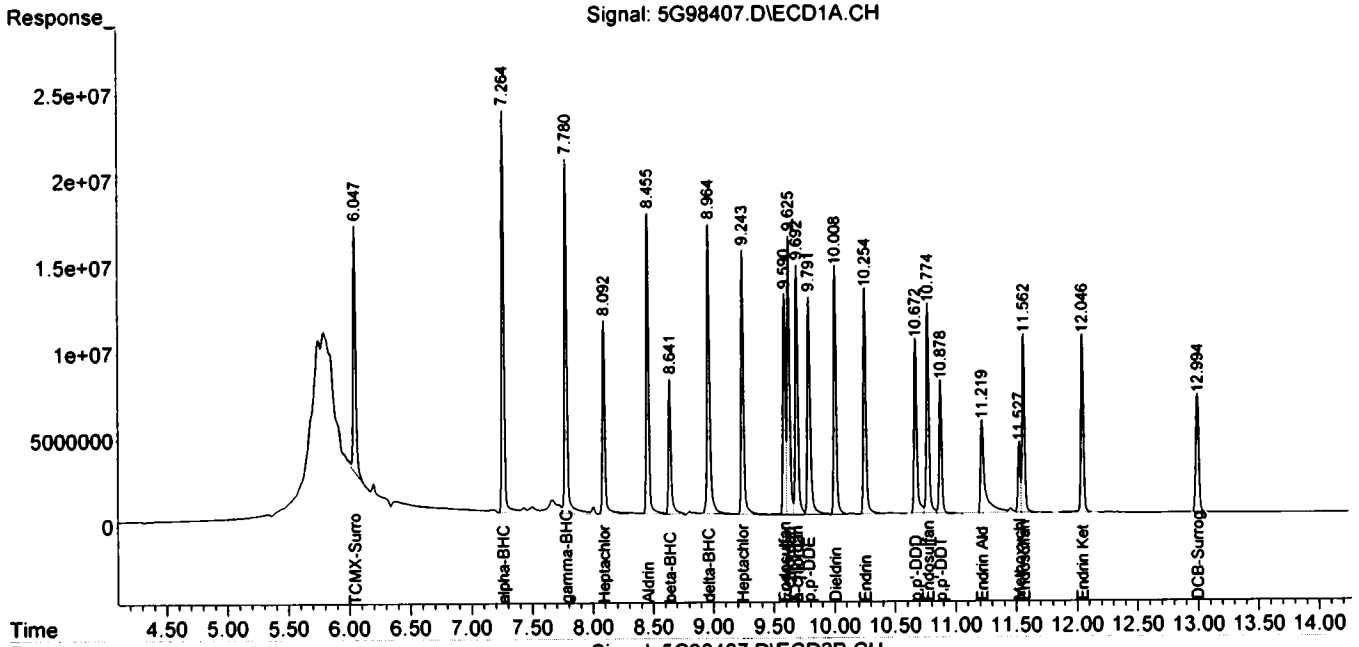
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.047 | 6.020 | 202.3E6 | 88296733 | 105.420m | 99.089m |
| 2)alpha-BHC | 7.264 | 7.024 | 308.9E6 | 143.5E6 | 101.140 | 107.694 |
| 3)gamma-BHC | 7.781 | 7.562 | 291.0E6 | 116.7E6 | 116.658 | 104.369 |
| 4)beta-BHC | 8.641 | 7.655 | 117.6E6 | 57180190 | 106.459 | 113.092 |
| 5)Heptachlor | 8.092 | 7.991 | 161.4E6 | 88577890 | 114.920 | 105.740 |
| 6)delta-BHC | 8.964 | 8.141 | 254.2E6 | 117.2E6 | 108.530 | 107.346 |
| 7)Aldrin | 8.455 | 8.424 | 241.5E6 | 108.8E6 | 105.809 | 102.745 |
| 8)Heptachlor Epoxid | 9.243 | 9.126 | 215.4E6 | 92556985 | 109.464 | 103.251 |
| 9)y-chlordane | 9.626 | 9.328 | 226.9E6 | 97205686 | 107.027 | 103.287 |
| 10)a-chlordane | 9.692 | 9.522 | 212.8E6 | 82510491 | 103.950 | 101.037 |
| 11)Endosulfan I | 9.590 | 9.567 | 175.3E6 | 95740934 | 107.055 | 103.588 |
| 12)p,p'-DDE | 9.791 | 9.813 | 213.0E6 | 91066155 | 106.824 | 104.896 |
| 13)Dieldrin | 10.008 | 9.939 | 204.2E6 | 89784355 | 106.644 | 104.406 |
| 14)Endrin | 10.255 | 10.383 | 192.4E6 | 76836426 | 112.361 | 113.139 |
| 15)p,p'-DDD | 10.672 | 10.476 | 160.3E6 | 69988267 | 106.300 | 108.886 |
| 16)Endosulfan II | 10.774 | 10.594 | 179.3E6 | 82619920 | 105.792 | 106.407 |
| 17)p,p'-DDT | 10.879 | 10.831 | 111.1E6 | 60004100 | 92.812 | 99.112 |
| 18)Endrin Aldehyde | 11.220 | 10.977 | 131.3E6 | 63188694 | 111.532 | 106.779 |
| 19)Endosulfan Sulfat | 11.563 | 11.118 | 147.1E6 | 70713833 | 108.319 | 106.451 |
| 20)Methoxychlor | 11.527 | 11.827 | 54574937 | 26938532 | 98.216 | 103.040 |
| 21)Endrin Ketone | 12.046 | 12.038 | 150.7E6 | 79782335 | 112.915 | 109.564 |
| 22)DCB-Surrogate | 12.994 | 13.441 | 118.6E6 | 57480473 | 106.241 | 108.931 |

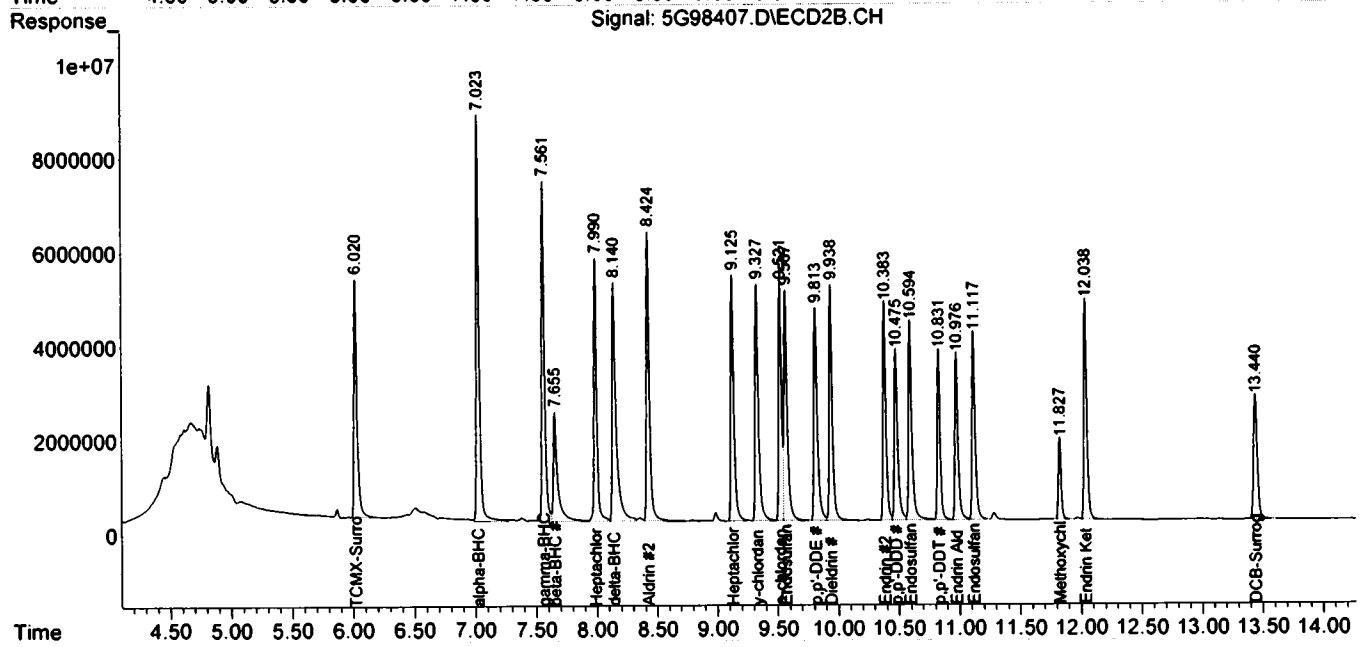
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-29-21\
Data File : 5G98407.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29-Sep-21, 16:44:39
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 16:59:37 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119502.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 19:37
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 19:54:14 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

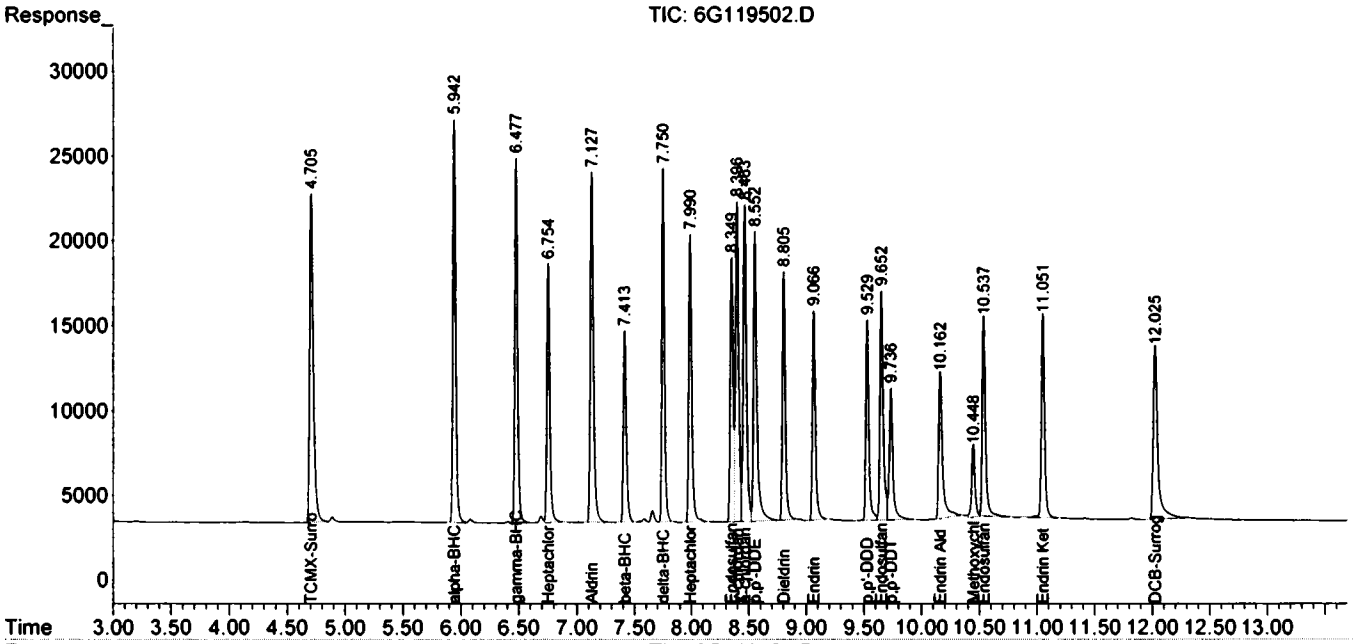
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 4.706 | 4.713 | 428447 | 1402413 | 177.249 | 96.384 | # |
| 2)alpha-BHC | 5.943 | 5.665 | 399672 | 1953662 | 147.546 | 107.851 | # |
| 3)gamma-BHC | 6.478 | 6.207 | 356906 | 1794001 | 158.037 | 106.946 | # |
| 4)beta-BHC | 7.414 | 6.289 | 202791 | 940332 | 153.488 | 102.398 | # |
| 5)Heptachlor | 6.755 | 6.658 | 263546 | 1533557 | 140.788 | 100.724 | # |
| 6)delta-BHC | 7.751 | 6.794 | 338918 | 1755238 | 157.614 | 108.542 | # |
| 7)Aldrin | 7.128 | 7.110 | 393587 | 1527591 | 136.009 | 107.588 | |
| 8)Heptachlor Epoxid | 7.991 | 7.844 | 309968 | 1379488 | 144.339 | 103.697 | # |
| 9)y-chlordane | 8.396 | 8.056 | 379223 | 1433266 | 155.197m | 106.111 | # |
| 10)a-chlordane | 8.463f | 8.263 | 373256 | 1318115 | 150.460m | 105.521 | # |
| 11)Endosulfan I | 8.349f | 8.312 | 256414 | 1329035 | 145.736m | 105.863 | # |
| 12)p,p'-DDE | 8.553 | 8.564 | 355665 | 1281565 | 151.058 | 110.350 | # |
| 13)Dieldrin | 8.805 | 8.708 | 257232 | 1251912 | 142.027 | 108.244 | |
| 14)Endrin | 9.066 | 9.184 | 223224 | 1043344 | 132.163 | 98.911 | # |
| 15)p,p'-DDD | 9.530 | 9.272 | 213906 | 1031957 | 154.762 | 109.454 | # |
| 16)Endosulfan II | 9.652 | 9.405 | 265039 | 1124357 | 145.128m | 101.849 | # |
| 17)p,p'-DDT | 9.737 | 9.657 | 166922 | 814566 | 97.451 | 100.627 | |
| 18)Endrin Aldehyde | 10.162 | 9.814 | 199311 | 973795 | 121.443 | 115.541 | |
| 19)Endosulfan Sulfat | 10.537 | 9.966 | 228301 | 965245 | 127.365 | 103.623 | |
| 20)Methoxychlor | 10.448 | 10.727 | 84817 | 455537 | 93.518m | 91.998 | |
| 21)Endrin Ketone | 11.051 | 10.953 | 232477 | 1064981 | 143.614 | 103.460 | # |
| 22)DCB-Surrogate | 12.026 | 12.565 | 282458 | 943978 | 129.599 | 106.967 | |

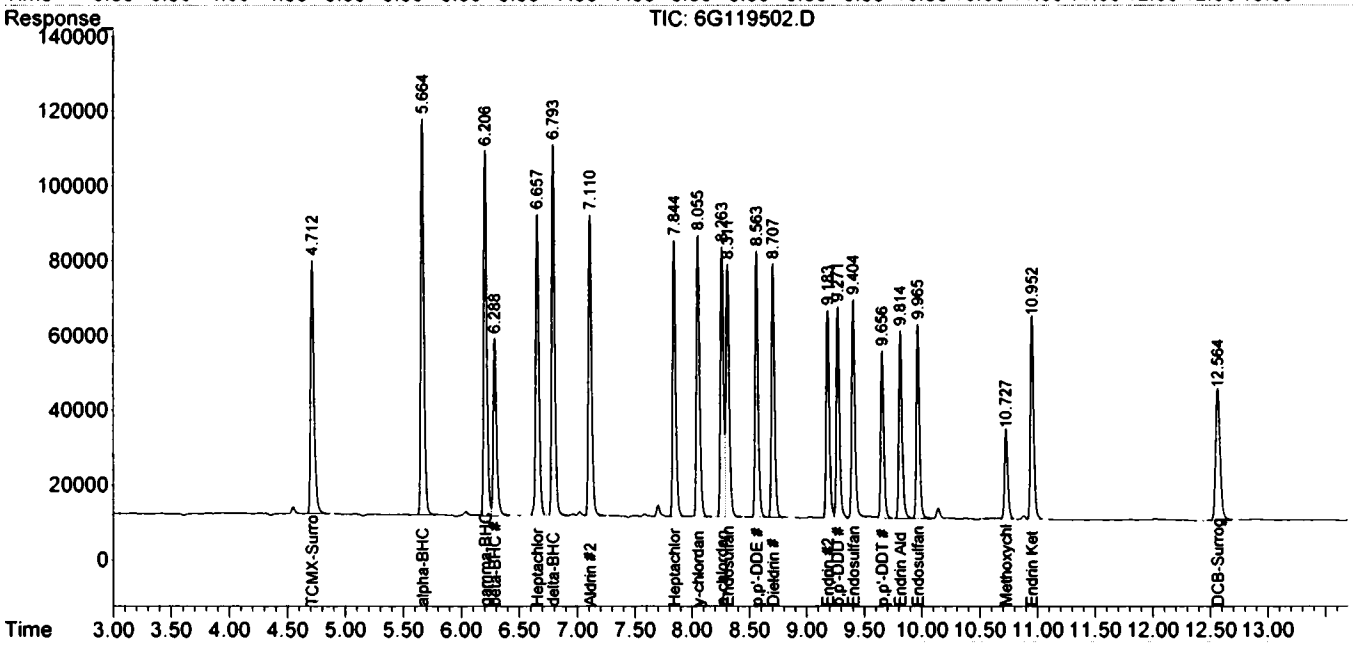
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119502.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 19:37
Operator : MS/MLC/MC/PR
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 19:54:14 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# GC Pesticide Data
# Raw QC Data

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: WMB94962
Client Id:
Data File: 5G98224.D
Analysis Date: 09/19/21 23:37
Date Rec/Extracted: NA-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | | | | |

Worksheet #: 610738

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98224.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19-Sep-21, 23:37:11
Operator : MS/MLC/MC
Sample : WMB94962 (Sig #1); WMB94962(MS) (Sig #2)
Misc : A,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 09:00:03 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

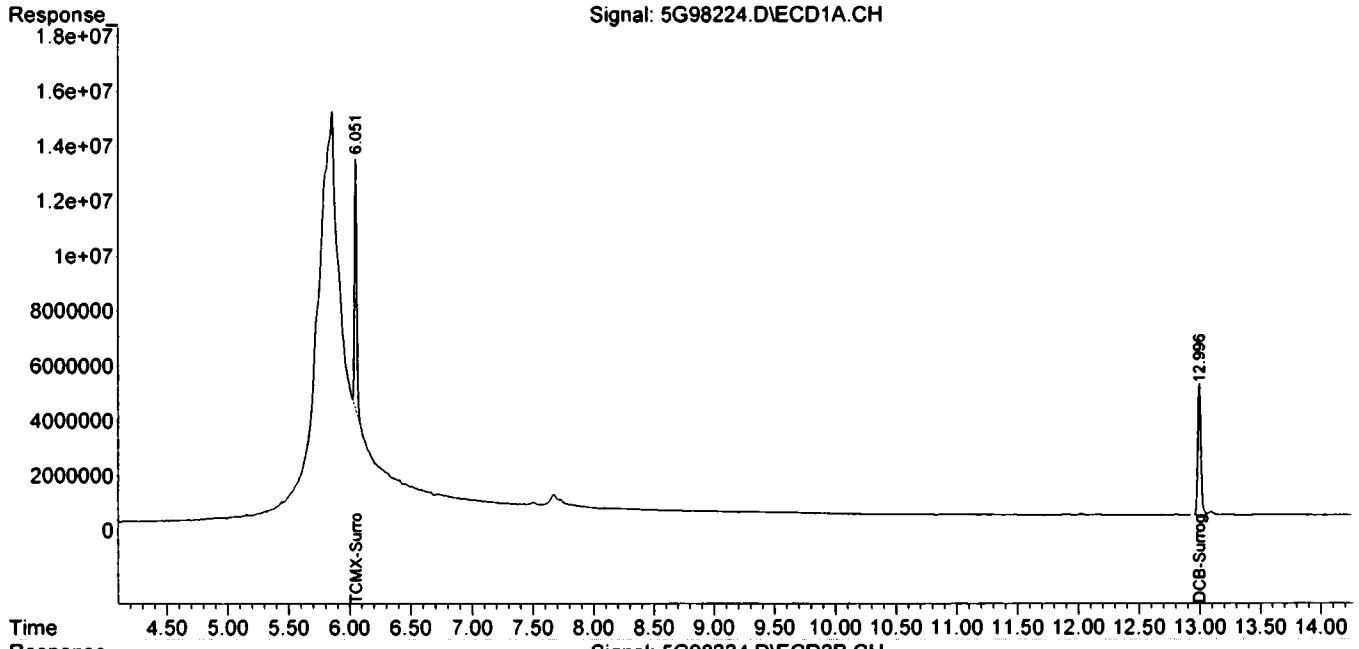
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | |
| 1) | TCMX-Surrogate | 6.051 | 6.028 | 116.7E6 | 54200238 | 60.824m | 60.825m |
| 22) | DCB-Surrogate | 12.997 | 13.448 | 84749885 | 42588590 | 75.913 | 80.710 |

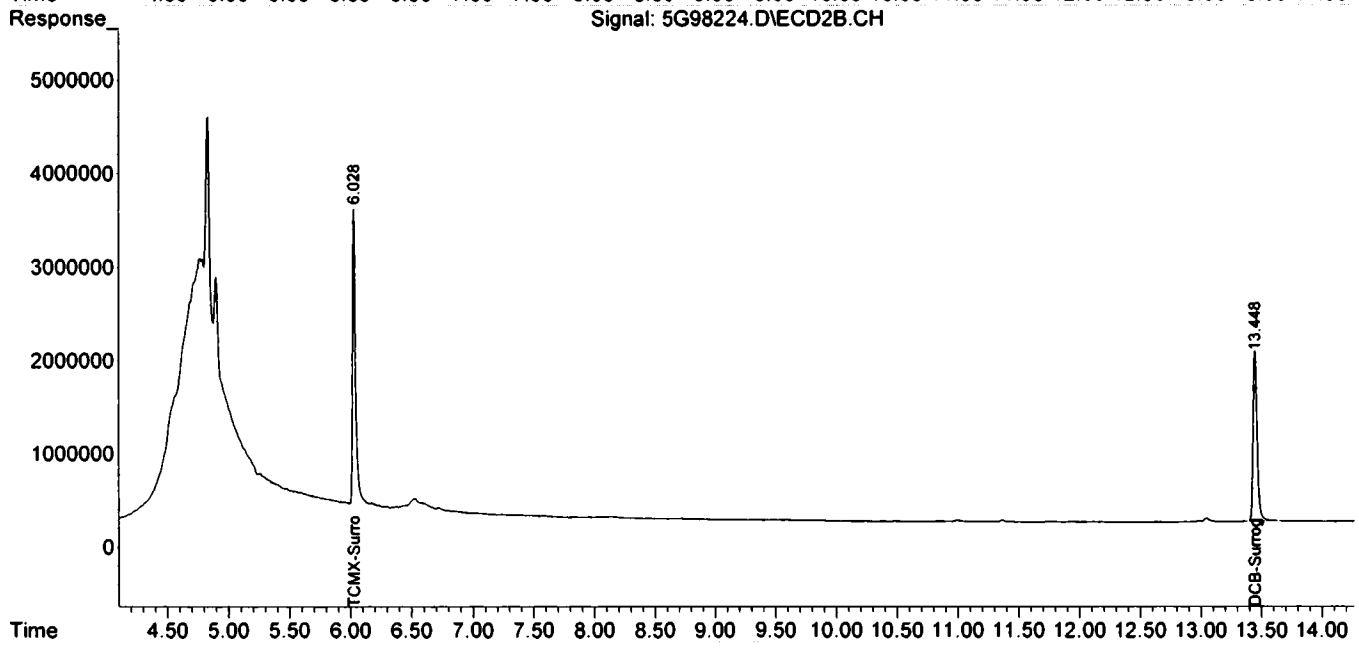
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98224.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19-Sep-21, 23:37:11
Operator : MS/MLC/MC
Sample : WMB94962 (Sig #1); WMB94962(MS) (Sig #2)
Misc : A,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 09:00:03 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form1

ORGANICS PESTICIDE REPORT

Sample Number: WMB94974
Client Id:
Data File: 5G98260.D
Analysis Date: 09/21/21 08:50
Date Rec/Extracted: NA-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | | | | |

Worksheet #: 610738

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98260.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 08:50:26
Operator : MS/MLC/MC
Sample : WMB94974
Misc : A,PEST
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 09:22:30 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

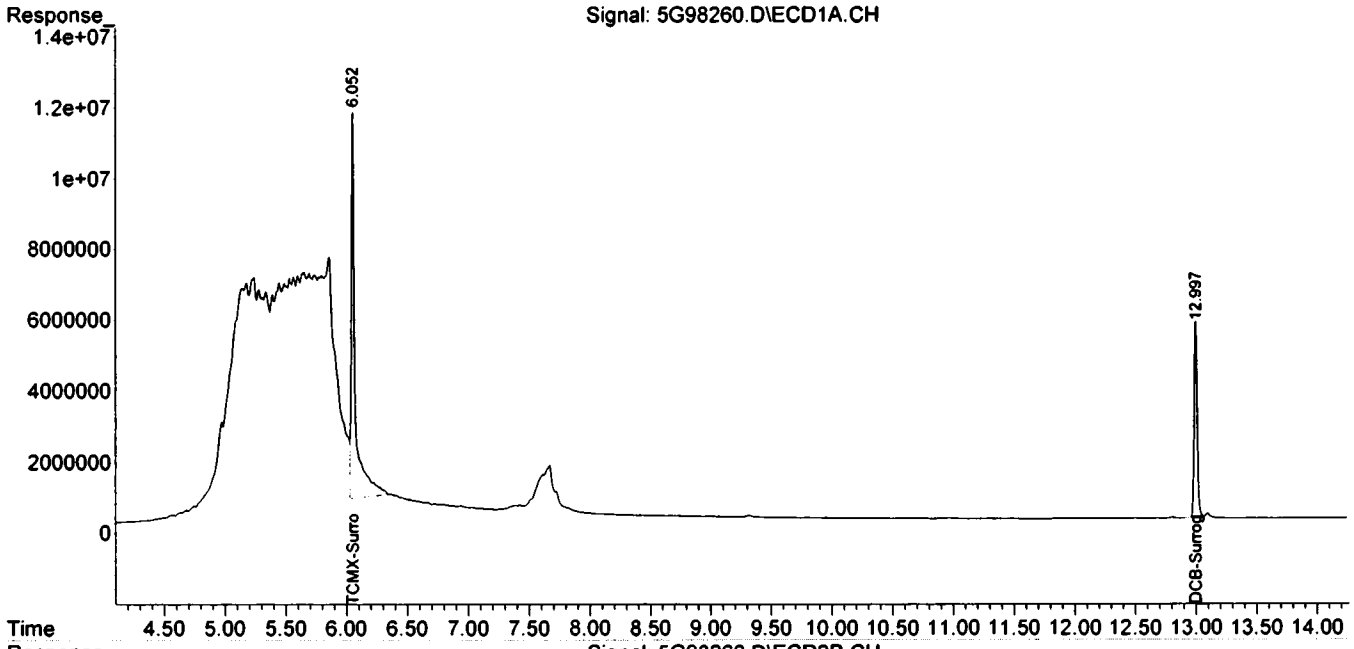
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.053 | 6.022 | 248.9E6 | 56832238 | 129.717 | 63.779 # |
| 22)DCB-Surrogate | 12.998 | 13.442 | 95588789 | 47775837 | 85.621 | 90.540 |

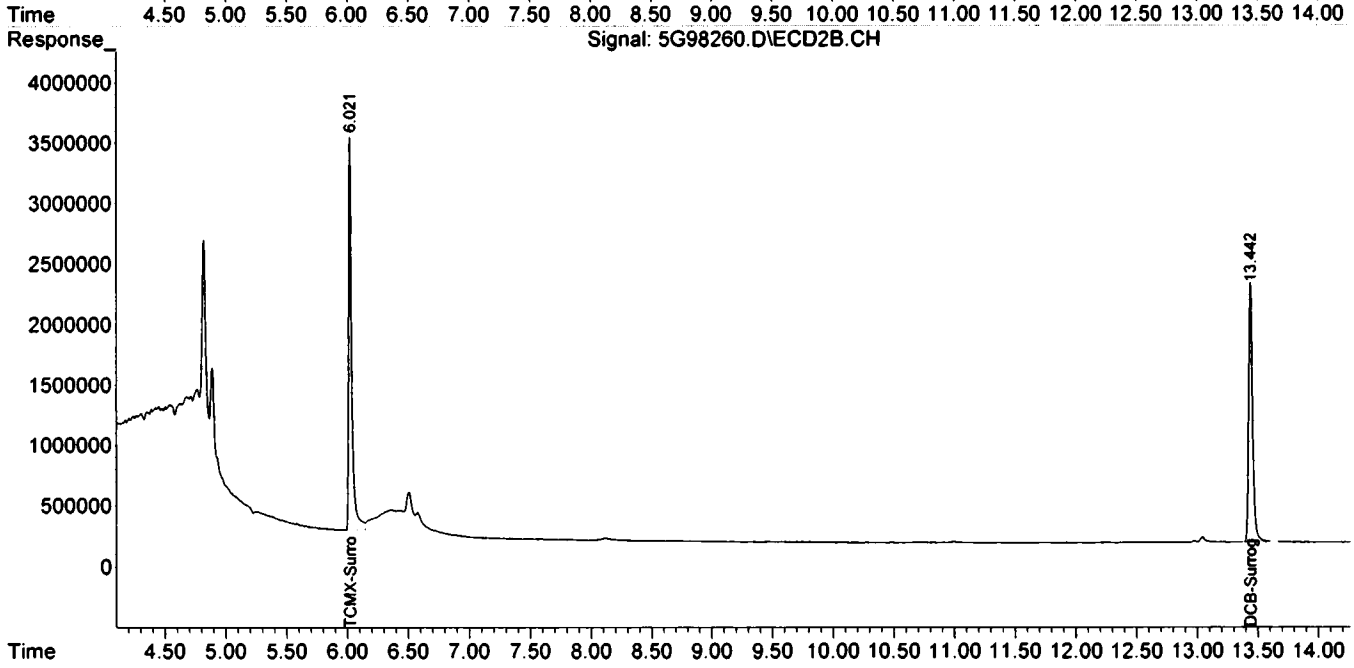
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98260.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 08:50:26
Operator : MS/MLC/MC
Sample : WMB94974
Misc : A,PEST
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 09:22:30 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94962

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98225.D | WMB94962(MS) | 9/19/2021 11:55:23 PM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 2 | 71.49 | 0 | 100 | 71 | 60 | 130 |
| gamma-BHC | 2 | 70.96 | 0 | 100 | 71 | 60 | 130 |
| beta-BHC | 2 | 75.22 | 0 | 100 | 75 | 60 | 130 |
| Heptachlor | 2 | 69.16 | 0 | 100 | 69 | 60 | 130 |
| delta-BHC | 2 | 79.51 | 0 | 100 | 80 | 60 | 130 |
| Aldrin | 2 | 75.76 | 0 | 100 | 76 | 70 | 130 |
| Heptachlor Epoxide | 2 | 79.7 | 0 | 100 | 80 | 70 | 130 |
| y-chlordane | 2 | 82.98 | 0 | 100 | 83 | 40 | 140 |
| a-chlordane | 2 | 78.59 | 0 | 100 | 79 | 40 | 140 |
| Endosulfan I | 2 | 86.02 | 0 | 100 | 86 | 70 | 130 |
| p,p'-DDE | 2 | 82.86 | 0 | 100 | 83 | 70 | 130 |
| Dieldrin | 2 | 90.73 | 0 | 100 | 91 | 70 | 130 |
| Endrin | 2 | 78.08 | 0 | 100 | 78 | 70 | 130 |
| p,p'-DDD | 2 | 91.16 | 0 | 100 | 91 | 70 | 130 |
| Endosulfan II | 2 | 91 | 0 | 100 | 91 | 70 | 130 |
| p,p'-DDT | 2 | 71.7 | 0 | 100 | 72 | 70 | 130 |
| Endrin Aldehyde | 2 | 88.04 | 0 | 100 | 88 | 10 | 130 |
| Endosulfan Sulfate | 2 | 91.82 | 0 | 100 | 92 | 70 | 130 |
| Methoxychlor | 2 | 75.04 | 0 | 100 | 75 | 60 | 130 |
| Endrin Ketone | 2 | 79.43 | 0 | 100 | 79 | 70 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98225.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19-Sep-21, 23:55:23
Operator : MS/MLC/MC
Sample : WMB94962(MS) (Sig #1); WMB94962 (Sig #2)
Misc : A,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 08:59:43 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

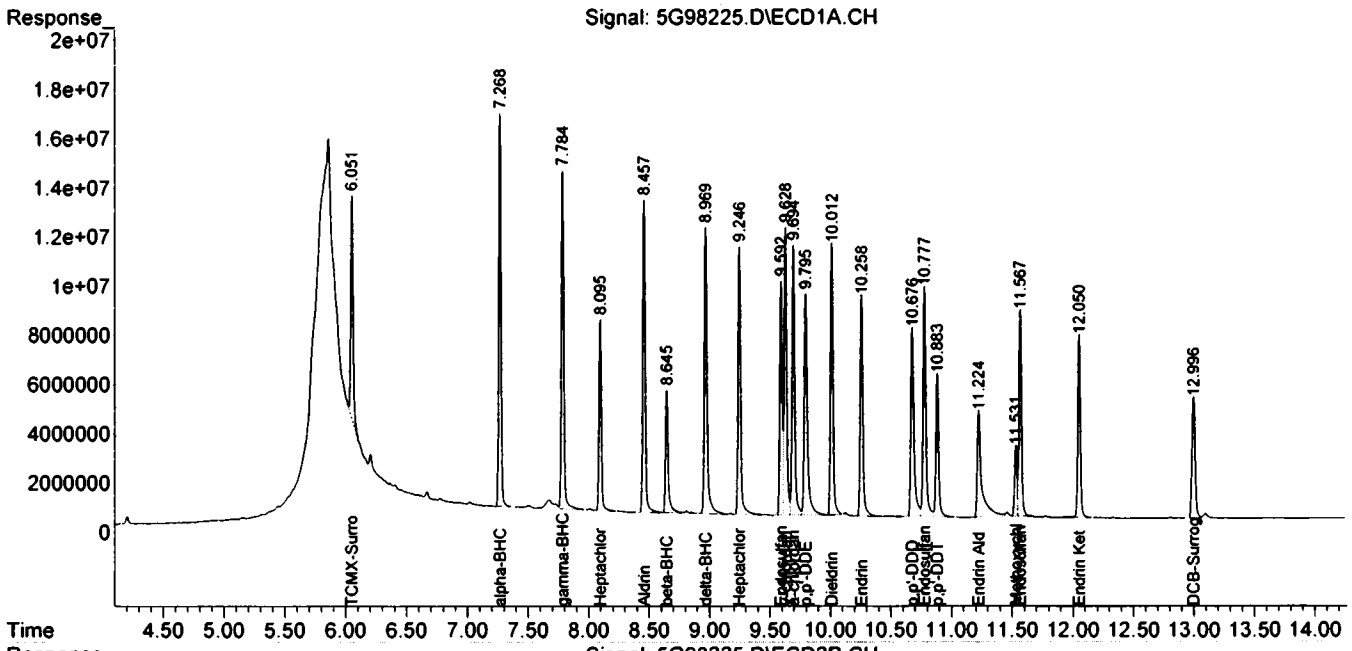
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.051 | 6.029 | 118.7E6 | 55895511 | 61.853m | 62.728 |
| 2)alpha-BHC | 7.268 | 7.031 | 200.9E6 | 95260858 | 65.755 | 71.486 |
| 3)gamma-BHC | 7.785 | 7.568 | 186.7E6 | 79375416 | 74.838 | 70.962 |
| 4)beta-BHC | 8.646 | 7.661 | 75810072 | 38032793 | 68.653 | 75.222 |
| 5)Heptachlor | 8.095 | 7.997 | 104.2E6 | 57934668 | 74.214 | 69.160 |
| 6)delta-BHC | 8.969 | 8.147 | 177.6E6 | 86777208 | 75.808 | 79.507 |
| 7)Aldrin | 8.458 | 8.430 | 172.8E6 | 80214669 | 75.720 | 75.757 |
| 8)Heptachlor Epoxid | 9.247 | 9.132 | 159.4E6 | 71448467 | 81.030 | 79.704 |
| 9)y-chlordane | 9.628 | 9.332 | 172.5E6 | 78095384 | 81.371 | 82.981 |
| 10)a-chlordane | 9.695 | 9.528 | 163.8E6 | 64178283 | 79.979 | 78.589 |
| 11)Endosulfan I | 9.593 | 9.573 | 129.7E6 | 79506880 | 79.162 | 86.023 |
| 12)p,p'-DDE | 9.796 | 9.818 | 164.1E6 | 71934241 | 82.301 | 82.859 |
| 13)Dieldrin | 10.012 | 9.945 | 162.1E6 | 78020146 | 84.686 | 90.726 |
| 14)Endrin | 10.258 | 10.390 | 135.4E6 | 53027289 | 79.084 | 78.081 |
| 15)p,p'-DDD | 10.676 | 10.483 | 137.1E6 | 58592706 | 90.917 | 91.157 |
| 16)Endosulfan II | 10.777 | 10.600 | 148.8E6 | 70660350 | 87.813 | 91.004 |
| 17)p,p'-DDT | 10.883 | 10.836 | 90192930 | 43411218 | 75.320 | 71.704 |
| 18)Endrin Aldehyde | 11.225 | 10.983 | 109.7E6 | 52102271 | 93.135 | 88.045 |
| 19)Endosulfan Sulfat | 11.567 | 11.124 | 123.9E6 | 60997626 | 91.225 | 91.825 |
| 20)Methoxychlor | 11.531 | 11.832 | 39000307 | 19618061 | 70.187 | 75.039 |
| 21)Endrin Ketone | 12.050 | 12.043 | 105.5E6 | 57842310 | 79.051 | 79.434 |
| 22)DCB-Surrogate | 12.996 | 13.449 | 88648587 | 44789330 | 79.405 | 84.880 |

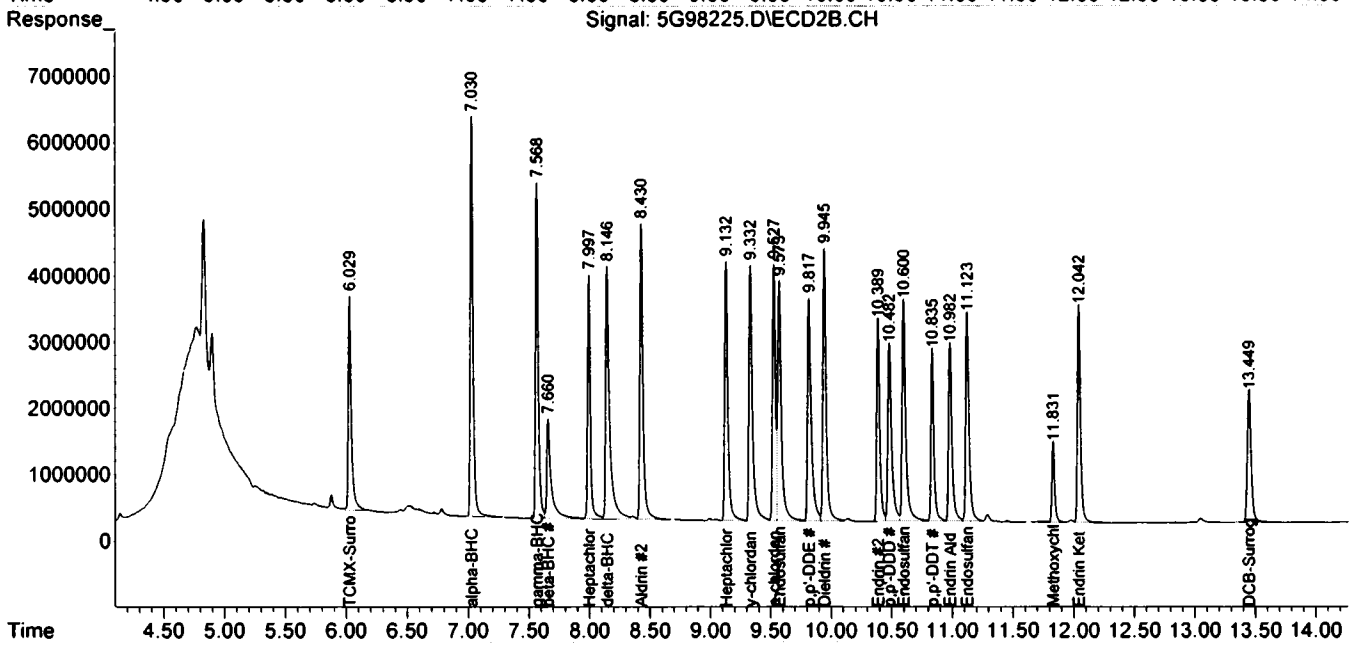
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98225.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 19-Sep-21, 23:55:23
Operator : MS/MLC/MC
Sample : WMB94962(MS) (Sig #1); WMB94962 (Sig #2)
Misc : A,PEST
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 20 08:59:43 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94974

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98261.D | WMB94974(MS) | 9/21/2021 9:08:44 AM |
| Non Spike(If applicable): | | | |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MBS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| **alpha-BHC** | 2 | 77.95 | 0 | 100 | 78 | 60 | 130 |
| **gamma-BHC** | 2 | 77.57 | 0 | 100 | 78 | 60 | 130 |
| **beta-BHC** | 2 | 79.81 | 0 | 100 | 80 | 60 | 130 |
| **Heptachlor** | 2 | 71.36 | 0 | 100 | 71 | 60 | 130 |
| **delta-BHC** | 2 | 80.41 | 0 | 100 | 80 | 60 | 130 |
| **Aldrin** | 2 | 82.92 | 0 | 100 | 83 | 70 | 130 |
| **Heptachlor Epoxide** | 2 | 86.73 | 0 | 100 | 87 | 70 | 130 |
| **y-chlordane** | 2 | 89.66 | 0 | 100 | 90 | 40 | 140 |
| **a-chlordane** | 2 | 84.14 | 0 | 100 | 84 | 40 | 140 |
| **Endosulfan I** | 2 | 93.99 | 0 | 100 | 94 | 70 | 130 |
| **p,p'-DDE** | 2 | 86.33 | 0 | 100 | 86 | 70 | 130 |
| **Dieldrin** | 2 | 98.12 | 0 | 100 | 98 | 70 | 130 |
| **Endrin** | 2 | 75.1 | 0 | 100 | 75 | 70 | 130 |
| **p,p'-DDD** | 2 | 89.91 | 0 | 100 | 90 | 70 | 130 |
| **Endosulfan II** | 2 | 97.35 | 0 | 100 | 97 | 70 | 130 |
| **p,p'-DDT** | 2 | 76.28 | 0 | 100 | 76 | 70 | 130 |
| **Endrin Aldehyde** | 2 | 98.99 | 0 | 100 | 99 | 10 | 130 |
| **Endosulfan Sulfate** | 2 | 96.81 | 0 | 100 | 97 | 70 | 130 |
| **Methoxychlor** | 2 | 70.17 | 0 | 100 | 70 | 60 | 130 |
| **Endrin Ketone** | 2 | 84.66 | 0 | 100 | 85 | 70 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98261.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 09:08:44
Operator : MS/MLC/MC
Sample : WMB94974(MS)
Misc : A,PEST
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 09:58:27 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

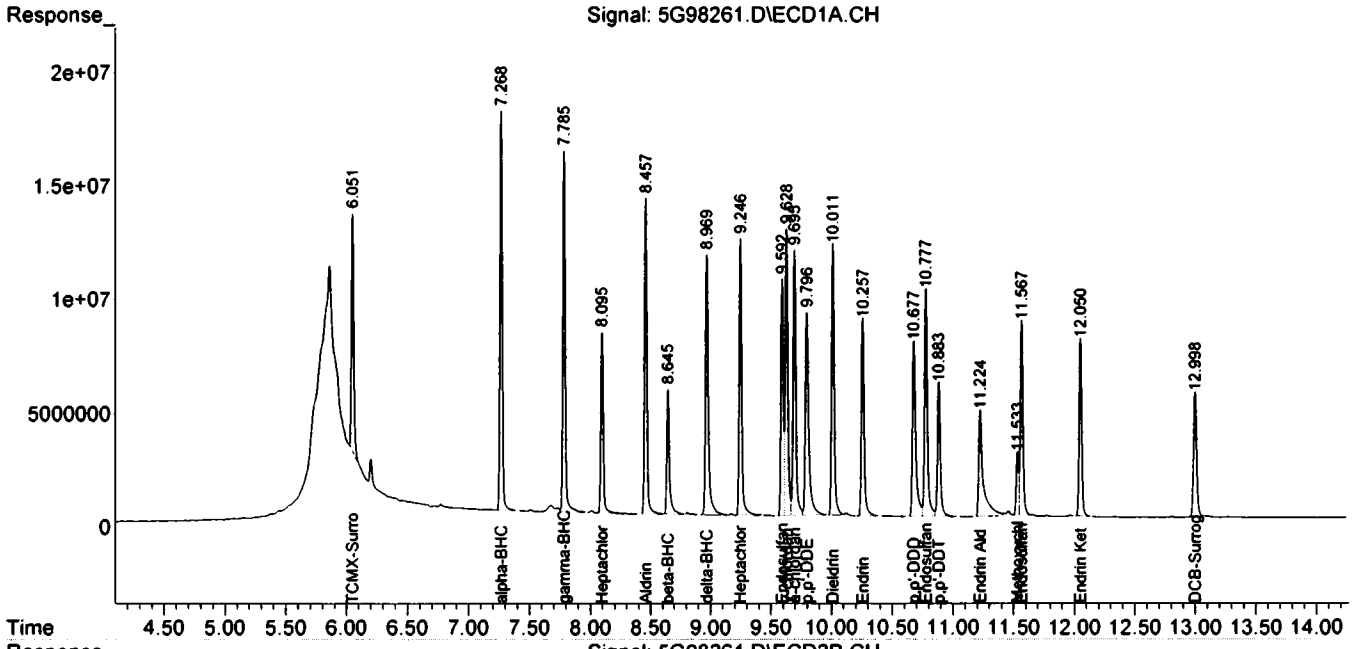
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.051 | 6.028 | 134.4E6 | 65439926 | 70.068m | 73.439 |
| 2)alpha-BHC | 7.268 | 7.029 | 229.2E6 | 103.9E6 | 75.045 | 77.949 |
| 3)gamma-BHC | 7.785 | 7.567 | 211.1E6 | 86767822 | 84.625 | 77.571 |
| 4)beta-BHC | 8.646 | 7.661 | 85396825 | 40352371 | 77.335 | 79.810 |
| 5)Heptachlor | 8.096 | 7.996 | 112.9E6 | 59775716 | 80.344 | 71.357 |
| 6)delta-BHC | 8.970 | 8.147 | 185.0E6 | 87762936 | 78.985 | 80.411 |
| 7)Aldrin | 8.458 | 8.430 | 192.5E6 | 87801587 | 84.331 | 82.922 |
| 8)Heptachlor Epoxid | 9.247 | 9.132 | 175.8E6 | 77750913 | 89.363 | 86.734 |
| 9)y-chlordane | 9.629 | 9.333 | 188.0E6 | 84379116 | 88.699 | 89.658 |
| 10)a-chlordane | 9.695 | 9.527 | 181.2E6 | 68712259 | 88.472 | 84.141 |
| 11)Endosulfan I | 9.593 | 9.572 | 142.2E6 | 86870447 | 86.824 | 93.991 |
| 12)p,p'-DDE | 9.797 | 9.819 | 177.6E6 | 74946854 | 89.077 | 86.329 |
| 13)Dieldrin | 10.012 | 9.943 | 177.9E6 | 84380960 | 92.890 | 98.122 |
| 14)Endrin | 10.258 | 10.388 | 133.5E6 | 51001706 | 77.973 | 75.098 |
| 15)p,p'-DDD | 10.678 | 10.484 | 145.4E6 | 57788454 | 96.381 | 89.906 |
| 16)Endosulfan II | 10.777 | 10.600 | 161.5E6 | 75589962 | 95.269 | 97.353 |
| 17)p,p'-DDT | 10.884 | 10.837 | 97101537 | 46180723 | 81.089 | 76.279 |
| 18)Endrin Aldehyde | 11.224 | 10.981 | 121.4E6 | 58578918 | 103.056 | 98.989 |
| 19)Endosulfan Sulfat | 11.567 | 11.124 | 132.0E6 | 64309724 | 97.198 | 96.811 |
| 20)Methoxychlor | 11.533 | 11.833 | 37156294 | 18344428 | 66.869 | 70.167 |
| 21)Endrin Ketone | 12.051 | 12.043 | 114.1E6 | 61650560 | 85.504 | 84.664 |
| 22)DCB-Surrogate | 12.998 | 13.449 | 96687641 | 49502300 | 86.606 | 93.812 |

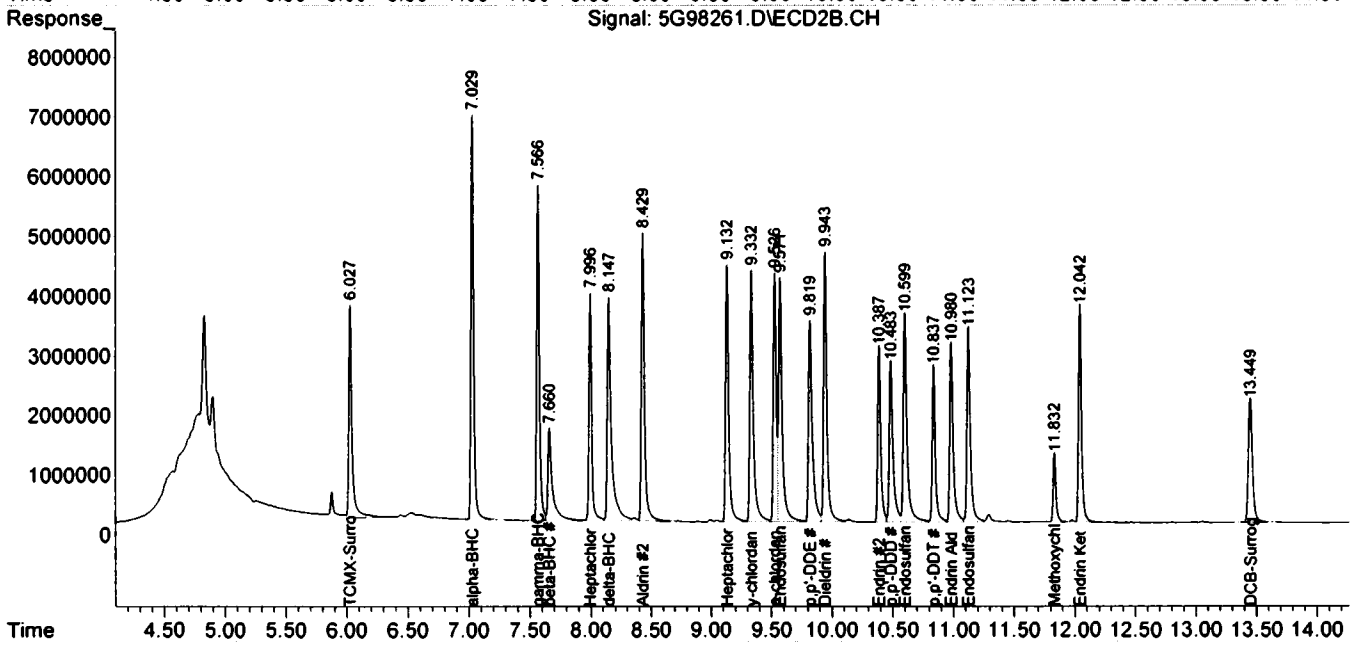
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98261.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 09:08:44
Operator : MS/MLC/MC
Sample : WMB94974(MS)
Misc : A,PEST
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 09:58:27 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94962

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98226.D | AD26083-042(MS:AD26083-04 | 9/20/2021 12:13:33 AM |
| Non Spike(If applicable): | 6G119494.D | AD26083-040(R) | 9/29/2021 4:53:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 2 | 49.91 | 0 | 100 | 50 * | 60 | 130 |
| gamma-BHC | 2 | 53.41 | 0 | 100 | 53 * | 60 | 130 |
| beta-BHC | 2 | 43.24 | 0 | 100 | 43 * | 60 | 130 |
| Heptachlor | 2 | 54.05 | 0 | 100 | 54 * | 60 | 130 |
| delta-BHC | 2 | 55.72 | 0 | 100 | 56 * | 60 | 130 |
| Aldrin | 2 | 49.96 | 0 | 100 | 50 * | 70 | 130 |
| Heptachlor Epoxide | 2 | 56.94 | 0 | 100 | 57 * | 70 | 130 |
| y-chlordane | 2 | 55.2 | 0 | 100 | 55 | 40 | 140 |
| a-chlordane | 2 | 58.3 | 0 | 100 | 58 | 40 | 140 |
| Endosulfan I | 2 | 53.99 | 0 | 100 | 54 * | 70 | 130 |
| p,p'-DDE | 2 | 61.94 | 0 | 100 | 62 * | 70 | 130 |
| Dieldrin | 2 | 61.68 | 0 | 100 | 62 * | 70 | 130 |
| Endrin | 2 | 68.71 | 0 | 100 | 69 * | 70 | 130 |
| p,p'-DDD | 2 | 66.39 | 0 | 100 | 66 * | 70 | 130 |
| Endosulfan II | 2 | 63.92 | 0 | 100 | 64 * | 70 | 130 |
| p,p'-DDT | 2 | 67.59 | 0 | 100 | 68 * | 70 | 130 |
| Endrin Aldehyde | 2 | 48.39 | 0 | 100 | 48 | 10 | 130 |
| Endosulfan Sulfate | 2 | 64.94 | 0 | 100 | 65 * | 70 | 130 |
| Methoxychlor | 2 | 61.45 | 0 | 100 | 61 | 60 | 130 |
| Endrin Ketone | 2 | 57.83 | 0 | 100 | 58 * | 70 | 130 |

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98227.D | AD26083-044(MSD:AD26083-0 | 9/20/2021 12:31:46 AM |
| Non Spike(If applicable): | 6G119494.D | AD26083-040(R) | 9/29/2021 4:53:00 PM |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 2 | 58.2 | 0 | 100 | 58 * | 60 | 130 |
| gamma-BHC | 2 | 61.87 | 0 | 100 | 62 | 60 | 130 |
| beta-BHC | 2 | 47.69 | 0 | 100 | 48 * | 60 | 130 |
| Heptachlor | 2 | 66.75 | 0 | 100 | 67 | 60 | 130 |
| delta-BHC | 2 | 61.88 | 0 | 100 | 62 | 60 | 130 |
| Aldrin | 2 | 60.63 | 0 | 100 | 61 * | 70 | 130 |
| Heptachlor Epoxide | 2 | 66.51 | 0 | 100 | 67 * | 70 | 130 |
| y-chlordane | 2 | 64.23 | 0 | 100 | 64 | 40 | 140 |
| a-chlordane | 2 | 67.79 | 0 | 100 | 68 | 40 | 140 |
| Endosulfan I | 2 | 62.63 | 0 | 100 | 63 * | 70 | 130 |
| p,p'-DDE | 2 | 70.77 | 0 | 100 | 71 | 70 | 130 |
| Dieldrin | 2 | 72.56 | 0 | 100 | 73 | 70 | 130 |
| Endrin | 2 | 80.47 | 0 | 100 | 80 | 70 | 130 |
| p,p'-DDD | 2 | 75.01 | 0 | 100 | 75 | 70 | 130 |
| Endosulfan II | 2 | 71.64 | 0 | 100 | 72 | 70 | 130 |
| p,p'-DDT | 2 | 75.91 | 0 | 100 | 76 | 70 | 130 |
| Endrin Aldehyde | 2 | 49.26 | 0 | 100 | 49 | 10 | 130 |
| Endosulfan Sulfate | 2 | 70.85 | 0 | 100 | 71 | 70 | 130 |
| Methoxychlor | 2 | 71.07 | 0 | 100 | 71 | 60 | 130 |
| Endrin Ketone | 2 | 64.49 | 0 | 100 | 64 * | 70 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

# Form3
# RPD Data Laboratory Limits
## QC Batch: WMB94962

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98227.D | AD26083-044(MSD:AD26083-0 | 9/20/2021 12:31:46 AM |
| Duplicate(If applicable): | 5G98226.D | AD26083-042(MS:AD26083-04 | 9/20/2021 12:13:33 AM |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| alpha-BHC | 2 | 58.2 | 49.91 | 15 | 40 |
| gamma-BHC | 2 | 61.87 | 53.41 | 15 | 40 |
| beta-BHC | 2 | 47.69 | 43.24 | 9.8 | 40 |
| Heptachlor | 2 | 66.75 | 54.05 | 21 | 40 |
| delta-BHC | 2 | 61.88 | 55.72 | 10 | 40 |
| Aldrin | 2 | 60.63 | 49.96 | 19 | 40 |
| Heptachlor Epoxide | 2 | 66.51 | 56.94 | 16 | 40 |
| y-chlordane | 2 | 64.23 | 55.2 | 15 | 40 |
| a-chlordane | 2 | 67.79 | 58.3 | 15 | 40 |
| Endosulfan I | 2 | 62.63 | 53.99 | 15 | 40 |
| p,p'-DDE | 2 | 70.77 | 61.94 | 13 | 40 |
| Dieldrin | 2 | 72.56 | 61.68 | 16 | 40 |
| Endrin | 2 | 80.47 | 68.71 | 16 | 40 |
| p,p'-DDD | 2 | 75.01 | 66.39 | 12 | 40 |
| Endosulfan II | 2 | 71.64 | 63.92 | 11 | 40 |
| p,p'-DDT | 2 | 75.91 | 67.59 | 12 | 40 |
| Endrin Aldehyde | 2 | 49.26 | 48.39 | 1.8 | 40 |
| Endosulfan Sulfate | 2 | 70.85 | 64.94 | 8.7 | 40 |
| Methoxychlor | 2 | 71.07 | 61.45 | 15 | 40 |
| Endrin Ketone | 2 | 64.49 | 57.83 | 11 | 40 |

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98226.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 00:13:33
Operator : MS/MLC/MC
Sample : AD26083-042(MS:AD26083-040)
Misc : A,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 19:32:21 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

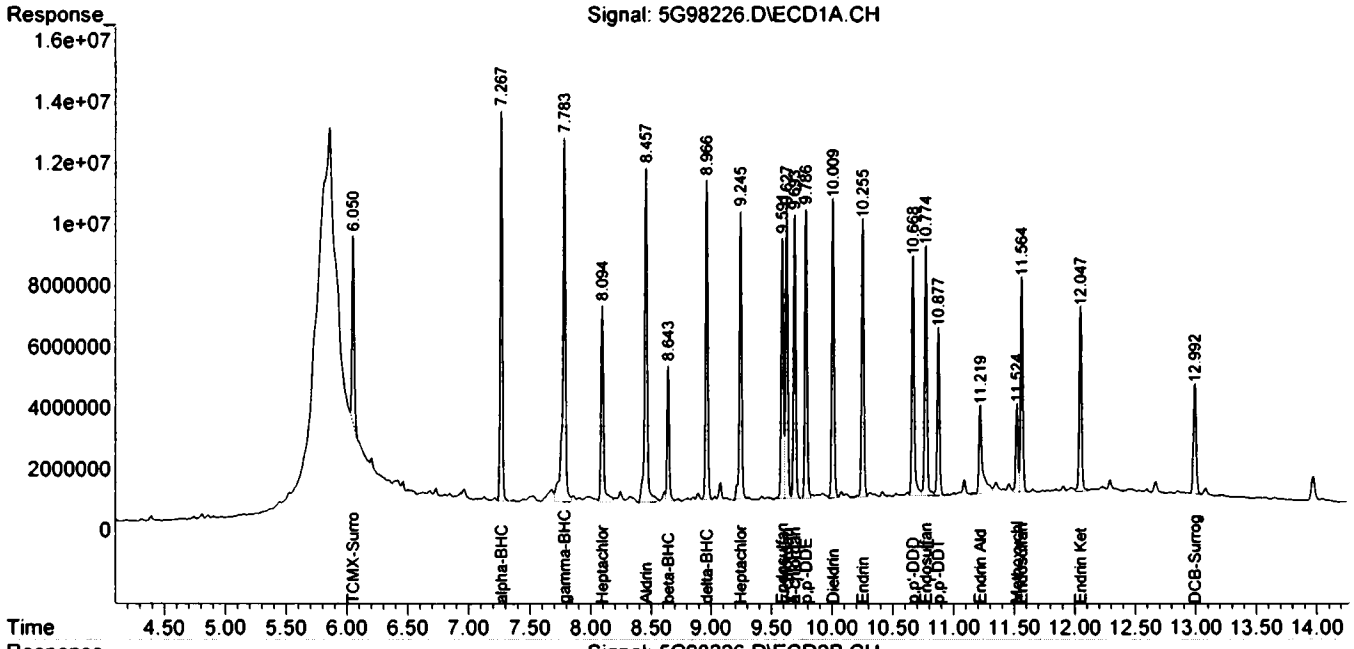
| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|---|
| | Target Compounds | | | | | | | |
| 1) | TCMX-Surrogate | 6.050 | 6.028 | 76705365 | 32748230 | 39.978m | 36.751 | |
| 2) | alpha-BHC | 7.267 | 7.030 | 152.7E6 | 66502561 | 49.989 | 49.905 | |
| 3) | gamma-BHC | 7.784 | 7.567 | 191.3E6 | 59737747 | 76.693 | 53.406 | # |
| 4) | beta-BHC | 8.644 | 7.658 | 56319678 | 21863899 | 51.003 | 43.243 | |
| 5) | Heptachlor | 8.095 | 7.996 | 92763811 | 45274819 | 66.041 | 54.047 | |
| 6) | delta-BHC | 8.966 | 8.143 | 128.3E6 | 60814653 | 54.766 | 55.720 | |
| 7) | Aldrin | 8.457 | 8.429 | 164.7E6 | 52897408 | 72.182 | 49.958 | # |
| 8) | Heptachlor Epoxid | 9.245 | 9.130 | 123.7E6 | 51041144 | 62.864 | 56.938 | |
| 9) | y-chlordane | 9.627 | 9.330 | 121.9E6 | 51952067 | 57.493 | 55.202 | |
| 10) | a-chlordane | 9.693 | 9.526 | 116.5E6 | 47611784 | 56.918 | 58.302 | |
| 11) | Endosulfan I | 9.591 | 9.571 | 110.2E6 | 49901589 | 67.260 | 53.992 | |
| 12) | p,p'-DDE | 9.787 | 9.811 | 121.8E6 | 53772723 | 61.080 | 61.939 | |
| 13) | Dieldrin | 10.010 | 9.942 | 128.7E6 | 53041595 | 67.236 | 61.679 | |
| 14) | Endrin | 10.255 | 10.387 | 119.5E6 | 46664153 | 69.813 | 68.711 | |
| 15) | p,p'-DDD | 10.668 | 10.474 | 111.3E6 | 42673016 | 73.773 | 66.389 | |
| 16) | Endosulfan II | 10.774 | 10.596 | 111.7E6 | 49629179 | 65.932 | 63.918 | |
| 17) | p,p'-DDT | 10.877 | 10.831 | 72245163 | 40920514 | 60.332 | 67.590 | |
| 18) | Endrin Aldehyde | 11.220 | 10.979 | 59600700 | 28634077 | 50.615 | 48.387 | |
| 19) | Endosulfan Sulfat | 11.565 | 11.120 | 92733135 | 43136462 | 68.270 | 64.937 | |
| 20) | Methoxychlor | 11.524 | 11.827 | 37939598 | 16065905 | 68.278 | 61.452 | |
| 21) | Endrin Ketone | 12.048 | 12.040 | 83381325 | 42107428 | 62.475 | 57.826 | |
| 22) | DCB-Surrogate | 12.992 | 13.443 | 58327483 | 30722091 | 52.245 | 58.222 | |

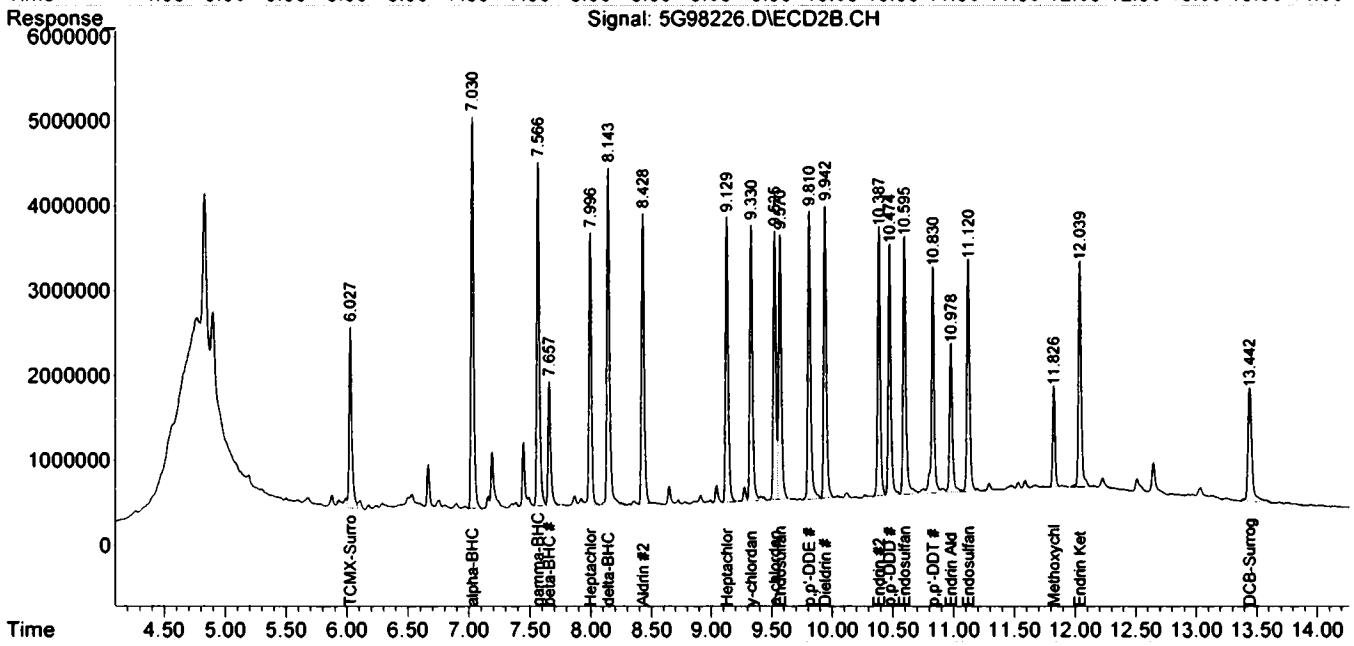
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98226.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 00:13:33
Operator : MS/MLC/MC
Sample : AD26083-042(MS:AD26083-040)
Misc : A,PEST
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 19:32:21 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98227.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 00:31:46
Operator : MS/MLC/MC
Sample : AD26083-044(MSD:AD26083-040)
Misc : A,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 19:32:56 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

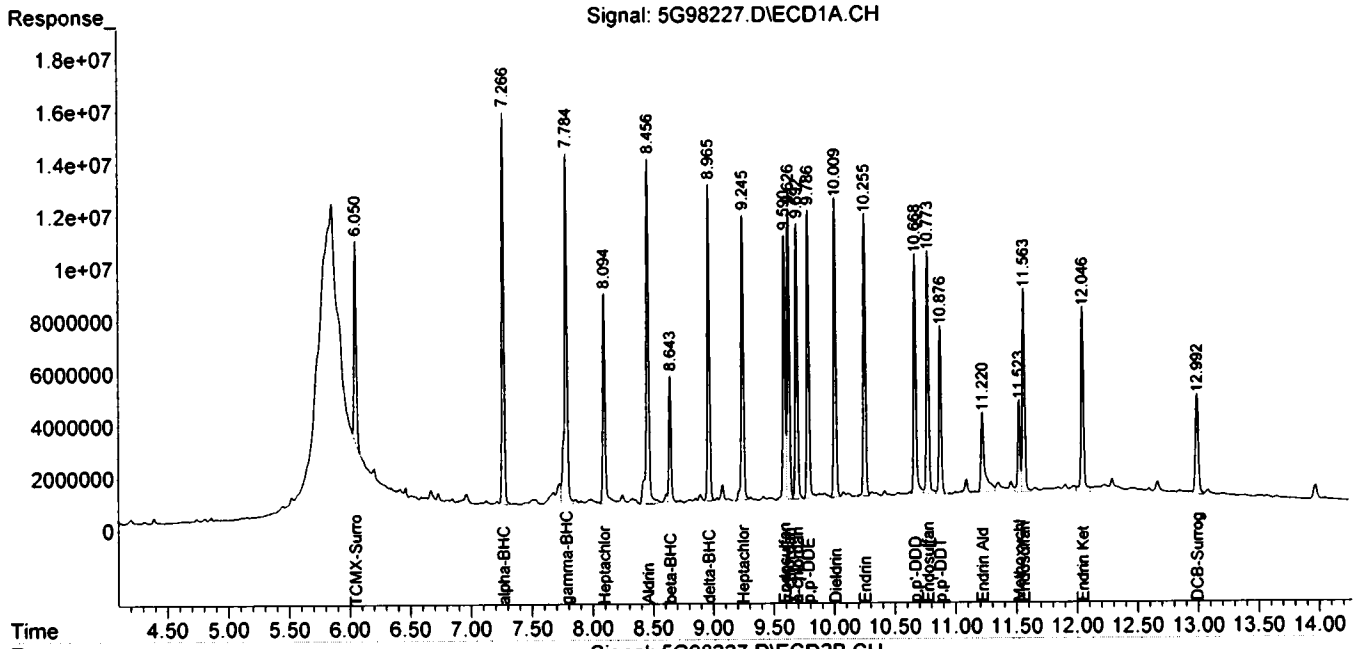
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 | |
|---|---|---|---|---|---|---|---|
| Target Compounds | | | | | | | |
| 1)TCMX-Surrogate | 6.050 | 6.028 | 96389113 | 40477601 | 50.237m | 45.425 | |
| 2)alpha-BHC | 7.267 | 7.030 | 178.3E6 | 77556181 | 58.367 | 58.200 | |
| 3)gamma-BHC | 7.784 | 7.566 | 200.3E6 | 69206409 | 80.311 | 61.871 | |
| 4)beta-BHC | 8.644 | 7.658 | 62296095 | 24111848 | 56.415 | 47.689 | |
| 5)Heptachlor | 8.095 | 7.996 | 110.3E6 | 55915200 | 78.538 | 66.749 | |
| 6)delta-BHC | 8.966 | 8.142 | 144.9E6 | 67537583 | 61.858 | 61.880 | |
| 7)Aldrin | 8.457 | 8.428 | 190.5E6 | 64199156 | 83.449 | 60.632 | # |
| 8)Heptachlor Epoxid | 9.245 | 9.130 | 143.3E6 | 59621426 | 72.848 | 66.510 | |
| 9)y-chlordane | 9.626 | 9.330 | 142.3E6 | 60451281 | 67.128 | 64.233 | |
| 10)a-chlordane | 9.693 | 9.526 | 136.1E6 | 55359359 | 66.451 | 67.789 | |
| 11)Endosulfan I | 9.591 | 9.571 | 130.1E6 | 57887525 | 79.458 | 62.632 | |
| 12)p,p'-DDE | 9.787 | 9.810 | 141.7E6 | 61438010 | 71.057 | 70.768 | |
| 13)Dieldrin | 10.010 | 9.942 | 148.2E6 | 62401720 | 77.417 | 72.564 | |
| 14)Endrin | 10.255 | 10.387 | 137.7E6 | 54650272 | 80.447 | 80.471 | |
| 15)p,p'-DDD | 10.668 | 10.474 | 125.2E6 | 48214508 | 82.998 | 75.011 | |
| 16)Endosulfan II | 10.774 | 10.596 | 127.1E6 | 55625771 | 75.011 | 71.641 | |
| 17)p,p'-DDT | 10.877 | 10.831 | 83283889 | 45954777 | 69.550 | 75.906 | |
| 18)Endrin Aldehyde | 11.221 | 10.978 | 63024172 | 29151734 | 53.523 | 49.262 | |
| 19)Endosulfan Sulfat | 11.563 | 11.120 | 108.4E6 | 47065544 | 79.838 | 70.852 | |
| 20)Methoxychlor | 11.524 | 11.827 | 46433981 | 18580364 | 83.565 | 71.070 | |
| 21)Endrin Ketone | 12.047 | 12.040 | 104.4E6 | 46963562 | 78.253 | 64.495 | |
| 22)DCB-Surrogate | 12.992 | 13.443 | 65979984 | 31989997 | 59.100 | 60.624 | |

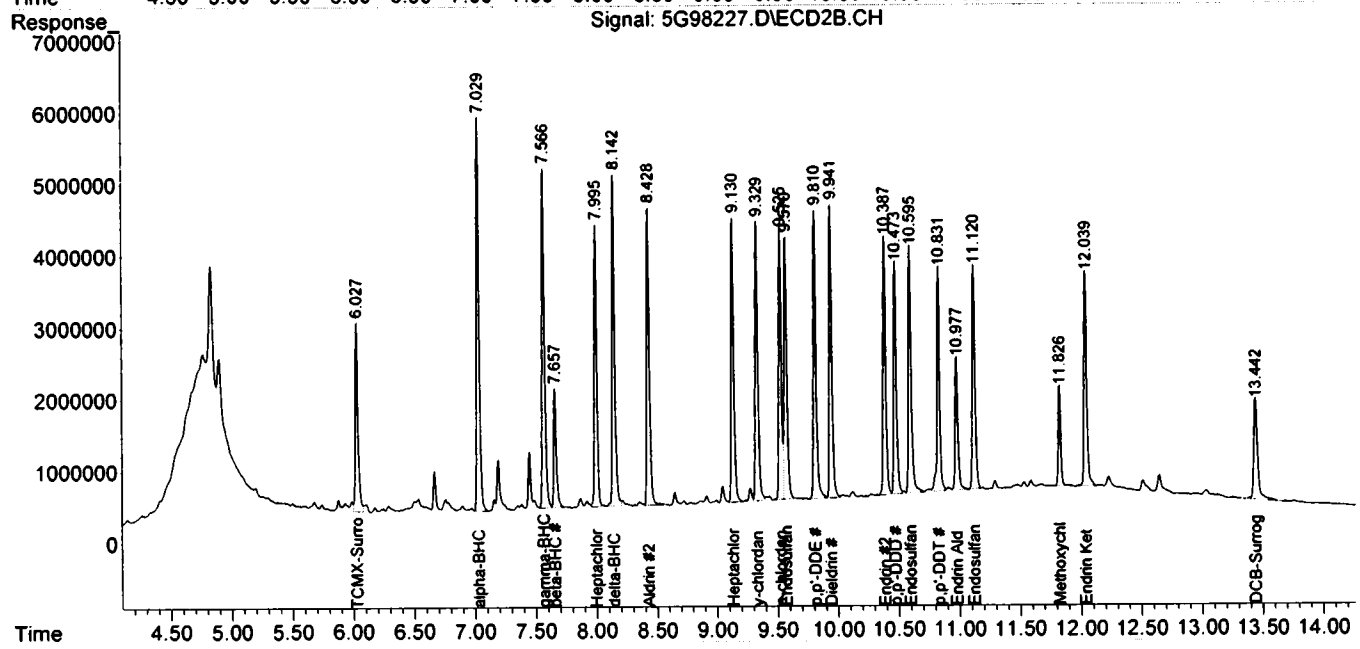
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-20-21\
Data File : 5G98227.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Sep-21, 00:31:46
Operator : MS/MLC/MC
Sample : AD26083-044(MSD:AD26083-040)
Misc : A,PEST
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 19:32:56 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119494.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 16:53
Operator : MS/MLC/MC/PR
Sample : AD26083-040(R)
Misc : A,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 19:08:57 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

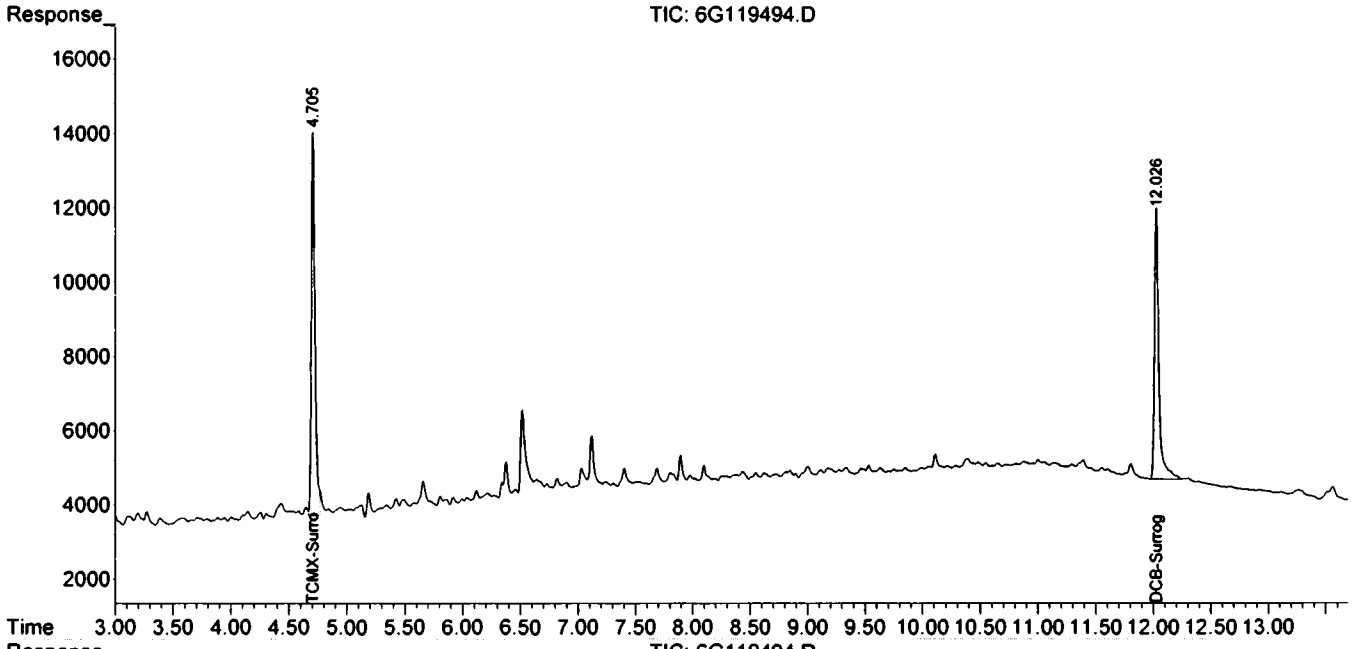
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 4.705 | 4.713 | 223302 | 661574 | 86.610m | 45.468m# |
| 22)DCB-Surrogate | 12.027 | 12.563 | 194583 | 674328 | 85.832 | 74.720m |

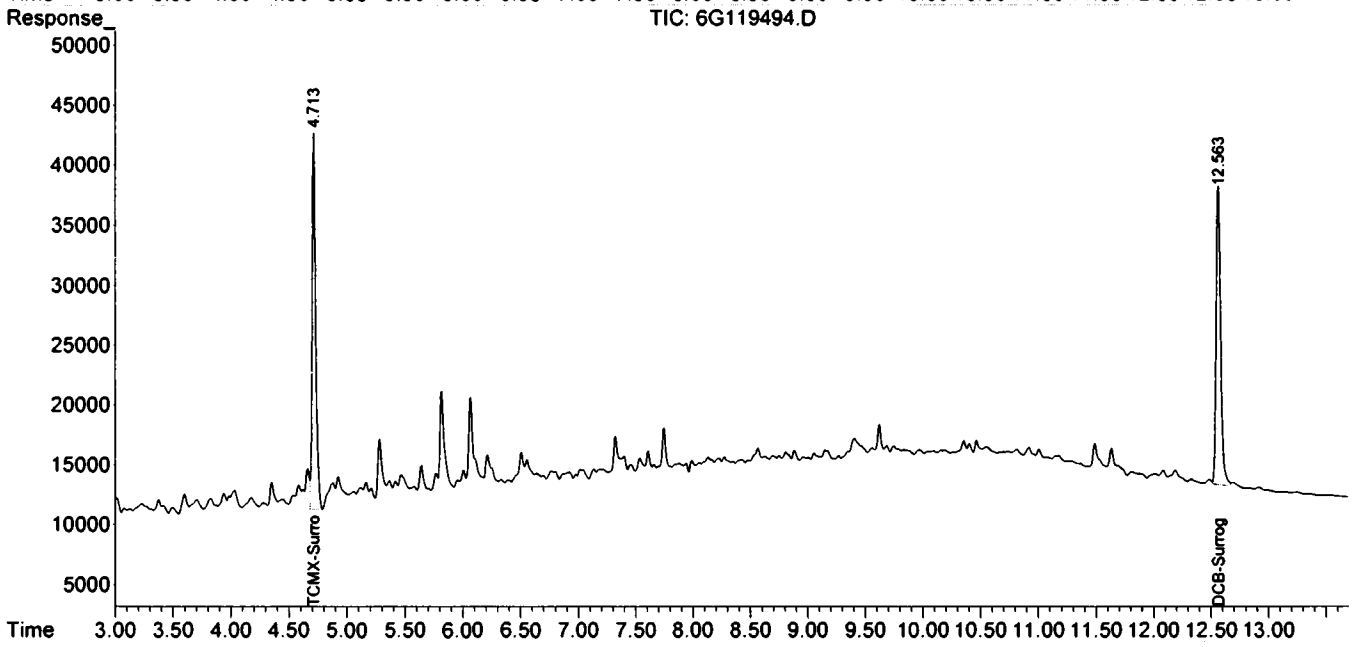
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_6\Data\09-29-21\
Data File : 6G119494.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Sep 2021 16:53
Operator : MS/MLC/MC/PR
Sample : AD26083-040(R)
Misc : A,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 29 19:08:57 2021
Quant Method : G:\GCDATA\2021\GC_6\METHODQT\6G_P0909.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Sep 09 18:10:26 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# Form3
## Recovery Data Laboratory Limits
### QC Batch: WMB94974

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98262.D | AD26083-049(MS:AD26083-04 | 9/21/2021 9:26:55 AM |
| Non Spike(If applicable): | 5G98375.D | AD26083-048 | 9/28/2021 2:17:54 PM |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MS

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 2 | 65.55 | 0 | 100 | 66 | 60 | 130 |
| gamma-BHC | 2 | 67.11 | 0 | 100 | 67 | 60 | 130 |
| beta-BHC | 2 | 68.06 | 0 | 100 | 68 | 60 | 130 |
| Heptachlor | 2 | 65.64 | 0 | 100 | 66 | 60 | 130 |
| delta-BHC | 2 | 73.06 | 0 | 100 | 73 | 60 | 130 |
| Aldrin | 2 | 70.7 | 0 | 100 | 71 | 70 | 130 |
| Heptachlor Epoxide | 2 | 76.22 | 0 | 100 | 76 | 70 | 130 |
| y-chlordane | 2 | 77.73 | 0 | 100 | 78 | 40 | 140 |
| a-chlordane | 2 | 78.41 | 0 | 100 | 78 | 40 | 140 |
| Endosulfan I | 2 | 76.9 | 0 | 100 | 77 | 70 | 130 |
| p,p'-DDE | 2 | 81.51 | 0 | 100 | 82 | 70 | 130 |
| Dieldrin | 2 | 84.59 | 0 | 100 | 85 | 70 | 130 |
| Endrin | 2 | 84.81 | 0 | 100 | 85 | 70 | 130 |
| p,p'-DDD | 2 | 86.35 | 0 | 100 | 86 | 70 | 130 |
| Endosulfan II | 2 | 88.25 | 0 | 100 | 88 | 70 | 130 |
| p,p'-DDT | 2 | 76.89 | 0 | 100 | 77 | 70 | 130 |
| Endrin Aldehyde | 2 | 83.56 | 0 | 100 | 84 | 10 | 130 |
| Endosulfan Sulfate | 2 | 90.28 | 0 | 100 | 90 | 70 | 130 |
| Methoxychlor | 2 | 72.69 | 0 | 100 | 73 | 60 | 130 |
| Endrin Ketone | 2 | 75.9 | 0 | 100 | 76 | 70 | 130 |

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98263.D | AD26083-050(MSD:AD26083-0 | 9/21/2021 9:45:06 AM |
| Non Spike(If applicable): | 5G98375.D | AD26083-048 | 9/28/2021 2:17:54 PM |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Col | Spike Conc | Sample Conc | Expected Conc | Recovery | Lower Limit | Upper Limit |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 2 | 62.05 | 0 | 100 | 62 | 60 | 130 |
| gamma-BHC | 2 | 66.85 | 0 | 100 | 67 | 60 | 130 |
| beta-BHC | 2 | 67.88 | 0 | 100 | 68 | 60 | 130 |
| Heptachlor | 2 | 66.84 | 0 | 100 | 67 | 60 | 130 |
| delta-BHC | 2 | 71.35 | 0 | 100 | 71 | 60 | 130 |
| Aldrin | 2 | 67.09 | 0 | 100 | 67 * | 70 | 130 |
| Heptachlor Epoxide | 2 | 76.19 | 0 | 100 | 76 | 70 | 130 |
| y-chlordane | 2 | 76.27 | 0 | 100 | 76 | 40 | 140 |
| a-chlordane | 2 | 78.38 | 0 | 100 | 78 | 40 | 140 |
| Endosulfan I | 2 | 74.63 | 0 | 100 | 75 | 70 | 130 |
| p,p'-DDE | 2 | 79.84 | 0 | 100 | 80 | 70 | 130 |
| Dieldrin | 2 | 86.36 | 0 | 100 | 86 | 70 | 130 |
| Endrin | 2 | 86.36 | 0 | 100 | 86 | 70 | 130 |
| p,p'-DDD | 2 | 87.7 | 0 | 100 | 88 | 70 | 130 |
| Endosulfan II | 2 | 84.6 | 0 | 100 | 85 | 70 | 130 |
| p,p'-DDT | 2 | 79.98 | 0 | 100 | 80 | 70 | 130 |
| Endrin Aldehyde | 2 | 82.77 | 0 | 100 | 83 | 10 | 130 |
| Endosulfan Sulfate | 2 | 89.22 | 0 | 100 | 89 | 70 | 130 |
| Methoxychlor | 2 | 76.02 | 0 | 100 | 76 | 60 | 130 |
| Endrin Ketone | 2 | 73.64 | 0 | 100 | 74 | 70 | 130 |

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

# Form3
# RPD Data Laboratory Limits
## QC Batch: WMB94974

| | Data File | Sample ID: | Analysis Date |
|---|---|---|---|
| Spike or Dup: | 5G98263.D | AD26083-050(MSD:AD26083-0 | 9/21/2021 9:45:06 AM |
| Duplicate(If applicable): | 5G98262.D | AD26083-049(MS:AD26083-04 | 9/21/2021 9:26:55 AM |
| Inst Blank(If applicable): | | | |

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MSD

| Analyte: | Column | Dup/MSD/MBSD Conc | Sample/MS/MBS Conc | RPD | Limit |
|---|---|---|---|---|---|
| **alpha-BHC** | 2 | 62.05 | 65.55 | 5.5 | 40 |
| **gamma-BHC** | 2 | 66.85 | 67.11 | 0.39 | 40 |
| **beta-BHC** | 2 | 67.88 | 68.06 | 0.26 | 40 |
| **Heptachlor** | 2 | 66.84 | 65.64 | 1.8 | 40 |
| **delta-BHC** | 2 | 71.35 | 73.06 | 2.4 | 40 |
| **Aldrin** | 2 | 67.09 | 70.7 | 5.2 | 40 |
| **Heptachlor Epoxide** | 2 | 76.19 | 76.22 | 0.04 | 40 |
| **y-chlordane** | 2 | 76.27 | 77.73 | 1.9 | 40 |
| **a-chlordane** | 2 | 78.38 | 78.41 | 0.04 | 40 |
| **Endosulfan I** | 2 | 74.63 | 76.9 | 3 | 40 |
| **p,p'-DDE** | 2 | 79.84 | 81.51 | 2.1 | 40 |
| **Dieldrin** | 2 | 86.36 | 84.59 | 2.1 | 40 |
| **Endrin** | 2 | 86.36 | 84.81 | 1.8 | 40 |
| **p,p'-DDD** | 2 | 87.7 | 86.35 | 1.6 | 40 |
| **Endosulfan II** | 2 | 84.6 | 88.25 | 4.2 | 40 |
| **p,p'-DDT** | 2 | 79.98 | 76.89 | 3.9 | 40 |
| **Endrin Aldehyde** | 2 | 82.77 | 83.56 | 0.95 | 40 |
| **Endosulfan Sulfate** | 2 | 89.22 | 90.28 | 1.2 | 40 |
| **Methoxychlor** | 2 | 76.02 | 72.69 | 4.5 | 40 |
| **Endrin Ketone** | 2 | 73.64 | 75.9 | 3 | 40 |

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98262.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 09:26:55
Operator : MS/MLC/MC
Sample : AD26083-049(MS:AD26083-048) (Sig #1); AD26083-049(MS:) (Sig #2)
Misc : A,PEST
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 09:59:06 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

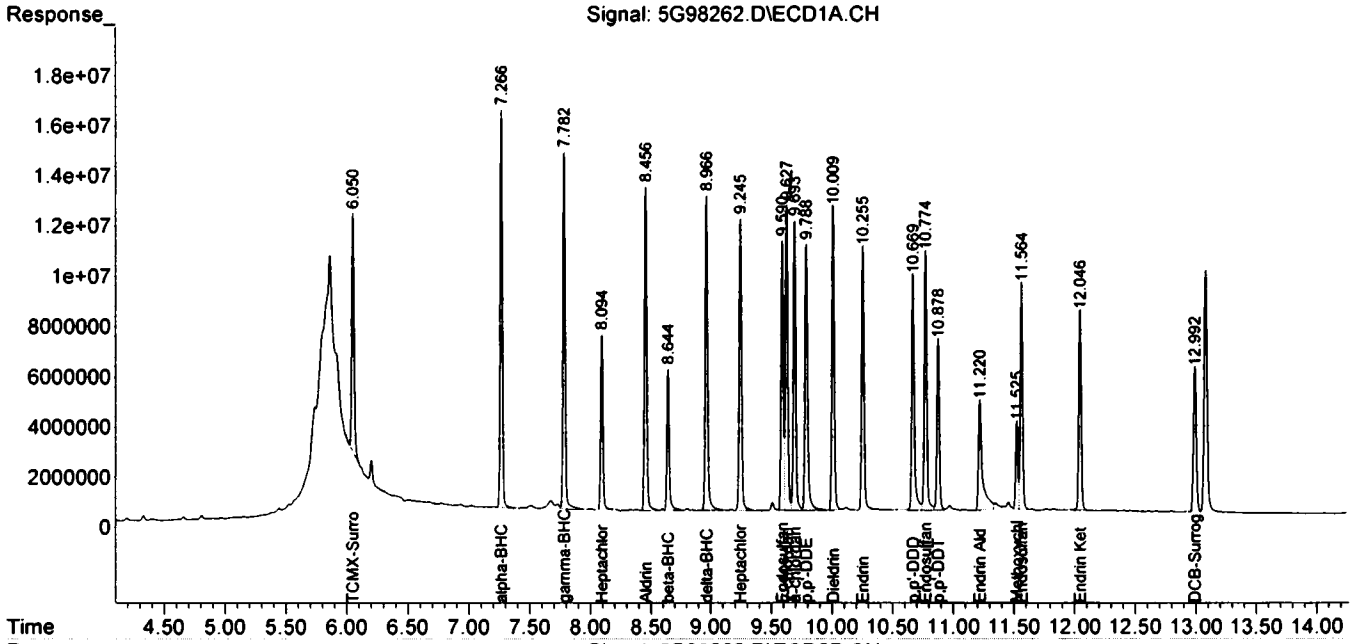
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.050 | 6.027 | 123.6E6 | 54390166 | 64.442m | 61.038 |
| 2)alpha-BHC | 7.267 | 7.029 | 196.5E6 | 87354995 | 64.324 | 65.554 |
| 3)gamma-BHC | 7.783 | 7.567 | 179.8E6 | 75068723 | 72.059 | 67.112 |
| 4)beta-BHC | 8.644 | 7.658 | 76981262 | 34410882 | 69.714 | 68.059 |
| 5)Heptachlor | 8.094 | 7.996 | 91272382 | 54987924 | 64.980 | 65.642 |
| 6)delta-BHC | 8.967 | 8.144 | 166.7E6 | 79743581 | 71.188 | 73.063 |
| 7)Aldrin | 8.457 | 8.429 | 168.6E6 | 74855515 | 73.854 | 70.696 |
| 8)Heptachlor Epoxid | 9.245 | 9.131 | 157.3E6 | 68328352 | 79.925 | 76.223 |
| 9)y-chlordane | 9.627 | 9.331 | 164.6E6 | 73150907 | 77.630 | 77.727 |
| 10)a-chlordane | 9.694 | 9.526 | 158.0E6 | 64029503 | 77.144 | 78.406 |
| 11)Endosulfan I | 9.591 | 9.571 | 137.8E6 | 71074263 | 84.108 | 76.900 |
| 12)p,p'-DDE | 9.789 | 9.813 | 162.0E6 | 70765290 | 81.245 | 81.512 |
| 13)Dieldrin | 10.009 | 9.943 | 161.9E6 | 72741600 | 84.543 | 84.587 |
| 14)Endrin | 10.256 | 10.388 | 144.2E6 | 57599329 | 84.224 | 84.813 |
| 15)p,p'-DDD | 10.670 | 10.476 | 141.1E6 | 55501256 | 93.565 | 86.347 |
| 16)Endosulfan II | 10.774 | 10.598 | 146.7E6 | 68521353 | 86.525 | 88.249 |
| 17)p,p'-DDT | 10.878 | 10.832 | 93132651 | 46547976 | 77.775 | 76.886 |
| 18)Endrin Aldehyde | 11.221 | 10.979 | 98388229 | 49448117 | 83.555 | 83.560 |
| 19)Endosulfan Sulfat | 11.564 | 11.121 | 122.7E6 | 59968754 | 90.365 | 90.276 |
| 20)Methoxychlor | 11.525 | 11.828 | 45114291 | 19003461 | 81.190 | 72.688 |
| 21)Endrin Ketone | 12.047 | 12.040 | 108.2E6 | 55270916 | 81.050 | 75.903 |
| 22)DCB-Surrogate | 12.992 | 13.444 | 93931782 | 46116675 | 84.137 | 87.396 |

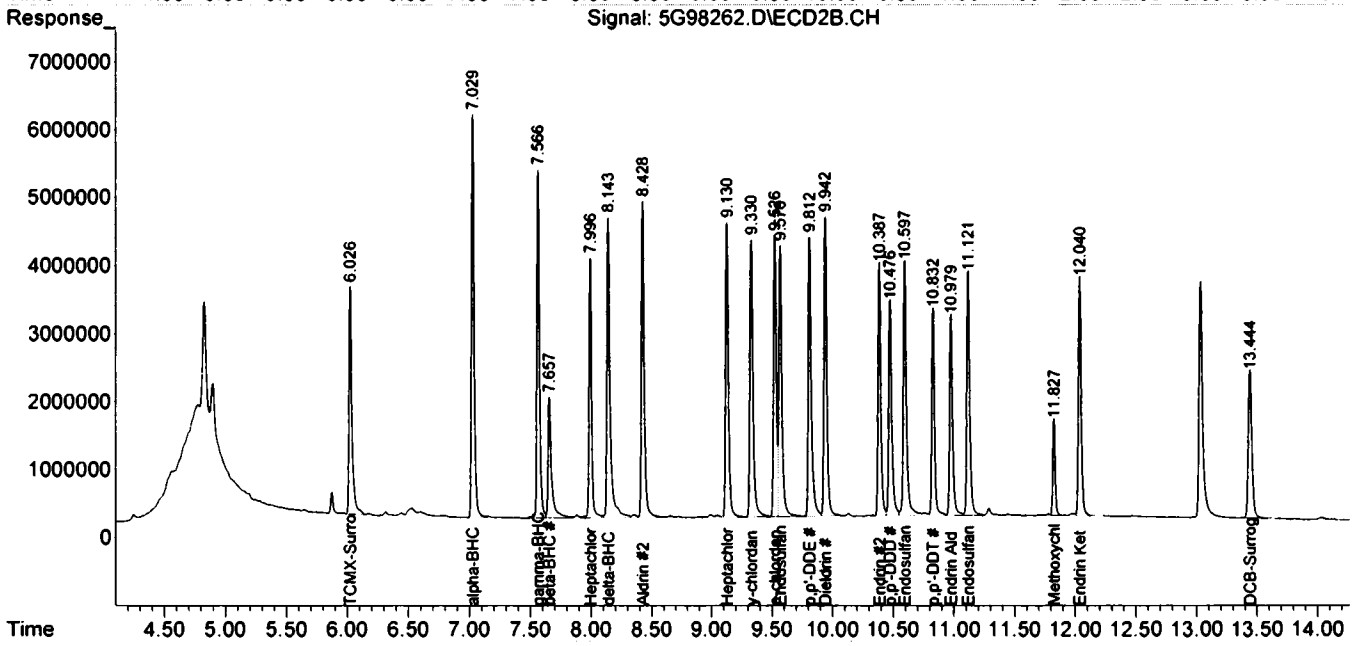
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98262.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 09:26:55
Operator : MS/MLC/MC
Sample : AD26083-049(MS:AD26083-048) (Sig #1); AD26083-049(MS:) (Sig #2)
Misc : A,PEST
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 09:59:06 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98263.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 09:45:06
Operator : MS/MLC/MC
Sample : AD26083-050(MSD:AD26083-048) (Sig #1); AD26083-049(MSD:) (Sig #2)
Misc : A,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 10:07:09 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

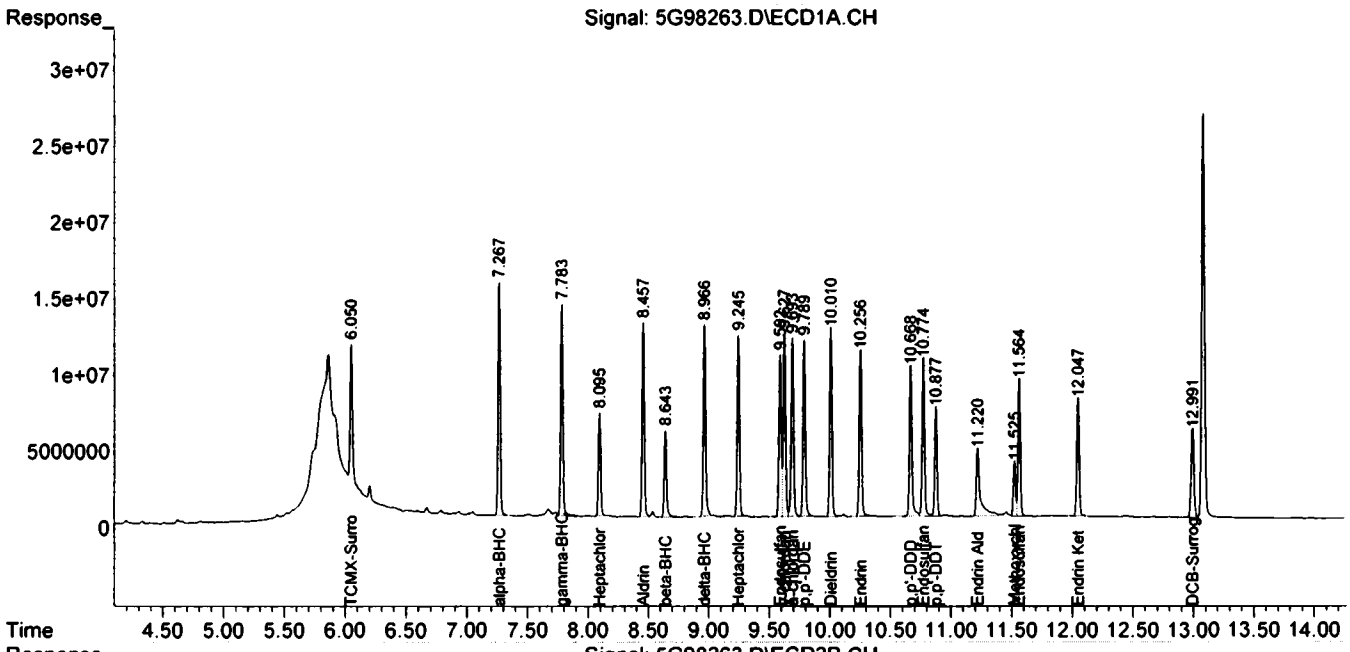
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.050 | 6.028 | 117.4E6 | 52569969 | 61.183m | 58.996 |
| 2)alpha-BHC | 7.267 | 7.030 | 184.9E6 | 82688280 | 60.520 | 62.052 |
| 3)gamma-BHC | 7.784 | 7.567 | 173.7E6 | 74773098 | 69.635 | 66.848 |
| 4)beta-BHC | 8.644 | 7.659 | 76137228 | 34320081 | 68.950 | 67.879 |
| 5)Heptachlor | 8.095 | 7.996 | 86810246 | 55994714 | 61.803 | 66.844 |
| 6)delta-BHC | 8.967 | 8.144 | 159.4E6 | 77877091 | 68.078 | 71.353 |
| 7)Aldrin | 8.457 | 8.430 | 162.1E6 | 71041228 | 71.014 | 67.093 |
| 8)Heptachlor Epoxid | 9.246 | 9.131 | 152.6E6 | 68299488 | 77.573 | 76.191 |
| 9)y-chlordane | 9.627 | 9.331 | 161.6E6 | 71782882 | 76.206 | 76.274 |
| 10)a-chlordane | 9.693 | 9.527 | 156.6E6 | 64010900 | 76.460 | 78.384 |
| 11)Endosulfan I | 9.592 | 9.571 | 140.2E6 | 68981118 | 85.618 | 74.635 |
| 12)p,p'-DDE | 9.789 | 9.811 | 155.0E6 | 69315010 | 77.736 | 79.842 |
| 13)Dieldrin | 10.010 | 9.942 | 161.7E6 | 74265227 | 84.478 | 86.359 |
| 14)Endrin | 10.256 | 10.388 | 148.7E6 | 58648636 | 86.835 | 86.358 |
| 15)p,p'-DDD | 10.669 | 10.476 | 141.3E6 | 56368112 | 93.646 | 87.696 |
| 16)Endosulfan II | 10.774 | 10.597 | 142.9E6 | 65690057 | 84.291 | 84.603 |
| 17)p,p'-DDT | 10.878 | 10.832 | 93325171 | 48420997 | 77.936 | 79.979 |
| 18)Endrin Aldehyde | 11.221 | 10.979 | 103.5E6 | 48981224 | 87.892 | 82.771 |
| 19)Endosulfan Sulfat | 11.564 | 11.121 | 118.6E6 | 59266144 | 87.322 | 89.218 |
| 20)Methoxychlor | 11.525 | 11.827 | 46386392 | 19874110 | 83.480 | 76.018 |
| 21)Endrin Ketone | 12.048 | 12.040 | 106.2E6 | 53623175 | 79.607 | 73.640 |
| 22)DCB-Surrogate | 12.992 | 13.445 | 94572876 | 44220687 | 84.711 | 83.803 |

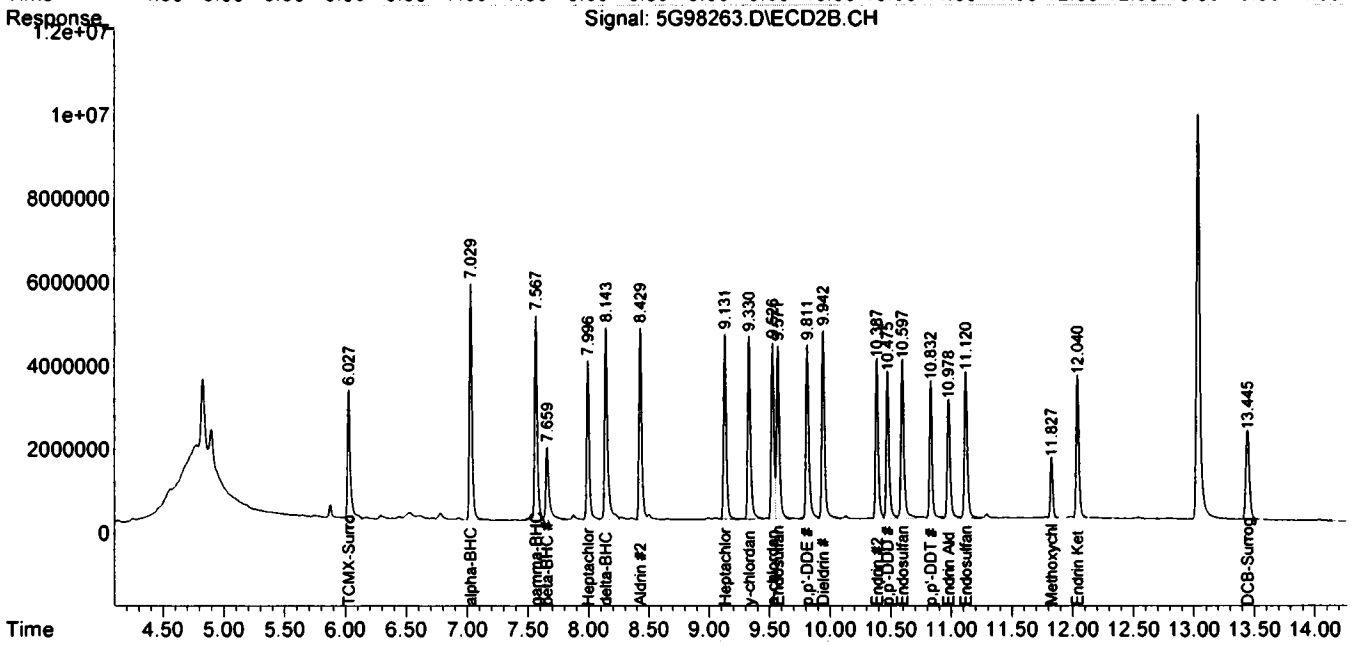
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-21-21\
Data File : 5G98263.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21-Sep-21, 09:45:06
Operator : MS/MLC/MC
Sample : AD26083-050(MSD:AD26083-048) (Sig #1); AD26083-049(MSD:) (Sig #2)
Misc : A,PEST
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 21 10:07:09 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98375.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Sep-21, 14:17:54
Operator : MS/MLC/MC/PR
Sample : AD26083-048
Misc : A,PEST
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 12:40:52 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

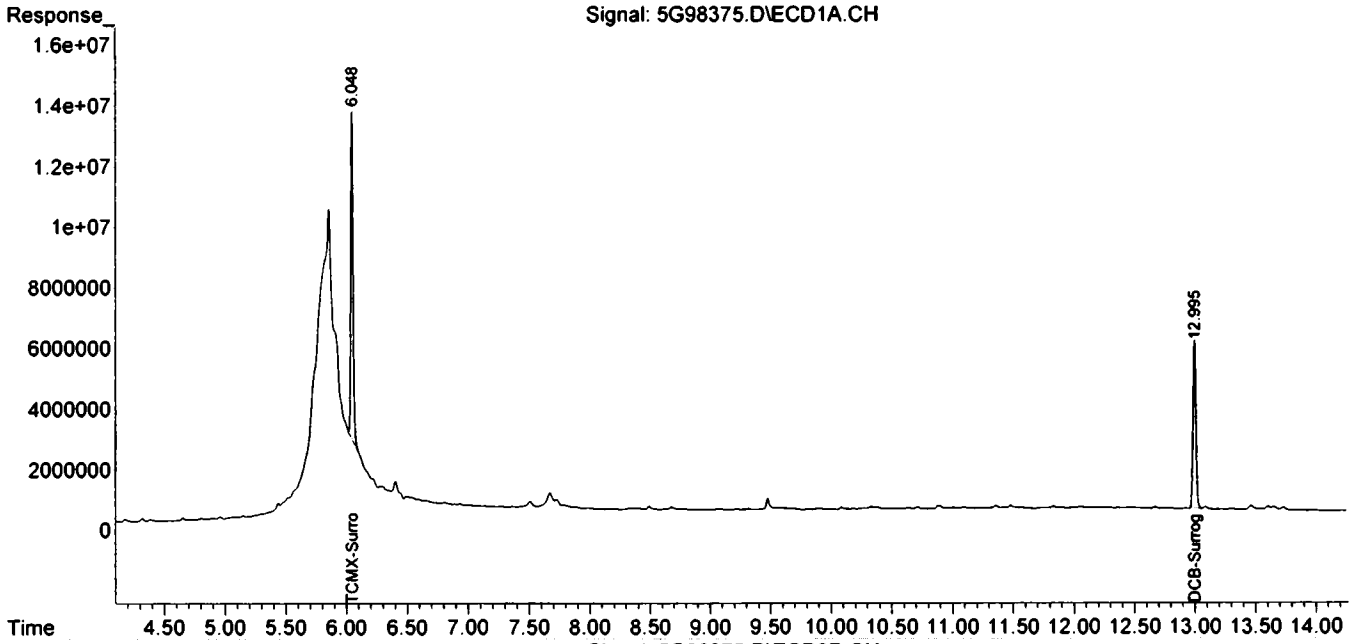
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | pg#1 | pg#2 |
|---|---|---|---|---|---|---|
| Target Compounds | | | | | | |
| 1)TCMX-Surrogate | 6.048 | 6.025 | 139.6E6 | 60413985 | 72.735m | 67.799 |
| 22)DCB-Surrogate | 12.996 | 13.448 | 92945875 | 44583334 | 83.254 | 84.490 |

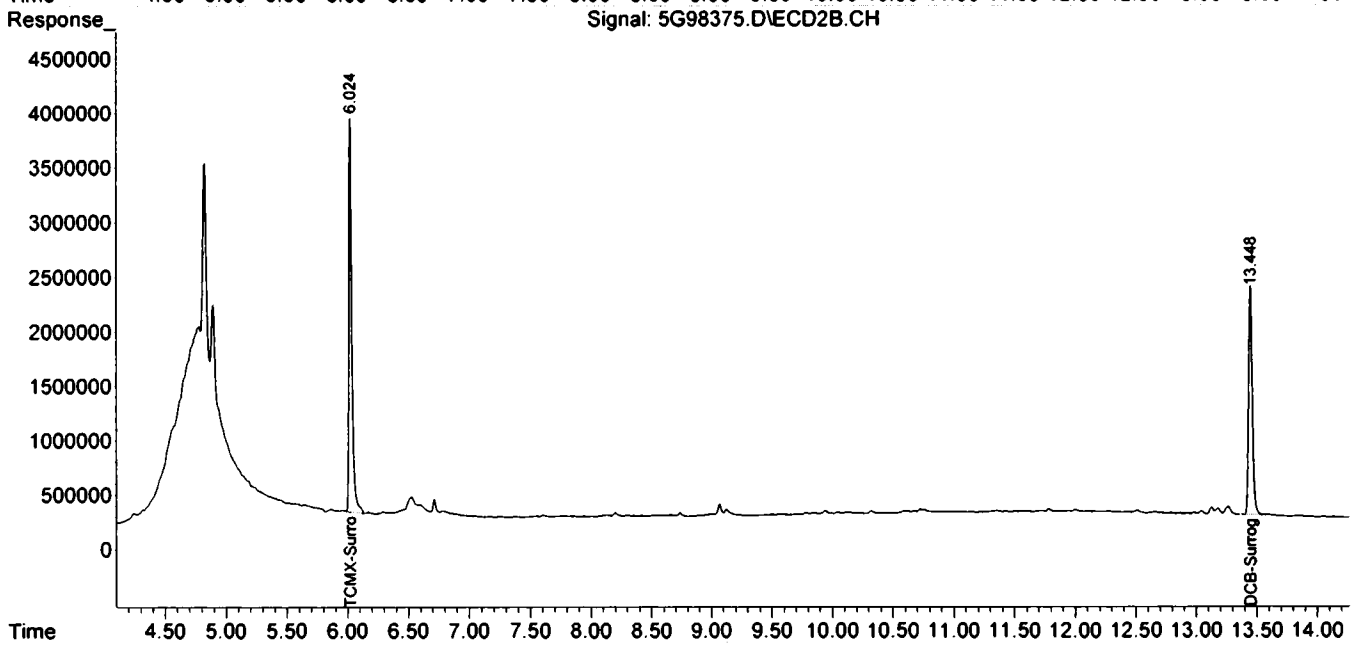
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2021\GC_5\Data\09-28-21\
Data File : 5G98375.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Sep-21, 14:17:54
Operator : MS/MLC/MC/PR
Sample : AD26083-048
Misc : A,PEST
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Sep 29 12:40:52 2021
Quant Method : G:\GCDATA\2021\GC_5\METHODQT\5G_PEST0909.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Fri Sep 10 10:22:54 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



# GC Pesticide Data
# Logbook Data

QC94974 Pest

QC94975 PCB

Hampton-Clarke

Method Blank No. WMB- _____
Blank Spike (WMBS): _____
Blank Spike (WMBS): _____
Start Ext Time: 4:14 pm
End Ext. Time: 4:58 pm
Recirculator: Start temp: 14.0,14.8
End temp: 14.6,14.6

Date: 9/20/21
Matrix Spike: 94974 Pest
Matrix Spike: 94975 PCB
Shaker Used: 2,3,4
Condenser Used: 1,2
Condenser Flow: 2500 CCM

**Extraction: (Pest) (3510C) (PCB) (3510C) / Other(list):**

| Sample Number | Pest | PCB | Other | Initial Vol | Final Vol | Extracted By/ Comments | TCLP QC | Extraction Fluid |
|---|---|---|---|---|---|---|---|---|
| MB 94974 / 975 | X | X | | 1000mL | 5mL | JM | | |
| MBS 94974 / 975 | X | X | | ↓ | | | | |
| MS 26083 - 049 | X | X | | 1000mL / 990mL | | | | |
| MSD 26083 - 050 | X | X | | 990mL / 970mL | | | | |
| AD 26083 - 019 | 1 | 1 | | 945mL | | | | |
| - 030 | 2 | 2 | | 985mL | | | | |
| - 032 | 3 | 3 | | 1000mL | | | | |
| - 033 | 4 | 4 | | ↓ | | | | |
| - 035 | 5 | 5 | | 990mL | | | | |
| - 036 | 6 | 6 | | 1000mL | | | | |
| - 038 | 7 | 7 | | 980mL | | | | |
| - 046 | 8 | 8 | | 970mL | | | | |
| ↓ - 048 | 9 | 9 | | 980mL | | | | |
| AD 25966 - 001 | 10 | 10 | | 1000mL | | | | |
| ↓ - 002 | 11 | 11 | | 995mL | | | | |
| AD 25969 - 003 | 12 | 12 | | 1000mL | | | | |
| - 005 | 13 | 13 | | ↓ | | | | |
| ↓ - 006 | 14 | 14 | | | | | | |
| AD 25960 - 001 | | 15 | | | | | | |
| AD 25982 - 001 | | 16 | | | | | | |
| AD 25983 - 001 | | 17 | | | | | | |
| AD 25976 - 011 | | 18 | | | | | | |
| AD 26083 - 002 | R | R | | | | | | |
| ↓ - 040 | R | R | | ↓ | ↓ | ↓ | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | Rack #11 | | |
| | | | | | | | | |
| | | | | | | | | |

Cleanup: Acid X TBA ___ Copper ___ Florisil ___ Other ___

**Spike Standard**

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 10 | 351050 | (Pest) / PCB / Other |
| ↓ | 100 | 355303 | Pest / (PCB) / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |

**Surrogate Standard**

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 10 | 357124 | (Pest / PCB) / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |

Reagent Lots: MeCl2 14160 Acetone _____ Hexane 14137 Na2SO4 14142 Ether ___
MTBE _____ Copper Powder _____ Other _____

Relinquished By: JM
Received By: Mate.

Date: 9/20/21
Date: 9/21/21

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QC94962 Pest

QC94963 Pcb

Hampton-Clarke

Method Blank No. WMB-_____
Blank Spike (WMBS): _____
Blank Spike (WMBS): _____
Start Ext Time: 7:00 AM
End Ext. Time: 12:55 PM
Recirculator: Start temp: 14:0/14:8
End temp: 14:0/14:3

Date: 09/19/21
Matrix Spike: 94962-Pest
Matrix Spike: 94963-Pcb
Shaker Used: 2,3,4
Condenser Used: 1,2,5
Condenser Flow: 2500 CCM

**Extraction: Pest (3510C)/ PCB (3510C) / Other(list):**

| Sample Number | Pest | PCB | Other | Initial Vol | Final Vol | Extracted By/ Comments | TCLP QC | Extraction Fluid |
|---|---|---|---|---|---|---|---|---|
| MB 94962/63 | X | X | | 1000ml | 5ml | LV | | |
| MBS 94962/63 | X | X | | | | | | |
| MS 26083-042 | X | X | | | | | | |
| MSD 26083-044 | X | X | | | | | | |
| BD 26083-040 | 1 | 1 | | | | | | |
| -001 | 2 | 2 | | | | | | |
| -002 | 3 | 3 | | | | | | |
| -003 | 4 | 4 | | | | | | |
| -005 | 5 | 5 | | | | | | |
| -006 | 6 | 6 | | | | | | |
| -008 | 7 | 7 | | | | | | |
| -009 | 8 | 8 | | | | | | |
| -011 | 9 | 9 | | | | | | |
| -012 | 10 | 10 | | | | | | |
| -014 | 11 | 11 | | | | | | |
| -016 | 12 | 12 | | | | | | |
| -018 | 13 | 13 | | | | | | |
| -021 | 14 | 14 | | | | | | |
| -023 | 15 | 15 | | | | | | |
| -026 | 16 | 16 | | | | | | |
| -027 | 17 | 17 | | | | | | |
| -028 | 18 | 18 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | Rack # 24 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Cleanup: Acid ___ TBA ___ Copper ___ Florisil ___ Other ___

Spike Standard

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 10 | 351050 | (Pest) / PCB / Other |
| 1 | 100 | 355707 | Pest / (PCB) / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |

Surrogate Standard

| Vol (ul's) | Conc. (ppm/ppb) | Lot No. | |
|---|---|---|---|
| 50 | 10 | 357124 | (Pest / PCB) Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |
| | | | Pest / PCB / Other |

Reagent Lots: MeCl2 14160 Acetone _____ Hexane 19137 Na2SO4 14142 Ether ____
MTBE _____ Copper Powder _____ Other _____

Relinquished By: LV Date: 09/19/21
Received By: Matt. Date: 9/20/21

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# RUN LOG

1-1-6G119036

Instrument: GC_6 Year: 2021
Analyst: MS/MLC/A

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 6G119036. | CAL EVAL | IsEe1=7.6;Ee 2=3.3;Ed1=3. 9;Ed2=6.9; | OK,V-353578 | MS 09/15/21 | | Soil | 1 | 1 | 8081 | 09/09 09:54 |
| 6G119037. | CAL PEST@50PPB | | OK,V-347858 | MS 09/15/21 | | Soil | 1 | 1 | 608\808 | 09/09 10:37 |
| 6G119038. | CAL PEST@2PPB | | OK,V-347860 | MS 09/15/21 | | Soil | 1 | 1 | 608\808 | 09/09 10:54 |
| 6G119039. | CAL PEST@10PPB | | OK,V-347859 | MS 09/15/21 | | Soil | 1 | 1 | 608\808 | 09/09 11:12 |
| 6G119040. | CAL PEST@100PP | | OK,V-347857 | MS 09/15/21 | | Soil | 1 | 1 | 608\808 | 09/09 11:29 |
| 6G119041. | CAL PEST@200PP | | OK,V-347856 | MS 09/15/21 | | Soil | 1 | 1 | 608\808 | 09/09 11:47 |
| 6G119042. | CAL PEST@400PP | | OK,V-347855 | MS 09/15/21 | | Soil | 1 | 1 | 608\808 | 09/09 12:05 |
| 6G119043. | CAL CHLOR@100P | | OK,V-347862 | MS 09/15/21 | | Soil | 1 | 1 | 608\808 | 09/09 12:22 |
| 6G119044. | TOX@50PPB | CmeS8Do | OK,V-347851,OK,V-357455 | MS 09/15/21,MLC 09/16/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 13:50 |
| 6G119045. | TOX@200PPB | CmeS8Do | OK,V-347850,OK,V-357454 | MS 09/15/21,MLC 09/16/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 14:11 |
| 6G119046. | TOX@500PPB | CmeS8Do | OK,V-347849,OK,V-357453 | MS 09/15/21,MLC 09/16/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 14:28 |
| 6G119047. | TOX@1000PPB | CmeS8Do | OK,V-347848,OK,V-357452 | MS 09/15/21,MLC 09/16/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 14:46 |
| 6G119048. | TOX@2000PPB | CmeS8Do | OK,V-347847,OK,V-357451 | MS 09/15/21,MLC 09/16/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 15:04 |
| 6G119049. | TOX@4000PPB | CmeS8Do | OK,V-347846,OK,V-357450 | MS 09/15/21,MLC 09/16/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 15:21 |
| 6G119052. | TOX V | IsCme | OK,V-347853,OK,V-357457 | MS 09/15/21,MLC 09/16/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 16:58 |
| 6G119053. | ICV | IsCme | OK,V-347863 | MS 09/15/21,MLC 09/16/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 17:16 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Ec | Extraction Performed Past Hold | Cn | Warning Possible Carry Over |
| An | Area Out | Esm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| B6m | Blank 600 series missing | Etn | Tcln/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for anh |
| B8m | Blank 8000 series missing | Etc | Tcln Extraction Performed Outside of Hold | EvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Ev | Eval Time Exceeded | Evnc | Eval Mix Not Checked |
| C1R | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Evm | Eval Mix missing ddt or endrin |
| C1R | Calibration Column 1 Out (8000 Series) | Hn | Sample Analyzed outside of hold time | R16 R26 | Rnd Out on MsMsd (cpl1 and or cpl2) 600 series |
| C2R | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rnd Out on MsMsd (cpl1 and or cpl2) 8000 series |
| C2R | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Rn | Retention Time Out Or %Diff Out |
| C6f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rtn | Can't Calculate Diff |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Prob with calmt csv for init calibration chek rls | S6 | 600 series surrogate out |
| Cme | Ending Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | S8 | 8000 series surrogate out |
| Co | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a sampl | Se6.Sb6 | Acid and or BN Surrogate Out (600 series) |

1091738 1758

# RUN LOG

Instrument: GC_5 Year: 2021
Analyst: MS/MLC

1-1-5G98073

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 5G98073.D | CAL EVAL | IsEe1=2.7;Ee2=4.3;Ed1=8.3;Ed2=3.5; | OK,V-353578 | MS/MLC 09/14/21 | | Soil | 1 | 1 | 8081 | 09/09 13:49 |
| 5G98074.D | CAL PEST@50PPB | | OK,V-347858 | MS/MLC 09/14/21 | | Soil | 1 | 1 | 608\808 | 09/09 14:16 |
| 5G98075.D | CAL PEST@2PPB | | OK,V-347860 | MS/MLC 09/14/21 | | Soil | 1 | 1 | 608\808 | 09/09 14:35 |
| 5G98076.D | CAL PEST@10PPB | | OK,V-347859 | MS/MLC 09/14/21 | | Soil | 1 | 1 | 608\808 | 09/09 14:53 |
| 5G98077.D | CAL PEST@100PP | | OK,V-347857 | MS/MLC 09/14/21 | | Soil | 1 | 1 | 608\808 | 09/09 15:11 |
| 5G98078.D | CAL PEST@200PP | | OK,V-347856 | MS/MLC 09/14/21 | | Soil | 1 | 1 | 608\808 | 09/09 15:29 |
| 5G98079.D | CAL PEST@400PP | | OK,V-347855 | MS/MLC 09/14/21 | | Soil | 1 | 1 | 608\808 | 09/09 15:47 |
| 5G98080.D | CAL CHLOR@100P | | OK,V-347862 | MS/MLC 09/14/21 | | Soil | 1 | 1 | 608\808 | 09/09 16:06 |
| 5G98081.D | TOX@50PPB | CmeS8Do | OK,V-347851,OK,V-357455 | MS/MLC 09/14/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 16:24 |
| 5G98082.D | TOX@200PPB | CmeS8Do | OK,V-347850,OK,V-357454 | MS/MLC 09/14/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 16:42 |
| 5G98083.D | TOX@500PPB | CmeS8Do | OK,V-347849,OK,V-357453 | MS/MLC 09/14/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 17:00 |
| 5G98084.D | TOX@1000PPB | CmeS8Do | OK,V-347848,OK,V-357452 | MS/MLC 09/14/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 17:19 |
| 5G98085.D | TOX@2000PPB | CmeS8Do | OK,V-347847,OK,V-357451 | MS/MLC 09/14/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 17:37 |
| 5G98086.D | TOX@4000PPB | CmeS8Do | OK,V-347846,OK,V-357450 | MS/MLC 09/14/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 17:55 |
| 5G98087.D | TOX V | IsCmeS8Do | OK,V-347853,OK,V-357457 | MS/MLC 09/14/21,MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 18:13 |
| 5G98088.D | ICV | IsCme | OK,V-347863 | MS/MLC 09/14/21 | | Soil | 1 | 1 | 8081 | 09/09 18:32 |
| 5G98089.D | test | IsCme | NOT USED | MLC 09/16/21 | | Soil | 1 | 1 | 8081 | 09/09 18:50 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Eo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Esm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| B6m | Blank 600 series missing | Etn | Tclp/Solvent Extraction Date Missing/Not check'd | Cro | C30/C20 failed for enh |
| B8m | Blank 8000 series missing | Eto | Tclp Extraction Performed Outside of Hold | EvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Ev | Eval Time Exceeded | Evnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Evm | Eval Mix missing ddt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rnd Out on MsMsd (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rnd Out on MsMsd (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C8f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rtn | Can't Calculate Drift |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Prob with calmd.csv for init calibration chek rls | S6 | 600 series surrogate out |
| Cme | Ending Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GC_5 Year: 2021
Analyst: MS/MLC/M

1-1-5G98220

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 5G98220.D | CAL EVAL | Ee1=3;Ee2=6; Ed1=5.3;Ed2= 7.8; | OK,V-353578 | MS 09/28/21 | | Aqueous | 1 | 1 | 608\808 | 09/19 22:24 |
| 5G98221.D | EVAL | | NOT USED | MS 09/28/21 | | Aqueous | 1 | 1 | 608\808 | 09/19 22:42 |
| 5G98222.D | CAL PEST@100PP | | OK,V-347857 | MS 09/28/21 | | Aqueous | 0.5 | 1 | 608\808 | 09/19 23:00 |
| 5G98223.D | CAL PEST@200PP | | OK,V-347856 | MS 09/28/21 | | Aqueous | 0.25 | 1 | 608\808 | 09/19 23:18 |
| 5G98224.D | WMB94962 | | OK | MS 09/23/21,MLC 09/29/21,MLC 09/29/21 | | Aqueous | 1 | 1 | 608\808 | 09/19 23:37 |
| 5G98225.D | WMB94962(MS) | | OK WMB94962 | MLC 09/29/21 | | Aqueous | 1 | 1 | 608\808 | 09/19 23:55 |
| 5G98226.D | AD26083-042(MS:AM18M28 | | OK WMB94962 | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 608\808 | 09/20 00:13 |
| 5G98227.D | AD26083-044(MSD:M18M28 | | OK WMB94962 | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 608\808 | 09/20 00:31 |
| 5G98228.D | AD26083-040 | | REX | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 608\808 | 09/20 00:50 |
| 5G98229.D | AD26083-001 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 01:08 |
| 5G98230.D | AD26083-002 | | REX | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 01:26 |
| 5G98231.D | AD26083-003 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 01:44 |
| 5G98232.D | AD26083-005 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 02:02 |
| 5G98233.D | AD26083-006 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 02:20 |
| 5G98234.D | AD26083-008 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 02:39 |
| 5G98235.D | AD26083-009 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 02:57 |
| 5G98236.D | AD26083-011 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 03:15 |
| 5G98237.D | AD26083-012 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 03:33 |
| 5G98238.D | AD26083-014 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 03:51 |
| 5G98239.D | AD26083-016 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 04:10 |
| 5G98240.D | AD26083-018 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 04:28 |
| 5G98241.D | AD26083-021 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 04:46 |
| 5G98242.D | AD26083-023 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 05:04 |
| 5G98243.D | AD26083-026 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 05:22 |
| 5G98244.D | CAL EVAL | Ee1=5.8;Ee2= 9.7;Ed1=6.4;E d2=5.8; | OK | MS 09/23/21 | | Aqueous | 1 | 1 | 608\808 | 09/20 08:56 |
| 5G98245.D | CAL PEST@100PP | C16 | OK | MS 09/23/21 | | Aqueous | 0.5 | 1 | 608\808 | 09/20 09:16 |
| 5G98246.D | SMB94930(MS) | | OK SMB94930 | MS 09/23/21 | | Soil | 1 | 1 | 8081 | 09/20 09:55 |
| 5G98247.D | SMB94944(MS) | | OK SMB94944 | MS 09/23/21 | | Soil | 1 | 1 | 8081 | 09/20 10:13 |
| 5G98248.D | SMB94946(MS) | | OK SMB94946 | MS 09/23/21 | | Soil | 1 | 1 | 8081 | 09/20 10:32 |
| 5G98249.D | AD25919-004(T)(M | | OK WMB94941 | MS 09/23/21 | PETCLP-808 | Aqueous | 1 | 1 | 608\808 | 09/20 10:50 |
| 5G98250.D | AD25919-004(T)(M | | OK WMB94941 | MS 09/23/21 | PETCLP-808 | Aqueous | 1 | 1 | 608\808 | 09/20 11:08 |
| 5G98251.D | AD25950-001 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 11:26 |
| 5G98252.D | AD25950-005 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 11:44 |
| 5G98253.D | AD26083-027 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 12:03 |
| 5G98254.D | AD26083-028 | | OK | MS 09/23/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/20 12:21 |
| 5G98255.D | EF-1-V-356769(9/14 | | OK | MS 09/23/21 | | Aqueous | 1 | 9 | 8081 | 09/20 12:39 |
| 5G98256.D | 100PPB | Tmw | NOT USED | MS 09/23/21 | | Aqueous | 0.5 | 1 | 608\808 | 09/20 13:04 |
| 5G98257.D | CAL PEST@100PP | | OK | MS 09/23/21 | | Aqueous | 0.5 | 1 | 608\808 | 09/20 15:52 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | En | Extraction Performed Past Hold | Cn | Warning Possible Carry Over |
| An | Area Out | Esm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| B6m | Blank 600 series missing | Etn | Tnln/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for enh |
| B8m | Blank 8000 series missing | Ftn | Tnln Extraction Performed Outside of Hold | EvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Ev | Eval Time Exceeded | Evnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Evm | Eval Mix missing drlt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Hn | Sample Analyzed outside of hold time | R16 R26 | Rnd Out on MsMsd (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rnd Out on MsMsd (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Rn | Retention Time Out Or %Diff Out |
| C8f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rtn | Can't Calculate Drift |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Prob with calmd.csv for init calibration chek rls | S6 | 600 series surrogate out |
| Cme | Endrin Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GC_5 Year: 2021
Analyst: MS/MLC/M

1-1-5G98258

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 5G98258.D | CAL EVAL | Ee1=5.1;Ee2=9.5;Ed1=3.2;Ed2=5.5; | OK,V-353578 | MLC 09/29/21 | | Aqueous | 1 | 1 | 608\808 | 09/21 07:55 |
| 5G98259.D | CAL PEST@100PPC26 | | OK,V-347587 | MLC 09/29/21 | | Aqueous | 0.5 | 1 | 608\808 | 09/21 08:17 |
| 5G98260.D | WMB94974 | | OK | MS 09/21/21 | | Aqueous | 1 | 1 | 608\808 | 09/21 08:50 |
| 5G98261.D | WMB94974(MS) | | OK WMB94974 | MS 09/21/21 | | Aqueous | 1 | 1 | 608\808 | 09/21 09:08 |
| 5G98262.D | AD26083-049(MS:A | | OK WMB94974 | MS 09/21/21 | PE-8081 | Aqueous | 1 | 1 | 608\808 | 09/21 09:26 |
| 5G98263.D | AD26083-050(MSD:M28 | | OK WMB94974 | MS 09/21/21 | PE-8081 | Aqueous | 1 | 1 | 608\808 | 09/21 09:45 |
| 5G98264.D | AD25966-001 | | OK | MS 09/21/21 | PE-608.3 | Aqueous | 1 | 1 | 608 | 09/21 10:03 |
| 5G98265.D | AD25966-002 | | OK | MS 09/21/21 | PE-608.3 | Aqueous | 1 | 1 | 608 | 09/21 10:21 |
| 5G98266.D | SMB94978 | | OK | MS 09/21/21 | | Soil | 1 | 1 | 8081 | 09/21 10:39 |
| 5G98267.D | OMB94981 | | OK | MS 09/21/21,MLC 09/29/21 | | OIL/OTH | 1 | 1 | 8081 | 09/21 10:57 |
| 5G98268.D | OMB94981(MS) | | OK OMB94981 | MLC 09/29/21 | | OIL/OTH | 1 | 1 | 8081 | 09/21 12:52 |
| 5G98269.D | SMB94978(MS) | | OK SMB94978 | MLC 09/29/21 | | Soil | 1 | 1 | 8081 | 09/21 13:11 |
| 5G98270.D | CAL PEST@100PP | | OK | MLC 09/29/21 | | Soil | 0.5 | 1 | 608\808 | 09/21 13:30 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Eo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Esm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| B6m | Blank 600 series missing | Etn | Tcln/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for enh |
| B8m | Blank 8000 series missing | Eto | Tcln Extraction Performed Outside of Hold | EvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Ev | Eval Time Exceeded | Evnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hb | Analysis Before Collection Date | Evrc | Eval Mix missing ddt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rnd Out on MsMsd (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rnd Out on MsMsd (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C8f | 600 series sample/blank dld not have passing cal | Is | Initial Cal Not Checked | Rto | Can't Calculate Drift |
| C8f | 8000 series sample/blank dld not have passing cal | Iv | Prob with calmt csv for init calibration chek rfs | S6 | 600 series surrogate out |
| Cme | Ending Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

1-1-5G98336

Instrument: GC_5 Year: 2021
Analyst: MS/MLC/M

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 5G98336.D | CAL EVAL | Ee1=2.3;Ee2=4.6;Ed1=7.5;Ed2=6.4; | OK,V-353578 | MLC 09/28/21 | | Soil | 1 | 1 | 8081 | 09/27 22:06 |
| 5G98337.D | EVAL | | NOT USED | MLC 09/28/21 | | Soil | 1 | 1 | 8081 | 09/27 22:24 |
| 5G98338.D | CAL PEST@100PP | | OK,V-347857 | MLC 09/28/21 | | Soil | 0.5 | 1 | 608\808 | 09/27 22:42 |
| 5G98339.D | 200PPB | | NOT USED | MLC 09/28/21 | | Soil | 0.25 | 1 | 8081 | 09/27 23:00 |
| 5G98340.D | AD26112-006(T) | | OK WMB95035 | MLC 09/28/21 | PETCLP-808 | Aqueous | 1 | 1 | 608\808 | 09/27 23:19 |
| 5G98341.D | AD26130-002(T) | | OK | MLC 09/28/21 | PETCLP-808 | Aqueous | 1 | 1 | 8081 | 09/27 23:37 |
| 5G98342.D | AD26130-004(T) | | OK | MLC 09/28/21 | PETCLP-808 | Aqueous | 1 | 1 | 8081 | 09/27 23:55 |
| 5G98343.D | AD26211-001(T) | | OK | MLC 09/28/21 | PETCLP-808 | Aqueous | 1 | 1 | 8081 | 09/28 00:13 |
| 5G98344.D | AD26211-003(T) | | OK | MLC 09/28/21 | PETCLP-808 | Aqueous | 1 | 1 | 8081 | 09/28 00:31 |
| 5G98345.D | AD26146-001 | | OK | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 00:50 |
| 5G98346.D | AD26148-001 | | OK | MLC 09/28/21 | PETCLP-808 | Aqueous | 1 | 1 | 8081 | 09/28 01:08 |
| 5G98347.D | AD26218-001 | | OK | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 01:26 |
| 5G98348.D | AD26218-002 | | OK | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 01:44 |
| 5G98349.D | AD26218-003 | | OK | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 02:02 |
| 5G98350.D | AD26218-004 | | OK | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 02:21 |
| 5G98351.D | AD26218-005 | | OK | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 02:39 |
| 5G98352.D | AD26218-006 | | OK | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 02:57 |
| 5G98353.D | AD26218-007 | | OK | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 03:15 |
| 5G98354.D | AD26218-008 | | RR SULFUR | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 03:33 |
| 5G98355.D | AD26218-009 | | OK | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 03:51 |
| 5G98356.D | AD26218-011 | | OK | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 04:10 |
| 5G98357.D | AD26166-018 | | OK | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 04:28 |
| 5G98358.D | SMB95040 | | OK | MLC 09/28/21 | | Soil | 1 | 1 | 8081 | 09/28 04:46 |
| 5G98359.D | AD26204-003 | Tm | OK | MLC 09/28/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/28 05:04 |
| 5G98360.D | CAL EVAL | Ee1=5.3;Ee2=15;Ed1=14;Ed2=11; | OK | MLC 09/28/21 | | Soil | 1 | 1 | 8081 | 09/28 09:02 |
| 5G98361.D | EVAL | | NOT USED | MLC 09/28/21 | | Soil | 1 | 1 | 8081 | 09/28 09:40 |
| 5G98362.D | CAL PEST@100PP | | OK | MLC 09/28/21 | | Soil | 0.5 | 1 | 608\808 | 09/28 09:58 |
| 5G98363.D | WMB95035 | | OK | MLC 09/28/21 | | Aqueous | 1 | 1 | 608\808 | 09/28 10:39 |
| 5G98364.D | 95035(MS) | | RR | MLC 09/28/21 | | Aqueous | 1 | 1 | 608\808 | 09/28 10:57 |
| 5G98365.D | SMB95027(MS) | | OK SMB95027 | MLC 09/28/21 | | Soil | 1 | 1 | 8081 | 09/28 11:15 |
| 5G98366.D | SMB94897(MS) | | OK SMB94897 | MLC 09/28/21 | | Soil | 1 | 1 | 8081 | 09/28 11:33 |
| 5G98367.D | SMB95040(MS) | | OK SMB95040 | MLC 09/28/21 | | Soil | 1 | 1 | 8081 | 09/28 11:52 |
| 5G98368.D | AD25988-001 | Eo | OK SMB95040 | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 12:10 |
| 5G98369.D | AD26112-006(T)(M | | OK WMB95035 | MLC 09/28/21 | PETCLP-808 | Aqueous | 1 | 1 | 608\808 | 09/28 12:28 |
| 5G98370.D | AD26112-006(T)(M | | OK WMB95035 | MLC 09/28/21 | PETCLP-808 | Aqueous | 1 | 1 | 608\808 | 09/28 12:46 |
| 5G98371.D | AD26010-001(T)(M | | OK WMB95020 | MLC 09/28/21 | PETCLP-808 | Aqueous | 1 | 1 | 608\808 | 09/28 13:05 |
| 5G98372.D | AD26010-001(T)(M | | OK WMB95020 | MLC 09/28/21 | PETCLP-808 | Aqueous | 1 | 1 | 608\808 | 09/28 13:23 |
| 5G98373.D | AD26083-002(R) | | OK,CONFIRMED | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 13:41 |
| 5G98374.D | AD26083-046 | | OK | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 13:59 |
| 5G98375.D | AD26083-048 | Tmw | OK WMB94974 | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 608\808 | 09/28 14:17 |
| 5G98376.D | AD26218-008 | | OK | MLC 09/28/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/28 14:36 |
| 5G98377.D | AD26077-011 | | OK | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/28 14:54 |
| 5G98378.D | AD26077-006 | | OK | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/28 15:12 |
| 5G98379.D | AD26077-010 | | OK | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/28 15:30 |
| 5G98380.D | AD26144-003 | | OK | | PE-8081 | Soil | 1 | 1 | 8081 | 09/28 15:49 |
| 5G98381.D | AD26077-012 | | OK | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/28 16:07 |
| 5G98382.D | AD26077-017 | | OK | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/28 16:25 |
| 5G98383.D | 100PPB | Tm | NOT USED | MLC 09/29/21 | | Soil | 0.5 | 1 | 8081 | 09/28 18:03 |
| 5G98384.D | CAL PEST@100PP | | OK | MLC 09/29/21 | | Soil | 0.5 | 1 | 608\808 | 09/28 19:04 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| B6m | Blank 600 series missing | Fln | Tcln/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for anth |
| B8m | Blank 8000 series missing | Eto | Tcln Extracting Performed Outside of Hold | EvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Ev | Eval Time Exceeded | Evnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hh | Analysis Before Collection Date | Evm | Eval Mix missing ddt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rnd Out on MeMed (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rnd Out on MeMed (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C6f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rto | Can't Calculate Drift |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Prob with calcvl.csv for init calibration chek rfs | S6 | 600 series surrogate out |
| Cme | Ending Cal missing for sample (8000 series) | Iw | Initial cal warning. Ini cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a sampl | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GC_6 Year: 2021
Analyst: MS/MLC/M

1-1-6G119455

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 6G119455. | CAL EVAL | Ee1=8.2;Ee2=9.8;Ed1=8.9;Ed2=9.6; | OK,V-353578 | MLC 09/29/21 | | Soil | 1 | 1 | 8081 | 09/28 23:39 |
| 6G119456. | EVAL | | NOT USED | MLC 09/29/21 | | Soil | 1 | 1 | 8081 | 09/28 23:57 |
| 6G119457. | CAL PEST@100PPC16C18 | | OK,V-347857 | MLC 09/29/21 | | Soil | 0.5 | 1 | 608\808 | 09/29 00:14 |
| 6G119458. | CAL PEST@200PPC16C18 | | OK,V-347856 | MLC 09/29/21 | | Soil | 0.25 | 1 | 608\808 | 09/29 00:32 |
| 6G119459. | AD26077-004 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 00:50 |
| 6G119460. | AD26077-005 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 01:07 |
| 6G119461. | AD26077-007 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 01:25 |
| 6G119462. | AD26077-008 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 01:42 |
| 6G119463. | AD26077-009 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 02:00 |
| 6G119464. | AD26077-013 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 02:18 |
| 6G119465. | AD26077-014 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 02:35 |
| 6G119466. | AD26077-015 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 02:53 |
| 6G119467. | AD26077-016 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 03:10 |
| 6G119468. | AD26077-018 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 03:28 |
| 6G119469. | AD26077-019 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 03:46 |
| 6G119470. | AD26077-020 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 04:03 |
| 6G119471. | CAL EVAL | Ee1=6;Ee2=6;Ed1=10;Ed2=9.9; | OK,USE 2ND COLUMN | MS 09/29/21 | | Soil | 1 | 1 | 8081 | 09/29 08:40 |
| 6G119472. | CAL PEST@100PPC16C18 | | OK,USE 2ND COLUMN | MS 09/29/21 | | Soil | 0.5 | 1 | 608\808 | 09/29 09:03 |
| 6G119473. | AD26185-001(T) | | OK,USE 2ND COLUMN | MS 09/29/21 | PETCLP-808 | Aqueous | 1 | 1 | 8081 | 09/29 09:25 |
| 6G119474. | AD26083-019 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/29 09:43 |
| 6G119475. | AD26083-030 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/29 10:00 |
| 6G119476. | AD26142-001 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 10:18 |
| 6G119477. | AD26158-001 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 10:36 |
| 6G119478. | AD26158-002 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 10:53 |
| 6G119479. | AD26158-003 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 11:11 |
| 6G119480. | AD26158-006 | | OK,USE 2ND COLUMN | MS 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 11:28 |
| 6G119481. | AD26178-004 | | OK,USE 2ND COLUMN | MS 09/29/21,MLC 09/29/21,MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 11:46 |
| 6G119482. | AD26166-008 | | OK,USE 2ND COLUMN | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 12:54 |
| 6G119483. | AD26166-010 | | OK,USE 2ND COLUMN | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 13:12 |
| 6G119484. | AD26166-007 | | OK,USE 2ND COLUMN | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 13:29 |
| 6G119485. | 100PPB | | NOT USED | MS 09/29/21 | | Soil | 0.5 | 1 | 8081 | 09/29 14:10 |
| 6G119486. | CAL PEST@100PPC16C18 | | OK,USE 2ND COLUMN | MS 09/29/21 | | Soil | 0.5 | 1 | 608\808 | 09/29 14:29 |
| 6G119487. | AD26178-002(T) | | OK,USE 2ND COLUMN | MS 09/29/21 | PETCLP-808 | Aqueous | 1 | 1 | 8081 | 09/29 14:50 |
| 6G119488. | AD26178-004(T) | | OK,USE 2ND COLUMN | MS 09/29/21 | PETCLP-808 | Aqueous | 1 | 1 | 8081 | 09/29 15:08 |
| 6G119489. | AD26178-006(T) | | OK,USE 2ND COLUMN | MS 09/29/21 | PETCLP-808 | Aqueous | 1 | 1 | 8081 | 09/29 15:25 |
| 6G119490. | AD26083-033 | | OK,USE 2ND COLUMN | MS 09/29/21,MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/29 15:43 |
| 6G119491. | AD26083-035 | | OK,USE 2ND COLUMN | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/29 16:00 |
| 6G119492. | AD26083-036 | | OK,USE 2ND COLUMN | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/29 16:18 |
| 6G119493. | AD26083-038 | | OK,USE 2ND COLUMN | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/29 16:36 |
| 6G119494. | AD26083-040(R) | | OK,USE 2ND COLUMN WMB94962 | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 608\808 | 09/29 16:53 |
| 6G119495. | AD26166-012 | | OK,USE 2ND COLUMN | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 17:11 |
| 6G119496. | AD26166-004 | | OK,USE 2ND COLUMN | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 17:28 |
| 6G119497. | AD26166-009 | | OK,USE 2ND COLUMN | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 17:46 |
| 6G119498. | AD26166-013 | | OK,USE 2ND COLUMN | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 18:03 |
| 6G119499. | AD26166-014 | | OK,USE 2ND COLUMN | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 18:21 |
| 6G119500. | AD26166-016 | | OK,USE 2ND COLUMN | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 18:39 |
| 6G119501. | AD26166-017 | | OK,USE 2ND COLUMN | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 18:56 |
| 6G119502. | CAL PEST@100PPC16C18 | | OK,USE 2ND COLUMN | MLC 09/29/21 | | Soil | 0.5 | 1 | 608\808 | 09/29 19:37 |

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|---|---|---|---|---|---|
| Anc | Area Not Checked | Fo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| An | Area Out | Fsm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| B8m | Blank 600 series missing | Ftn | Tclv/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for anh |
| B8m | Blank 8000 series missing | Fto | Tclp Extraction Performed Outside of Hold | EvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Ev | Eval Time Exceeded | Evnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hb | Analysis Before Collection Date | Evm | Eval Mix missing ddt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rnd Out on MsMad (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rnd Out on MsMad (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C8f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rto | Can't Calculate Drift |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Prob with calmt csv for init calibration chek rls | S6 | 600 series surrogate out |
| Cme | Endmo Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | S8 | 8000 series surrogate out |
| Co | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a sampl | Sa6,Sb6 | Acid and or BN Surrogate Out (600 series) |

# RUN LOG

Instrument: GC_5 Year: 2021
Analyst: MS/MLC/M

1-1-5G98385

| Data File | Sample Number | Flags | Comments | Reviewed By | Test Group | Matrix | Surr Dil | Sam Dil | Method(s) | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 5G98385.D | CAL EVAL | Ee1=4.9;Ee2=11;Ed1=15;Ed2=15; | OK,V-353578 | MLC 09/29/21 | | Soil | 1 | 1 | 8081 | 09/29 09:06 |
| 5G98386.D | CAL PEST@100PPC16 | | OK,V-347857 | MLC 09/29/21 | | Soil | 0.5 | 1 | 608\808 | 09/29 09:47 |
| 5G98387.D | SMB95070 | | OK | MLC 09/29/21 | | Soil | 1 | 1 | 8081 | 09/29 10:05 |
| 5G98388.D | SMB95069 | | OK | MLC 09/29/21 | | Soil | 1 | 1 | 8081 | 09/29 10:23 |
| 5G98389.D | WMB95066 | | OK | MLC 09/29/21 | | Aqueous | 1 | 1 | 608\808 | 09/29 10:41 |
| 5G98390.D | WMB95062 | | OK | MLC 09/29/21 | | Aqueous | 1 | 1 | 608\808 | 09/29 10:59 |
| 5G98391.D | AD26166-001(T) | | OK WMB95066 | MLC 09/29/21 | PESPLP-808 | Aqueous | 1 | 1 | 8081 | 09/29 11:18 |
| 5G98392.D | AD26166-002(T) | | OK | MLC 09/29/21 | PESPLP-808 | Aqueous | 1 | 1 | 8081 | 09/29 11:36 |
| 5G98393.D | AD26166-003(T) | | OK | MLC 09/29/21 | PESPLP-808 | Aqueous | 1 | 1 | 8081 | 09/29 11:54 |
| 5G98394.D | AD26178-002 | | OK | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 12:12 |
| 5G98395.D | AD26178-006 | | OK SMB95070 | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 12:30 |
| 5G98396.D | AD26158-004 | | OK SMB95069 | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 12:49 |
| 5G98397.D | AD26158-005 | | OK | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 13:07 |
| 5G98398.D | AD26235-001(T) | | OK WMB95062 | MLC 09/29/21 | PETCLP-808 | Aqueous | 1 | 1 | 8081 | 09/29 13:25 |
| 5G98399.D | AD26185-001 | | OK,CONFIRMED | MLC 09/29/21 | PETCLP-808 | Aqueous | 1 | 1 | 8081 | 09/29 13:43 |
| 5G98400.D | AD26174-001 | | OK | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/29 14:01 |
| 5G98401.D | AD26228-001 | | OK | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/29 14:20 |
| 5G98402.D | AD26228-002 | | OK | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/29 14:38 |
| 5G98403.D | AD26228-003 | | OK | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/29 14:56 |
| 5G98404.D | AD26228-004 | | OK | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/29 15:14 |
| 5G98405.D | AD26228-005 | | OK | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/29 15:33 |
| 5G98406.D | AD26083-032 | | OK | MLC 09/29/21 | PE-8081 | Aqueous | 1 | 1 | 8081 | 09/29 15:51 |
| 5G98407.D | CAL PEST@100PP | | OK | MLC 09/29/21 | | Aqueous | 0.5 | 1 | 608\808 | 09/29 16:44 |
| 5G98408.D | SMB95069(MS) | | OK SMB95069 | MLC 09/29/21 | | Soil | 1 | 1 | 8081 | 09/29 17:07 |
| 5G98409.D | SMB95070(MS) | | OK SMB95070 | MLC 09/29/21 | | Soil | 1 | 1 | 8081 | 09/29 17:26 |
| 5G98410.D | AD26166-005 | | OK | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 17:44 |
| 5G98411.D | AD26166-006 | | OK | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 18:02 |
| 5G98412.D | AD26166-011 | | OK | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 18:20 |
| 5G98413.D | AD26166-015 | | OK | MLC 09/29/21 | PE-8081 | Soil | 1 | 1 | 8081 | 09/29 18:39 |
| 5G98414.D | CAL PEST@100PP | | OK | MLC 09/29/21 | | Soil | 0.5 | 1 | 608\808 | 09/29 19:44 |
| 5G98415.D | WMB95035(MS) | | OK WMB95035 | MLC 09/29/21 | | Aqueous | 1 | 1 | 608\808 | 09/29 20:04 |
| 5G98416.D | WMB95062(MS) | | OK WMB95062 | MLC 09/29/21 | | Aqueous | 1 | 1 | 608\808 | 09/29 20:22 |
| 5G98417.D | CAL PEST@100PP | | OK | MLC 09/29/21 | | Aqueous | 0.5 | 1 | 608\808 | 09/29 20:40 |

| | | | | | |
|---|---|---|---|---|---|
| Anc | Area Not Checked | Eo | Extraction Performed Past Hold | Co | Warning Possible Carry Over |
| Ao | Area Out | Esm | Solvent Extraction Date Missing/Not check'd | CRN | Warning c30/c20 not checked |
| Bbm | Blank 600 series missing | Eto | Tclp/Solvent Extraction Date Missing/Not check'd | Cm | C30/C20 failed for anh |
| Bbm | Blank 8000 series missing | Eto | Tclp Extraction Performed Outside of Hold | EvF | Eval Mix Failed |
| Bnf | Blank Not Found/Assigned | Ev | Eval Time Exceeded | Evnc | Eval Mix Not Checked |
| C16 | Calibration Column 1 Out (600 Series) | Hb | Analysis Before Collection Date | Evm | Eval Mix missing ddt or endrin |
| C18 | Calibration Column 1 Out (8000 Series) | Ho | Sample Analyzed outside of hold time | R16 R26 | Rpd Out on MsMsd (col1 and or col2) 600 series |
| C26 | Calibration Column 2 Out (600 Series) | I16 I26 | Initial cal 600 series failed Column 1 and or 2 | R18 R28 | Rpd Out on MsMsd (col1 and or col2) 8000 series |
| C28 | Calibration Column 2 Out (8000 Series) | I18 I28 | Initial cal 8000 series failed Column 1 and or 2 | Ro | Retention Time Out Or %Diff Out |
| C8f | 600 series sample/blank did not have passing cal | Is | Initial Cal Not Checked | Rtn | Can't Calculate Drift |
| C8f | 8000 series sample/blank did not have passing cal | Iv | Prob with calmt csv for init calibration chek rls | S6 | 600 series surrogate out |
| Cme | Ending Cal missing for sample (8000 series) | Iw | Initial cal warning Ini cal file <> method | S8 | 8000 series surrogate out |
| Cn | Calibration Not Checked for sample/blank/eval | Ix | Initial Cal Files Not Updated Properly for a samol | Sa6 Sb6 | Acid and or BN Surrogate Out (600 series) |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-346410

Prepared By: Ceus, Mahalia
Description: PEST/PCB GC SURR (DANGER)
Prep Date: 3/23/2021
Expiration Date: 3/23/2022
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 03/31/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13739 | acetone | 100 ml | neat neat | |
| 12494 | Decachlorobiphenyl | 20 mg | NEAT neat | 200 ppm |
| 12522 | 2,4,5,6-Tetrachloro-m-Xylene | 20 mg | NEAT neat | 200 ppm |

## Veritech Lot Number: V-347854

Prepared By: Ceus, Mahalia
Description: PEST INTERM. (DANGER)
Prep Date: 3/25/2021
Expiration Date: 9/25/2021
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 9400 ul | neat neat | |
| V-346410 | PEST/PCB GC SURR (DANGER) | 500 ul | 200 ppm | 10 ppm |
| 12795 | Pesticides Mix | 100 ul | 1000 ppm | 10 ppm |

## Veritech Lot Number: V-347855

Prepared By: Ceus, Mahalia
Description: CAL PEST@400PPB (DANGER)
Prep Date: 3/25/2021
Expiration Date: 9/25/2021
Department: Organics
BatchNumber:
Concentration: 400 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 48000 ul | neat neat | |
| V-347854 | PEST INTERM. (DANGER) | 2000 ul | 10 ppm | 400 ppb |

## Veritech Lot Number: V-347856

Prepared By: Ceus, Mahalia
Description: CAL PEST@200PPB (DANGER)
Prep Date: 3/25/2021
Expiration Date: 9/25/2021
Department: Organics
BatchNumber:
Concentration: 200 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 49000 ul | neat neat | |
| V-347854 | PEST INTERM. (DANGER) | 1000 ul | 10 ppm | 200 ppb |

## Veritech Lot Number: V-347857

Prepared By: Ceus, Mahalia
Description: CAL PEST@100PPB (DANGER)
Prep Date: 3/25/2021
Expiration Date: 9/25/2021
Department: Organics
BatchNumber:
Concentration: 100 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 49500 ul | neat neat | |
| V-347854 | PEST INTERM. (DANGER) | 500 ul | 10 ppm | 100 ppb |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-347858

Prepared By: Ceus, Mahalia
Description: CAL PEST@50PPB (DANGER)
Prep Date: 3/25/2021
Expiration Date: 9/25/2021
Department: Organics
BatchNumber:
Concentration: 50 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 49750 ul | neat neat | |
| V-347854 | PEST INTERM. (DANGER) | 250 ul | 10 ppm | 50 ppb |

## Veritech Lot Number: V-347859

Prepared By: Ceus, Mahalia
Description: CAL PEST@10PPB (DANGER)
Prep Date: 3/25/2021
Expiration Date: 9/25/2021
Department: Organics
BatchNumber:
Concentration: 10 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 9000 ul | neat neat | |
| V-347857 | CAL PEST@100PPB (DANGER) | 1000 ul | 100 ppb | 10 ppb |

## Veritech Lot Number: V-347860

Prepared By: Ceus, Mahalia
Description: CAL PEST@2PPB (DANGER)
Prep Date: 3/25/2021
Expiration Date: 9/25/2021
Department: Organics
BatchNumber:
Concentration: 2 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 9900 ul | neat neat | |
| V-347856 | CAL PEST@200PPB (DANGER) | 100 ul | 200 ppb | 2 ppb |

## Veritech Lot Number: V-347861

Prepared By: Ceus, Mahalia
Description: CHLOR INTER (DANGER)
Prep Date: 3/25/2021
Expiration Date: 9/25/2021
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 940 ul | neat neat | |
| V-346410 | PEST/PCB GC SURR (DANGER) | 50 ul | 200 ppm | 10 ppm |
| 13416 | Chlordane STD. | 10 ul | 1000 ppm | 10 ppm |

## Veritech Lot Number: V-347862

Prepared By: Ceus, Mahalia
Description: CHLORDANE (DANGER)
Prep Date: 3/25/2021
Expiration Date: 9/25/2021
Department: Organics
BatchNumber:
Concentration: 100 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13746 | N-hexane | 9900 ul | neat neat | |
| V-347861 | CHLOR INTER (DANGER) | 100 ul | 10 ppm | 100 ppb |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-350516

Prepared By: Ceus, Mahalia
Description: CAL PEST@200PPB (DANGER)
Prep Date: 5/19/2021
Expiration Date: 9/25/2021
Department: Organics
BatchNumber:
Concentration: 200 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/25/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13883 | n-hexane | 49000 ul | neat neat | |
| V-347854 | PEST INTERM. (DANGER) | 1000 ul | 10 ppm | 200 ppb |

## Veritech Lot Number: V-351050

Prepared By: Ceus, Mahalia
Description: PEST SPIKE
Prep Date: 6/3/2021
Expiration Date: 10/31/2021
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/03/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13901 | acetone | 99.5 ml | neat neat | |
| 13090 | EPA CLP Org.Pest Mix. | 500 ul | 2000 ppm | 10 ppm |

## Veritech Lot Number: V-351057

Prepared By: Rana, Jaykumar
Description: PEST/PCB LAB SURR (danger)
Prep Date: 6/3/2021
Expiration Date: 12/3/2021
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 06/03/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13901 | acetone | 475 ml | neat neat | |
| V-346410 | PEST/PCB GC SURR (DANGER) | 25 ml | 200 ppm | 10 ppm |

## Veritech Lot Number: V-353578

Prepared By: Ceus, Mahalia
Description: EVAL PEST MIX (DANGER)
Prep Date: 7/11/2021
Expiration Date: 1/11/2022
Department: Organics
BatchNumber:
Concentration: 100 ppb
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 07/14/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14016 | n-hexane | 24982.5 ul | neat neat | |
| V-346410 | PEST/PCB GC SURR (DANGER) | 12.5 ul | 200 ppm | 200 ppm |
| 13601 | DDT-Endrin Mix | 5 ul | 500 ppm | 500 ppm |

## Veritech Lot Number: V-355304

Prepared By: Ceus, Mahalia
Description: ICV PEST (DANGER)
Prep Date: 8/9/2021
Expiration Date: 10/31/2021
Department: Organics
BatchNumber:
Concentration: 100 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 08/10/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14082 | n-Hexane | 9800 ul | neat neat | |
| V-351057 | PEST/PCB LAB SURR (danger) | 100 ul | 10 ppm | 100 ppb |
| V-351050 | PEST SPIKE | 100 ul | 10 ppm | 100 ppb |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357449

Prepared By: Ceus, Mahalia
Description: TOXAPHENE INTER (DANGER)
Prep Date: 9/9/2021
Expiration Date: 3/9/2022
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 09/16/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14082 | n-Hexane | 850 ul | neat neat | |
| V-346410 | PEST/PCB GC SURR (DANGER) | 50 ul | 200 ppm | 10 ppm |
| 12803 | Toxaphene | 100 ul | 1000 ppm | 100 ppm |

## Veritech Lot Number: V-357450

Prepared By: Ceus, Mahalia
Description: TOX@4000PPB (DANGER)
Prep Date: 9/9/2021
Expiration Date: 3/9/2022
Department: Organics
BatchNumber:
Concentration: 4000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/16/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14082 | n-Hexane | 9600 ul | neat neat | |
| V-357449 | TOXAPHENE INTER (DANGER) | 400 ul | 100 ppm | 4000-400 pp |

## Veritech Lot Number: V-357451

Prepared By: Ceus, Mahalia
Description: TOX@2000PPB (DANGER)
Prep Date: 9/9/2021
Expiration Date: 3/9/2022
Department: Organics
BatchNumber:
Concentration: 2000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/16/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14082 | n-Hexane | 9800 ul | neat neat | |
| V-357449 | TOXAPHENE INTER (DANGER) | 200 ul | 100 ppm | 2000-200 pp |

## Veritech Lot Number: V-357452

Prepared By: Ceus, Mahalia
Description: TOX@1000PPB (DANGER)
Prep Date: 9/9/2021
Expiration Date: 3/9/2022
Department: Organics
BatchNumber:
Concentration: 1000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/16/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14082 | n-Hexane | 9900 ul | neat neat | |
| V-357449 | TOXAPHENE INTER (DANGER) | 100 ul | 100 ppm | 1000-100 pp |

## Veritech Lot Number: V-357453

Prepared By: Ceus, Mahalia
Description: TOX@500PPB (DANGER)
Prep Date: 9/9/2021
Expiration Date: 3/9/2022
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/16/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14082 | n-Hexane | 9950 ul | neat neat | |
| V-357449 | TOXAPHENE INTER (DANGER) | 50 ul | 100 ppm | 500-50 ppb |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357454

Prepared By: Ceus, Mahalia
Description: TOX@200PPB (DANGER)
Prep Date: 9/9/2021
Expiration Date: 3/9/2022
Department: Organics
BatchNumber:
Concentration: 200 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/16/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14082 | n-Hexane | 9000 | neat neat | |
| V-357449 | TOXAPHENE INTER (DANGER) | 1000 | 100 ppm | 200 ppb |

## Veritech Lot Number: V-357455

Prepared By: Ceus, Mahalia
Description: TOX@50PPB (DANGER)
Prep Date: 9/9/2021
Expiration Date: 3/9/2022
Department: Organics
BatchNumber:
Concentration: 50 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/16/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14082 | n-Hexane | 9000 ul | neat neat | |
| V-357449 | TOXAPHENE INTER (DANGER) | 1000 ul | 100 ppm | 50 ppb |

## Veritech Lot Number: V-357456

Prepared By: Ceus, Mahalia
Description: TOX ICV INTER (DANGER)
Prep Date: 9/9/2021
Expiration Date: 3/9/2022
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 09/16/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14082 | n-Hexane | 925 ul | neat neat | |
| V-346410 | PEST/PCB GC SURR (DANGER) | 25 ul | 200 ppm | 5 ppm |
| 12803 | Toxaphene | 50 ul | 1000 ppm | 50 ppm |

## Veritech Lot Number: V-357457

Prepared By: Ceus, Mahalia
Description: ICV@TOXAPHENE (DANGER)
Prep Date: 9/9/2021
Expiration Date: 3/9/2022
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/16/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14082 | n-Hexane | 9900 ul | neat neat | |
| V-357456 | TOX ICV INTER (DANGER) | 100 ul | 50 ppm | 500 ppb |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 12494

Description
Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 05/17/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | BZ-209-10MG | 8157700 | 05/17/19 | 09/30/24 | Hamid, Akmal | 1 | 10MG | NEAT | NEAT |

## Veritech Control/Receipt Number: 12522

Description
2,4,5,6-Tetrachloro-m-Xylene

ApprovedBy: akmal
ApproveDate: 05/29/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service Inc | N-10542-100MG | 8499900 | 05/28/19 | 04/30/24 | Hamid, Akmal | 1 | 100M | NEAT | NEAT |

## Veritech Control/Receipt Number: 12795

Description
Pesticides Mix

ApprovedBy: akmal
ApproveDate: 09/27/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Accu Standard | M-8081-SC | 218111333 | 09/26/19 | 11/27/21 | Hamid, Akmal | 1 | IML | 1000 | PPM |

## Veritech Control/Receipt Number: 12803

Description
Toxaphene

ApprovedBy: akmal
ApproveDate: 09/27/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | 48103 | LRAC2976 | 09/27/19 | 06/30/22 | Hamid, Akmal | 1 | 1ML | 1000 | PPM |

## Veritech Control/Receipt Number: 13090

Description
EPA CLP Org.Pest Mix.

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | CRM47426 | LRAC0429 | 03/04/20 | 10/31/21 | Hamid, Akmal | 1 | 1ML | 2000 | PPM |

## Veritech Control/Receipt Number: 13416

Description
Chlordane STD.

ApprovedBy: akmal
ApproveDate: 07/27/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Agilent | PST-110M1000 | 0006546686 | 07/27/20 | 08/31/22 | Hamid, Akmal | 1 | 1ML | 1000 | PPM |

## Veritech Control/Receipt Number: 13601

Description
DDT-Endrin Mix

ApprovedBy: akmal
ApproveDate: 11/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma - Aldrich | 48282 | LRAC5769 | 11/12/20 | 02/28/23 | Hamid, Akmal | 2 | 1ML | 500 | PPM |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13739

Description
acetone

ApprovedBy: akmal
ApproveDate: 01/28/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9254-03 | 270403 | 01/26/21 | 08/27/23 | Lopez, Jose | 20 | 4L | neat | neat |

## Veritech Control/Receipt Number: 13746

Description
N-hexane

ApprovedBy: akmal
ApproveDate: 02/04/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | HG4840 | 20080018 | 01/29/21 | 08/06/23 | Lopez, Jose | 32 | 4L | neat | neat |

## Veritech Control/Receipt Number: 13883

Description
n-hexane

ApprovedBy: akmal
ApproveDate: 04/28/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | HG4840 | 20080018 | 04/22/21 | 08/08/23 | Lopez, Jose | 20 | 4L | neat | neat |

## Veritech Control/Receipt Number: 13901

Description
acetone

ApprovedBy: akmal
ApproveDate: 05/06/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9254-03 | 276679 | 05/04/21 | 01/04/24 | Lopez, Jose | 48 | 4L | neat | neat |

## Veritech Control/Receipt Number: 14016

Description
n-hexane

ApprovedBy: akmal
ApproveDate: 07/06/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | HG4840-001 | 21050581 | 07/01/21 | 05/27/24 | Lopez, Jose | 40 | 4L | neat | neat |

## Veritech Control/Receipt Number: 14082

Description
n-Hexane

ApprovedBy: akmal
ApproveDate: 07/29/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | 4840-001 | 21060521 | 07/26/21 | 06/14/24 | Lopez, Jose | 48 | 4L | neat | neat |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-346410

Prepared By: Ceus, Mahalia
Description: PEST/PCB GC SURR (DANGER)
Prep Date: 3/23/2021
Expiration Date: 3/23/2022
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 03/31/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13739 | acetone | 100 ml | neat neat | |
| 12494 | Decachlorobiphenyl | 20 mg | NEAT neat | 200 ppm |
| 12522 | 2,4,5,6-Tetrachloro-m-Xylene | 20 mg | NEAT neat | 200 ppm |

## Veritech Lot Number: V-351050

Prepared By: Ceus, Mahalia
Description: PEST SPIKE
Prep Date: 6/3/2021
Expiration Date: 10/31/2021
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/03/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13901 | acetone | 99.5 ml | neat neat | |
| 13090 | EPA CLP Org.Pest Mix. | 500 ul | 2000 ppm | 10 ppm |

## Veritech Lot Number: V-357124

Prepared By: Ceus, Mahalia
Description: PEST/PCB LAB SURR (danger)
Prep Date: 9/9/2021
Expiration Date: 3/9/2022
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14134 | Acetone | 475 ml | neat neat | |
| V-346410 | PEST/PCB GC SURR (DANGER) | 25 ml | 200 ppm | 10 ppm |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 12494

Description
Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 05/17/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service | BZ-209-10MG | 8157700 | 05/17/19 | 09/30/24 | Hamid, Akmal | 1 | 10MG | NEAT | NEAT |

## Veritech Control/Receipt Number: 12522

Description
2,4,5,6-Tetrachloro-m-Xylene

ApprovedBy: akmal
ApproveDate: 05/29/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Chem Service Inc | N-10542-100MG | 8499900 | 05/28/19 | 04/30/24 | Hamid, Akmal | 1 | 100M | NEAT | NEAT |

## Veritech Control/Receipt Number: 13090

Description
EPA CLP Org.Pest Mix.

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Sigma-Aldrich | CRM47426 | LRAC0429 | 03/04/20 | 10/31/21 | Hamid, Akmal | 1 | 1ML | 2000 | PPM |

## Veritech Control/Receipt Number: 13739

Description
acetone

ApprovedBy: akmal
ApproveDate: 01/28/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9254-03 | 270403 | 01/26/21 | 08/27/23 | Lopez, Jose | 20 | 4L | neat | neat |

## Veritech Control/Receipt Number: 13901

Description
acetone

ApprovedBy: akmal
ApproveDate: 05/06/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9254-03 | 276679 | 05/04/21 | 01/04/24 | Lopez, Jose | 48 | 4L | neat | neat |

## Veritech Control/Receipt Number: 14134

Description
Acetone

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | AA1111-001 | 21050128 | 08/13/21 | 06/08/23 | Lopez, Jose | 48 | 4L | neat | neat |

Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 14137**

Description
n-hexane

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | HG-4840 | 21050581 | 08/13/21 | 05/27/24 | Lopez, Jose | 24 | 4L | neat | neat |

**Veritech Control/Receipt Number: 14142**

Description
sodium sulfate

ApprovedBy: akmal
ApproveDate: 08/19/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fermont | 6639 | 029201 | 08/17/21 | 08/16/26 | Lopez, Jose | 6 | 100L | neat | neat |

**Veritech Control/Receipt Number: 14160**

Description
Dichloromethane

ApprovedBy: akmal
ApproveDate: 09/02/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Tedia | DA1431-001 | 21060637 | 08/31/21 | 07/20/23 | Lopez, Jose | 100 | 4L | neat | neat |

# Metal Data

# Metal Data
# Sample Data

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-001
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | ND | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-001 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-22-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 23 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 11000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 41 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 18 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 23 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 14000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 23 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 24 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-001 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-22-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 32 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-002
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 790 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-8-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 260 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 14 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 290 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 190000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 920 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 75000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 5400 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 19 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | 83 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 5200 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 14 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 800000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 14 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 14 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-002 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-8-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 13 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 33 | MS | MS3_7700SWA |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-003
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 290 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-003 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-10-20210913 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 420 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 38 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 310 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 70000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 28000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 130 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 18 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 38 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 15000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 38 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 82 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-003 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-10-20210913 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 32 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-004 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-10-20210913 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 23 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 220 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 51000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 21000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 84 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 18 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 23 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 12000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 23 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 66 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-004 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-10-20210913 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 32 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-005
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | ND | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-005 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | FB-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc. | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 15 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 20 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 15 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 15 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-005 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | FB-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-006
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 250 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-006 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-9-20210913 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 680 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 14 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 340 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 61000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 24000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 480 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 19 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 14 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 11000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 14 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 38 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-006 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-9-20210913 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 33 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-007 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-9-20210913 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 26 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 250 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 46000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 18000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 350 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 19 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 26 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 8900 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 26 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 69 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-007 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-9-20210913 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 33 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 33 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 33 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 33 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 33 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 33 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 33 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 33 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-008
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 590 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-008 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-11-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 16 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 120 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 140000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1700 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 60000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 430 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 23 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 7100 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 16 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 39000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 16 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-008 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-11-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-009
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 580 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-009 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-01-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 17 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 120 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 130000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1700 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 60000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 430 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 24 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 6900 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 17 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 39000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 17 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-009 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-01-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke

Data File Name: SW27669C2

Lab Code: 14622

Analysis Date: 09/29/2021

Matrix: Water

Lab Sample ID: AD26083-011

Client ID: TRC-NYC

Level: low/med

Dilution: 1

Batch: 27669

% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 260 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-011 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-7-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 18 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 300 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 78000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 16000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 620 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 25 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 18 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 20000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 18 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 18 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-011 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-7-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 37 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-012
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 46 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-012 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-21-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 320 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 15 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 110 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 8800 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 20000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 5800 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 750 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 20 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 15 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 7400 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 15 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 41 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-012 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-21-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 34 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 34 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 34 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 34 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 34 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 34 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 34 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 34 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-013 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-21-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 27 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 84 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 7300 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 15000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 570 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 22 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 27 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 6600 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 27 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 70 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-013 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-21-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 34 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 34 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 34 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 34 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 34 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 34 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 34 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 34 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-014
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 89 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-014 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-12-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 280 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 16 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 120 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 20000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 860 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 9800 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 110 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 23 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 16 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 100000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 16 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 42 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-014 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-12-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | MI | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 14 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 35 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-015 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-12-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 28 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 97 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 17000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 8100 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 79 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 23 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 28 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 88000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 28 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 71 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-015 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-12-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 35 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 11 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 35 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 35 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 35 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 35 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 35 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 35 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 35 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-016
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 150 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-016 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-6-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 17 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 180 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 42000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 11000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 260 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 24 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 17 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 13000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 17 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 43 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-016 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-6-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 36 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 36 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 36 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 36 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 36 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 36 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 36 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 36 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-017 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-6-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 29 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 150 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 33000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 8600 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 150 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 24 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 29 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 11000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 29 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 72 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-017 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-6-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 36 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-018
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 99 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-018 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-13-20210914 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 1400 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 21 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 120 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 14000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 69 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 4200 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 16000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 180 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 26 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 21 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 86000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 21 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 72 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 19 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-018 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-13-20210914 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 2.7 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 2.8 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 11 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 38 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-019
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 260 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-019 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-15-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/20/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 250 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 18 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 79 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 32000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1400 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 43000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 120 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 25 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 31000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 18 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 560000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 18 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 44 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-019 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-15-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/20/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 8.1 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 37 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-020 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-15-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 30 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 64 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 27000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 600 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 35000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 94 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 25 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 25000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 30 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 440000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 30 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 73 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-020 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-15-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 6.1 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 37 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-021
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 140 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-021 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-5B-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 930 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 19 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 200 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 36000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1900 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 12000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 240 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 26 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 19 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 20000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 19 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 45 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-021 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-5B-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 38 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-022 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-5B-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 31 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 160 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 31000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 9400 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 170 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 26 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 31 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 17000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 31 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 74 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-022 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-5B-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 38 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 38 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 38 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 38 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 38 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 38 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 38 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 38 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-023
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 130 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-023 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-02-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 870 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 20 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 200 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 35000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1700 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 11000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 230 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 27 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 20 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 19000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 20 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 46 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-023 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-02-20210914 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 39 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 39 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 39 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 39 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 39 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 39 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 39 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282 | 421BNEW | 39 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-024 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-02-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 34 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 150 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 29000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 8800 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 160 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 27 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 34 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 16000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 34 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 77 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-024 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-02-20210914 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321 | BNEW | 39 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321 | BNEW | 39 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321 | BNEW | 39 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321 | BNEW | 39 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321 | BNEW | 39 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321 | BNEW | 39 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321 | BNEW | 39 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321 | BNEW | 39 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-026
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 200 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-026 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-5A-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 22 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 430 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 60000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 13000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 78 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 27 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 22 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 39000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 22 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 72 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 22 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-026 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-5A-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 2.1 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 39 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-027
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 44 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-027 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-17-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 23 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 96 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 6400 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 400 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 6900 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 48 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 28 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 15000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 23 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 340000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 23 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 23 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-027 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-17-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 9.1 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 40 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-028
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 880 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-028 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-4-20210915 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | MI | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 7600 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 23 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 1600 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 230000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 15000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 73000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 1100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 28 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 8500 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 23 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 190000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 23 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 87 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 47 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-028 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-4-20210915 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 5.0 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 7.5 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 7.8 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 40 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-029 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-4-20210915 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 35 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 1300 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 200000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 410 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 59000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 660 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 28 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 6200 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 35 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 170000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 35 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 78 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-029 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-4-20210915 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 40 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 40 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 40 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 40 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 40 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 40 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 40 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 40 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-030
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 43 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-030 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-16-20210915 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 24 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 110 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 6800 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 6300 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 51 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 29 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 7600 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 24 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 80000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 24 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 50 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-030 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-16-20210915 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 44 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-031 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-16-20210915 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 36 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 87 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 5200 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 29 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 6500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 36 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 66000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 36 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 79 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-031 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-16-20210915 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 44 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-032
Client ID: TRC-NYC

Level: low/med
Dilution: 10

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 330 | 3800 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-032 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-3-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 24 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 76 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7440-70-2 | Calcium | 50000 | 580000 | 10 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 83 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 25000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7439-95-4 | Magnesium | 50000 | 580000 | 10 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 83 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 2900 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 29 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 76000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 24 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 4700000 | 10 | 50 | 50 | 09/29/21 | 94427 | W27669E5 | 47 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 24 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-032 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-3-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | MI | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 4.2 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 44 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-033
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | ND | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-033 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | FB-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 25 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 30 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 25 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 25 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 25 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-033 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | FB-20210915 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 45 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-035
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 140 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-035 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18C-20210916 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 26 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 240 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 20000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 22000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 31 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 33000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 26 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 270000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 26 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 26 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-035 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18C-20210916 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 46 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-036
Client ID: TRC-NYC

Level: low/med
Dilution: 10

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 330 | 4100 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-036 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-2-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 520 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 25 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 53 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-70-2 | Calcium | 50000 | 1000000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 84 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 5000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7439-95-4 | Magnesium | 50000 | 350000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 84 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 6700 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 30 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 36000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 25 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 2500000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669E5 | 56 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-036 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-2-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 7.0 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 7.3 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-037 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-2-20210916 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 37 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7440-70-2 | Calcium | 50000 | 830000 | 10 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 85 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 2300 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7439-95-4 | Magnesium | 50000 | 280000 | 10 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 85 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 5100 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 30 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 31000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 37 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 2000000 | 10 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 65 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 80 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-037 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-2-20210916 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 45 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 3.2 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 45 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 45 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 45 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 4.7 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 45 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 45 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 45 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 45 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-038
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 76 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-038 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18UG-2021091 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 26 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 57 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 20000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 6600 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 31 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 26 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 17000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 26 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 52 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-038 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18UG-2021091 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 46 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-039 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18UG-2021091 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 48 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-039 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18UG-2021091 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 28 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 20000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 7100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 28 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 16000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 28 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 54 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-039 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-18UG-2021091 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/28/21 | 94442 | H27683SW | 40 | CV | HGCV4A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-040
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 870 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-040 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 32 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 2400 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 100000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 12000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 150000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 570 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 14 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 110000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 32 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 1300000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669E5 | 50 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 32 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-040 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 2.2 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 7.7 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 23 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-041 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 17 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 2000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 83000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 9400 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 120000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 470 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 14 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 86000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 17 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 990000 | 10 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 59 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 60 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-041 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 23 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 23 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 23 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 23 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 7.0 | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 23 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 23 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 23 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292 | 321BNEW | 23 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-042
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 1200 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-042 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 4700 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 34 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 2900 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 150000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 510 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 17000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 200000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 1100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | 5.2 | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 16 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | 540 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 160000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 34 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | 100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 1400000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669E5 | 52 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | 520 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 530 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 34 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-042 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 460 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 26 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 490 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 26 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | 440 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 26 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | 460 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 26 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 480 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 26 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 420 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 26 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | 480 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 26 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | 420 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 26 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-043 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 4900 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 19 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 2200 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 120000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 490 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 13000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 150000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 880 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | 7.2 | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 16 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | 510 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 140000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 19 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | 100 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 1100000 | 10 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 61 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 62 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-043 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 450 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 460 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | 450 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | 450 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 450 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 420 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | 450 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | 430 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 26 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-044
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 1200 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-044 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 4600 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 35 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 2900 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 150000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 510 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 17000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 200000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 1100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | 5.2 | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 17 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | 530 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 160000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669B5 | 35 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | 100 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 1400000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669E5 | 53 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | 510 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 520 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 35 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-044 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 430 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 27 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 460 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 27 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | 410 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 27 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | 430 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 27 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 440 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 27 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 400 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 27 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | 450 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 27 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | 400 | 1 | 50 | 100 | 09/24/21 | 944282421 | BNEW | 27 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-045 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 5000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 20 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 2200 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 120000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 490 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 13000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 160000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 890 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | 7.0 | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 17 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | 510 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 140000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 20 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | 100 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 1100000 | 10 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 62 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 500 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 63 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-045 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-1-20210916MS | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 460 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 480 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | 470 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | 460 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 460 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 440 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | 470 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | 450 | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 27 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-046
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 38 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-046 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-23-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 27 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 53 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 12000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 710 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 120 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 32 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 27000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 27 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 29000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 27 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 53 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-046 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-23-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 47 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-047 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-23-20210916 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 38 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 9100 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 33 | CV | HGCV3A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 22000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 38 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 25000 | 1 | 50 | 50 | 09/29/21 | 94429 | W27669E5 | 38 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | W27669C2 | 81 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-047 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-23-20210916 F | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944292321BNEW | | 46 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-048
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 1500 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-048 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-19-20210916 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 17 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 340 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 170000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 27000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 270000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 2500 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 14 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 110000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 17 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 2700000 | 10 | 50 | 50 | 09/29/21 | 94427 | W27669E5 | 41 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 18 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-048 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-19-20210916 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 7.0 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 2.4 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 23 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-049
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 2000 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-049 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-19-20210916M | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 23000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 19 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 800 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 260000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 480 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 480 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 40000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 340000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 3200 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | 6.4 | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 16 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | 500 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 160000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 19 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | 93 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 2800000 | 10 | 50 | 50 | 09/29/21 | 94427 | W27669E5 | 43 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | 500 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 580 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 20 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-049 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-19-20210916M | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 400 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 460 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | 360 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | 400 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 420 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 390 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | 420 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | 390 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 26 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-050
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 2200 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-050 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-19-20210916M | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 32000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 20 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 810 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 280000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | 500 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | 490 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 52000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 350000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 3500 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | 6.4 | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 17 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | 530 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 150000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A5 | 20 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | 92 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 2700000 | 10 | 50 | 50 | 09/29/21 | 94427 | W27669E5 | 44 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | 520 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | 630 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669A2 | 21 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-050 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-19-20210916M | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | 390 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 450 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | 340 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | 390 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 420 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | 390 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7782-49-2 | Selenium | 10 | 420 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | 380 | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 27 | MS | MS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Metal Data
# QC Data

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/23/21
Data File: A092321ANEW
Prep Batch: 94427
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-357840-9 | Rec | CCV V-357844-18 | Rec | CCV V-357844-30 | Rec | CCV V-357844-42 | Rec | CCV V-357844-48 | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50/50 | 52.36200 | 105 | 50.50200 | 101 | 50.62000 | 101 | 50.95900 | 102 | 50.55100 | 101 | | | | |
| Arsenic | 50/50 | 51.74700 | 103 | 49.55900 | 99 | 49.78400 | 100 | 49.81900 | 100 | 50.35100 | 101 | | | | |
| Beryllium | 50/50 | 51.50000 | 103 | 49.84600 | 100 | 50.06900 | 100 | 50.83000 | 102 | 50.75100 | 102 | | | | |
| Cadmium | 50/50 | 51.50600 | 103 | 49.42800 | 99 | 49.90000 | 100 | 49.77400 | 100 | 49.31200 | 99 | | | | |
| Cobalt | 50/50 | 50.71200 | 101 | 49.38500 | 99 | 49.55500 | 99 | 49.86400 | 100 | 50.17800 | 100 | | | | |
| Lead | 50/50 | 50.87700 | 102 | 50.47700 | 101 | 50.55000 | 101 | 50.48400 | 101 | 49.60100 | 99 | | | | |
| Selenium | 50/250 | 52.90500 | 106 | 250.45100 | 100 | 250.85300 | 100 | 250.72800 | 100 | 253.49900 | 101 | | | | |
| Thallium | 50/50 | 50.00900 | 100 | 49.88900 | 100 | 50.05800 | 100 | 50.14000 | 100 | 49.57700 | 99 | | | | |

**Notes:** a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## LLQCS/LRS Summary)

Date Analyzed: 09/23/21
Data File: A092321ANEW
Prep Batch: 94427
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-357848 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-357843 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Magnesium | 250 | 241.090 | 96 | 80 | 120 | 50000 | 50224.351 | 100 | 90 | 110 |
| Aluminum | 100 | 99.736 | 100 | 80 | 120 | 15000 | 15075.778 | 101 | 90 | 110 |
| Arsenic | 1 | 0.983 | 98 | 80 | 120 | 500 | 499.831 | 100 | 90 | 110 |
| Barium | 2.5 | 2.389 | 96 | 80 | 120 | 500 | 479.670 | 96 | 90 | 110 |
| Beryllium | 0.5 | 0.478 | 96 | 80 | 120 | 500 | 489.671 | 98 | 90 | 110 |
| Calcium | 250 | 238.403 | 95 | 80 | 120 | 50000 | 51345.875 | 103 | 90 | 110 |
| Cadmium | 1 | 0.947 | 95 | 80 | 120 | 500 | 491.029 | 98 | 90 | 110 |
| Cobalt | 1 | 0.960 | 96 | 80 | 120 | 500 | 486.776 | 97 | 90 | 110 |
| Chromium | 1 | 0.952 | 95 | 80 | 120 | 500 | 490.101 | 98 | 90 | 110 |
| Copper | 5 | 4.530 | 91 | 80 | 120 | 500 | 473.149 | 95 | 90 | 110 |
| Silver | 0.5 | 0.451 | 90 | 80 | 120 | 500 | 100.715 | 20a | 90 | 110 |
| Potassium | 250 | 245.874 | 98 | 80 | 120 | 50000 | 50599.473 | 101 | 90 | 110 |
| Zinc | 10 | 9.422 | 94 | 80 | 120 | 500 | 477.780 | 96 | 90 | 110 |
| Manganese | 3 | 3.028 | 101 | 80 | 120 | 500 | 495.492 | 99 | 90 | 110 |
| Molybdenum | 1 | 0.975 | 98 | 80 | 120 | 500 | 501.185 | 100 | 90 | 110 |
| Sodium | 250 | 223.623 | 89 | 80 | 120 | 50000 | 50374.707 | 101 | 90 | 110 |
| Nickel | 1.5 | 1.385 | 92 | 80 | 120 | 500 | 489.729 | 98 | 90 | 110 |
| Lead | 1.5 | 1.409 | 94 | 80 | 120 | 500 | 471.670 | 94 | 90 | 110 |
| Antimony | 1.5 | 1.404 | 94 | 80 | 120 | 500 | 495.026 | 99 | 90 | 110 |
| Selenium | 5 | 5.105 | 102 | 80 | 120 | 2500 | 2471.062 | 99 | 90 | 110 |
| Thallium | 1 | 1.160 | 116 | 80 | 120 | 500 | 478.999 | 96 | 90 | 110 |
| Vanadium | 1 | 0.923 | 92 | 80 | 120 | 500 | 500.832 | 100 | 90 | 110 |
| Iron | 150 | 157.752 | 105 | 80 | 120 | 50000 | 50127.163 | 100 | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/23/21
Data File: A092321BNEW
Prep Batch: 94429
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-357840-9 | Rec | CCV V-357844-18 | Rec | CCV V-357844-30 | Rec | CCV V-357844-42 | Rec | CCV V-357844-48 | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50/50 | 51.66800 | 103 | 50.90500 | 102 | 50.68300 | 101 | 50.12400 | 100 | 49.86100 | 100 | | | |
| Arsenic | 50/50 | 51.98200 | 104 | 49.83900 | 100 | 50.02600 | 100 | 49.11700 | 98 | 49.64600 | 99 | | | |
| Beryllium | 50/50 | 52.37700 | 105 | 50.41000 | 101 | 49.38900 | 99 | 49.13200 | 98 | 49.89500 | 100 | | | |
| Cadmium | 50/50 | 51.09800 | 102 | 50.32000 | 101 | 50.15600 | 100 | 49.15800 | 98 | 49.32800 | 99 | | | |
| Cobalt | 50/50 | 50.86800 | 102 | 49.05400 | 98 | 49.69700 | 99 | 49.13000 | 98 | 49.47900 | 99 | | | |
| Lead | 50/50 | 51.51700 | 103 | 51.42500 | 103 | 50.12900 | 100 | 50.38500 | 101 | 50.27800 | 101 | | | |
| Selenium | 50/250 | 52.34800 | 105 | 245.72100 | 98 | 252.28700 | 101 | 247.85800 | 99 | 247.89600 | 99 | | | |
| Thallium | 50/50 | 49.93200 | 100 | 50.44100 | 101 | 50.06700 | 100 | 49.82500 | 100 | 49.94300 | 100 | | | |

**Notes:** a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## LLQCS/LRS Summary)

Date Analyzed: 09/23/21
Data File: A092321BNEW
Prep Batch: 94429
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-357848 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-357843 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Magnesium | 250 | 235.157 | 94 | 80 | 120 | 50000 | 49970.895 | 100 | 90 | 110 |
| Aluminum | 100 | 98.270 | 98 | 80 | 120 | 15000 | 15233.467 | 102 | 90 | 110 |
| Arsenic | 1 | 0.944 | 94 | 80 | 120 | 500 | 506.542 | 101 | 90 | 110 |
| Barium | 2.5 | 2.361 | 94 | 80 | 120 | 500 | 484.945 | 97 | 90 | 110 |
| Beryllium | 0.5 | 0.507 | 101 | 80 | 120 | 500 | 498.437 | 100 | 90 | 110 |
| Calcium | 250 | 235.771 | 94 | 80 | 120 | 50000 | 51924.406 | 104 | 90 | 110 |
| Cadmium | 1 | 0.965 | 96 | 80 | 120 | 500 | 494.693 | 99 | 90 | 110 |
| Cobalt | 1 | 0.952 | 95 | 80 | 120 | 500 | 490.078 | 98 | 90 | 110 |
| Chromium | 1 | 0.934 | 93 | 80 | 120 | 500 | 494.590 | 99 | 90 | 110 |
| Copper | 5 | 4.683 | 94 | 80 | 120 | 500 | 483.043 | 97 | 90 | 110 |
| Silver | 0.5 | 0.409 | 82 | 80 | 120 | 500 | 106.831 | 21 a | 90 | 110 |
| Potassium | 250 | 238.722 | 95 | 80 | 120 | 50000 | 50580.932 | 101 | 90 | 110 |
| Zinc | 10 | 9.702 | 97 | 80 | 120 | 500 | 486.998 | 97 | 90 | 110 |
| Manganese | 3 | 2.967 | 99 | 80 | 120 | 500 | 498.242 | 100 | 90 | 110 |
| Molybdenum | 1 | 0.991 | 99 | 80 | 120 | 500 | 494.552 | 99 | 90 | 110 |
| Sodium | 250 | 188.629 | 75 a | 80 | 120 | 50000 | 48055.470 | 96 | 90 | 110 |
| Nickel | 1.5 | 1.466 | 98 | 80 | 120 | 500 | 496.267 | 99 | 90 | 110 |
| Lead | 1.5 | 1.401 | 93 | 80 | 120 | 500 | 478.174 | 96 | 90 | 110 |
| Antimony | 1.5 | 1.514 | 101 | 80 | 120 | 500 | 495.953 | 99 | 90 | 110 |
| Selenium | 5 | 5.179 | 104 | 80 | 120 | 2500 | 2470.702 | 99 | 90 | 110 |
| Thallium | 1 | 1.165 | 116 | 80 | 120 | 500 | 483.455 | 97 | 90 | 110 |
| Vanadium | 1 | 0.936 | 94 | 80 | 120 | 500 | 506.445 | 101 | 90 | 110 |
| Iron | 150 | 150.683 | 100 | 80 | 120 | 50000 | 50185.934 | 100 | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/24/21
Data File: A092421BNEW
Prep Batch: 94428
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-357840-9 | Rec | CCV V-357844-18 | Rec | CCV V-357844-30 | Rec | CCV V-357844-42 | Rec | CCV V-357844-50 | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 50/50 | 51.84800 | 104 | 50.98100 | 102 | 50.70600 | 101 | 50.60200 | 101 | 50.78900 | 102 | | | | |
| Arsenic | 50/50 | 51.64300 | 103 | 50.11700 | 100 | 50.44800 | 101 | 49.38700 | 99 | 48.92200 | 98 | | | | |
| Beryllium | 50/50 | 52.18800 | 104 | 48.55900 | 97 | 47.34500 | 95 | 49.86000 | 100 | 51.84300 | 104 | | | | |
| Cadmium | 50/50 | 51.27900 | 103 | 50.20600 | 100 | 49.79200 | 100 | 49.65100 | 99 | 49.59500 | 99 | | | | |
| Cobalt | 50/50 | 51.99200 | 104 | 51.01500 | 102 | 51.23400 | 102 | 51.05400 | 102 | 50.28000 | 101 | | | | |
| Lead | 50/50 | 51.40000 | 103 | 50.87400 | 102 | 50.10500 | 100 | 51.05300 | 102 | 51.32200 | 103 | | | | |
| Selenium | 50/250 | 52.41100 | 105 | 250.39900 | 100 | 255.68300 | 102 | 246.60600 | 99 | 245.95900 | 98 | | | | |
| Thallium | 50/50 | 48.55900 | 97 | 48.50700 | 97 | 47.94800 | 96 | 49.14300 | 98 | 49.16600 | 98 | | | | |

**Notes:** a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## LLQCS/LRS Summary)

Date Analyzed: 09/24/21
Data File: A092421BNEW
Prep Batch: 94428
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-357848 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-357843 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Magnesium | 250 | 241.360 | 97 | 80 | 120 | 50000 | 50354.001 | 101 | 90 | 110 |
| Aluminum | 100 | 101.615 | 102 | 80 | 120 | 15000 | 15106.322 | 101 | 90 | 110 |
| Arsenic | 1 | 1.019 | 102 | 80 | 120 | 500 | 523.707 | 105 | 90 | 110 |
| Barium | 2.5 | 2.795 | 112 | 80 | 120 | 500 | 492.474 | 98 | 90 | 110 |
| Beryllium | 0.5 | 0.534 | 107 | 80 | 120 | 500 | 466.990 | 93 | 90 | 110 |
| Calcium | 250 | 240.626 | 96 | 80 | 120 | 50000 | 51738.873 | 103 | 90 | 110 |
| Cadmium | 1 | 0.996 | 100 | 80 | 120 | 500 | 501.866 | 100 | 90 | 110 |
| Cobalt | 1 | 0.970 | 97 | 80 | 120 | 500 | 493.439 | 99 | 90 | 110 |
| Chromium | 1 | 0.943 | 94 | 80 | 120 | 500 | 499.116 | 100 | 90 | 110 |
| Copper | 5 | 18.854 | 377 a | 80 | 120 | 500 | 469.239 | 94 | 90 | 110 |
| Silver | 0.5 | 0.519 | 104 | 80 | 120 | 500 | 107.823 | 22 a | 90 | 110 |
| Potassium | 250 | 243.507 | 97 | 80 | 120 | 50000 | 51855.174 | 104 | 90 | 110 |
| Zinc | 10 | 10.037 | 100 | 80 | 120 | 500 | 492.924 | 99 | 90 | 110 |
| Manganese | 3 | 2.932 | 98 | 80 | 120 | 500 | 499.871 | 100 | 90 | 110 |
| Molybdenum | 1 | 1.072 | 107 | 80 | 120 | 500 | 511.714 | 102 | 90 | 110 |
| Sodium | 250 | 220.898 | 88 | 80 | 120 | 50000 | 50485.766 | 101 | 90 | 110 |
| Nickel | 1.5 | 1.719 | 115 | 80 | 120 | 500 | 490.666 | 98 | 90 | 110 |
| Lead | 1.5 | 1.530 | 102 | 80 | 120 | 500 | 475.311 | 95 | 90 | 110 |
| Antimony | 1.5 | 1.637 | 109 | 80 | 120 | 500 | 493.980 | 99 | 90 | 110 |
| Selenium | 5 | 5.088 | 102 | 80 | 120 | 2500 | 2498.154 | 100 | 90 | 110 |
| Thallium | 1 | 1.162 | 116 | 80 | 120 | 500 | 459.293 | 92 | 90 | 110 |
| Vanadium | 1 | 0.950 | 95 | 80 | 120 | 500 | 504.531 | 101 | 90 | 110 |
| Iron | 150 | 153.381 | 102 | 80 | 120 | 50000 | 49916.642 | 100 | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/28/21
Data File: SW27669B5
Prep Batch: 94428
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-12 | Rec | CCV V-352960-19 | Rec | CCV V-352960-27 | Rec | CCV V-352960-39 | Rec | | Rec | | Rec | | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 5/5 | 4.94812 | 99 | 5.02113 | 100 | 4.96522 | 99 | 4.80727 | 96 | 4.62747 | 93 | | | | | | |
| Potassium | 50/50 | 49.03490 | 98 | 49.60300 | 99 | 47.72410 | 95 | 46.75900 | 94 | 45.57870 | 91 | | | | | | |
| Sodium | 50/50 | 49.29350 | 99 | 49.87190 | 100 | 47.89990 | 96 | 47.40670 | 95 | 46.21970 | 92 | | | | | | |

**Notes:** a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## LLQCS/LRS Summary)

Date Analyzed: 09/28/21
Data File: SW27669B5
Prep Batch: 94427 | 94428
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-352961 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-352964 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Molybdenum | 0.02 | 0.0201820 | 101 | 80 | 120 | 10 | 8.38934 | 84 a | 90 | 110 |
| Boron | 0.2 | 0.205843 | 103 | 80 | 120 | 5 | 3.89438 | 78 a | 90 | 110 |
| Barium | 0.05 | 0.0506100 | 101 | 80 | 120 | 10 | 9.23477 | 92 | 90 | 110 |
| Calcium | 5.0 | 4.87795 | 98 | 80 | 120 | 500 | 435.545 | 87 a | 90 | 110 |
| Cerium | 2 | 0.204172 | 102 | 80 | 120 | 25 | 22.1925 | 89 a | 90 | 110 |
| Copper | 0.05 | 0.0552369 | 110 | 80 | 120 | 10 | 9.83657 | 98 | 90 | 110 |
| Iron | 0.3 | 0.290688 | 97 | 80 | 120 | 200 | 331.201 | 166 a | 90 | 110 |
| Potassium | 5.0 | 5.01258 | 100 | 80 | 120 | 200 | 199.509 | 100 | 90 | 110 |
| Aluminum | 0.2 | 0.187745 | 94 | 80 | 120 | 500 | 461.101 | 92 | 90 | 110 |
| Manganese | 0.04 | 0.0393918 | 98 | 80 | 120 | 10 | 8.57420 | 86 a | 90 | 110 |
| Zinc | 0.05 | 0.0502833 | 101 | 80 | 120 | 10 | 8.17091 | 82 a | 90 | 110 |
| Sodium | 5.0 | 4.56910 | 91 | 80 | 120 | 1000 | 907.641 | 91 | 90 | 110 |
| Nickel | 0.05 | 0.0516387 | 103 | 80 | 120 | 10 | 8.44677 | 84 a | 90 | 110 |
| Selenium | 0.05 | 0.0486259 | 97 | 80 | 120 | 5 | 4.41476 | 88 a | 90 | 110 |
| Silicon | 2 | 0.330266 | 165 a | 80 | 120 | 25 | 23.5591 | 94 | 90 | 110 |
| Tin | 0.05 | 0.0438946 | 88 | 80 | 120 | 10 | 9.21766 | 92 | 90 | 110 |
| Titanium | 0.05 | 0.0498522 | 100 | 80 | 120 | 10 | 9.11359 | 91 | 90 | 110 |
| Vanadium | 0.05 | 0.0454041 | 91 | 80 | 120 | 10 | 7.95784 | 80 a | 90 | 110 |
| Magnesium | 5.0 | 4.95802 | 99 | 80 | 120 | 500 | 443.958 | 89 a | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/28/21
Data File: SW27669A2
Prep Batch: 94427
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-13 | Rec | CCV V-352960-25 | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | .5/.5 | 0.50793 | 102 | 0.51145 | 102 | 0.50667 | 101 | | | | | | |
| Calcium | 50/50 | 50.50740 | 101 | 51.05430 | 102 | 51.70550 | 103 | | | | | | |
| Chromium | .5/.5 | 0.50914 | 102 | 0.51363 | 103 | 0.50950 | 102 | | | | | | |
| Copper | .5/.5 | 0.50739 | 101 | 0.51183 | 102 | 0.50189 | 100 | | | | | | |
| Iron | 5/5 | 5.09813 | 102 | 5.14372 | 103 | 5.10384 | 102 | | | | | | |
| Magnesium | 50/50 | 50.60810 | 101 | 51.24790 | 102 | 52.42310 | 105 | | | | | | |
| Manganese | .5/.5 | 0.51097 | 102 | 0.51486 | 103 | 0.50934 | 102 | | | | | | |
| Nickel | .5/.5 | 0.50694 | 101 | 0.51415 | 103 | 0.51786 | 104 | | | | | | |
| Silver | 0.1/0.1 | 0.10017 | 100 | 0.10123 | 101 | 0.09952 | 100 | | | | | | |
| Vanadium | .5/.5 | 0.50665 | 101 | 0.51057 | 102 | 0.50414 | 101 | | | | | | |
| Zinc | .5/.5 | 0.51080 | 102 | 0.51770 | 104 | 0.53369 | 107 | | | | | | |

**Notes:** a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## LLQCS/LRS Summary)

Date Analyzed: 09/28/21
Data File: SW27669A2
Prep Batch: 94426 | 94427
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-352961 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-352964 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Magnesium | 5.0 | 5.35817 | 107 | 80 | 120 | 500 | 453.807 | 91 | 90 | 110 |
| Aluminum | 0.2 | 0.212903 | 106 | 80 | 120 | 500 | 444.885 | 89 a | 90 | 110 |
| Arsenic | 0.04 | 0.0452109 | 113 | 80 | 120 | 10 | 9.85776 | 99 | 90 | 110 |
| Boron | 0.2 | 0.202837 | 101 | 80 | 120 | 5 | 4.62669 | 93 | 90 | 110 |
| Barium | 0.05 | 0.0514850 | 103 | 80 | 120 | 10 | 9.60421 | 96 | 90 | 110 |
| Beryllium | 0.012 | 0.0127285 | 106 | 80 | 120 | 5 | 4.54108 | 91 | 90 | 110 |
| Calcium | 5.0 | 5.25706 | 105 | 80 | 120 | 500 | 449.108 | 90 | 90 | 110 |
| Cadmium | 0.012 | 0.0124458 | 104 | 80 | 120 | 5 | 5.05944 | 101 | 90 | 110 |
| Cerium | 2 | 0.213930 | 107 | 80 | 120 | 25 | 21.5552 | 86 a | 90 | 110 |
| Cobalt | 0.02 | 0.0215883 | 108 | 80 | 120 | 5 | 4.60502 | 92 | 90 | 110 |
| Chromium | 0.05 | 0.0517042 | 103 | 80 | 120 | 10 | 9.16358 | 92 | 90 | 110 |
| Copper | 0.05 | 0.0497802 | 100 | 80 | 120 | 10 | 9.67812 | 97 | 90 | 110 |
| Silver | 0.02 | 0.0212853 | 106 | 80 | 120 | 1 | 0.980581 | 98 | 90 | 110 |
| Potassium | NA | 7.07878 | | 80 | 120 | 200 | 493.298 | 247 a | 90 | 110 |
| Zinc | 0.05 | 0.0526439 | 105 | 80 | 120 | 10 | 9.31300 | 93 | 90 | 110 |
| Manganese | 0.04 | 0.0417557 | 104 | 80 | 120 | 10 | 9.19931 | 92 | 90 | 110 |
| Molybdenum | 0.02 | 0.0197346 | 99 | 80 | 120 | 10 | 9.19920 | 92 | 90 | 110 |
| Sodium | 5.0 | 5.14443 | 103 | 80 | 120 | 1000 | 1090.12 | 109 | 90 | 110 |
| Nickel | 0.05 | 0.0502411 | 100 | 80 | 120 | 10 | 9.26308 | 93 | 90 | 110 |
| Lead | 0.05 | 0.0434853 | 87 | 80 | 120 | 10 | 9.56612 | 96 | 90 | 110 |
| Antimony | 0.05 | 0.0500727 | 100 | 80 | 120 | 5 | 4.99824 | 100 | 90 | 110 |
| Selenium | 0.05 | 0.0602121 | 120 | 80 | 120 | 5 | 4.94670 | 99 | 90 | 110 |
| Silicon | 2 | 0.346525 | 173 a | 80 | 120 | 25 | 24.7153 | 99 | 90 | 110 |
| Tin | 0.05 | 0.0506923 | 101 | 80 | 120 | 10 | 9.52443 | 95 | 90 | 110 |
| Titanium | 0.05 | 0.0524337 | 105 | 80 | 120 | 10 | 9.37754 | 94 | 90 | 110 |
| Thallium | 0.05 | 0.0545458 | 109 | 80 | 120 | 5 | 4.57491 | 91 | 90 | 110 |
| Vanadium | 0.05 | 0.0515894 | 103 | 80 | 120 | 10 | 9.40061 | 94 | 90 | 110 |
| Iron | 0.3 | 0.310335 | 103 | 80 | 120 | 200 | 179.845 | 90 | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/28/21
Data File: SW27669A5
Prep Batch: 94427
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-12 | Rec | CCV V-352960-24 | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 5/5 | 4.92797 | 99 | 4.92564 | 99 | 4.82913 | 97 | | | | | |
| Potassium | 50/50 | 48.13670 | 96 | 48.70950 | 97 | 49.38210 | 99 | | | | | |
| Sodium | 50/50 | 48.57260 | 97 | 49.55790 | 99 | 51.14000 | 102 | | | | | |

**Notes:** a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
# LLQCS/LRS Summary)

Date Analyzed: 09/28/21
Data File: SW27669A5
Prep Batch: 94427
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-352961 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-352964 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Molybdenum | 0.02 | 0.0246456 | 123 a | 80 | 120 | 10 | 9.19925 | 92 | 90 | 110 |
| Boron | 0.2 | 0.209489 | 105 | 80 | 120 | 5 | 4.13143 | 83 a | 90 | 110 |
| Barium | 0.05 | 0.0540933 | 108 | 80 | 120 | 10 | 9.87713 | 99 | 90 | 110 |
| Calcium | 5.0 | 5.28033 | 106 | 80 | 120 | 500 | 469.715 | 94 | 90 | 110 |
| Cerium | 2 | 0.215924 | 108 | 80 | 120 | 25 | 23.9297 | 96 | 90 | 110 |
| Copper | 0.05 | 0.0604834 | 121 a | 80 | 120 | 10 | 10.3385 | 103 | 90 | 110 |
| Iron | 0.3 | 0.327783 | 109 | 80 | 120 | 200 | 362.623 | 181 a | 90 | 110 |
| Potassium | 5.0 | 5.48545 | 110 | 80 | 120 | 200 | 213.087 | 107 | 90 | 110 |
| Aluminum | 0.2 | 0.235570 | 118 | 80 | 120 | 500 | 497.350 | 99 | 90 | 110 |
| Manganese | 0.04 | 0.0429627 | 107 | 80 | 120 | 10 | 9.38312 | 94 | 90 | 110 |
| Zinc | 0.05 | 0.0542113 | 108 | 80 | 120 | 10 | 8.84568 | 88 a | 90 | 110 |
| Sodium | 5.0 | 5.33844 | 107 | 80 | 120 | 1000 | 989.703 | 99 | 90 | 110 |
| Nickel | 0.05 | 0.0490899 | 98 | 80 | 120 | 10 | 9.22590 | 92 | 90 | 110 |
| Selenium | 0.05 | 0.0482896 | 97 | 80 | 120 | 5 | 4.99017 | 100 | 90 | 110 |
| Silicon | 2 | 0.362587 | 181 a | 80 | 120 | 25 | 25.4846 | 102 | 90 | 110 |
| Tin | 0.05 | 0.0492771 | 99 | 80 | 120 | 10 | 10.2209 | 102 | 90 | 110 |
| Titanium | 0.05 | 0.0531629 | 106 | 80 | 120 | 10 | 9.69302 | 97 | 90 | 110 |
| Vanadium | 0.05 | 0.0503383 | 101 | 80 | 120 | 10 | 8.64322 | 86 a | 90 | 110 |
| Magnesium | 5.0 | 5.24489 | 105 | 80 | 120 | 500 | 484.019 | 97 | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/28/21
Data File: SW27669B5
Prep Batch: 94427
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-12 | Rec | CCV V-352960-19 | Rec | CCV V-352960-27 | Rec | CCV V-352960-39 | Rec | | Rec | | Rec | | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 5/5 | 4.94812 | 99 | 5.02113 | 100 | 4.96522 | 99 | 4.80727 | 96 | 4.62747 | 93 | | | | | | |
| Potassium | 50/50 | 49.03490 | 98 | 49.60300 | 99 | 47.72410 | 95 | 46.75900 | 94 | 45.57870 | 91 | | | | | | |
| Sodium | 50/50 | 49.29350 | 99 | 49.87190 | 100 | 47.89990 | 96 | 47.40670 | 95 | 46.21970 | 92 | | | | | | |

**Notes:** a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## LLQCS/LRS Summary)

Date Analyzed: 09/28/21
Data File: SW27669B5
Prep Batch: 94427
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-352961 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-352964 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Molybdenum | 0.02 | 0.0201820 | 101 | 80 | 120 | 10 | 8.38934 | 84 a | 90 | 110 |
| Boron | 0.2 | 0.205843 | 103 | 80 | 120 | 5 | 3.89438 | 78 a | 90 | 110 |
| Barium | 0.05 | 0.0506100 | 101 | 80 | 120 | 10 | 9.23477 | 92 | 90 | 110 |
| Calcium | 5.0 | 4.87795 | 98 | 80 | 120 | 500 | 435.545 | 87 a | 90 | 110 |
| Cerium | 2 | 0.204172 | 102 | 80 | 120 | 25 | 22.1925 | 89 a | 90 | 110 |
| Copper | 0.05 | 0.0552369 | 110 | 80 | 120 | 10 | 9.83657 | 98 | 90 | 110 |
| Iron | 0.3 | 0.290688 | 97 | 80 | 120 | 200 | 331.201 | 166 a | 90 | 110 |
| Potassium | 5.0 | 5.01258 | 100 | 80 | 120 | 200 | 199.509 | 100 | 90 | 110 |
| Aluminum | 0.2 | 0.187745 | 94 | 80 | 120 | 500 | 461.101 | 92 | 90 | 110 |
| Manganese | 0.04 | 0.0393918 | 98 | 80 | 120 | 10 | 8.57420 | 86 a | 90 | 110 |
| Zinc | 0.05 | 0.0502833 | 101 | 80 | 120 | 10 | 8.17091 | 82 a | 90 | 110 |
| Sodium | 5.0 | 4.56910 | 91 | 80 | 120 | 1000 | 907.641 | 91 | 90 | 110 |
| Nickel | 0.05 | 0.0516387 | 103 | 80 | 120 | 10 | 8.44677 | 84 a | 90 | 110 |
| Selenium | 0.05 | 0.0486259 | 97 | 80 | 120 | 5 | 4.41476 | 88 a | 90 | 110 |
| Silicon | .2 | 0.330266 | 165 a | 80 | 120 | 25 | 23.5591 | 94 | 90 | 110 |
| Tin | 0.05 | 0.0438946 | 88 | 80 | 120 | 10 | 9.21766 | 92 | 90 | 110 |
| Titanium | 0.05 | 0.0498522 | 100 | 80 | 120 | 10 | 9.11359 | 91 | 90 | 110 |
| Vanadium | 0.05 | 0.0454041 | 91 | 80 | 120 | 10 | 7.95784 | 80 a | 90 | 110 |
| Magnesium | 5.0 | 4.95802 | 99 | 80 | 120 | 500 | 443.958 | 89 a | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/29/21
Data File: SW27669C2
Prep Batch: 94427
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-12 | Rec | CCV V-352960-20 | Rec | CCV V-352960-27 | Rec | CCV V-352960-39 | Rec | CCV V-352960-48 | Rec | CCV V-352960-55 | Rec | CCV V-352960-67 | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | .5/.5 | 0.49465 | 99 | 0.49811 | 100 | 0.49227 | 98 | 0.48649 | 97 | 0.48336 | 97 | 0.48576 | 97 | 0.48661 | 97 | 0.47303 | 95 |
| Calcium | 50/50 | 48.87860 | 98 | 49.53360 | 99 | 49.62470 | 99 | 49.01020 | 98 | 48.84710 | 98 | 48.81440 | 98 | 49.90950 | 100 | 47.61700 | 95 |
| Chromium | .5/.5 | 0.49653 | 99 | 0.50074 | 100 | 0.49643 | 99 | 0.49128 | 98 | 0.48868 | 98 | 0.49329 | 99 | 0.49496 | 99 | 0.47353 | 95 |
| Copper | .5/.5 | 0.49686 | 99 | 0.49940 | 100 | 0.49418 | 99 | 0.49220 | 98 | 0.49205 | 98 | 0.49560 | 99 | 0.48759 | 98 | 0.47718 | 95 |
| Iron | 5/5 | 4.95655 | 99 | 5.00956 | 100 | 4.95421 | 99 | 4.89549 | 98 | 4.85639 | 97 | 4.87526 | 98 | 4.90525 | 98 | 4.65014 | 93 |
| Magnesium | 50/50 | 49.30610 | 99 | 50.00870 | 100 | 50.14920 | 100 | 49.53010 | 99 | 49.43820 | 99 | 49.32290 | 99 | 51.06580 | 102 | 47.40030 | 95 |
| Manganese | .5/.5 | 0.49534 | 99 | 0.49970 | 100 | 0.49466 | 99 | 0.48913 | 98 | 0.48568 | 97 | 0.48794 | 98 | 0.49111 | 98 | 0.46828 | 94 |
| Nickel | .5/.5 | 0.49496 | 99 | 0.50209 | 100 | 0.49880 | 100 | 0.49471 | 99 | 0.49584 | 99 | 0.49626 | 99 | 0.51411 | 103 | 0.47634 | 95 |
| Silver | 0.1/0.1 | 0.09809 | 98 | 0.09868 | 99 | 0.09903 | 99 | 0.09796 | 98 | 0.09724 | 97 | 0.09846 | 98 | 0.09965 | 100 | 0.09529 | 95 |
| Vanadium | .5/.5 | 0.49252 | 99 | 0.49705 | 99 | 0.49267 | 99 | 0.48719 | 97 | 0.48332 | 97 | 0.48686 | 97 | 0.49069 | 98 | 0.47050 | 94 |
| Zinc | .5/.5 | 0.49067 | 98 | 0.49452 | 99 | 0.49158 | 98 | 0.48540 | 97 | 0.48574 | 97 | 0.48612 | 97 | 0.50885 | 102 | 0.46645 | 93 |

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-75 | Rec | CCV V-352960-87 | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | .5/.5 | 0.49465 | 99 | 0.48397 | 97 | 0.48835 | 98 | | | | | |
| Calcium | 50/50 | 48.87860 | 98 | 48.67360 | 97 | 49.23520 | 98 | | | | | |
| Chromium | .5/.5 | 0.49653 | 99 | 0.49011 | 98 | 0.49612 | 99 | | | | | |
| Copper | .5/.5 | 0.49686 | 99 | 0.49220 | 98 | 0.49889 | 100 | | | | | |
| Iron | 5/5 | 4.95655 | 99 | 4.81591 | 96 | 4.88183 | 98 | | | | | |
| Magnesium | 50/50 | 49.30610 | 99 | 48.46550 | 97 | 49.00930 | 98 | | | | | |
| Manganese | .5/.5 | 0.49534 | 99 | 0.48423 | 97 | 0.48966 | 98 | | | | | |
| Nickel | .5/.5 | 0.49496 | 99 | 0.48851 | 98 | 0.49262 | 99 | | | | | |
| Silver | .5/.5 | 0.09809 | 98 | 0.09809 | 98 | 0.09954 | 100 | | | | | |
| Vanadium | .5/.5 | 0.49252 | 99 | 0.48744 | 97 | 0.49271 | 99 | | | | | |
| Zinc | .5/.5 | 0.49067 | 98 | 0.47952 | 96 | 0.48197 | 96 | | | | | |

**Notes:** a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## LLQCS/LRS Summary)

Date Analyzed: 09/29/21
Data File: SW27669C2
Prep Batch: 94427
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-352961 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-352964 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Magnesium | 5.0 | 5.33926 | 107 | 80 | 120 | 500 | 482.986 | 97 | 90 | 110 |
| Aluminum | 0.2 | 0.220935 | 110 | 80 | 120 | 500 | 473.949 | 95 | 90 | 110 |
| Arsenic | 0.04 | 0.0459839 | 115 | 80 | 120 | 10 | 10.3360 | 103 | 90 | 110 |
| Boron | 0.2 | 0.195809 | 98 | 80 | 120 | 5 | 4.35022 | 87 a | 90 | 110 |
| Barium | 0.05 | 0.0515617 | 103 | 80 | 120 | 10 | 10.1014 | 101 | 90 | 110 |
| Beryllium | 0.012 | 0.0153742 | 128 a | 80 | 120 | 5 | 4.77343 | 95 | 90 | 110 |
| Calcium | 5.0 | 5.33164 | 107 | 80 | 120 | 500 | 475.539 | 95 | 90 | 110 |
| Cadmium | 0.012 | 0.0159531 | 133 a | 80 | 120 | 5 | 5.35613 | 107 | 90 | 110 |
| Cerium | 2 | 0.209224 | 105 | 80 | 120 | 25 | 20.2917 | 81 a | 90 | 110 |
| Cobalt | 0.02 | 0.0222490 | 111 | 80 | 120 | 5 | 4.89516 | 98 | 90 | 110 |
| Chromium | 0.05 | 0.0520079 | 104 | 80 | 120 | 10 | 9.70872 | 97 | 90 | 110 |
| Copper | 0.05 | 0.0526010 | 105 | 80 | 120 | 10 | 10.2529 | 103 | 90 | 110 |
| Silver | 0.02 | 0.0203733 | 102 | 80 | 120 | 1 | 1.04557 | 105 | 90 | 110 |
| Potassium | NA | 7.08093 | | 80 | 120 | 200 | 484.949 | 242 a | 90 | 110 |
| Zinc | 0.05 | 0.0514531 | 103 | 80 | 120 | 10 | 9.76960 | 98 | 90 | 110 |
| Manganese | 0.04 | 0.0420157 | 105 | 80 | 120 | 10 | 9.68682 | 97 | 90 | 110 |
| Molybdenum | 0.02 | 0.0223953 | 112 | 80 | 120 | 10 | 9.77826 | 98 | 90 | 110 |
| Sodium | 5.0 | 5.28354 | 106 | 80 | 120 | 1000 | 1157.80 | 116 a | 90 | 110 |
| Nickel | 0.05 | 0.0538860 | 108 | 80 | 120 | 10 | 9.55190 | 96 | 90 | 110 |
| Lead | 0.05 | 0.0514156 | 103 | 80 | 120 | 10 | 9.96781 | 100 | 90 | 110 |
| Antimony | 0.05 | 0.0506204 | 101 | 80 | 120 | 5 | 5.18515 | 104 | 90 | 110 |
| Selenium | 0.05 | 0.0629124 | 126 a | 80 | 120 | 5 | 5.04212 | 101 | 90 | 110 |
| Silicon | 2 | 0.358236 | 179 a | 80 | 120 | 25 | 23.4044 | 94 | 90 | 110 |
| Tin | 0.05 | 0.0491946 | 98 | 80 | 120 | 10 | 9.85764 | 99 | 90 | 110 |
| Titanium | 0.05 | 0.0526358 | 105 | 80 | 120 | 10 | 9.91008 | 99 | 90 | 110 |
| Thallium | 0.05 | 0.0537730 | 108 | 80 | 120 | 5 | 4.82866 | 97 | 90 | 110 |
| Vanadium | 0.05 | 0.0516706 | 103 | 80 | 120 | 10 | 9.98262 | 100 | 90 | 110 |
| Iron | 0.3 | 0.319208 | 106 | 80 | 120 | 200 | 191.477 | 96 | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/29/21
Data File: SW27669E5
Prep Batch: 94427
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-12 | Rec | CCV V-352960-24 | Rec | CCV V-352960-32 | Rec | CCV V-352960-39 | Rec | CCV V-352960-48 | Rec | CCV V-352960-57 | Rec | CCV V-352960-66 | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sodium | 50/50 | 49.19290 | 98 | 48.09340 | 96 | 48.44810 | 97 | 48.64950 | 97 | 48.67370 | 97 | 49.22110 | 98 | 49.00660 | 98 | 49.11340 | 98 |

**Notes:**
a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:**
ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## LLQCS/LRS Summary)

Date Analyzed: 09/29/21
Data File: SW27669E5
Prep Batch: 94429 | 94427
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-352961 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-352964 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Molybdenum | 0.02 | 0.0230664 | 115 | 80 | 120 | 10 | 8.76273 | 88 a | 90 | 110 |
| Boron | 0.2 | 0.196948 | 98 | 80 | 120 | 5 | 3.97040 | 79 a | 90 | 110 |
| Barium | 0.05 | 0.0528993 | 106 | 80 | 120 | 10 | 9.57744 | 96 | 90 | 110 |
| Calcium | 5.0 | 4.90790 | 98 | 80 | 120 | 500 | 451.975 | 90 | 90 | 110 |
| Cerium | 2 | 0.189913 | 95 | 80 | 120 | 25 | 22.5378 | 90 | 90 | 110 |
| Copper | 0.05 | 0.0583877 | 117 | 80 | 120 | 10 | 10.0416 | 100 | 90 | 110 |
| Iron | 0.3 | 0.293416 | 98 | 80 | 120 | 200 | 343.317 | 172 a | 90 | 110 |
| Potassium | 5.0 | 4.89312 | 98 | 80 | 120 | 200 | 204.065 | 102 | 90 | 110 |
| Aluminum | 0.2 | 0.220226 | 110 | 80 | 120 | 500 | 472.093 | 94 | 90 | 110 |
| Manganese | 0.04 | 0.0386571 | 97 | 80 | 120 | 10 | 8.77511 | 88 a | 90 | 110 |
| Zinc | 0.05 | 0.0511050 | 102 | 80 | 120 | 10 | 8.50457 | 85 a | 90 | 110 |
| Sodium | 5.0 | 4.75856 | 95 | 80 | 120 | 1000 | 933.362 | 93 | 90 | 110 |
| Nickel | 0.05 | 0.0529806 | 106 | 80 | 120 | 10 | 8.82554 | 88 a | 90 | 110 |
| Selenium | 0.05 | 0.0347328 | 69 a | 80 | 120 | 5 | 4.70625 | 94 | 90 | 110 |
| Silicon | .2 | 0.256834 | 128 a | 80 | 120 | 25 | 24.2006 | 97 | 90 | 110 |
| Tin | 0.05 | 0.0534297 | 107 | 80 | 120 | 10 | 9.67150 | 97 | 90 | 110 |
| Titanium | 0.05 | 0.0509178 | 102 | 80 | 120 | 10 | 9.43269 | 94 | 90 | 110 |
| Vanadium | 0.05 | 0.0442553 | 89 | 80 | 120 | 10 | 8.17402 | 82 a | 90 | 110 |
| Magnesium | 5.0 | 5.03136 | 101 | 80 | 120 | 500 | 459.790 | 92 | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/29/21
Data File: SW27669C2
Prep Batch: 94429
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-12 | Rec | CCV V-352960-20 | Rec | CCV V-352960-27 | Rec | CCV V-352960-39 | Rec | CCV V-352960-48 | Rec | CCV V-352960-55 | Rec | CCV V-352960-67 | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | .5/.5 | 0.49465 | 99 | 0.49811 | 100 | 0.49227 | 98 | 0.48649 | 97 | 0.48336 | 97 | 0.48576 | 97 | 0.48661 | 97 | 0.47303 | 95 |
| Calcium | 50/50 | 48.87860 | 98 | 49.53360 | 99 | 49.62470 | 99 | 49.01020 | 98 | 48.84710 | 98 | 48.81440 | 98 | 49.90950 | 100 | 47.61700 | 95 |
| Chromium | .5/.5 | 0.49653 | 99 | 0.50074 | 100 | 0.49643 | 99 | 0.49128 | 98 | 0.48868 | 98 | 0.49329 | 99 | 0.49496 | 99 | 0.47353 | 95 |
| Copper | .5/.5 | 0.49686 | 99 | 0.49940 | 100 | 0.49418 | 99 | 0.49220 | 98 | 0.49205 | 98 | 0.49560 | 99 | 0.48759 | 98 | 0.47718 | 95 |
| Iron | 5/5 | 4.95655 | 99 | 5.00956 | 100 | 4.95421 | 99 | 4.89549 | 98 | 4.85639 | 97 | 4.87526 | 98 | 4.90525 | 98 | 4.65014 | 93 |
| Magnesium | 50/50 | 49.30610 | 99 | 50.00870 | 100 | 50.14920 | 100 | 49.53010 | 99 | 49.43820 | 99 | 49.32290 | 99 | 51.06580 | 102 | 47.40030 | 95 |
| Manganese | .5/.5 | 0.49534 | 99 | 0.49970 | 100 | 0.49466 | 99 | 0.48913 | 98 | 0.48568 | 97 | 0.48794 | 98 | 0.49111 | 98 | 0.46828 | 94 |
| Nickel | .5/.5 | 0.49496 | 99 | 0.50209 | 100 | 0.49880 | 100 | 0.49471 | 99 | 0.49584 | 99 | 0.49626 | 99 | 0.51411 | 103 | 0.47634 | 95 |
| Silver | 0.1/0.1 | 0.09809 | 98 | 0.09868 | 99 | 0.09903 | 99 | 0.09796 | 98 | 0.09724 | 97 | 0.09846 | 98 | 0.09965 | 100 | 0.09529 | 95 |
| Vanadium | .5/.5 | 0.49252 | 99 | 0.49705 | 99 | 0.49267 | 99 | 0.48719 | 97 | 0.48332 | 97 | 0.48686 | 97 | 0.49069 | 98 | 0.47050 | 94 |
| Zinc | .5/.5 | 0.49067 | 98 | 0.49452 | 99 | 0.49158 | 98 | 0.48540 | 97 | 0.48574 | 97 | 0.48612 | 97 | 0.50885 | 102 | 0.46645 | 93 |

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-75 | Rec | CCV V-352960-87 | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | .5/.5 | 0.49465 | 99 | 0.48397 | 97 | 0.48835 | 98 | | | | | | |
| Calcium | 50/50 | 48.87860 | 98 | 48.67360 | 97 | 49.23520 | 98 | | | | | | |
| Chromium | .5/.5 | 0.49653 | 99 | 0.49011 | 98 | 0.49612 | 99 | | | | | | |
| Copper | .5/.5 | 0.49686 | 99 | 0.49220 | 98 | 0.49889 | 100 | | | | | | |
| Iron | 5/5 | 4.95655 | 99 | 4.81591 | 96 | 4.88183 | 98 | | | | | | |
| Magnesium | 50/50 | 49.30610 | 99 | 48.46550 | 97 | 49.00930 | 98 | | | | | | |
| Manganese | .5/.5 | 0.49534 | 99 | 0.48423 | 97 | 0.48966 | 98 | | | | | | |
| Nickel | .5/.5 | 0.49496 | 99 | 0.48851 | 98 | 0.49262 | 99 | | | | | | |
| Silver | .5/.5 | 0.09809 | 98 | 0.09809 | 98 | 0.09954 | 100 | | | | | | |
| Vanadium | .5/.5 | 0.49252 | 99 | 0.48744 | 97 | 0.49271 | 99 | | | | | | |
| Zinc | .5/.5 | 0.49067 | 98 | 0.47952 | 96 | 0.48197 | 96 | | | | | | |

**Notes:** a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## LLQCS/LRS Summary)

Date Analyzed: 09/29/21
Data File: SW27669C2
Prep Batch: 94427 94429
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-352961 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-352964 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Magnesium | 5.0 | 5.33926 | 107 | 80 | 120 | 500 | 482.986 | 97 | 90 | 110 |
| Aluminum | 0.2 | 0.220935 | 110 | 80 | 120 | 500 | 473.949 | 95 | 90 | 110 |
| Arsenic | 0.04 | 0.0459839 | 115 | 80 | 120 | 10 | 10.3360 | 103 | 90 | 110 |
| Boron | 0.2 | 0.195809 | 98 | 80 | 120 | 5 | 4.35022 | 87 a | 90 | 110 |
| Barium | 0.05 | 0.0515617 | 103 | 80 | 120 | 10 | 10.1014 | 101 | 90 | 110 |
| Beryllium | 0.012 | 0.0153742 | 128 a | 80 | 120 | 5 | 4.77343 | 95 | 90 | 110 |
| Calcium | 5.0 | 5.33164 | 107 | 80 | 120 | 500 | 475.539 | 95 | 90 | 110 |
| Cadmium | 0.012 | 0.0159531 | 133 a | 80 | 120 | 5 | 5.35613 | 107 | 90 | 110 |
| Cerium | 2 | 0.209224 | 105 | 80 | 120 | 25 | 20.2917 | 81 a | 90 | 110 |
| Cobalt | 0.02 | 0.0222490 | 111 | 80 | 120 | 5 | 4.89516 | 98 | 90 | 110 |
| Chromium | 0.05 | 0.0520079 | 104 | 80 | 120 | 10 | 9.70872 | 97 | 90 | 110 |
| Copper | 0.05 | 0.0526010 | 105 | 80 | 120 | 10 | 10.2529 | 103 | 90 | 110 |
| Silver | 0.02 | 0.0203733 | 102 | 80 | 120 | 1 | 1.04557 | 105 | 90 | 110 |
| Potassium | NA | 7.08093 | | 80 | 120 | 200 | 484.949 | 242 a | 90 | 110 |
| Zinc | 0.05 | 0.0514531 | 103 | 80 | 120 | 10 | 9.76960 | 98 | 90 | 110 |
| Manganese | 0.04 | 0.0420157 | 105 | 80 | 120 | 10 | 9.68682 | 97 | 90 | 110 |
| Molybdenum | 0.02 | 0.0223953 | 112 | 80 | 120 | 10 | 9.77826 | 98 | 90 | 110 |
| Sodium | 5.0 | 5.28354 | 106 | 80 | 120 | 1000 | 1157.80 | 116 a | 90 | 110 |
| Nickel | 0.05 | 0.0538860 | 108 | 80 | 120 | 10 | 9.55190 | 96 | 90 | 110 |
| Lead | 0.05 | 0.0514156 | 103 | 80 | 120 | 10 | 9.96781 | 100 | 90 | 110 |
| Antimony | 0.05 | 0.0506204 | 101 | 80 | 120 | 5 | 5.18515 | 104 | 90 | 110 |
| Selenium | 0.05 | 0.0629124 | 126 a | 80 | 120 | 5 | 5.04212 | 101 | 90 | 110 |
| Silicon | 2 | 0.358236 | 179 a | 80 | 120 | 25 | 23.4044 | 94 | 90 | 110 |
| Tin | 0.05 | 0.0491946 | 98 | 80 | 120 | 10 | 9.85764 | 99 | 90 | 110 |
| Titanium | 0.05 | 0.0526358 | 105 | 80 | 120 | 10 | 9.91008 | 99 | 90 | 110 |
| Thallium | 0.05 | 0.0537730 | 108 | 80 | 120 | 5 | 4.82866 | 97 | 90 | 110 |
| Vanadium | 0.05 | 0.0516706 | 103 | 80 | 120 | 10 | 9.98262 | 100 | 90 | 110 |
| Iron | 0.3 | 0.319208 | 106 | 80 | 120 | 200 | 191.477 | 96 | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/29/21
Data File: SW27669E5
Prep Batch: 94429
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-12 | Rec | CCV V-352960-24 | Rec | CCV V-352960-32 | Rec | CCV V-352960-39 | Rec | CCV V-352960-48 | Rec | CCV V-352960-57 | Rec | CCV V-352960-66 | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 5/5 | 4.96207 | 99 | 4.94810 | 99 | 4.94393 | 99 | 4.98227 | 100 | 4.96273 | 99 | 4.92289 | 98 | 4.95540 | 99 | 4.91324 | 98 |
| Potassium | 50/50 | 48.73680 | 97 | 48.18240 | 96 | 48.08680 | 96 | 48.25620 | 97 | 48.18840 | 96 | 48.53440 | 97 | 48.36490 | 97 | 48.43230 | 97 |
| Sodium | 50/50 | 49.19290 | 98 | 48.09340 | 96 | 48.44810 | 97 | 48.64950 | 97 | 48.67370 | 97 | 49.22110 | 98 | 49.00660 | 98 | 49.11340 | 98 |

**Notes:** a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## LLQCS/LRS Summary)

Date Analyzed: 09/29/21
Data File: SW27669E5
Prep Batch: 94429
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-352961 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-352964 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Molybdenum | 0.02 | 0.0230664 | 115 | 80 | 120 | 10 | 8.76273 | 88 a | 90 | 110 |
| Boron | 0.2 | 0.196948 | 98 | 80 | 120 | 5 | 3.97040 | 79 a | 90 | 110 |
| Barium | 0.05 | 0.0528993 | 106 | 80 | 120 | 10 | 9.57744 | 96 | 90 | 110 |
| Calcium | 5.0 | 4.90790 | 98 | 80 | 120 | 500 | 451.975 | 90 | 90 | 110 |
| Cerium | 2 | 0.189913 | 95 | 80 | 120 | 25 | 22.5378 | 90 | 90 | 110 |
| Copper | 0.05 | 0.0583877 | 117 | 80 | 120 | 10 | 10.0416 | 100 | 90 | 110 |
| Iron | 0.3 | 0.293416 | 98 | 80 | 120 | 200 | 343.317 | 172 a | 90 | 110 |
| Potassium | 5.0 | 4.89312 | 98 | 80 | 120 | 200 | 204.065 | 102 | 90 | 110 |
| Aluminum | 0.2 | 0.220226 | 110 | 80 | 120 | 500 | 472.093 | 94 | 90 | 110 |
| Manganese | 0.04 | 0.0386571 | 97 | 80 | 120 | 10 | 8.77511 | 88 a | 90 | 110 |
| Zinc | 0.05 | 0.0511050 | 102 | 80 | 120 | 10 | 8.50457 | 85 a | 90 | 110 |
| Sodium | 5.0 | 4.75856 | 95 | 80 | 120 | 1000 | 933.362 | 93 | 90 | 110 |
| Nickel | 0.05 | 0.0529806 | 106 | 80 | 120 | 10 | 8.82554 | 88 a | 90 | 110 |
| Selenium | 0.05 | 0.0347328 | 69 a | 80 | 120 | 5 | 4.70625 | 94 | 90 | 110 |
| Silicon | 2 | 0.256834 | 128 a | 80 | 120 | 25 | 24.2006 | 97 | 90 | 110 |
| Tin | 0.05 | 0.0534297 | 107 | 80 | 120 | 10 | 9.67150 | 97 | 90 | 110 |
| Titanium | 0.05 | 0.0509178 | 102 | 80 | 120 | 10 | 9.43269 | 94 | 90 | 110 |
| Vanadium | 0.05 | 0.0442553 | 89 | 80 | 120 | 10 | 8.17402 | 82 a | 90 | 110 |
| Magnesium | 5.0 | 5.03136 | 101 | 80 | 120 | 500 | 459.790 | 92 | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/29/21
Data File: SW27669C2
Prep Batch: 94428
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-12 | Rec | CCV V-352960-20 | Rec | CCV V-352960-27 | Rec | CCV V-352960-39 | Rec | CCV V-352960-48 | Rec | CCV V-352960-55 | Rec | CCV V-352960-67 | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | .5/.5 | 0.49465 | 99 | 0.49811 | 100 | 0.49227 | 98 | 0.48649 | 97 | 0.48336 | 97 | 0.48576 | 97 | 0.48661 | 97 | 0.47303 | 95 |
| Calcium | 50/50 | 48.87860 | 98 | 49.53360 | 99 | 49.62470 | 99 | 49.01020 | 98 | 48.84710 | 98 | 48.81440 | 98 | 49.90950 | 100 | 47.61700 | 95 |
| Chromium | .5/.5 | 0.49653 | 99 | 0.50074 | 100 | 0.49643 | 99 | 0.49128 | 98 | 0.48868 | 98 | 0.49329 | 99 | 0.49496 | 99 | 0.47353 | 95 |
| Copper | .5/.5 | 0.49686 | 99 | 0.49940 | 100 | 0.49418 | 99 | 0.49220 | 98 | 0.49205 | 98 | 0.49560 | 99 | 0.48759 | 98 | 0.47718 | 95 |
| Iron | 5/5 | 4.95655 | 99 | 5.00956 | 100 | 4.95421 | 99 | 4.89549 | 98 | 4.85639 | 97 | 4.87526 | 98 | 4.90525 | 98 | 4.65014 | 93 |
| Magnesium | 50/50 | 49.30610 | 99 | 50.00870 | 100 | 50.14920 | 100 | 49.53010 | 99 | 49.43820 | 99 | 49.32290 | 99 | 51.06580 | 102 | 47.40030 | 95 |
| Manganese | .5/.5 | 0.49534 | 99 | 0.49970 | 100 | 0.49466 | 99 | 0.48913 | 98 | 0.48568 | 97 | 0.48794 | 98 | 0.49111 | 98 | 0.46828 | 94 |
| Nickel | .5/.5 | 0.49496 | 99 | 0.50209 | 100 | 0.49880 | 100 | 0.49471 | 99 | 0.49584 | 99 | 0.49626 | 99 | 0.51411 | 103 | 0.47634 | 95 |
| Silver | 0.1/0.1 | 0.09809 | 98 | 0.09868 | 99 | 0.09903 | 99 | 0.09796 | 98 | 0.09724 | 97 | 0.09846 | 98 | 0.09965 | 100 | 0.09529 | 95 |
| Vanadium | .5/.5 | 0.49252 | 99 | 0.49705 | 99 | 0.49267 | 99 | 0.48719 | 97 | 0.48332 | 97 | 0.48686 | 97 | 0.49069 | 98 | 0.47050 | 94 |
| Zinc | .5/.5 | 0.49067 | 98 | 0.49452 | 99 | 0.49158 | 98 | 0.48540 | 97 | 0.48574 | 97 | 0.48612 | 97 | 0.50885 | 102 | 0.46645 | 93 |

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-75 | Rec | CCV V-352960-87 | Rec | | Rec | | Rec | | Rec | | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | .5/.5 | 0.49465 | 99 | 0.48397 | 97 | 0.48835 | 98 | | | | | | | | |
| Calcium | 50/50 | 48.87860 | 98 | 48.67360 | 97 | 49.23520 | 98 | | | | | | | | |
| Chromium | .5/.5 | 0.49653 | 99 | 0.49011 | 98 | 0.49612 | 99 | | | | | | | | |
| Copper | .5/.5 | 0.49686 | 99 | 0.49220 | 98 | 0.49889 | 100 | | | | | | | | |
| Iron | 5/5 | 4.95655 | 99 | 4.81591 | 96 | 4.88183 | 98 | | | | | | | | |
| Magnesium | 50/50 | 49.30610 | 99 | 48.46550 | 97 | 49.00930 | 98 | | | | | | | | |
| Manganese | .5/.5 | 0.49534 | 99 | 0.48423 | 97 | 0.48966 | 98 | | | | | | | | |
| Nickel | .5/.5 | 0.49496 | 99 | 0.48851 | 98 | 0.49262 | 99 | | | | | | | | |
| Silver | .5/.5 | 0.09809 | 98 | 0.09809 | 98 | 0.09954 | 100 | | | | | | | | |
| Vanadium | .5/.5 | 0.49252 | 99 | 0.48744 | 97 | 0.49271 | 99 | | | | | | | | |
| Zinc | .5/.5 | 0.49067 | 98 | 0.47952 | 96 | 0.48197 | 96 | | | | | | | | |

**Notes:** a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## LLQCS/LRS Summary)

Date Analyzed: 09/29/21
Data File: SW27669C2
Prep Batch: 94427 | 94428
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-352961 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-352964 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Magnesium | 5.0 | 5.33926 | 107 | 80 | 120 | 500 | 482.986 | 97 | 90 | 110 |
| Aluminum | 0.2 | 0.220935 | 110 | 80 | 120 | 500 | 473.949 | 95 | 90 | 110 |
| Arsenic | 0.04 | 0.0459839 | 115 | 80 | 120 | 10 | 10.3360 | 103 | 90 | 110 |
| Boron | 0.2 | 0.195809 | 98 | 80 | 120 | 5 | 4.35022 | 87 a | 90 | 110 |
| Barium | 0.05 | 0.0515617 | 103 | 80 | 120 | 10 | 10.1014 | 101 | 90 | 110 |
| Beryllium | 0.012 | 0.0153742 | 128 a | 80 | 120 | 5 | 4.77343 | 95 | 90 | 110 |
| Calcium | 5.0 | 5.33164 | 107 | 80 | 120 | 500 | 475.539 | 95 | 90 | 110 |
| Cadmium | 0.012 | 0.0159531 | 133 a | 80 | 120 | 5 | 5.35613 | 107 | 90 | 110 |
| Cerium | .2 | 0.209224 | 105 | 80 | 120 | 25 | 20.2917 | 81 a | 90 | 110 |
| Cobalt | 0.02 | 0.0222490 | 111 | 80 | 120 | 5 | 4.89516 | 98 | 90 | 110 |
| Chromium | 0.05 | 0.0520079 | 104 | 80 | 120 | 10 | 9.70872 | 97 | 90 | 110 |
| Copper | 0.05 | 0.0526010 | 105 | 80 | 120 | 10 | 10.2529 | 103 | 90 | 110 |
| Silver | 0.02 | 0.0203733 | 102 | 80 | 120 | 1 | 1.04557 | 105 | 90 | 110 |
| Potassium | NA | 7.08093 | | 80 | 120 | 200 | 484.949 | 242 a | 90 | 110 |
| Zinc | 0.05 | 0.0514531 | 103 | 80 | 120 | 10 | 9.76960 | 98 | 90 | 110 |
| Manganese | 0.04 | 0.0420157 | 105 | 80 | 120 | 10 | 9.68682 | 97 | 90 | 110 |
| Molybdenum | 0.02 | 0.0223953 | 112 | 80 | 120 | 10 | 9.77826 | 98 | 90 | 110 |
| Sodium | 5.0 | 5.28354 | 106 | 80 | 120 | 1000 | 1157.80 | 116 a | 90 | 110 |
| Nickel | 0.05 | 0.0538860 | 108 | 80 | 120 | 10 | 9.55190 | 96 | 90 | 110 |
| Lead | 0.05 | 0.0514156 | 103 | 80 | 120 | 10 | 9.96781 | 100 | 90 | 110 |
| Antimony | 0.05 | 0.0506204 | 101 | 80 | 120 | 5 | 5.18515 | 104 | 90 | 110 |
| Selenium | 0.05 | 0.0629124 | 126 a | 80 | 120 | 5 | 5.04212 | 101 | 90 | 110 |
| Silicon | 2 | 0.358236 | 179 a | 80 | 120 | 25 | 23.4044 | 94 | 90 | 110 |
| Tin | 0.05 | 0.0491946 | 98 | 80 | 120 | 10 | 9.85764 | 99 | 90 | 110 |
| Titanium | 0.05 | 0.0526358 | 105 | 80 | 120 | 10 | 9.91008 | 99 | 90 | 110 |
| Thallium | 0.05 | 0.0537730 | 108 | 80 | 120 | 5 | 4.82866 | 97 | 90 | 110 |
| Vanadium | 0.05 | 0.0516706 | 103 | 80 | 120 | 10 | 9.98262 | 100 | 90 | 110 |
| Iron | 0.3 | 0.319208 | 106 | 80 | 120 | 200 | 191.477 | 96 | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/28/21
Data File: SW27669C5
Prep Batch: 94428
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-12 | Rec | CCV V-352960-21 | Rec | CCV V-352960-29 | Rec | | Rec | | Rec | | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 5/5 | 5.10190 | 102 | 4.96676 | 99 | 4.85182 | 97 | 4.70344 | 94 | | | | | | |
| Potassium | 50/50 | 49.92990 | 100 | 48.40520 | 97 | 46.68190 | 93 | 45.18540 | 90 | | | | | | |
| Sodium | 50/50 | 50.35970 | 101 | 48.80640 | 98 | 46.97140 | 94 | 45.70330 | 91 | | | | | | |

**Notes:** a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## LLQCS/LRS Summary)

Date Analyzed: 09/28/21
Data File: SW27669C5
Prep Batch: 94428
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-352961 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-352964 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Molybdenum | 0.02 | 0.0178274 | 89 | 80 | 120 | 10 | 8.62942 | 86 a | 90 | 110 |
| Boron | 0.2 | 0.204016 | 102 | 80 | 120 | 5 | 3.94805 | 79 a | 90 | 110 |
| Barium | 0.05 | 0.0470404 | 94 | 80 | 120 | 10 | 9.37341 | 94 | 90 | 110 |
| Calcium | 5.0 | 4.60737 | 92 | 80 | 120 | 500 | 440.730 | 88 a | 90 | 110 |
| Cerium | 2 | 0.208146 | 104 | 80 | 120 | 25 | 22.5427 | 90 | 90 | 110 |
| Copper | 0.05 | 0.0452006 | 90 | 80 | 120 | 10 | 9.76726 | 98 | 90 | 110 |
| Iron | 0.3 | 0.271224 | 90 | 80 | 120 | 200 | 338.449 | 169 a | 90 | 110 |
| Potassium | 5.0 | 4.83179 | 97 | 80 | 120 | 200 | 200.817 | 100 | 90 | 110 |
| Aluminum | 0.2 | 0.185924 | 93 | 80 | 120 | 500 | 465.538 | 93 | 90 | 110 |
| Manganese | 0.04 | 0.0369435 | 92 | 80 | 120 | 10 | 8.81247 | 88 a | 90 | 110 |
| Zinc | 0.05 | 0.0451485 | 90 | 80 | 120 | 10 | 8.46887 | 85 a | 90 | 110 |
| Sodium | 5.0 | 4.65765 | 93 | 80 | 120 | 1000 | 917.576 | 92 | 90 | 110 |
| Nickel | 0.05 | 0.0439848 | 88 | 80 | 120 | 10 | 8.71003 | 87 a | 90 | 110 |
| Selenium | 0.05 | 0.0583042 | 117 | 80 | 120 | 5 | 4.63159 | 93 | 90 | 110 |
| Silicon | 2 | 0.296581 | 148 a | 80 | 120 | 25 | 23.8234 | 95 | 90 | 110 |
| Tin | 0.05 | 0.0439483 | 88 | 80 | 120 | 10 | 9.71502 | 97 | 90 | 110 |
| Titanium | 0.05 | 0.0477486 | 95 | 80 | 120 | 10 | 9.20898 | 92 | 90 | 110 |
| Vanadium | 0.05 | 0.0409343 | 82 | 80 | 120 | 10 | 7.98291 | 80 a | 90 | 110 |
| Magnesium | 5.0 | 4.70479 | 94 | 80 | 120 | 500 | 453.039 | 91 | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/29/21
Data File: SW27669E5
Prep Batch: 94428
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV V-352960-5 | Rec | CCV V-352960-12 | Rec | CCV V-352960-24 | Rec | CCV V-352960-32 | Rec | CCV V-352960-39 | Rec | CCV V-352960-48 | Rec | CCV V-352960-57 | Rec | CCV V-352960-66 | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sodium | 50/50 | 49.19290 | 98 | 48.09340 | 96 | 48.44810 | 97 | 48.64950 | 97 | 48.67370 | 97 | 49.22110 | 98 | 49.00660 | 98 | 49.11340 | 98 |

**Notes:**
a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## LLQCS/LRS Summary)

Date Analyzed: 09/29/21
Data File: SW27669E5
Prep Batch: 94429 | 94428
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

| Analyte | LLQCS Spike Amount | LLICV V-352961 | Recovery | Low Limit | High Limit | LRS Spike Amount | LRS V-352964 | Recovery | Low Limit | High Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Molybdenum | 0.02 | 0.0230664 | 115 | 80 | 120 | 10 | 8.76273 | 88 a | 90 | 110 |
| Boron | 0.2 | 0.196948 | 98 | 80 | 120 | 5 | 3.97040 | 79 a | 90 | 110 |
| Barium | 0.05 | 0.0528993 | 106 | 80 | 120 | 10 | 9.57744 | 96 | 90 | 110 |
| Calcium | 5.0 | 4.90790 | 98 | 80 | 120 | 500 | 451.975 | 90 | 90 | 110 |
| Cerium | 2 | 0.189913 | 95 | 80 | 120 | 25 | 22.5378 | 90 | 90 | 110 |
| Copper | 0.05 | 0.0583877 | 117 | 80 | 120 | 10 | 10.0416 | 100 | 90 | 110 |
| Iron | 0.3 | 0.293416 | 98 | 80 | 120 | 200 | 343.317 | 172 a | 90 | 110 |
| Potassium | 5.0 | 4.89312 | 98 | 80 | 120 | 200 | 204.065 | 102 | 90 | 110 |
| Aluminum | 0.2 | 0.220226 | 110 | 80 | 120 | 500 | 472.093 | 94 | 90 | 110 |
| Manganese | 0.04 | 0.0386571 | 97 | 80 | 120 | 10 | 8.77511 | 88 a | 90 | 110 |
| Zinc | 0.05 | 0.0511050 | 102 | 80 | 120 | 10 | 8.50457 | 85 a | 90 | 110 |
| Sodium | 5.0 | 4.75856 | 95 | 80 | 120 | 1000 | 933.362 | 93 | 90 | 110 |
| Nickel | 0.05 | 0.0529806 | 106 | 80 | 120 | 10 | 8.82554 | 88 a | 90 | 110 |
| Selenium | 0.05 | 0.0347328 | 69 a | 80 | 120 | 5 | 4.70625 | 94 | 90 | 110 |
| Silicon | 2 | 0.256834 | 128 a | 80 | 120 | 25 | 24.2006 | 97 | 90 | 110 |
| Tin | 0.05 | 0.0534297 | 107 | 80 | 120 | 10 | 9.67150 | 97 | 90 | 110 |
| Titanium | 0.05 | 0.0509178 | 102 | 80 | 120 | 10 | 9.43269 | 94 | 90 | 110 |
| Vanadium | 0.05 | 0.0442553 | 89 | 80 | 120 | 10 | 8.17402 | 82 a | 90 | 110 |
| Magnesium | 5.0 | 5.03136 | 101 | 80 | 120 | 500 | 459.790 | 92 | 90 | 110 |

**Notes:** a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/24/21
Data File: H27670SW
Prep Batch: 94428
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| | | ICV (2)-9 | | CCV-21 | | CCV-33 | | CCV-36 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | ICV/CCV Amt | | Rec | | Rec | | Rec | | Rec | | Rec | | Rec | | Rec |
| Mercury | 20/10 | 20.53000 | 103 | 10.52000 | 105 | 10.42000 | 104 | 0.31200 | 3.1 cd | | | | | | |

**Notes:**
a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:**
ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/23/21
Data File: H27671SW
Prep Batch: 94429
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| | ICV (2)-9 | | | CCV-20 | | CCV-31 | | CCV-34 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | ICV/CCV Amt | | Rec | | Rec | | Rec | | Rec | | Rec | | Rec | | Rec | | Rec |
| Mercury | 20/10 | 21.39000 | 107 | 10.82000 | 108 | 10.78000 | 108 | 10.69000 | 107 | | | | | | | | |

**Notes:**
a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:**
ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/28/21
Data File: H27683SW
Prep Batch: 94442
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| | ICV (2)-9 | | CCV-21 | | CCV-33 | | CCV-41 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | ICV/CCV Amt | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
| Mercury | 20/10 | 20.24000 | 101 | 10.14000 | 101 | 10.35000 | 104 | 10.37000 | 104 | | | |

**Notes:** a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:** ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 2
## (ICV/CCV Summary)

Date Analyzed: 09/23/21
Data File: H27669SW
Prep Batch: 94427
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

| Analyte | ICV/CCV Amt | ICV (2)-9 | Rec | CCV-21 | Rec | CCV-32 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 20/10 | 19.92000 | 100 | 9.16400 | 92 | 9.10500 | 91 | | | | | | | |

**Notes:**
a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

**Qc Limits:**
ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/23/21
Data File: A092321ANEW
Prep Batch: 94427
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-357841-11 | CCB V-357841-19 | CCB V-357841-31 | CCB V-357841-43 | CCB V-357841-49 | MB 94427-20 |
|---|---|---|---|---|---|---|
| Antimony | .75U | 1.5U | 1.5U | 1.5U | 1.5U | 1.5U |
| Arsenic | .5U | 1U | 1U | 1U | 1U | 1U |
| Beryllium | .25U | .5U | .5U | .5U | .5U | .5U |
| Cadmium | .5U | 1U | 1U | 1U | 1U | 1U |
| Cobalt | .5U | 1U | 1U | 1U | 1U | 1U |
| Lead | .75U | 1.5U | 1.5U | 1.5U | 1.5U | 1.5U |
| Selenium | 2.5U | 5U | 5U | 5U | 5U | 5U |
| Thallium | .5U | 1U | 1U | 1U | 1U | 1U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/28/21
Data File: SW27669A2
Prep Batch: 94427
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-352951-6 | CCB V-352951-14 | CCB V-352951-26 | MB 94427 (1)-15 |
|---|---|---|---|---|
| Barium | .025 U | .05 U | .05 U | .025 U |
| Calcium | 2.5 U | 5 U | 5 U | 2.5 U |
| Chromium | .025 U | .05 U | .05 U | .025 U |
| Copper | .025 U | .05 U | .05 U | .025 U |
| Iron | .15 U | .3 U | .3 U | .15 U |
| Magnesium | 2.5 U | 5 U | 5 U | 2.5 U |
| Manganese | .02 U | .04 U | .04 U | .02 U |
| Nickel | .025 U | .05 U | .05 U | .025 U |
| Silver | .01 U | .02 U | .02 U | .01 U |
| Vanadium | .025 U | .05 U | .05 U | .025 U |
| Zinc | .025 U | .05 U | .05 U | .025 U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/28/21
Data File: SW27669A5
Prep Batch: 94427
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-352951-6 | CCB V-352951-13 | CCB V-352951-25 | MB 94427 (1)-14 |
|---|---|---|---|---|
| Aluminum | .1U | .2U | .2U | .1U |
| Potassium | 2.5U | 5U | 5U | 2.5U |
| Sodium | 2.5U | 5U | 5U | 2.5U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/28/21
Data File: SW27669B5
Prep Batch: 94427
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-352951-6 | CCB V-352951-13 | CCB V-352951-20 | CCB V-352951-28 | CCB V-352951-40 |
|---|---|---|---|---|---|
| Aluminum | .1U | .2U | .2U | .2U | .2U |
| Potassium | 2.5U | 5U | 5U | 5U | 5U |
| Sodium | 2.5U | 5U | 5U | 5U | 5U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/29/21
Data File: SW27669C2
Prep Batch: 94427
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-352951-6 | CCB V-352951-13 | CCB V-352951-21 | CCB V-352951-28 | CCB V-352951-40 | CCB V-352951-49 | CCB V-352951-56 | CCB V-352951-68 |
|---|---|---|---|---|---|---|---|---|
| Barium | .025 U | .05 U | .05 U | .05 U | .05 U | .05U | .05U | .05 U |
| Calcium | 2.5 U | 5 U | 5 U | 5 U | 5 U | 5U | 5U | 5 U |
| Chromium | .025 U | .05 U | .05 U | .05 U | .05 U | .05U | .05U | .05 U |
| Copper | .025 U | .05 U | .05 U | .05 U | .05 U | .05U | .05U | .05 U |
| Iron | .15 U | .3 U | .3 U | .3 U | .3 U | .3U | .3U | .3 U |
| Magnesium | 2.5 U | 5 U | 5 U | 5 U | 5 U | 5U | 5U | 5 U |
| Manganese | .02 U | .04 U | .04 U | .04 U | .04 U | .04U | .04U | .04 U |
| Nickel | .025 U | .05 U | .05 U | .05 U | .05 U | .05U | .05U | .05 U |
| Silver | .01 U | .02 U | .02 U | .02 U | .02 U | .02U | .02U | .02 U |
| Vanadium | .025 U | .05 U | .05 U | .05 U | .05 U | .05U | .05U | .05 U |
| Zinc | .025 U | .05 U | .05 U | .05 U | .05 U | .05U | .05U | .05 U |

| Analyte | CCB V-352951-76 | CCB V-352951-88 |
|---|---|---|
| Barium | .05 U | .05 U |
| Calcium | 5 U | 5 U |
| Chromium | .05 U | .05 U |
| Copper | .05 U | .05 U |
| Iron | .3 U | .3 U |
| Magnesium | 5 U | 5 U |
| Manganese | .04 U | .04 U |
| Nickel | .05 U | .05 U |
| Silver | .02 U | .02 U |
| Vanadium | .05 U | .05 U |
| Zinc | .05 U | .05 U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/29/21
Data File: SW27669E5
Prep Batch: 94427
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-352951-6 | CCB V-352951-13 | CCB V-352951-25 | CCB V-352951-33 | CCB V-352951-40 | CCB V-352951-49 | CCB V-352951-58 | CCB V-352951-67 |
|---|---|---|---|---|---|---|---|---|
| Sodium | 2.5U | 5U | 5U | 5U | 5U | 5U | 5U | 5U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/23/21
Data File: A092321BNEW
Prep Batch: 94429
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-357841-11 | CCB V-357841-19 | CCB V-357841-31 | CCB V-357841-43 | CCB V-357841-49 | MB 94429-20 |
|---|---|---|---|---|---|---|
| Antimony | .75U | 1.5U | 1.5U | 1.5U | 1.5U | 1.5U |
| Arsenic | .5U | 1U | 1U | 1U | 1U | 1U |
| Beryllium | .25U | .5U | .5U | .5U | .5U | .5U |
| Cadmium | .5U | 1U | 1U | 1U | 1U | 1U |
| Cobalt | .5U | 1U | 1U | 1U | 1U | 1U |
| Lead | .75U | 1.5U | 1.5U | 1.5U | 1.5U | 1.5U |
| Selenium | 2.5U | 5U | 5U | 5U | 5U | 5U |
| Thallium | .5U | 1U | 1U | 1U | 1U | 1U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
# (ICB/CCB/MB Summary)

Date Analyzed: 09/24/21
Data File: A092421BNEW
Prep Batch: 94428
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-357841-11 | CCB V-357841-19 | CCB V-357841-31 | CCB V-357841-43 | CCB V-357841-51 | MB 94428-20 | |
|---|---|---|---|---|---|---|---|
| Antimony | .75U | 1.5U | 1.5U | 1.5U | 1.5U | 1.5U | |
| Arsenic | .5U | 1U | 1U | 1U | 1U | 1U | |
| Beryllium | .25U | .5U | .5U | .5U | .5U | .5U | |
| Cadmium | .5U | 1U | 1U | 1U | 1U | 1U | |
| Cobalt | .5U | 1U | 1U | 1U | 1U | 1U | |
| Lead | .75U | 1.5U | 1.5U | 1.5U | 1.5U | 1.5U | |
| Selenium | 2.5U | 5U | 5U | 5U | 5U | 5U | |
| Thallium | .5U | 1U | 1U | 1U | 1U | 1U | |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/28/21
Data File: SW27669B5
Prep Batch: 94428
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-352951-6 | CCB V-352951-13 | CCB V-352951-20 | CCB V-352951-28 | CCB V-352951-40 | MB 94428 (1)-29 | | |
|---|---|---|---|---|---|---|---|---|
| Aluminum | .1U | .2U | .2U | .2U | .2U | .1U | | |
| Potassium | 2.5U | 5U | 5U | 5U | 5U | 2.5U | | |
| Sodium | 2.5U | 5U | 5U | 5U | 5U | 2.5U | | |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/29/21
Data File: SW27669C2
Prep Batch: 94428
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-352951-6 | CCB V-352951-13 | CCB V-352951-21 | CCB V-352951-28 | CCB V-352951-40 | CCB V-352951-49 | CCB V-352951-56 | CCB V-352951-68 |
|---|---|---|---|---|---|---|---|---|
| Barium | .025 U | .05 U | .05 U | .05 U | .05 U | .05U | .05U | .05 U |
| Calcium | 2.5 U | 5 U | 5 U | 5 U | 5 U | 5U | 5U | 5 U |
| Chromium | .025 U | .05 U | .05 U | .05 U | .05 U | .05U | .05U | .05 U |
| Copper | .025 U | .05 U | .05 U | .05 U | .05 U | .05U | .05U | .05 U |
| Iron | .15 U | .3 U | .3 U | .3 U | .3 U | .3U | .3U | .3 U |
| Magnesium | 2.5 U | 5 U | 5 U | 5 U | 5 U | 5U | 5U | 5 U |
| Manganese | .02 U | .04 U | .04 U | .04 U | .04 U | .04U | .04U | .04 U |
| Nickel | .025 U | .05 U | .05 U | .05 U | .05 U | .05U | .05U | .05 U |
| Silver | .01 U | .02 U | .02 U | .02 U | .02 U | .02U | .02U | .02 U |
| Vanadium | .025 U | .05 U | .05 U | .05 U | .05 U | .05U | .05U | .05 U |
| Zinc | .025 U | .05 U | .05 U | .05 U | .05 U | .05U | .05U | .05 U |

| Analyte | CCB V-352951-76 | CCB V-352951-88 | MB 94428 (1)-29 |
|---|---|---|---|
| Barium | .05 U | .05 U | .025 U |
| Calcium | 5 U | 5 U | 2.5 U |
| Chromium | .05 U | .05 U | .025 U |
| Copper | .05 U | .05 U | .025 U |
| Iron | .3 U | .3 U | .15 U |
| Magnesium | 5 U | 5 U | 2.5 U |
| Manganese | .04 U | .04 U | .02 U |
| Nickel | .05 U | .05 U | .025 U |
| Silver | .02 U | .02 U | .01 U |
| Vanadium | .05 U | .05 U | .025 U |
| Zinc | .05 U | .05 U | .025 U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/29/21
Data File: SW27669C2
Prep Batch: 94429
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-352951-6 | CCB V-352951-13 | CCB V-352951-21 | CCB V-352951-28 | CCB V-352951-40 | CCB V-352951-49 | CCB V-352951-56 | CCB V-352951-68 |
|---|---|---|---|---|---|---|---|---|
| Barium | .025U | .05U | .05U | .05U | .05U | .05U | .05U | .05U |
| Calcium | 2.5U | 5U | 5U | 5U | 5U | 5U | 5U | 5U |
| Chromium | .025U | .05U | .05U | .05U | .05U | .05U | .05U | .05U |
| Copper | .025U | .05U | .05U | .05U | .05U | .05U | .05U | .05U |
| Iron | .15U | .3U | .3U | .3U | .3U | .3U | .3U | .3U |
| Magnesium | 2.5U | 5U | 5U | 5U | 5U | 5U | 5U | 5U |
| Manganese | .02U | .04U | .04U | .04U | .04U | .04U | .04U | .04U |
| Nickel | .025U | .05U | .05U | .05U | .05U | .05U | .05U | .05U |
| Silver | .01U | .02U | .02U | .02U | .02U | .02U | .02U | .02U |
| Vanadium | .025U | .05U | .05U | .05U | .05U | .05U | .05U | .05U |
| Zinc | .025U | .05U | .05U | .05U | .05U | .05U | .05U | .05U |

| Analyte | CCB V-352951-76 | CCB V-352951-88 | MB 94429 (1)-57 |
|---|---|---|---|
| Barium | .05U | .05U | .025U |
| Calcium | 5U | 5U | 2.5U |
| Chromium | .05U | .05U | .025U |
| Copper | .05U | .05U | .025U |
| Iron | .3U | .3U | .15U |
| Magnesium | 5U | 5U | 2.5U |
| Manganese | .04U | .04U | .02U |
| Nickel | .05U | .05U | .025U |
| Silver | .02U | .02U | .01U |
| Vanadium | .05U | .05U | .025U |
| Zinc | .05U | .05U | .025U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/29/21
Data File: SW27669E5
Prep Batch: 94429
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-352951-6 | CCB V-352951-13 | CCB V-352951-25 | CCB V-352951-33 | CCB V-352951-40 | CCB V-352951-49 | CCB V-352951-58 | CCB V-352951-67 |
|---|---|---|---|---|---|---|---|---|
| Aluminum | .1U | .2U | .2U | .2U | .2U | .2U | .2U | .2U |
| Potassium | 2.5U | 5U | 5U | 5U | 5U | 5U | 5U | 5U |
| Sodium | 2.5U | 5U | 5U | 5U | 5U | 5U | 5U | 5U |

| Analyte | MB 94429 (1)-14 |
|---|---|
| Aluminum | .1U |
| Potassium | 2.5U |
| Sodium | 2.5U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/28/21
Data File: SW27669C5
Prep Batch: 94428
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-352951-6 | CCB V-352951-13 | CCB V-352951-22 | CCB V-352951-30 |
|---|---|---|---|---|
| Aluminum | .1U | .2U | .2U | .2U |
| Potassium | 2.5U | 5U | 5U | 5U |
| Sodium | 2.5U | 5U | 5U | 5U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/29/21
Data File: SW27669E5
Prep Batch: 94428
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB V-352951-6 | CCB V-352951-13 | CCB V-352951-25 | CCB V-352951-33 | CCB V-352951-40 | CCB V-352951-49 | CCB V-352951-58 | CCB V-352951-67 |
|---|---|---|---|---|---|---|---|---|
| Sodium | 2.5U | 5U | 5U | 5U | 5U | 5U | 5U | 5U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/24/21
Data File: H27670SW
Prep Batch: 94428
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB-10 | CCB-22 | CCB-34 | CCB-37 | MB 94428 (1)-11 |
|---|---|---|---|---|---|
| Mercury | .5U | .5U | .5U | .5U | .5U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/23/21
Data File: H27671SW
Prep Batch: 94429
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB-10 | CCB-21 | CCB-32 | CCB-35 | MB 94429 (1)-11 |
|---|---|---|---|---|---|
| Mercury | .5U | .5U | .5U | .5U | .5U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/28/21
Data File: H27683SW
Prep Batch: 94442
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB-10 | CCB-22 | CCB-34 | CCB-42 | MB 94442 (1)-11 |
|---|---|---|---|---|---|
| Mercury | .5 U | .5 U | .5 U | .5 U | .5 U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 3
## (ICB/CCB/MB Summary)

Date Analyzed: 09/23/21
Data File: H27669SW
Prep Batch: 94427
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

| Analyte | ICB-10 | CCB-22 | CCB-33 | MB 94427 (1)-11 |
|---|---|---|---|---|
| Mercury | .5U | .5U | .5U | .5U |

**Notes:** a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

# FORM 4
## (ICSA/ICSAB Summary)

Date Analyzed: 09/24/21
Data File: A092421BNEW
Prep Batch: 94428
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-357842-12 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 50000 | 49753.8ε | 100 | | | | | | | |
| Antimony | 0 | U | | | | | | | | |
| Arsenic | 0 | U | | | | | | | | |
| Beryllium | 0 | U | | | | | | | | |
| Cadmium | 0 | U | | | | | | | | |
| Calcium | 150000 | 151996.7 | 101 | | | | | | | |
| Cobalt | 0 | U | | | | | | | | |
| Iron | 125000 | 120799.6 | 97 | | | | | | | |
| Lead | 0 | U | | | | | | | | |
| Magnesium | 50000 | 48604.4ε | 97 | | | | | | | |
| Selenium | 0 | U | | | | | | | | |
| Thallium | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM 4
## (ICSA/ICSAB Summary)

Date Analyzed: 09/28/21
Data File: SW27669B5
Prep Batch: 94428
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-352957-11 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 500 | 499.783 | 100 | | | | | | | |
| Calcium | 500 | 470.455 | 94 | | | | | | | |
| Iron | 200 | 180.411 | 90 | | | | | | | |
| Magnesium | 500 | 469.577 | 94 | | | | | | | |
| Potassium | 0 | U | | | | | | | | |
| Sodium | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM 4
## (ICSA/ICSAB Summary)

Date Analyzed: 09/29/21
Data File: SW27669C2
Prep Batch: 94428
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-352957-11 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 500 | 485.215 | 97 | | | | | | | |
| Barium | 0 | U | | | | | | | | |
| Calcium | 500 | 486.572 | 97 | | | | | | | |
| Chromium | 0 | U | | | | | | | | |
| Copper | 0 | U | | | | | | | | |
| Iron | 200 | 190.201 | 95 | | | | | | | |
| Magnesium | 500 | 490.263 | 98 | | | | | | | |
| Manganese | 0 | U | | | | | | | | |
| Nickel | 0 | U | | | | | | | | |
| Silver | 0 | U | | | | | | | | |
| Vanadium | 0 | U | | | | | | | | |
| Zinc | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM 4
## (ICSA/ICSAB Summary)

Date Analyzed: 09/28/21
Data File: SW27669C5
Prep Batch: 94428
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-352957-11 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 500 | 485.882 | 97 | | | | | | | |
| Calcium | 500 | 466.655 | 93 | | | | | | | |
| Iron | 200 | 179.028 | 90 | | | | | | | |
| Magnesium | 500 | 469.01 | 94 | | | | | | | |
| Potassium | 0 | U | | | | | | | | |
| Sodium | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM 4
## (ICSA/ICSAB Summary)

Date Analyzed: 09/29/21
Data File: SW27669E5
Prep Batch: 94428
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-352957-11 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 500 | 493.474 | 99 | | | | | | | |
| Calcium | 500 | 468.247 | 94 | | | | | | | |
| Iron | 200 | 177.917 | 89 | | | | | | | |
| Magnesium | 500 | 465.833 | 93 | | | | | | | |
| Sodium | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM 4
## (ICSA/ICSAB Summary)

Date Analyzed: 09/23/21
Data File: A092321BNEW
Prep Batch: 94429
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-357842-12 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 50000 | 48877.4 | 98 | | | | | | | |
| Antimony | 0 | U | | | | | | | | |
| Arsenic | 0 | U | | | | | | | | |
| Beryllium | 0 | U | | | | | | | | |
| Cadmium | 0 | U | | | | | | | | |
| Calcium | 150000 | 147294.3 | 98 | | | | | | | |
| Cobalt | 0 | U | | | | | | | | |
| Iron | 125000 | 120536.3 | 96 | | | | | | | |
| Lead | 0 | U | | | | | | | | |
| Magnesium | 50000 | 47416.05 | 95 | | | | | | | |
| Selenium | 0 | U | | | | | | | | |
| Thallium | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM 4
## (ICSA/ICSAB Summary)

Date Analyzed: 09/29/21
Data File: SW27669C2
Prep Batch: 94429
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-352957-11 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 500 | 485.215 | 97 | | | | | | | |
| Barium | 0 | U | | | | | | | | |
| Calcium | 500 | 486.572 | 97 | | | | | | | |
| Chromium | 0 | U | | | | | | | | |
| Copper | 0 | U | | | | | | | | |
| Iron | 200 | 190.201 | 95 | | | | | | | |
| Magnesium | 500 | 490.263 | 98 | | | | | | | |
| Manganese | 0 | U | | | | | | | | |
| Nickel | 0 | U | | | | | | | | |
| Silver | 0 | U | | | | | | | | |
| Vanadium | 0 | U | | | | | | | | |
| Zinc | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM 4
## (ICSA/ICSAB Summary)

Date Analyzed: 09/29/21
Data File: SW27669E5
Prep Batch: 94429
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-352957-11 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 500 | 493.474 | 99 | | | | | | | |
| Calcium | 500 | 468.247 | 94 | | | | | | | |
| Iron | 200 | 177.917 | 89 | | | | | | | |
| Magnesium | 500 | 465.833 | 93 | | | | | | | |
| Potassium | 0 | U | | | | | | | | |
| Sodium | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM 4
## (ICSA/ICSAB Summary)

Date Analyzed: 09/23/21
Data File: A092321ANEW
Prep Batch: 94427
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-357842-12 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 50000 | 49229.21 | 98 | | | | | | | |
| Antimony | 0 | U | | | | | | | | |
| Arsenic | 0 | U | | | | | | | | |
| Beryllium | 0 | U | | | | | | | | |
| Cadmium | 0 | U | | | | | | | | |
| Calcium | 150000 | 148346.8 | 99 | | | | | | | |
| Cobalt | 0 | U | | | | | | | | |
| Iron | 125000 | 120778.6 | 97 | | | | | | | |
| Lead | 0 | U | | | | | | | | |
| Magnesium | 50000 | 48595.56 | 97 | | | | | | | |
| Selenium | 0 | U | | | | | | | | |
| Thallium | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM 4
# (ICSA/ICSAB Summary)

Date Analyzed: 09/28/21
Data File: SW27669A2
Prep Batch: 94427
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-352957-11 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 500 | 503.271 | 101 | | | | | | | |
| Barium | 0 | U | | | | | | | | |
| Calcium | 500 | 509.187 | 102 | | | | | | | |
| Chromium | 0 | U | | | | | | | | |
| Copper | 0 | U | | | | | | | | |
| Iron | 200 | 197.761 | 99 | | | | | | | |
| Magnesium | 500 | 510.787 | 102 | | | | | | | |
| Manganese | 0 | U | | | | | | | | |
| Nickel | 0 | U | | | | | | | | |
| Silver | 0 | U | | | | | | | | |
| Vanadium | 0 | U | | | | | | | | |
| Zinc | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM 4
## (ICSA/ICSAB Summary)

Date Analyzed: 09/28/21
Data File: SW27669A5
Prep Batch: 94427
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-352957-11 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 500 | 515.361 | 103 | | | | | | | |
| Calcium | 500 | 488.872 | 98 | | | | | | | |
| Iron | 200 | 189.206 | 95 | | | | | | | |
| Magnesium | 500 | 490.728 | 98 | | | | | | | |
| Potassium | 0 | U | | | | | | | | |
| Sodium | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM 4
## (ICSA/ICSAB Summary)

Date Analyzed: 09/28/21
Data File: SW27669B5
Prep Batch: 94427
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-352957-11 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 500 | 499.783 | 100 | | | | | | | |
| Calcium | 500 | 470.455 | 94 | | | | | | | |
| Iron | 200 | 180.411 | 90 | | | | | | | |
| Magnesium | 500 | 469.577 | 94 | | | | | | | |
| Potassium | 0 | U | | | | | | | | |
| Sodium | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM 4
## (ICSA/ICSAB Summary)

Date Analyzed: 09/29/21
Data File: SW27669C2
Prep Batch: 94427
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-352957-11 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 500 | 485.215 | 97 | | | | | | | |
| Barium | 0 | U | | | | | | | | |
| Calcium | 500 | 486.572 | 97 | | | | | | | |
| Chromium | 0 | U | | | | | | | | |
| Copper | 0 | U | | | | | | | | |
| Iron | 200 | 190.201 | 95 | | | | | | | |
| Magnesium | 500 | 490.263 | 98 | | | | | | | |
| Manganese | 0 | U | | | | | | | | |
| Nickel | 0 | U | | | | | | | | |
| Silver | 0 | U | | | | | | | | |
| Vanadium | 0 | U | | | | | | | | |
| Zinc | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM 4
## (ICSA/ICSAB Summary)

Date Analyzed: 09/29/21
Data File: SW27669E5
Prep Batch: 94427
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD5A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 1091738

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

| Analyte | Spk Amt | ICSA V-352957-11 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 500 | 493.474 | 99 | | | | | | | |
| Calcium | 500 | 468.247 | 94 | | | | | | | |
| Iron | 200 | 177.917 | 89 | | | | | | | |
| Magnesium | 500 | 465.833 | 93 | | | | | | | |
| Sodium | 0 | U | | | | | | | | |

**Notes:** a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

**Qc Limits:** 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94428

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS Matrix: AQUEOUS SampleID: LCS 94428

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94428 | 1 | SW27669B | 30 | 4.7986 | 5.0 | 96 | | 80 | 120 |
| Barium | 94428 | 1 | SW27669 | 30 | 0.4992 | 0.50 | 100 | | 80 | 120 |
| Calcium | 94428 | 1 | SW27669 | 30 | 50.4396 | 50.0 | 101 | | 80 | 120 |
| Chromium | 94428 | 1 | SW27669 | 30 | 0.5082 | 0.50 | 102 | | 80 | 120 |
| Copper | 94428 | 1 | SW27669 | 30 | 0.5118 | 0.50 | 102 | | 80 | 120 |
| Iron | 94428 | 1 | SW27669 | 30 | 5.0853 | 5.00 | 102 | | 80 | 120 |
| Magnesium | 94428 | 1 | SW27669 | 30 | 50.7908 | 50.0 | 102 | | 80 | 120 |
| Manganese | 94428 | 1 | SW27669 | 30 | 0.5027 | 0.50 | 101 | | 80 | 120 |
| Mercury | 94428 | 1 | H27670S | 12 | 10.0900 | 10 | 101 | | 80 | 120 |
| Nickel | 94428 | 1 | SW27669 | 30 | 0.5142 | 0.50 | 103 | | 80 | 120 |
| Potassium | 94428 | 1 | SW27669B | 30 | 46.9589 | 50 | 94 | | 80 | 120 |
| Silver | 94428 | 1 | SW27669 | 30 | 0.0986 | 0.10 | 99 | | 80 | 120 |
| Sodium | 94428 | 1 | SW27669B | 30 | 47.4164 | 50 | 95 | | 80 | 120 |
| Vanadium | 94428 | 1 | SW27669 | 30 | 0.5016 | 0.50 | 100 | | 80 | 120 |
| Zinc | 94428 | 1 | SW27669 | 30 | 0.5029 | 0.50 | 101 | | 80 | 120 |

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 94428

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94428 | 1 | SW27669B | 31 | 4.7978 | 5.0 | 96 | | 80 | 120 |
| Barium | 94428 | 1 | SW27669 | 31 | 0.5005 | 0.50 | 100 | | 80 | 120 |
| Calcium | 94428 | 1 | SW27669 | 31 | 50.2932 | 50.0 | 101 | | 80 | 120 |
| Chromium | 94428 | 1 | SW27669 | 31 | 0.5093 | 0.50 | 102 | | 80 | 120 |
| Copper | 94428 | 1 | SW27669 | 31 | 0.5134 | 0.50 | 103 | | 80 | 120 |
| Iron | 94428 | 1 | SW27669 | 31 | 5.0459 | 5.00 | 101 | | 80 | 120 |
| Magnesium | 94428 | 1 | SW27669 | 31 | 50.6526 | 50.0 | 101 | | 80 | 120 |
| Manganese | 94428 | 1 | SW27669 | 31 | 0.5035 | 0.50 | 101 | | 80 | 120 |
| Mercury | 94428 | 1 | H27670S | 13 | 9.4260 | 10 | 94 | | 80 | 120 |
| Nickel | 94428 | 1 | SW27669 | 31 | 0.5119 | 0.50 | 102 | | 80 | 120 |
| Potassium | 94428 | 1 | SW27669B | 31 | 46.8804 | 50 | 94 | | 80 | 120 |
| Silver | 94428 | 1 | SW27669 | 31 | 0.0984 | 0.10 | 98 | | 80 | 120 |
| Sodium | 94428 | 1 | SW27669B | 31 | 47.2799 | 50 | 95 | | 80 | 120 |
| Vanadium | 94428 | 1 | SW27669 | 31 | 0.5034 | 0.50 | 101 | | 80 | 120 |
| Zinc | 94428 | 1 | SW27669 | 31 | 0.4974 | 0.50 | 99 | | 80 | 120 |

TxtQcType: MS Matrix: AQUEOUS SampleID: AD26083-042

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94428 | 1 | SW27669B | 34 | SW27669B | 32 | 4.6627 | 0.2U | 5.000 | 93 | | 75 | 125 |
| Barium | 94428 | 1 | SW27669 | 34 | SW27669 | 32 | 2.8860 | 2.3559 | 0.50 | 106 | | 75 | 125 |
| Calcium | 94428 | 1 | SW27669 | 34 | SW27669 | 32 | 150.6690 | 100.7820 | 50.0 | 100 | | 75 | 125 |
| Chromium | 94428 | 1 | SW27669 | 34 | SW27669 | 32 | 0.5042 | 0.05U | 0.50 | 101 | | 75 | 125 |
| Copper | 94428 | 1 | SW27669 | 34 | SW27669 | 32 | 0.5125 | 0.05U | 0.50 | 103 | | 75 | 125 |
| Iron | 94428 | 1 | SW27669 | 34 | SW27669 | 32 | 16.8369 | 11.7543 | 5.00 | 102 | | 75 | 125 |
| Magnesium | 94428 | 1 | SW27669 | 34 | SW27669 | 32 | 201.6750 | 151.0130 | 50.0 | 101 | | 75 | 125 |
| Manganese | 94428 | 1 | SW27669 | 34 | SW27669 | 32 | 1.0716 | 0.5701 | 0.50 | 100 | | 75 | 125 |
| Mercury | 94428 | 1 | H27670S | 16 | H27670S | 14 | 5.2490 | 0.50U | 10 | 52 | a | 75 | 125 |
| Nickel | 94428 | 1 | SW27669 | 34 | SW27669 | 32 | 0.5383 | 0.05U | 0.50 | 108 | | 75 | 125 |
| Potassium | 94428 | 1 | SW27669B | 34 | SW27669B | 32 | 159.7400 | 111.8740 | 50.00 | 96 | | 75 | 125 |
| Silver | 94428 | 1 | SW27669 | 34 | SW27669 | 32 | 0.1026 | 0.02U | 0.10 | 103 | | 75 | 125 |
| Sodium | 94428 | 10 | SW27669E | 52 | SW27669E | 50 | 137.7730 | 129.1540 | 50.00 | 172 | b | 75 | 125 |
| Vanadium | 94428 | 1 | SW27669 | 34 | SW27669 | 32 | 0.5155 | 0.05U | 0.50 | 103 | | 75 | 125 |
| Zinc | 94428 | 1 | SW27669 | 34 | SW27669 | 32 | 0.5304 | 0.05U | 0.50 | 106 | | 75 | 125 |

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94428

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD26083-044

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94428 | 1 | SW27669B | 35 | SW27669B | 32 | 4.6075 | 0.2U | 5.0 | 92 | | 75 | 125 |
| Barium | 94428 | 1 | SW27669 | 35 | SW27669 | 32 | 2.8994 | 2.3559 | 0.50 | 109 | | 75 | 125 |
| Calcium | 94428 | 1 | SW27669 | 35 | SW27669 | 32 | 152.2360 | 100.7820 | 50.0 | 103 | | 75 | 125 |
| Chromium | 94428 | 1 | SW27669 | 35 | SW27669 | 32 | 0.5013 | 0.05U | 0.50 | 100 | | 75 | 125 |
| Copper | 94428 | 1 | SW27669 | 35 | SW27669 | 32 | 0.5083 | 0.05U | 0.50 | 102 | | 75 | 125 |
| Iron | 94428 | 1 | SW27669 | 35 | SW27669 | 32 | 16.8843 | 11.7543 | 5.00 | 103 | | 75 | 125 |
| Magnesium | 94428 | 1 | SW27669 | 35 | SW27669 | 32 | 201.8170 | 151.0130 | 50.0 | 102 | | 75 | 125 |
| Manganese | 94428 | 1 | SW27669 | 35 | SW27669 | 32 | 1.0726 | 0.5701 | 0.50 | 100 | | 75 | 125 |
| Mercury | 94428 | 1 | H27670S | 17 | H27670S | 14 | 5.1760 | 0.50U | 10 | 52 | a | 75 | 125 |
| Nickel | 94428 | 1 | SW27669 | 35 | SW27669 | 32 | 0.5315 | 0.05U | 0.50 | 106 | | 75 | 125 |
| Potassium | 94428 | 1 | SW27669B | 35 | SW27669B | 32 | 159.8980 | 111.8740 | 50 | 96 | | 75 | 125 |
| Silver | 94428 | 1 | SW27669 | 35 | SW27669 | 32 | 0.1020 | 0.02U | 0.10 | 102 | | 75 | 125 |
| Sodium | 94428 | 10 | SW27669E | 53 | SW27669E | 50 | 140.5110 | 129.1540 | 50 | 227 | b | 75 | 125 |
| Vanadium | 94428 | 1 | SW27669 | 35 | SW27669 | 32 | 0.5119 | 0.05U | 0.50 | 102 | | 75 | 125 |
| Zinc | 94428 | 1 | SW27669 | 35 | SW27669 | 32 | 0.5213 | 0.05U | 0.50 | 104 | | 75 | 125 |

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94428

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS Matrix: AQUEOUS SampleID: LCSW 94428

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94428 | 1 | A092421B | 21 | 225.1870 | 250 | 90 | | 80 | 120 |
| Arsenic | 94428 | 1 | A092421B | 21 | 231.6300 | 250 | 93 | | 80 | 120 |
| Beryllium | 94428 | 1 | A092421B | 21 | 225.7670 | 250 | 90 | | 80 | 120 |
| Cadmium | 94428 | 1 | A092421B | 21 | 234.2060 | 250 | 94 | | 80 | 120 |
| Cobalt | 94428 | 1 | A092421B | 21 | 228.1470 | 250 | 91 | | 80 | 120 |
| Lead | 94428 | 1 | A092421B | 21 | 227.7570 | 250 | 91 | | 80 | 120 |
| Selenium | 94428 | 1 | A092421B | 21 | 231.4350 | 250 | 93 | | 80 | 120 |
| Thallium | 94428 | 1 | A092421B | 21 | 225.4860 | 250 | 90 | | 80 | 120 |

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 94428

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94428 | 1 | A092421B | 22 | 229.5610 | 250 | 92 | | 80 | 120 |
| Arsenic | 94428 | 1 | A092421B | 22 | 230.2810 | 250 | 92 | | 80 | 120 |
| Beryllium | 94428 | 1 | A092421B | 22 | 223.1800 | 250 | 89 | | 80 | 120 |
| Cadmium | 94428 | 1 | A092421B | 22 | 234.9460 | 250 | 94 | | 80 | 120 |
| Cobalt | 94428 | 1 | A092421B | 22 | 226.7920 | 250 | 91 | | 80 | 120 |
| Lead | 94428 | 1 | A092421B | 22 | 225.7250 | 250 | 90 | | 80 | 120 |
| Selenium | 94428 | 1 | A092421B | 22 | 230.9280 | 250 | 92 | | 80 | 120 |
| Thallium | 94428 | 1 | A092421B | 22 | 224.0630 | 250 | 90 | | 80 | 120 |

TxtQcType: MS Matrix: AQUEOUS SampleID: AD26083-042

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94428 | 1 | A092421B | 26 | A092421B | 23 | 229.8730 | 1.5U | 250 | 92 | | 75 | 125 |
| Arsenic | 94428 | 1 | A092421B | 26 | A092421B | 23 | 245.6210 | 1.0830 | 250 | 98 | | 75 | 125 |
| Beryllium | 94428 | 1 | A092421B | 26 | A092421B | 23 | 217.9070 | 0.5U | 250 | 87 | | 75 | 125 |
| Cadmium | 94428 | 1 | A092421B | 26 | A092421B | 23 | 227.5500 | 1U | 250 | 91 | | 75 | 125 |
| Cobalt | 94428 | 1 | A092421B | 26 | A092421B | 23 | 238.1800 | 3.8330 | 250 | 94 | | 75 | 125 |
| Lead | 94428 | 1 | A092421B | 26 | A092421B | 23 | 211.3110 | 1.5U | 250 | 85 | | 75 | 125 |
| Selenium | 94428 | 1 | A092421B | 26 | A092421B | 23 | 241.4320 | 5U | 250 | 97 | | 75 | 125 |
| Thallium | 94428 | 1 | A092421B | 26 | A092421B | 23 | 209.3840 | 1U | 250 | 84 | | 75 | 125 |

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD26083-044

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94428 | 1 | A092421B | 27 | A092421B | 23 | 216.5860 | 1.5U | 250 | 87 | | 75 | 125 |
| Arsenic | 94428 | 1 | A092421B | 27 | A092421B | 23 | 229.9130 | 1.0830 | 250 | 92 | | 75 | 125 |
| Beryllium | 94428 | 1 | A092421B | 27 | A092421B | 23 | 203.5670 | 0.5U | 250 | 81 | | 75 | 125 |
| Cadmium | 94428 | 1 | A092421B | 27 | A092421B | 23 | 216.9960 | 1U | 250 | 87 | | 75 | 125 |
| Cobalt | 94428 | 1 | A092421B | 27 | A092421B | 23 | 220.5310 | 3.8330 | 250 | 87 | | 75 | 125 |
| Lead | 94428 | 1 | A092421B | 27 | A092421B | 23 | 200.0890 | 1.5U | 250 | 80 | | 75 | 125 |
| Selenium | 94428 | 1 | A092421B | 27 | A092421B | 23 | 225.4800 | 5U | 250 | 90 | | 75 | 125 |
| Thallium | 94428 | 1 | A092421B | 27 | A092421B | 23 | 199.6820 | 1U | 250 | 80 | | 75 | 125 |

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94428

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: AQUEOUS SampleID: AD26083-040

| Analyte | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 1 | SW27669B | 36 | SW27669B | 32 | 5.0967 | 0.2U | 5.0 | 102 | | 75 | 125 |
| Barium | 1 | SW27669 | 36 | SW27669 | 32 | 2.8415 | 2.3559 | .5 | 97 | | 75 | 125 |
| Calcium | 1 | SW27669 | 36 | SW27669 | 32 | 148.9190 | 100.7820 | 50 | 96 | | 75 | 125 |
| Chromium | 1 | SW27669 | 36 | SW27669 | 32 | 0.5561 | 0.05U | .5 | 111 | | 75 | 125 |
| Copper | 1 | SW27669 | 36 | SW27669 | 32 | 0.5672 | 0.05U | .5 | 113 | | 75 | 125 |
| Iron | 1 | SW27669 | 36 | SW27669 | 32 | 16.8260 | 11.7543 | 5 | 101 | | 75 | 125 |
| Magnesium | 1 | SW27669 | 36 | SW27669 | 32 | 199.1120 | 151.0130 | 50 | 96 | | 75 | 125 |
| Manganese | 1 | SW27669 | 36 | SW27669 | 32 | 1.1000 | 0.5701 | .5 | 106 | | 75 | 125 |
| Nickel | 1 | SW27669 | 36 | SW27669 | 32 | 0.5837 | 0.05U | .5 | 117 | | 75 | 125 |
| Potassium | 1 | SW27669B | 36 | SW27669B | 32 | 161.4880 | 111.8740 | 50 | 99 | | 75 | 125 |
| Silver | 1 | SW27669 | 36 | SW27669 | 32 | 0.0611 | 0.02U | 0.1 | 61 | a | 75 | 125 |
| Sodium | 10 | SW27669E | 54 | SW27669E | 50 | 196.5660 | 129.1540 | 50 | 135 | a | 75 | 125 |
| Vanadium | 1 | SW27669 | 36 | SW27669 | 32 | 0.5668 | 0.05U | .5 | 113 | | 75 | 125 |
| Zinc | 1 | SW27669 | 36 | SW27669 | 32 | 0.5744 | 0.05U | .5 | 115 | | 75 | 125 |

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94428

Instrument Type: ICPMS
Analytical Method(s): 6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS  Matrix: AQUEOUS  SampleID: AD26083-040

| Analyte | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 1 | A092421B | 28 | A092421B | 23 | 51.8770 | 1.5U | 50 | 104 | | 75 | 125 |
| Arsenic | 1 | A092421B | 28 | A092421B | 23 | 55.0960 | 1.0830 | 50 | 108 | | 75 | 125 |
| Beryllium | 1 | A092421B | 28 | A092421B | 23 | 46.6170 | 0.5U | 50 | 93 | | 75 | 125 |
| Cadmium | 1 | A092421B | 28 | A092421B | 23 | 49.4850 | 1U | 50 | 99 | | 75 | 125 |
| Cobalt | 1 | A092421B | 28 | A092421B | 23 | 56.6930 | 3.8330 | 50 | 106 | | 75 | 125 |
| Lead | 1 | A092421B | 28 | A092421B | 23 | 47.7860 | 1.5U | 50 | 96 | | 75 | 125 |
| Selenium | 1 | A092421B | 28 | A092421B | 23 | 264.1130 | 5U | 250 | 106 | | 75 | 125 |
| Thallium | 1 | A092421B | 28 | A092421B | 23 | 46.3110 | 1U | 50 | 93 | | 75 | 125 |

a-Indicates Recovery Failed the criteria  b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94429

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS Matrix: AQUEOUS SampleID: LCS 94429

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94429 | 1 | SW27669E | 15 | 5.0176 | 5.0 | 100 | | 80 | 120 |
| Barium | 94429 | 1 | SW27669 | 58 | 0.4898 | 0.50 | 98 | | 80 | 120 |
| Calcium | 94429 | 1 | SW27669 | 58 | 49.4611 | 50.0 | 99 | | 80 | 120 |
| Chromium | 94429 | 1 | SW27669 | 58 | 0.5001 | 0.50 | 100 | | 80 | 120 |
| Copper | 94429 | 1 | SW27669 | 58 | 0.5027 | 0.50 | 101 | | 80 | 120 |
| Iron | 94429 | 1 | SW27669 | 58 | 4.8952 | 5.00 | 98 | | 80 | 120 |
| Magnesium | 94429 | 1 | SW27669 | 58 | 49.0809 | 50.0 | 98 | | 80 | 120 |
| Manganese | 94429 | 1 | SW27669 | 58 | 0.4922 | 0.50 | 98 | | 80 | 120 |
| Mercury | 94429 | 1 | H27671S | 12 | 11.1000 | 10 | 111 | | 80 | 120 |
| Nickel | 94429 | 1 | SW27669 | 58 | 0.5044 | 0.50 | 101 | | 80 | 120 |
| Potassium | 94429 | 1 | SW27669E | 15 | 47.6084 | 50 | 95 | | 80 | 120 |
| Silver | 94429 | 1 | SW27669 | 58 | 0.0987 | 0.10 | 99 | | 80 | 120 |
| Sodium | 94429 | 1 | SW27669E | 15 | 47.5815 | 50 | 95 | | 80 | 120 |
| Vanadium | 94429 | 1 | SW27669 | 58 | 0.4958 | 0.50 | 99 | | 80 | 120 |
| Zinc | 94429 | 1 | SW27669 | 58 | 0.4888 | 0.50 | 98 | | 80 | 120 |

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 94429

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94429 | 1 | SW27669E | 16 | 4.9719 | 5.0 | 99 | | 80 | 120 |
| Barium | 94429 | 1 | SW27669 | 59 | 0.4831 | 0.50 | 97 | | 80 | 120 |
| Calcium | 94429 | 1 | SW27669 | 59 | 48.5202 | 50.0 | 97 | | 80 | 120 |
| Chromium | 94429 | 1 | SW27669 | 59 | 0.4934 | 0.50 | 99 | | 80 | 120 |
| Copper | 94429 | 1 | SW27669 | 59 | 0.4961 | 0.50 | 99 | | 80 | 120 |
| Iron | 94429 | 1 | SW27669 | 59 | 4.8270 | 5.00 | 97 | | 80 | 120 |
| Magnesium | 94429 | 1 | SW27669 | 59 | 48.0715 | 50.0 | 96 | | 80 | 120 |
| Manganese | 94429 | 1 | SW27669 | 59 | 0.4850 | 0.50 | 97 | | 80 | 120 |
| Mercury | 94429 | 1 | H27671S | 13 | 10.6000 | 10 | 106 | | 80 | 120 |
| Nickel | 94429 | 1 | SW27669 | 59 | 0.4936 | 0.50 | 99 | | 80 | 120 |
| Potassium | 94429 | 1 | SW27669E | 16 | 47.1697 | 50 | 94 | | 80 | 120 |
| Silver | 94429 | 1 | SW27669 | 59 | 0.0971 | 0.10 | 97 | | 80 | 120 |
| Sodium | 94429 | 1 | SW27669E | 16 | 47.1423 | 50 | 94 | | 80 | 120 |
| Vanadium | 94429 | 1 | SW27669 | 59 | 0.4884 | 0.50 | 98 | | 80 | 120 |
| Zinc | 94429 | 1 | SW27669 | 59 | 0.4805 | 0.50 | 96 | | 80 | 120 |

TxtQcType: MS Matrix: AQUEOUS SampleID: AD26083-043

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94429 | 1 | SW27669E | 19 | SW27669E | 17 | 4.9339 | 0.2U | 5.000 | 99 | | 75 | 125 |
| Barium | 94429 | 1 | SW27669 | 62 | SW27669 | 60 | 2.1737 | 1.9552 | 0.50 | 44 | a | 75 | 125 |
| Calcium | 94429 | 1 | SW27669 | 62 | SW27669 | 60 | 119.0540 | 82.9735 | 50.0 | 72 | a | 75 | 125 |
| Chromium | 94429 | 1 | SW27669 | 62 | SW27669 | 60 | 0.4885 | 0.05U | 0.50 | 98 | | 75 | 125 |
| Copper | 94429 | 1 | SW27669 | 62 | SW27669 | 60 | 0.4992 | 0.05U | 0.50 | 100 | | 75 | 125 |
| Iron | 94429 | 1 | SW27669 | 62 | SW27669 | 60 | 12.8675 | 9.3685 | 5.00 | 70 | a | 75 | 125 |
| Magnesium | 94429 | 1 | SW27669 | 62 | SW27669 | 60 | 154.8510 | 122.0300 | 50.0 | 66 | a | 75 | 125 |
| Manganese | 94429 | 1 | SW27669 | 62 | SW27669 | 60 | 0.8801 | 0.4671 | 0.50 | 83 | | 75 | 125 |
| Mercury | 94429 | 1 | H27671S | 16 | H27671S | 14 | 7.2050 | 0.50U | 10 | 72 | a | 75 | 125 |
| Nickel | 94429 | 1 | SW27669 | 62 | SW27669 | 60 | 0.5060 | 0.05U | 0.50 | 101 | | 75 | 125 |
| Potassium | 94429 | 1 | SW27669E | 19 | SW27669E | 17 | 137.5210 | 86.4162 | 50.00 | 102 | | 75 | 125 |
| Silver | 94429 | 1 | SW27669 | 62 | SW27669 | 60 | 0.1002 | 0.02U | 0.10 | 100 | | 75 | 125 |
| Sodium | 94429 | 10 | SW27669E | 61 | SW27669E | 59 | 106.4900 | 98.8218 | 50.00 | 153 | b | 75 | 125 |
| Vanadium | 94429 | 1 | SW27669 | 62 | SW27669 | 60 | 0.4971 | 0.05U | 0.50 | 99 | | 75 | 125 |
| Zinc | 94429 | 1 | SW27669 | 62 | SW27669 | 60 | 0.5000 | 0.05U | 0.50 | 100 | | 75 | 125 |

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94429

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD26083-045

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94429 | 1 | SW27669E | 20 | SW27669E | 17 | 4.9659 | 0.2U | 5.0 | 99 | | 75 | 125 |
| Barium | 94429 | 1 | SW27669 | 63 | SW27669 | 60 | 2.1997 | 1.9552 | 0.50 | 49 | a | 75 | 125 |
| Calcium | 94429 | 1 | SW27669 | 63 | SW27669 | 60 | 121.3820 | 82.9735 | 50.0 | 77 | | 75 | 125 |
| Chromium | 94429 | 1 | SW27669 | 63 | SW27669 | 60 | 0.4925 | 0.05U | 0.50 | 99 | | 75 | 125 |
| Copper | 94429 | 1 | SW27669 | 63 | SW27669 | 60 | 0.5038 | 0.05U | 0.50 | 101 | | 75 | 125 |
| Iron | 94429 | 1 | SW27669 | 63 | SW27669 | 60 | 13.0047 | 9.3685 | 5.00 | 73 | a | 75 | 125 |
| Magnesium | 94429 | 1 | SW27669 | 63 | SW27669 | 60 | 155.5330 | 122.0300 | 50.0 | 67 | a | 75 | 125 |
| Manganese | 94429 | 1 | SW27669 | 63 | SW27669 | 60 | 0.8903 | 0.4671 | 0.50 | 85 | | 75 | 125 |
| Mercury | 94429 | 1 | H27671S | 17 | H27671S | 14 | 6.9800 | 0.50U | 10 | 70 | a | 75 | 125 |
| Nickel | 94429 | 1 | SW27669 | 63 | SW27669 | 60 | 0.5109 | 0.05U | 0.50 | 102 | | 75 | 125 |
| Potassium | 94429 | 1 | SW27669E | 20 | SW27669E | 17 | 138.7110 | 86.4162 | 50 | 105 | | 75 | 125 |
| Silver | 94429 | 1 | SW27669 | 63 | SW27669 | 60 | 0.1009 | 0.02U | 0.10 | 101 | | 75 | 125 |
| Sodium | 94429 | 10 | SW27669E | 62 | SW27669E | 59 | 112.1480 | 98.8218 | 50 | 267 | b | 75 | 125 |
| Vanadium | 94429 | 1 | SW27669 | 63 | SW27669 | 60 | 0.5029 | 0.05U | 0.50 | 101 | | 75 | 125 |
| Zinc | 94429 | 1 | SW27669 | 63 | SW27669 | 60 | 0.4990 | 0.05U | 0.50 | 100 | | 75 | 125 |

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94429

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS  Matrix: AQUEOUS  SampleID: LCSW 94429

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94429 | 1 | A092321B | 21 | 237.5300 | 250 | 95 | | 80 | 120 |
| Arsenic | 94429 | 1 | A092321B | 21 | 240.6420 | 250 | 96 | | 80 | 120 |
| Beryllium | 94429 | 1 | A092321B | 21 | 253.6630 | 250 | 101 | | 80 | 120 |
| Cadmium | 94429 | 1 | A092321B | 21 | 248.1290 | 250 | 99 | | 80 | 120 |
| Cobalt | 94429 | 1 | A092321B | 21 | 233.1840 | 250 | 93 | | 80 | 120 |
| Lead | 94429 | 1 | A092321B | 21 | 240.3090 | 250 | 96 | | 80 | 120 |
| Selenium | 94429 | 1 | A092321B | 21 | 236.7640 | 250 | 95 | | 80 | 120 |
| Thallium | 94429 | 1 | A092321B | 21 | 245.8760 | 250 | 98 | | 80 | 120 |

TxtQcType: LCSMR  Matrix: AQUEOUS  SampleID: LCS MR 94429

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94429 | 1 | A092321B | 22 | 238.0820 | 250 | 95 | | 80 | 120 |
| Arsenic | 94429 | 1 | A092321B | 22 | 241.2090 | 250 | 96 | | 80 | 120 |
| Beryllium | 94429 | 1 | A092321B | 22 | 250.0420 | 250 | 100 | | 80 | 120 |
| Cadmium | 94429 | 1 | A092321B | 22 | 247.3110 | 250 | 99 | | 80 | 120 |
| Cobalt | 94429 | 1 | A092321B | 22 | 234.4080 | 250 | 94 | | 80 | 120 |
| Lead | 94429 | 1 | A092321B | 22 | 239.8700 | 250 | 96 | | 80 | 120 |
| Selenium | 94429 | 1 | A092321B | 22 | 240.4730 | 250 | 96 | | 80 | 120 |
| Thallium | 94429 | 1 | A092321B | 22 | 246.0180 | 250 | 98 | | 80 | 120 |

TxtQcType: MS  Matrix: AQUEOUS  SampleID: AD26083-043

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94429 | 1 | A092321B | 26 | A092321B | 23 | 222.9050 | 1.5U | 250 | 89 | | 75 | 125 |
| Arsenic | 94429 | 1 | A092321B | 26 | A092321B | 23 | 230.1730 | 1U | 250 | 92 | | 75 | 125 |
| Beryllium | 94429 | 1 | A092321B | 26 | A092321B | 23 | 226.5730 | 0.5U | 250 | 91 | | 75 | 125 |
| Cadmium | 94429 | 1 | A092321B | 26 | A092321B | 23 | 223.9350 | 1U | 250 | 90 | | 75 | 125 |
| Cobalt | 94429 | 1 | A092321B | 26 | A092321B | 23 | 222.8440 | 3.5180 | 250 | 88 | | 75 | 125 |
| Lead | 94429 | 1 | A092321B | 26 | A092321B | 23 | 210.1550 | 1.5U | 250 | 84 | | 75 | 125 |
| Selenium | 94429 | 1 | A092321B | 26 | A092321B | 23 | 222.7460 | 5U | 250 | 89 | | 75 | 125 |
| Thallium | 94429 | 1 | A092321B | 26 | A092321B | 23 | 215.5500 | 1U | 250 | 86 | | 75 | 125 |

TxtQcType: MSD  Matrix: AQUEOUS  SampleID: AD26083-045

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94429 | 1 | A092321B | 27 | A092321B | 23 | 231.2780 | 1.5U | 250 | 93 | | 75 | 125 |
| Arsenic | 94429 | 1 | A092321B | 27 | A092321B | 23 | 238.9870 | 1U | 250 | 96 | | 75 | 125 |
| Beryllium | 94429 | 1 | A092321B | 27 | A092321B | 23 | 234.3420 | 0.5U | 250 | 94 | | 75 | 125 |
| Cadmium | 94429 | 1 | A092321B | 27 | A092321B | 23 | 231.8900 | 1U | 250 | 93 | | 75 | 125 |
| Cobalt | 94429 | 1 | A092321B | 27 | A092321B | 23 | 231.7190 | 3.5180 | 250 | 91 | | 75 | 125 |
| Lead | 94429 | 1 | A092321B | 27 | A092321B | 23 | 218.8610 | 1.5U | 250 | 88 | | 75 | 125 |
| Selenium | 94429 | 1 | A092321B | 27 | A092321B | 23 | 233.2140 | 5U | 250 | 93 | | 75 | 125 |
| Thallium | 94429 | 1 | A092321B | 27 | A092321B | 23 | 225.4520 | 1U | 250 | 90 | | 75 | 125 |

a-Indicates Recovery Failed the criteria  b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94429

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: AQUEOUS SampleID: AD26083-041

| Analyte | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 1 | SW27669E | 21 | SW27669E | 17 | 5.3460 | 0.2U | 5.0 | 107 | | 75 | 125 |
| Barium | 1 | SW27669 | 64 | SW27669 | 60 | 2.4128 | 1.9552 | .5 | 92 | | 75 | 125 |
| Calcium | 1 | SW27669 | 64 | SW27669 | 60 | 130.4290 | 82.9735 | 50 | 95 | | 75 | 125 |
| Chromium | 1 | SW27669 | 64 | SW27669 | 60 | 0.5242 | 0.05U | .5 | 105 | | 75 | 125 |
| Copper | 1 | SW27669 | 64 | SW27669 | 60 | 0.5349 | 0.05U | .5 | 107 | | 75 | 125 |
| Iron | 1 | SW27669 | 64 | SW27669 | 60 | 14.1533 | 9.3685 | 5 | 96 | | 75 | 125 |
| Magnesium | 1 | SW27669 | 64 | SW27669 | 60 | 169.8650 | 122.0300 | 50 | 96 | | 75 | 125 |
| Manganese | 1 | SW27669 | 64 | SW27669 | 60 | 0.9650 | 0.4671 | .5 | 100 | | 75 | 125 |
| Nickel | 1 | SW27669 | 64 | SW27669 | 60 | 0.5444 | 0.05U | .5 | 109 | | 75 | 125 |
| Potassium | 1 | SW27669E | 21 | SW27669E | 17 | 142.4820 | 86.4162 | 50 | 112 | | 75 | 125 |
| Silver | 1 | SW27669 | 64 | SW27669 | 60 | 0.0580 | 0.02U | 0.1 | 58 | a | 75 | 125 |
| Sodium | 10 | SW27669E | 63 | SW27669E | 59 | 166.8330 | 98.8218 | 50 | 136 | a | 75 | 125 |
| Vanadium | 1 | SW27669 | 64 | SW27669 | 60 | 0.5364 | 0.05U | .5 | 107 | | 75 | 125 |
| Zinc | 1 | SW27669 | 64 | SW27669 | 60 | 0.5339 | 0.05U | .5 | 107 | | 75 | 125 |

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94429

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS  Matrix: AQUEOUS  SampleID: AD26083-041

| Analyte | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 1 | A092321B | 28 | A092321B | 23 | 51.3160 | 1.5U | 50 | 103 | | 75 | 125 |
| Arsenic | 1 | A092321B | 28 | A092321B | 23 | 52.1680 | 1U | 50 | 104 | | 75 | 125 |
| Beryllium | 1 | A092321B | 28 | A092321B | 23 | 47.4800 | 0.5U | 50 | 95 | | 75 | 125 |
| Cadmium | 1 | A092321B | 28 | A092321B | 23 | 48.3200 | 1U | 50 | 97 | | 75 | 125 |
| Cobalt | 1 | A092321B | 28 | A092321B | 23 | 53.5610 | 3.5180 | 50 | 100 | | 75 | 125 |
| Lead | 1 | A092321B | 28 | A092321B | 23 | 47.4670 | 1.5U | 50 | 95 | | 75 | 125 |
| Selenium | 1 | A092321B | 28 | A092321B | 23 | 248.3460 | 5U | 250 | 99 | | 75 | 125 |
| Thallium | 1 | A092321B | 28 | A092321B | 23 | 47.2310 | 1U | 50 | 94 | | 75 | 125 |

a-Indicates Recovery Failed the criteria  b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94442

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS Matrix: AQUEOUS SampleID: LCS 94442

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 94442 | 1 | H27683S | 12 | 10.1400 | 10 | 101 | | 80 | 120 |

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 94442

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 94442 | 1 | H27683S | 13 | 10.0200 | 10 | 100 | | 80 | 120 |

TxtQcType: MS Matrix: AQUEOUS SampleID: AD26218-001

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 94442 | 1 | H27683S | 16 | H27683S | 14 | 10.2200 | 0.50U | 10 | 102 | | 75 | 125 |

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD26218-001

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 94442 | 1 | H27683S | 17 | H27683S | 14 | 10.0200 | 0.50U | 10 | 100 | | 75 | 125 |

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94427

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS Matrix: AQUEOUS SampleID: LCS 94427

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94427 | 1 | SW27669A | 15 | 4.9378 | 5.0 | 99 | | 80 | 120 |
| Barium | 94427 | 1 | SW27669A | 16 | 0.5012 | 0.50 | 100 | | 80 | 120 |
| Calcium | 94427 | 1 | SW27669A | 16 | 50.0197 | 50.0 | 100 | | 80 | 120 |
| Chromium | 94427 | 1 | SW27669A | 16 | 0.5066 | 0.50 | 101 | | 80 | 120 |
| Copper | 94427 | 1 | SW27669A | 16 | 0.5053 | 0.50 | 101 | | 80 | 120 |
| Iron | 94427 | 1 | SW27669A | 16 | 5.0385 | 5.00 | 101 | | 80 | 120 |
| Magnesium | 94427 | 1 | SW27669A | 16 | 50.1038 | 50.0 | 100 | | 80 | 120 |
| Manganese | 94427 | 1 | SW27669A | 16 | 0.5017 | 0.50 | 100 | | 80 | 120 |
| Mercury | 94427 | 1 | H27669S | 12 | 9.9270 | 10 | 99 | | 80 | 120 |
| Nickel | 94427 | 1 | SW27669A | 16 | 0.5117 | 0.50 | 102 | | 80 | 120 |
| Potassium | 94427 | 1 | SW27669A | 15 | 48.7406 | 50 | 97 | | 80 | 120 |
| Silver | 94427 | 1 | SW27669A | 16 | 0.0974 | 0.10 | 97 | | 80 | 120 |
| Sodium | 94427 | 1 | SW27669A | 15 | 49.5455 | 50 | 99 | | 80 | 120 |
| Vanadium | 94427 | 1 | SW27669A | 16 | 0.5032 | 0.50 | 101 | | 80 | 120 |
| Zinc | 94427 | 1 | SW27669A | 16 | 0.5048 | 0.50 | 101 | | 80 | 120 |

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 94427

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94427 | 1 | SW27669A | 16 | 5.0187 | 5.0 | 100 | | 80 | 120 |
| Barium | 94427 | 1 | SW27669A | 17 | 0.5133 | 0.50 | 103 | | 80 | 120 |
| Calcium | 94427 | 1 | SW27669A | 17 | 51.4845 | 50.0 | 103 | | 80 | 120 |
| Chromium | 94427 | 1 | SW27669A | 17 | 0.5183 | 0.50 | 104 | | 80 | 120 |
| Copper | 94427 | 1 | SW27669A | 17 | 0.5169 | 0.50 | 103 | | 80 | 120 |
| Iron | 94427 | 1 | SW27669A | 17 | 5.1634 | 5.00 | 103 | | 80 | 120 |
| Magnesium | 94427 | 1 | SW27669A | 17 | 51.6331 | 50.0 | 103 | | 80 | 120 |
| Manganese | 94427 | 1 | SW27669A | 17 | 0.5134 | 0.50 | 103 | | 80 | 120 |
| Mercury | 94427 | 1 | H27669S | 13 | 9.8780 | 10 | 99 | | 80 | 120 |
| Nickel | 94427 | 1 | SW27669A | 17 | 0.5225 | 0.50 | 105 | | 80 | 120 |
| Potassium | 94427 | 1 | SW27669A | 16 | 49.0701 | 50 | 98 | | 80 | 120 |
| Silver | 94427 | 1 | SW27669A | 17 | 0.0999 | 0.10 | 100 | | 80 | 120 |
| Sodium | 94427 | 1 | SW27669A | 16 | 49.9245 | 50 | 100 | | 80 | 120 |
| Vanadium | 94427 | 1 | SW27669A | 17 | 0.5154 | 0.50 | 103 | | 80 | 120 |
| Zinc | 94427 | 1 | SW27669A | 17 | 0.5196 | 0.50 | 104 | | 80 | 120 |

TxtQcType: MS Matrix: AQUEOUS SampleID: AD26083-049

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94427 | 1 | SW27669A | 19 | SW27669A | 17 | 23.1025 | 0.2U | 5.000 | 462 | a | 75 | 125 |
| Barium | 94427 | 1 | SW27669A | 20 | SW27669A | 18 | 0.7999 | 0.3405 | 0.50 | 92 | | 75 | 125 |
| Calcium | 94427 | 1 | SW27669A | 20 | SW27669A | 18 | 261.3140 | 166.6140 | 50.0 | 189 | a | 75 | 125 |
| Chromium | 94427 | 1 | SW27669A | 20 | SW27669A | 18 | 0.4835 | 0.05U | 0.50 | 97 | | 75 | 125 |
| Copper | 94427 | 1 | SW27669A | 20 | SW27669A | 18 | 0.4815 | 0.05U | 0.50 | 96 | | 75 | 125 |
| Iron | 94427 | 1 | SW27669A | 20 | SW27669A | 18 | 40.1564 | 27.3641 | 5.00 | 256 | b | 75 | 125 |
| Magnesium | 94427 | 1 | SW27669A | 20 | SW27669A | 18 | 337.4520 | 273.0070 | 50.0 | 129 | b | 75 | 125 |
| Manganese | 94427 | 1 | SW27669A | 20 | SW27669A | 18 | 3.1895 | 2.4694 | 0.50 | 144 | b | 75 | 125 |
| Mercury | 94427 | 1 | H27669S | 16 | H27669S | 14 | 6.4380 | 0.50U | 10 | 64 | a | 75 | 125 |
| Nickel | 94427 | 1 | SW27669A | 20 | SW27669A | 18 | 0.5041 | 0.05U | 0.50 | 101 | | 75 | 125 |
| Potassium | 94427 | 1 | SW27669A | 19 | SW27669A | 17 | 156.3800 | 107.9460 | 50.00 | 97 | | 75 | 125 |
| Silver | 94427 | 1 | SW27669A | 20 | SW27669A | 18 | 0.0928 | 0.02U | 0.10 | 93 | | 75 | 125 |
| Sodium | 94427 | 10 | SW27669E | 43 | SW27669E | 41 | 277.7440 | 266.8360 | 50.00 | 218 | b | 75 | 125 |
| Vanadium | 94427 | 1 | SW27669A | 20 | SW27669A | 18 | 0.5031 | 0.05U | 0.50 | 101 | | 75 | 125 |
| Zinc | 94427 | 1 | SW27669A | 20 | SW27669A | 18 | 0.5800 | 0.05U | 0.50 | 116 | | 75 | 125 |

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94427

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD26083-050

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94427 | 1 | SW27669A | 20 | SW27669A | 17 | 32.3995 | 0.2U | 5.0 | 648 | a | 75 | 125 |
| Barium | 94427 | 1 | SW27669A | 21 | SW27669A | 18 | 0.8140 | 0.3405 | 0.50 | 95 | | 75 | 125 |
| Calcium | 94427 | 1 | SW27669A | 21 | SW27669A | 18 | 283.4820 | 166.6140 | 50.0 | 234 | a | 75 | 125 |
| Chromium | 94427 | 1 | SW27669A | 21 | SW27669A | 18 | 0.5003 | 0.05U | 0.50 | 100 | | 75 | 125 |
| Copper | 94427 | 1 | SW27669A | 21 | SW27669A | 18 | 0.4917 | 0.05U | 0.50 | 98 | | 75 | 125 |
| Iron | 94427 | 1 | SW27669A | 21 | SW27669A | 18 | 52.0468 | 27.3641 | 5.00 | 494 | b | 75 | 125 |
| Magnesium | 94427 | 1 | SW27669A | 21 | SW27669A | 18 | 351.0340 | 273.0070 | 50.0 | 156 | b | 75 | 125 |
| Manganese | 94427 | 1 | SW27669A | 21 | SW27669A | 18 | 3.4589 | 2.4694 | 0.50 | 198 | b | 75 | 125 |
| Mercury | 94427 | 1 | H27669S | 17 | H27669S | 14 | 6.3840 | 0.50U | 10 | 64 | a | 75 | 125 |
| Nickel | 94427 | 1 | SW27669A | 21 | SW27669A | 18 | 0.5289 | 0.05U | 0.50 | 106 | | 75 | 125 |
| Potassium | 94427 | 1 | SW27669A | 20 | SW27669A | 17 | 150.6480 | 107.9460 | 50 | 85 | | 75 | 125 |
| Silver | 94427 | 1 | SW27669A | 21 | SW27669A | 18 | 0.0921 | 0.02U | 0.10 | 92 | | 75 | 125 |
| Sodium | 94427 | 10 | SW27669E | 44 | SW27669E | 41 | 272.6210 | 266.8360 | 50 | 116 | | 75 | 125 |
| Vanadium | 94427 | 1 | SW27669A | 21 | SW27669A | 18 | 0.5221 | 0.05U | 0.50 | 104 | | 75 | 125 |
| Zinc | 94427 | 1 | SW27669A | 21 | SW27669A | 18 | 0.6259 | 0.05U | 0.50 | 125 | | 75 | 125 |

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94427

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS Matrix: AQUEOUS SampleID: LCSW 94427

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94427 | 1 | A092321A | 21 | 242.8250 | 250 | 97 | | 80 | 120 |
| Arsenic | 94427 | 1 | A092321A | 21 | 238.4920 | 250 | 95 | | 80 | 120 |
| Beryllium | 94427 | 1 | A092321A | 21 | 248.7970 | 250 | 100 | | 80 | 120 |
| Cadmium | 94427 | 1 | A092321A | 21 | 246.4620 | 250 | 99 | | 80 | 120 |
| Cobalt | 94427 | 1 | A092321A | 21 | 234.1590 | 250 | 94 | | 80 | 120 |
| Lead | 94427 | 1 | A092321A | 21 | 239.0230 | 250 | 96 | | 80 | 120 |
| Selenium | 94427 | 1 | A092321A | 21 | 240.0990 | 250 | 96 | | 80 | 120 |
| Thallium | 94427 | 1 | A092321A | 21 | 245.3280 | 250 | 98 | | 80 | 120 |

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 94427

| Analyte | BatchId | DF | Data File | Seq#: | Spk Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94427 | 1 | A092321A | 22 | 242.3950 | 250 | 97 | | 80 | 120 |
| Arsenic | 94427 | 1 | A092321A | 22 | 239.8160 | 250 | 96 | | 80 | 120 |
| Beryllium | 94427 | 1 | A092321A | 22 | 250.8640 | 250 | 100 | | 80 | 120 |
| Cadmium | 94427 | 1 | A092321A | 22 | 245.9200 | 250 | 98 | | 80 | 120 |
| Cobalt | 94427 | 1 | A092321A | 22 | 234.3680 | 250 | 94 | | 80 | 120 |
| Lead | 94427 | 1 | A092321A | 22 | 243.9650 | 250 | 98 | | 80 | 120 |
| Selenium | 94427 | 1 | A092321A | 22 | 241.0260 | 250 | 96 | | 80 | 120 |
| Thallium | 94427 | 1 | A092321A | 22 | 248.2980 | 250 | 99 | | 80 | 120 |

TxtQcType: MS Matrix: AQUEOUS SampleID: AD26083-049

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94427 | 1 | A092321A | 26 | A092321A | 23 | 199.3170 | 1.5U | 250 | 80 | | 75 | 125 |
| Arsenic | 94427 | 1 | A092321A | 26 | A092321A | 23 | 228.2070 | 3.4920 | 250 | 90 | | 75 | 125 |
| Beryllium | 94427 | 1 | A092321A | 26 | A092321A | 23 | 182.1650 | 0.5U | 250 | 73 | a | 75 | 125 |
| Cadmium | 94427 | 1 | A092321A | 26 | A092321A | 23 | 199.8140 | 1U | 250 | 80 | | 75 | 125 |
| Cobalt | 94427 | 1 | A092321A | 26 | A092321A | 23 | 211.0960 | 1.1850 | 250 | 84 | | 75 | 125 |
| Lead | 94427 | 1 | A092321A | 26 | A092321A | 23 | 195.5340 | 1.5U | 250 | 78 | | 75 | 125 |
| Selenium | 94427 | 1 | A092321A | 26 | A092321A | 23 | 210.6630 | 5U | 250 | 84 | | 75 | 125 |
| Thallium | 94427 | 1 | A092321A | 26 | A092321A | 23 | 193.1260 | 1U | 250 | 77 | | 75 | 125 |

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD26083-050

| Analyte | BatchId | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94427 | 1 | A092321A | 27 | A092321A | 23 | 192.7710 | 1.5U | 250 | 77 | | 75 | 125 |
| Arsenic | 94427 | 1 | A092321A | 27 | A092321A | 23 | 224.8460 | 3.4920 | 250 | 89 | | 75 | 125 |
| Beryllium | 94427 | 1 | A092321A | 27 | A092321A | 23 | 169.9760 | 0.5U | 250 | 68 | a | 75 | 125 |
| Cadmium | 94427 | 1 | A092321A | 27 | A092321A | 23 | 197.3110 | 1U | 250 | 79 | | 75 | 125 |
| Cobalt | 94427 | 1 | A092321A | 27 | A092321A | 23 | 209.7110 | 1.1850 | 250 | 83 | | 75 | 125 |
| Lead | 94427 | 1 | A092321A | 27 | A092321A | 23 | 195.9140 | 1.5U | 250 | 78 | | 75 | 125 |
| Selenium | 94427 | 1 | A092321A | 27 | A092321A | 23 | 209.1470 | 5U | 250 | 84 | | 75 | 125 |
| Thallium | 94427 | 1 | A092321A | 27 | A092321A | 23 | 190.5820 | 1U | 250 | 76 | | 75 | 125 |

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94427

Instrument Type: ICP/HG
Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: AQUEOUS SampleID: AD26083-048

| Analyte | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 1 | SW27669A | 21 | SW27669A | 17 | 5.5388 | 0.2U | 5.0 | 111 | | 75 | 125 |
| Barium | 1 | SW27669A | 22 | SW27669A | 18 | 0.9058 | 0.3405 | .5 | 113 | | 75 | 125 |
| Calcium | 1 | SW27669A | 22 | SW27669A | 18 | 217.3330 | 166.6140 | 50 | 101 | | 75 | 125 |
| Chromium | 1 | SW27669A | 22 | SW27669A | 18 | 0.5605 | 0.05U | .5 | 112 | | 75 | 125 |
| Copper | 1 | SW27669A | 22 | SW27669A | 18 | 0.5596 | 0.05U | .5 | 112 | | 75 | 125 |
| Iron | 1 | SW27669A | 22 | SW27669A | 18 | 32.1597 | 27.3641 | 5 | 96 | | 75 | 125 |
| Magnesium | 1 | SW27669A | 22 | SW27669A | 18 | 319.7650 | 273.0070 | 50 | 94 | | 75 | 125 |
| Manganese | 1 | SW27669A | 22 | SW27669A | 18 | 2.9600 | 2.4694 | .5 | 98 | | 75 | 125 |
| Nickel | 1 | SW27669A | 22 | SW27669A | 18 | 0.5611 | 0.05U | .5 | 112 | | 75 | 125 |
| Potassium | 1 | SW27669A | 21 | SW27669A | 17 | 172.5510 | 107.9460 | 50 | 129 | a | 75 | 125 |
| Silver | 1 | SW27669A | 22 | SW27669A | 18 | 0.0610 | 0.02U | 0.1 | 61 | a | 75 | 125 |
| Sodium | 10 | SW27669E | 45 | SW27669E | 41 | 335.5460 | 266.8360 | 50 | 137 | b | 75 | 125 |
| Vanadium | 1 | SW27669A | 22 | SW27669A | 18 | 0.5690 | 0.05U | .5 | 114 | | 75 | 125 |
| Zinc | 1 | SW27669A | 22 | SW27669A | 18 | 0.6216 | 0.05U | .5 | 124 | | 75 | 125 |

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM5/FORM7
## SPIKE RECOVERY DATA
PREP BATCH: 94427

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS | Matrix: AQUEOUS | SampleID: AD26083-048

| Analyte | DF | Data File | Seq#: | NS Data Fil | Seq# | Spk Conc: | NS Conc: | Spk Added | Recov | Qual | Lo Lim | Hi Lim |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 1 | A092321A | 28 | A092321A | 23 | 51.6830 | 1.5U | 50 | 103 | | 75 | 125 |
| Arsenic | 1 | A092321A | 28 | A092321A | 23 | 55.6630 | 3.4920 | 50 | 104 | | 75 | 125 |
| Beryllium | 1 | A092321A | 28 | A092321A | 23 | 49.1190 | 0.5U | 50 | 98 | | 75 | 125 |
| Cadmium | 1 | A092321A | 28 | A092321A | 23 | 47.2680 | 1U | 50 | 95 | | 75 | 125 |
| Cobalt | 1 | A092321A | 28 | A092321A | 23 | 50.7520 | 1.1850 | 50 | 99 | | 75 | 125 |
| Lead | 1 | A092321A | 28 | A092321A | 23 | 46.6420 | 1.5U | 50 | 93 | | 75 | 125 |
| Selenium | 1 | A092321A | 28 | A092321A | 23 | 253.3230 | 5U | 250 | 101 | | 75 | 125 |
| Thallium | 1 | A092321A | 28 | A092321A | 23 | 46.4990 | 1U | 50 | 93 | | 75 | 125 |

a-Indicates Recovery Failed the criteria  b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 94428

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 94428

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94428 | SW27669B | 31 | SW27669B | 30 | 4.7978 | 4.7986 | .019 | 20 |
| Barium | 94428 | SW27669 | 31 | SW27669 | 30 | 0.5005 | 0.4992 | .26 | 20 |
| Calcium | 94428 | SW27669 | 31 | SW27669 | 30 | 50.2932 | 50.4396 | .29 | 20 |
| Chromium | 94428 | SW27669 | 31 | SW27669 | 30 | 0.5093 | 0.5082 | .22 | 20 |
| Copper | 94428 | SW27669 | 31 | SW27669 | 30 | 0.5134 | 0.5118 | .32 | 20 |
| Iron | 94428 | SW27669 | 31 | SW27669 | 30 | 5.0459 | 5.0853 | .78 | 20 |
| Magnesium | 94428 | SW27669 | 31 | SW27669 | 30 | 50.6526 | 50.7908 | .27 | 20 |
| Manganese | 94428 | SW27669 | 31 | SW27669 | 30 | 0.5035 | 0.5027 | .15 | 20 |
| Mercury | 94428 | H27670S | 13 | H27670S | 12 | 9.4260 | 10.0900 | 6.8 | 20 |
| Nickel | 94428 | SW27669 | 31 | SW27669 | 30 | 0.5119 | 0.5142 | .45 | 20 |
| Potassium | 94428 | SW27669B | 31 | SW27669B | 30 | 46.8804 | 46.9589 | .17 | 20 |
| Silver | 94428 | SW27669 | 31 | SW27669 | 30 | 0.0984 | 0.0986 | .23 | 20 |
| Sodium | 94428 | SW27669B | 31 | SW27669B | 30 | 47.2799 | 47.4164 | .29 | 20 |
| Vanadium | 94428 | SW27669 | 31 | SW27669 | 30 | 0.5034 | 0.5016 | .35 | 20 |
| Zinc | 94428 | SW27669 | 31 | SW27669 | 30 | 0.4974 | 0.5029 | 1.1 | 20 |

TxtQcType: MR Matrix: AQUEOUS SampleID: AD26083-040

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94428 | SW27669B | 33 | SW27669B | 32 | 0.2U | 0.2U | --- | 20 |
| Barium | 94428 | SW27669 | 33 | SW27669 | 32 | 2.3825 | 2.3559 | 1.1 | 20 |
| Calcium | 94428 | SW27669 | 33 | SW27669 | 32 | 101.3110 | 100.7820 | 0.52 | 20 |
| Chromium | 94428 | SW27669 | 33 | SW27669 | 32 | 0.05U | 0.05U | --- | 20 |
| Copper | 94428 | SW27669 | 33 | SW27669 | 32 | 0.05U | 0.05U | --- | 20 |
| Iron | 94428 | SW27669 | 33 | SW27669 | 32 | 11.8499 | 11.7543 | 0.81 | 20 |
| Magnesium | 94428 | SW27669 | 33 | SW27669 | 32 | 152.3310 | 151.0130 | 0.87 | 20 |
| Manganese | 94428 | SW27669 | 33 | SW27669 | 32 | 0.5756 | 0.5701 | 0.97 | 20 |
| Mercury | 94428 | H27670S | 15 | H27670S | 14 | 0.50U | 0.50U | --- | 20 |
| Nickel | 94428 | SW27669 | 33 | SW27669 | 32 | 0.05U | 0.05U | --- | 20 |
| Potassium | 94428 | SW27669B | 33 | SW27669B | 32 | 113.8520 | 111.8740 | 1.8 | 20 |
| Silver | 94428 | SW27669 | 33 | SW27669 | 32 | 0.02U | 0.02U | --- | 20 |
| Sodium | 94428 | SW27669E | 51 | SW27669E | 50 | 137.0730 | 129.1540 | 5.9 | 20 |
| Vanadium | 94428 | SW27669 | 33 | SW27669 | 32 | 0.05U | 0.05U | --- | 20 |
| Zinc | 94428 | SW27669 | 33 | SW27669 | 32 | 0.05U | 0.05U | --- | 20 |

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD26083-044

| Analyte | BatchId | Data File | Seq#: | MS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94428 | SW27669B | 35 | SW27669B | 34 | 4.6075 | 4.6627 | 1.2 | 20 |
| Barium | 94428 | SW27669 | 35 | SW27669 | 34 | 2.8994 | 2.8860 | .46 | 20 |
| Calcium | 94428 | SW27669 | 35 | SW27669 | 34 | 152.2360 | 150.6690 | 1 | 20 |
| Chromium | 94428 | SW27669 | 35 | SW27669 | 34 | 0.5013 | 0.5042 | .58 | 20 |
| Copper | 94428 | SW27669 | 35 | SW27669 | 34 | 0.5083 | 0.5125 | .83 | 20 |
| Iron | 94428 | SW27669 | 35 | SW27669 | 34 | 16.8843 | 16.8369 | .28 | 20 |
| Magnesium | 94428 | SW27669 | 35 | SW27669 | 34 | 201.8170 | 201.6750 | .07 | 20 |
| Manganese | 94428 | SW27669 | 35 | SW27669 | 34 | 1.0726 | 1.0716 | .089 | 20 |
| Mercury | 94428 | H27670S | 17 | H27670S | 16 | 5.1760 | 5.2490 | 1.4 | 20 |
| Nickel | 94428 | SW27669 | 35 | SW27669 | 34 | 0.5315 | 0.5383 | 1.3 | 20 |
| Potassium | 94428 | SW27669B | 35 | SW27669B | 34 | 159.8980 | 159.7400 | .099 | 20 |
| Silver | 94428 | SW27669 | 35 | SW27669 | 34 | 0.1020 | 0.1026 | .62 | 20 |
| Sodium | 94428 | SW27669E | 53 | SW27669E | 52 | 140.5110 | 137.7730 | 2 | 20 |
| Vanadium | 94428 | SW27669 | 35 | SW27669 | 34 | 0.5119 | 0.5155 | .71 | 20 |
| Zinc | 94428 | SW27669 | 35 | SW27669 | 34 | 0.5213 | 0.5304 | 1.7 | 20 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 94428

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: SD Matrix: AQUEOUS SampleID: AD26083-040

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | DF | Result 1 | Result 2 | %Diff | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94428 | SW27669B | 37 | SW27669B | 32 | 5 | 0.0102 | 0.1592 | --- | | 10 |
| Barium | 94428 | SW27669 | 37 | SW27669 | 32 | 5 | 0.4664 | 2.3559 | 1 | | 10 |
| Calcium | 94428 | SW27669 | 37 | SW27669 | 32 | 5 | 20.4653 | 100.7820 | 1.5 | | 10 |
| Chromium | 94428 | SW27669 | 37 | SW27669 | 32 | 5 | 0.0010 | 0.0042 | --- | | 10 |
| Copper | 94428 | SW27669 | 37 | SW27669 | 32 | 5 | -0.0036 | -0.0109 | --- | | 10 |
| Iron | 94428 | SW27669 | 37 | SW27669 | 32 | 5 | 2.3411 | 11.7543 | 0.42 | | 10 |
| Magnesium | 94428 | SW27669 | 37 | SW27669 | 32 | 5 | 30.8195 | 151.0130 | 2 | | 10 |
| Manganese | 94428 | SW27669 | 37 | SW27669 | 32 | 5 | 0.1144 | 0.5701 | 0.34 | | 10 |
| Nickel | 94428 | SW27669 | 37 | SW27669 | 32 | 5 | 0.0138 | 0.0320 | 116 | c | 10 |
| Potassium | 94428 | SW27669B | 37 | SW27669B | 32 | 5 | 20.4955 | 111.8740 | 8.4 | | 10 |
| Silver | 94428 | SW27669 | 37 | SW27669 | 32 | 5 | 0.0008 | 0.0008 | --- | | 10 |
| Sodium | 94428 | SW27669E | 55 | SW27669E | 50 | 5 | 26.4312 | 129.1540 | 2.3 | | 10 |
| Vanadium | 94428 | SW27669 | 37 | SW27669 | 32 | 5 | 0.0039 | 0.0071 | 173 | c | 10 |
| Zinc | 94428 | SW27669 | 37 | SW27669 | 32 | 5 | 0.0052 | 0.0078 | --- | | 10 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 94428

Instrument Type: ICPMS

Analytical Method(s): 6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 94428

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94428 | A092421B | 22 | A092421B | 21 | 229.5610 | 225.1870 | 1.9 | | 20 |
| Arsenic | 94428 | A092421B | 22 | A092421B | 21 | 230.2810 | 231.6300 | .58 | | 20 |
| Beryllium | 94428 | A092421B | 22 | A092421B | 21 | 223.1800 | 225.7670 | 1.2 | | 20 |
| Cadmium | 94428 | A092421B | 22 | A092421B | 21 | 234.9460 | 234.2060 | .32 | | 20 |
| Cobalt | 94428 | A092421B | 22 | A092421B | 21 | 226.7920 | 228.1470 | .6 | | 20 |
| Lead | 94428 | A092421B | 22 | A092421B | 21 | 225.7250 | 227.7570 | .9 | | 20 |
| Selenium | 94428 | A092421B | 22 | A092421B | 21 | 230.9280 | 231.4350 | .22 | | 20 |
| Thallium | 94428 | A092421B | 22 | A092421B | 21 | 224.0630 | 225.4860 | .63 | | 20 |

TxtQcType: MR Matrix: AQUEOUS SampleID: AD26083-040

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94428 | A092421B | 24 | A092421B | 23 | 1.5U | 1.5U | --- | | 20 |
| Arsenic | 94428 | A092421B | 24 | A092421B | 23 | 1.1020 | 1.0830 | 1.7 | | 20 |
| Beryllium | 94428 | A092421B | 24 | A092421B | 23 | 0.5U | 0.5U | --- | | 20 |
| Cadmium | 94428 | A092421B | 24 | A092421B | 23 | 1U | 1U | --- | | 20 |
| Cobalt | 94428 | A092421B | 24 | A092421B | 23 | 3.9680 | 3.8330 | 3.5 | | 20 |
| Lead | 94428 | A092421B | 24 | A092421B | 23 | 1.5U | 1.5U | --- | | 20 |
| Selenium | 94428 | A092421B | 24 | A092421B | 23 | 5U | 5U | --- | | 20 |
| Thallium | 94428 | A092421B | 24 | A092421B | 23 | 1U | 1U | --- | | 20 |

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD26083-044

| Analyte | BatchId | Data File | Seq#: | MS File | Seq# | Result 1 | Result 2 | RPD | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94428 | A092421B | 27 | A092421B | 26 | 216.5860 | 229.8730 | 6 | | 20 |
| Arsenic | 94428 | A092421B | 27 | A092421B | 26 | 229.9130 | 245.6210 | 6.6 | | 20 |
| Beryllium | 94428 | A092421B | 27 | A092421B | 26 | 203.5670 | 217.9070 | 6.8 | | 20 |
| Cadmium | 94428 | A092421B | 27 | A092421B | 26 | 216.9960 | 227.5500 | 4.7 | | 20 |
| Cobalt | 94428 | A092421B | 27 | A092421B | 26 | 220.5310 | 238.1800 | 7.7 | | 20 |
| Lead | 94428 | A092421B | 27 | A092421B | 26 | 200.0890 | 211.3110 | 5.5 | | 20 |
| Selenium | 94428 | A092421B | 27 | A092421B | 26 | 225.4800 | 241.4320 | 6.8 | | 20 |
| Thallium | 94428 | A092421B | 27 | A092421B | 26 | 199.6820 | 209.3840 | 4.7 | | 20 |

TxtQcType: SD Matrix: AQUEOUS SampleID: AD26083-040

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | DF | Result 1 | Result 2 | %Diff | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94428 | A092421B | 25 | A092421B | 23 | 5 | 0.0510 | 0.2640 | 3.4 | | 20 |
| Arsenic | 94428 | A092421B | 25 | A092421B | 23 | 5 | 0.2050 | 1.0830 | 5.4 | | 20 |
| Beryllium | 94428 | A092421B | 25 | A092421B | 23 | 5 | 0.0310 | 0.1190 | 30 | c | 20 |
| Cadmium | 94428 | A092421B | 25 | A092421B | 23 | 5 | 0.0050 | 0.0150 | --- | | 20 |
| Cobalt | 94428 | A092421B | 25 | A092421B | 23 | 5 | 0.7580 | 3.8330 | 1.1 | | 20 |
| Lead | 94428 | A092421B | 25 | A092421B | 23 | 5 | 0.1950 | 0.6420 | 52 | c | 20 |
| Selenium | 94428 | A092421B | 25 | A092421B | 23 | 5 | 0.1270 | 0.6130 | --- | | 20 |
| Thallium | 94428 | A092421B | 25 | A092421B | 23 | 5 | 0.0450 | 0.4710 | 52 | c | 20 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH:94429

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID:LCS MR 94429

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94429 | SW27669E | 16 | SW27669E | 15 | 4.9719 | 5.0176 | .91 | 20 |
| Barium | 94429 | SW27669 | 59 | SW27669 | 58 | 0.4831 | 0.4898 | 1.4 | 20 |
| Calcium | 94429 | SW27669 | 59 | SW27669 | 58 | 48.5202 | 49.4611 | 1.9 | 20 |
| Chromium | 94429 | SW27669 | 59 | SW27669 | 58 | 0.4934 | 0.5001 | 1.3 | 20 |
| Copper | 94429 | SW27669 | 59 | SW27669 | 58 | 0.4961 | 0.5027 | 1.3 | 20 |
| Iron | 94429 | SW27669 | 59 | SW27669 | 58 | 4.8270 | 4.8952 | 1.4 | 20 |
| Magnesium | 94429 | SW27669 | 59 | SW27669 | 58 | 48.0715 | 49.0809 | 2.1 | 20 |
| Manganese | 94429 | SW27669 | 59 | SW27669 | 58 | 0.4850 | 0.4922 | 1.5 | 20 |
| Mercury | 94429 | H27671S | 13 | H27671S | 12 | 10.6000 | 11.1000 | 4.6 | 20 |
| Nickel | 94429 | SW27669 | 59 | SW27669 | 58 | 0.4936 | 0.5044 | 2.1 | 20 |
| Potassium | 94429 | SW27669E | 16 | SW27669E | 15 | 47.1697 | 47.6084 | .93 | 20 |
| Silver | 94429 | SW27669 | 59 | SW27669 | 58 | 0.0971 | 0.0987 | 1.7 | 20 |
| Sodium | 94429 | SW27669E | 16 | SW27669E | 15 | 47.1423 | 47.5815 | .93 | 20 |
| Vanadium | 94429 | SW27669 | 59 | SW27669 | 58 | 0.4884 | 0.4958 | 1.5 | 20 |
| Zinc | 94429 | SW27669 | 59 | SW27669 | 58 | 0.4805 | 0.4888 | 1.7 | 20 |

TxtQcType: MR Matrix: AQUEOUS SampleID:AD26083-041

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94429 | SW27669E | 18 | SW27669E | 17 | 0.2U | 0.2U | --- | 20 |
| Barium | 94429 | SW27669 | 61 | SW27669 | 60 | 1.8413 | 1.9552 | 6 | 20 |
| Calcium | 94429 | SW27669 | 61 | SW27669 | 60 | 79.3551 | 82.9735 | 4.5 | 20 |
| Chromium | 94429 | SW27669 | 61 | SW27669 | 60 | 0.05U | 0.05U | --- | 20 |
| Copper | 94429 | SW27669 | 61 | SW27669 | 60 | 0.05U | 0.05U | --- | 20 |
| Iron | 94429 | SW27669 | 61 | SW27669 | 60 | 8.8348 | 9.3685 | 5.9 | 20 |
| Magnesium | 94429 | SW27669 | 61 | SW27669 | 60 | 117.1790 | 122.0300 | 4.1 | 20 |
| Manganese | 94429 | SW27669 | 61 | SW27669 | 60 | 0.4400 | 0.4671 | 6 | 20 |
| Mercury | 94429 | H27671S | 15 | H27671S | 14 | 0.50U | 0.50U | --- | 20 |
| Nickel | 94429 | SW27669 | 61 | SW27669 | 60 | 0.05U | 0.05U | --- | 20 |
| Potassium | 94429 | SW27669E | 18 | SW27669E | 17 | 91.4890 | 86.4162 | 5.7 | 20 |
| Silver | 94429 | SW27669 | 61 | SW27669 | 60 | 0.02U | 0.02U | --- | 20 |
| Sodium | 94429 | SW27669E | 60 | SW27669E | 59 | 108.1400 | 98.8218 | 9 | 20 |
| Vanadium | 94429 | SW27669 | 61 | SW27669 | 60 | 0.05U | 0.05U | --- | 20 |
| Zinc | 94429 | SW27669 | 61 | SW27669 | 60 | 0.05U | 0.05U | --- | 20 |

TxtQcType: MSD Matrix: AQUEOUS SampleID:AD26083-045

| Analyte | BatchId | Data File | Seq#: | MS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94429 | SW27669E | 20 | SW27669E | 19 | 4.9659 | 4.9339 | .65 | 20 |
| Barium | 94429 | SW27669 | 63 | SW27669 | 62 | 2.1997 | 2.1737 | 1.2 | 20 |
| Calcium | 94429 | SW27669 | 63 | SW27669 | 62 | 121.3820 | 119.0540 | 1.9 | 20 |
| Chromium | 94429 | SW27669 | 63 | SW27669 | 62 | 0.4925 | 0.4885 | .82 | 20 |
| Copper | 94429 | SW27669 | 63 | SW27669 | 62 | 0.5038 | 0.4992 | .92 | 20 |
| Iron | 94429 | SW27669 | 63 | SW27669 | 62 | 13.0047 | 12.8675 | 1.1 | 20 |
| Magnesium | 94429 | SW27669 | 63 | SW27669 | 62 | 155.5330 | 154.8510 | .44 | 20 |
| Manganese | 94429 | SW27669 | 63 | SW27669 | 62 | 0.8903 | 0.8801 | 1.2 | 20 |
| Mercury | 94429 | H27671S | 17 | H27671S | 16 | 6.9800 | 7.2050 | 3.2 | 20 |
| Nickel | 94429 | SW27669 | 63 | SW27669 | 62 | 0.5109 | 0.5060 | .96 | 20 |
| Potassium | 94429 | SW27669E | 20 | SW27669E | 19 | 138.7110 | 137.5210 | .86 | 20 |
| Silver | 94429 | SW27669 | 63 | SW27669 | 62 | 0.1009 | 0.1002 | .68 | 20 |
| Sodium | 94429 | SW27669E | 62 | SW27669E | 61 | 112.1480 | 106.4900 | 5.2 | 20 |
| Vanadium | 94429 | SW27669 | 63 | SW27669 | 62 | 0.5029 | 0.4971 | 1.2 | 20 |
| Zinc | 94429 | SW27669 | 63 | SW27669 | 62 | 0.4990 | 0.5000 | .19 | 20 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 94429

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: SD Matrix: AQUEOUS SampleID: AD26083-041

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | DF | Result 1 | Result 2 | %Diff | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94429 | SW27669E | 22 | SW27669E | 17 | 5 | 0.0101 | 0.0559 | --- | | 10 |
| Barium | 94429 | SW27669 | 65 | SW27669 | 60 | 5 | 0.3835 | 1.9552 | 1.9 | | 10 |
| Calcium | 94429 | SW27669 | 65 | SW27669 | 60 | 5 | 17.0185 | 82.9735 | 2.6 | | 10 |
| Chromium | 94429 | SW27669 | 65 | SW27669 | 60 | 5 | 0.0020 | 0.0036 | --- | | 10 |
| Copper | 94429 | SW27669 | 65 | SW27669 | 60 | 5 | -0.0001 | -0.0078 | --- | | 10 |
| Iron | 94429 | SW27669 | 65 | SW27669 | 60 | 5 | 1.8557 | 9.3685 | 0.96 | | 10 |
| Magnesium | 94429 | SW27669 | 65 | SW27669 | 60 | 5 | 25.2305 | 122.0300 | 3.4 | | 10 |
| Manganese | 94429 | SW27669 | 65 | SW27669 | 60 | 5 | 0.0931 | 0.4671 | 0.34 | | 10 |
| Nickel | 94429 | SW27669 | 65 | SW27669 | 60 | 5 | 0.0112 | 0.0284 | 96 | c | 10 |
| Potassium | 94429 | SW27669E | 22 | SW27669E | 17 | 5 | 17.1385 | 86.4162 | 0.84 | | 10 |
| Silver | 94429 | SW27669 | 65 | SW27669 | 60 | 5 | 0.0005 | 0.0004 | --- | | 10 |
| Sodium | 94429 | SW27669E | 64 | SW27669E | 59 | 5 | 19.9744 | 98.8218 | 1.1 | | 10 |
| Vanadium | 94429 | SW27669 | 65 | SW27669 | 60 | 5 | 0.0049 | 0.0081 | 201 | c | 10 |
| Zinc | 94429 | SW27669 | 65 | SW27669 | 60 | 5 | 0.0046 | 0.0069 | --- | | 10 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 94429

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 94429

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94429 | A092321B | 22 | A092321B | 21 | 238.0820 | 237.5300 | .23 | 20 |
| Arsenic | 94429 | A092321B | 22 | A092321B | 21 | 241.2090 | 240.6420 | .24 | 20 |
| Beryllium | 94429 | A092321B | 22 | A092321B | 21 | 250.0420 | 253.6630 | 1.4 | 20 |
| Cadmium | 94429 | A092321B | 22 | A092321B | 21 | 247.3110 | 248.1290 | .33 | 20 |
| Cobalt | 94429 | A092321B | 22 | A092321B | 21 | 234.4080 | 233.1840 | .52 | 20 |
| Lead | 94429 | A092321B | 22 | A092321B | 21 | 239.8700 | 240.3090 | .18 | 20 |
| Selenium | 94429 | A092321B | 22 | A092321B | 21 | 240.4730 | 236.7640 | 1.6 | 20 |
| Thallium | 94429 | A092321B | 22 | A092321B | 21 | 246.0180 | 245.8760 | .058 | 20 |

TxtQcType: MR Matrix: AQUEOUS SampleID: AD26083-041

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94429 | A092321B | 24 | A092321B | 23 | 1.5U | 1.5U | --- | 20 |
| Arsenic | 94429 | A092321B | 24 | A092321B | 23 | 1U | 1U | --- | 20 |
| Beryllium | 94429 | A092321B | 24 | A092321B | 23 | 0.5U | 0.5U | --- | 20 |
| Cadmium | 94429 | A092321B | 24 | A092321B | 23 | 1U | 1U | --- | 20 |
| Cobalt | 94429 | A092321B | 24 | A092321B | 23 | 3.1890 | 3.5180 | 9.8 | 20 |
| Lead | 94429 | A092321B | 24 | A092321B | 23 | 1.5U | 1.5U | --- | 20 |
| Selenium | 94429 | A092321B | 24 | A092321B | 23 | 5U | 5U | --- | 20 |
| Thallium | 94429 | A092321B | 24 | A092321B | 23 | 1U | 1U | --- | 20 |

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD26083-045

| Analyte | BatchId | Data File | Seq#: | MS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94429 | A092321B | 27 | A092321B | 26 | 231.2780 | 222.9050 | 3.7 | 20 |
| Arsenic | 94429 | A092321B | 27 | A092321B | 26 | 238.9870 | 230.1730 | 3.8 | 20 |
| Beryllium | 94429 | A092321B | 27 | A092321B | 26 | 234.3420 | 226.5730 | 3.4 | 20 |
| Cadmium | 94429 | A092321B | 27 | A092321B | 26 | 231.8900 | 223.9350 | 3.5 | 20 |
| Cobalt | 94429 | A092321B | 27 | A092321B | 26 | 231.7190 | 222.8440 | 3.9 | 20 |
| Lead | 94429 | A092321B | 27 | A092321B | 26 | 218.8610 | 210.1550 | 4.1 | 20 |
| Selenium | 94429 | A092321B | 27 | A092321B | 26 | 233.2140 | 222.7460 | 4.6 | 20 |
| Thallium | 94429 | A092321B | 27 | A092321B | 26 | 225.4520 | 215.5500 | 4.5 | 20 |

TxtQcType: SD Matrix: AQUEOUS SampleID: AD26083-041

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | DF | Result 1 | Result 2 | %Diff | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94429 | A092321B | 25 | A092321B | 23 | 5 | 0.0460 | 0.2640 | 13 | c | 20 |
| Arsenic | 94429 | A092321B | 25 | A092321B | 23 | 5 | 0.1760 | 0.9640 | 8.7 | | 20 |
| Beryllium | 94429 | A092321B | 25 | A092321B | 23 | 5 | 0.0490 | 0.1980 | 24 | c | 20 |
| Cadmium | 94429 | A092321B | 25 | A092321B | 23 | 5 | 0.0050 | 0.0140 | --- | | 20 |
| Cobalt | 94429 | A092321B | 25 | A092321B | 23 | 5 | 0.6860 | 3.5180 | 2.5 | | 20 |
| Lead | 94429 | A092321B | 25 | A092321B | 23 | 5 | 0.0260 | 0.1000 | --- | | 20 |
| Selenium | 94429 | A092321B | 25 | A092321B | 23 | 5 | 0.2060 | 0.5020 | --- | | 20 |
| Thallium | 94429 | A092321B | 25 | A092321B | 23 | 5 | 0.0480 | 0.5050 | 52 | c | 20 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 94442

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 94442

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 94442 | H27683S | 13 | H27683S | 12 | 10.0200 | 10.1400 | 1.2 | 20 |

TxtQcType: MR Matrix: AQUEOUS SampleID: AD26218-001

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 94442 | H27683S | 15 | H27683S | 14 | 0.50U | 0.50U | --- | 20 |

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD26218-001

| Analyte | BatchId | Data File | Seq#: | MS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 94442 | H27683S | 17 | H27683S | 16 | 10.0200 | 10.2200 | 2 | 20 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 94427

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 94427

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94427 | SW27669A | 16 | SW27669A | 15 | 5.0187 | 4.9378 | 1.6 | | 20 |
| Barium | 94427 | SW27669A | 17 | SW27669A | 16 | 0.5133 | 0.5012 | 2.4 | | 20 |
| Calcium | 94427 | SW27669A | 17 | SW27669A | 16 | 51.4845 | 50.0197 | 2.9 | | 20 |
| Chromium | 94427 | SW27669A | 17 | SW27669A | 16 | 0.5183 | 0.5066 | 2.3 | | 20 |
| Copper | 94427 | SW27669A | 17 | SW27669A | 16 | 0.5169 | 0.5053 | 2.3 | | 20 |
| Iron | 94427 | SW27669A | 17 | SW27669A | 16 | 5.1634 | 5.0385 | 2.4 | | 20 |
| Magnesium | 94427 | SW27669A | 17 | SW27669A | 16 | 51.6331 | 50.1038 | 3 | | 20 |
| Manganese | 94427 | SW27669A | 17 | SW27669A | 16 | 0.5134 | 0.5017 | 2.3 | | 20 |
| Mercury | 94427 | H27669S | 13 | H27669S | 12 | 9.8780 | 9.9270 | .49 | | 20 |
| Nickel | 94427 | SW27669A | 17 | SW27669A | 16 | 0.5225 | 0.5117 | 2.1 | | 20 |
| Potassium | 94427 | SW27669A | 16 | SW27669A | 15 | 49.0701 | 48.7406 | .67 | | 20 |
| Silver | 94427 | SW27669A | 17 | SW27669A | 16 | 0.0999 | 0.0974 | 2.5 | | 20 |
| Sodium | 94427 | SW27669A | 16 | SW27669A | 15 | 49.9245 | 49.5455 | .76 | | 20 |
| Vanadium | 94427 | SW27669A | 17 | SW27669A | 16 | 0.5154 | 0.5032 | 2.4 | | 20 |
| Zinc | 94427 | SW27669A | 17 | SW27669A | 16 | 0.5196 | 0.5048 | 2.9 | | 20 |

TxtQcType: MR Matrix: AQUEOUS SampleID: AD26083-048

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94427 | SW27669A | 18 | SW27669A | 17 | 0.2U | 0.2U | --- | | 20 |
| Barium | 94427 | SW27669A | 19 | SW27669A | 18 | 0.3345 | 0.3405 | 1.8 | | 20 |
| Calcium | 94427 | SW27669A | 19 | SW27669A | 18 | 167.1740 | 166.6140 | 0.34 | | 20 |
| Chromium | 94427 | SW27669A | 19 | SW27669A | 18 | 0.05U | 0.05U | --- | | 20 |
| Copper | 94427 | SW27669A | 19 | SW27669A | 18 | 0.05U | 0.05U | --- | | 20 |
| Iron | 94427 | SW27669A | 19 | SW27669A | 18 | 27.1690 | 27.3641 | 0.72 | | 20 |
| Magnesium | 94427 | SW27669A | 19 | SW27669A | 18 | 271.4970 | 273.0070 | 0.55 | | 20 |
| Manganese | 94427 | SW27669A | 19 | SW27669A | 18 | 2.4514 | 2.4694 | 0.73 | | 20 |
| Mercury | 94427 | H27669S | 15 | H27669S | 14 | 0.50U | 0.50U | --- | | 20 |
| Nickel | 94427 | SW27669A | 19 | SW27669A | 18 | 0.05U | 0.05U | --- | | 20 |
| Potassium | 94427 | SW27669A | 18 | SW27669A | 17 | 108.4150 | 107.9460 | 0.43 | | 20 |
| Silver | 94427 | SW27669A | 19 | SW27669A | 18 | 0.02U | 0.02U | --- | | 20 |
| Sodium | 94427 | SW27669E | 42 | SW27669E | 41 | 260.5640 | 266.8360 | 2.4 | | 20 |
| Vanadium | 94427 | SW27669A | 19 | SW27669A | 18 | 0.05U | 0.05U | --- | | 20 |
| Zinc | 94427 | SW27669A | 19 | SW27669A | 18 | 0.05U | 0.05U | --- | | 20 |

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD26083-050

| Analyte | BatchId | Data File | Seq#: | MS File | Seq# | Result 1 | Result 2 | RPD | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94427 | SW27669A | 20 | SW27669A | 19 | 32.3995 | 23.1025 | 34 | a | 20 |
| Barium | 94427 | SW27669A | 21 | SW27669A | 20 | 0.8140 | 0.7999 | 1.7 | | 20 |
| Calcium | 94427 | SW27669A | 21 | SW27669A | 20 | 283.4820 | 261.3140 | 8.1 | | 20 |
| Chromium | 94427 | SW27669A | 21 | SW27669A | 20 | 0.5003 | 0.4835 | 3.4 | | 20 |
| Copper | 94427 | SW27669A | 21 | SW27669A | 20 | 0.4917 | 0.4815 | 2.1 | | 20 |
| Iron | 94427 | SW27669A | 21 | SW27669A | 20 | 52.0468 | 40.1564 | 26 | a | 20 |
| Magnesium | 94427 | SW27669A | 21 | SW27669A | 20 | 351.0340 | 337.4520 | 3.9 | | 20 |
| Manganese | 94427 | SW27669A | 21 | SW27669A | 20 | 3.4589 | 3.1895 | 8.1 | | 20 |
| Mercury | 94427 | H27669S | 17 | H27669S | 16 | 6.3840 | 6.4380 | .84 | | 20 |
| Nickel | 94427 | SW27669A | 21 | SW27669A | 20 | 0.5289 | 0.5041 | 4.8 | | 20 |
| Potassium | 94427 | SW27669A | 20 | SW27669A | 19 | 150.6480 | 156.3800 | 3.7 | | 20 |
| Silver | 94427 | SW27669A | 21 | SW27669A | 20 | 0.0921 | 0.0928 | .75 | | 20 |
| Sodium | 94427 | SW27669E | 44 | SW27669E | 43 | 272.6210 | 277.7440 | 1.9 | | 20 |
| Vanadium | 94427 | SW27669A | 21 | SW27669A | 20 | 0.5221 | 0.5031 | 3.7 | | 20 |
| Zinc | 94427 | SW27669A | 21 | SW27669A | 20 | 0.6259 | 0.5800 | 7.6 | | 20 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 94427

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: SD Matrix: AQUEOUS SampleID: AD26083-048

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | DF | Result 1 | Result 2 | %Diff | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 94427 | SW27669A | 22 | SW27669A | 17 | 5 | 0.0641 | 0.1623 | 98 | c | 10 |
| Barium | 94427 | SW27669A | 23 | SW27669A | 18 | 5 | 0.0613 | 0.3405 | 10 | | 10 |
| Calcium | 94427 | SW27669A | 23 | SW27669A | 18 | 5 | 32.4326 | 166.6140 | 2.7 | | 10 |
| Chromium | 94427 | SW27669A | 23 | SW27669A | 18 | 5 | -0.0007 | 0.0038 | --- | | 10 |
| Copper | 94427 | SW27669A | 23 | SW27669A | 18 | 5 | -0.0170 | -0.0270 | --- | | 10 |
| Iron | 94427 | SW27669A | 23 | SW27669A | 18 | 5 | 5.2822 | 27.3641 | 3.5 | | 10 |
| Magnesium | 94427 | SW27669A | 23 | SW27669A | 18 | 5 | 53.3823 | 273.0070 | 2.2 | | 10 |
| Manganese | 94427 | SW27669A | 23 | SW27669A | 18 | 5 | 0.4717 | 2.4694 | 4.5 | | 10 |
| Nickel | 94427 | SW27669A | 23 | SW27669A | 18 | 5 | -0.0146 | -0.0158 | --- | | 10 |
| Potassium | 94427 | SW27669A | 22 | SW27669A | 17 | 5 | 20.8101 | 107.9460 | 3.6 | | 10 |
| Silver | 94427 | SW27669A | 23 | SW27669A | 18 | 5 | -0.0008 | -0.0020 | --- | | 10 |
| Sodium | 94427 | SW27669E | 46 | SW27669E | 41 | 5 | 53.7094 | 266.8360 | 0.64 | | 10 |
| Vanadium | 94427 | SW27669A | 23 | SW27669A | 18 | 5 | 0.0004 | 0.0022 | --- | | 10 |
| Zinc | 94427 | SW27669A | 23 | SW27669A | 18 | 5 | 0.0082 | 0.0298 | --- | | 10 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

# FORM6/FORM9

## RPD/%Difference Data

PREP BATCH: 94427

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 94427

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94427 | A092321A | 22 | A092321A | 21 | 242.3950 | 242.8250 | .18 | 20 |
| Arsenic | 94427 | A092321A | 22 | A092321A | 21 | 239.8160 | 238.4920 | .55 | 20 |
| Beryllium | 94427 | A092321A | 22 | A092321A | 21 | 250.8640 | 248.7970 | .83 | 20 |
| Cadmium | 94427 | A092321A | 22 | A092321A | 21 | 245.9200 | 246.4620 | .22 | 20 |
| Cobalt | 94427 | A092321A | 22 | A092321A | 21 | 234.3680 | 234.1590 | .089 | 20 |
| Lead | 94427 | A092321A | 22 | A092321A | 21 | 243.9650 | 239.0230 | 2 | 20 |
| Selenium | 94427 | A092321A | 22 | A092321A | 21 | 241.0260 | 240.0990 | .39 | 20 |
| Thallium | 94427 | A092321A | 22 | A092321A | 21 | 248.2980 | 245.3280 | 1.2 | 20 |

TxtQcType: MR Matrix: AQUEOUS SampleID: AD26083-048

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94427 | A092321A | 24 | A092321A | 23 | 1.5U | 1.5U | --- | 20 |
| Arsenic | 94427 | A092321A | 24 | A092321A | 23 | 3.4000 | 3.4920 | 2.7 | 20 |
| Beryllium | 94427 | A092321A | 24 | A092321A | 23 | 0.5U | 0.5U | --- | 20 |
| Cadmium | 94427 | A092321A | 24 | A092321A | 23 | 1U | 1U | --- | 20 |
| Cobalt | 94427 | A092321A | 24 | A092321A | 23 | 1.1810 | 1.1850 | 0.34 | 20 |
| Lead | 94427 | A092321A | 24 | A092321A | 23 | 1.5U | 1.5U | --- | 20 |
| Selenium | 94427 | A092321A | 24 | A092321A | 23 | 5U | 5U | --- | 20 |
| Thallium | 94427 | A092321A | 24 | A092321A | 23 | 1U | 1U | --- | 20 |

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD26083-050

| Analyte | BatchId | Data File | Seq#: | MS File | Seq# | Result 1 | Result 2 | RPD | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94427 | A092321A | 27 | A092321A | 26 | 192.7710 | 199.3170 | 3.3 | 20 |
| Arsenic | 94427 | A092321A | 27 | A092321A | 26 | 224.8460 | 228.2070 | 1.5 | 20 |
| Beryllium | 94427 | A092321A | 27 | A092321A | 26 | 169.9760 | 182.1650 | 6.9 | 20 |
| Cadmium | 94427 | A092321A | 27 | A092321A | 26 | 197.3110 | 199.8140 | 1.3 | 20 |
| Cobalt | 94427 | A092321A | 27 | A092321A | 26 | 209.7110 | 211.0960 | .66 | 20 |
| Lead | 94427 | A092321A | 27 | A092321A | 26 | 195.9140 | 195.5340 | .19 | 20 |
| Selenium | 94427 | A092321A | 27 | A092321A | 26 | 209.1470 | 210.6630 | .72 | 20 |
| Thallium | 94427 | A092321A | 27 | A092321A | 26 | 190.5820 | 193.1260 | 1.3 | 20 |

TxtQcType: SD Matrix: AQUEOUS SampleID: AD26083-048

| Analyte | BatchId | Data File | Seq#: | NS File | Seq# | DF | Result 1 | Result 2 | %Diff | | Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 94427 | A092321A | 25 | A092321A | 23 | 5 | -0.1140 | 0.0840 | --- | | 20 |
| Arsenic | 94427 | A092321A | 25 | A092321A | 23 | 5 | 0.6900 | 3.4920 | 1.2 | | 20 |
| Beryllium | 94427 | A092321A | 25 | A092321A | 23 | 5 | 0.0330 | 0.1200 | 38 | c | 20 |
| Cadmium | 94427 | A092321A | 25 | A092321A | 23 | 5 | 0.0080 | 0.0390 | --- | | 20 |
| Cobalt | 94427 | A092321A | 25 | A092321A | 23 | 5 | 0.2290 | 1.1850 | 3.4 | | 20 |
| Lead | 94427 | A092321A | 25 | A092321A | 23 | 5 | 0.0720 | 0.2850 | 26 | c | 20 |
| Selenium | 94427 | A092321A | 25 | A092321A | 23 | 5 | 0.0600 | 0.2830 | --- | | 20 |
| Thallium | 94427 | A092321A | 25 | A092321A | 23 | 5 | 0.0380 | 0.5170 | 63 | c | 20 |

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

1091738 1993

# Metal Data
# Verification of Instrument Parameters

**INTERELEMENT CORRECTION SUMMARY PEICP2ax**



| Interfered Elements | Interfering Elements | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Al | Ca | Fe | Mg | B | Ba | Cu | Ce | Mn | Mo |
| Al | N/A | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Sb | -0.3352 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -7.499 |
| As | 0.0694 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Ba | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | N/A | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Be | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| B | 0.0000 | 0.0000 | 3.8472 | 0.0000 | N/A | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Cd | 0.0000 | 0.0000 | -0.2450 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Ca | 0.0000 | N/A | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Ce | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | N/A | 0.0000 | 0.000 |
| Cr | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Co | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -2.8394 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Cu | 0.0000 | -0.0121 | 0.0000 | 0.0116 | 0.0000 | 0.0000 | N/A | 0.0000 | 0.0000 | 0.000 |
| Fe | 0.0000 | 0.0000 | N/A | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Pb | -0.4677 | 0.0000 | 0.0000 | -0.0344 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Mg | 0.0000 | 0.0000 | 0.0000 | N/A | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Mn | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | N/A | 0.000 |
| Mo | -0.0773 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | N/A |
| Ni | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0 |
| Se | 0.1511 | 0.0000 | -0.0522 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Si | 0.0000 | 0.0000 | -0.4506 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Ag | 0.0000 | 0.0000 | -0.0658 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -0.7486 | 0.0000 | 0.000 |
| Na | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Tl | -0.0824 | -0.0683 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | -3.0180 | 0.0000 | 0.000 |
| Sn | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Ti | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| V | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| Zn | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |

IECs run 07/25/2021
Cu 7/30/21 Sb,B,Pb,Mo,Se,Tl 9/8/21 Cu,Pb,Se,Sb,Mo,B 9/10/21

## INTERELEMENT CORRECTION SUMMARY PEICP2ax



| Interfered Elements | Interfering Elements | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Na | Ni | Se | Si | Sn | Ti | V | Zn |
| Al | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | **0.0000** | 0.0000 |
| Sb | 0.0000 | 0.0000 | 0.0000 | 0.0000 | **0.0000** | 0.0000 | **0.0000** | 0.0000 |
| As | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Ba | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Be | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| B | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Cd | 0.0000 | -9.6453 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Ca | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Ce | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Cr | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Co | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 2.5474 | 0.0000 | 0.0000 |
| Cu | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | **0.0000** | 0.0000 | 0.0000 |
| Fe | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Pb | 0.0000 | **0.0000** | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mg | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mn | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mo | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | **0.0000** | 0.0000 | 0.0000 |
| Ni | 0.0000 | **N/A** | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Se | 0.0000 | 0.0000 | **N/A** | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Si | 0.0000 | 0.0000 | 0.0000 | **N/A** | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Ag | 0.0000 | 0.0000 | 0.0000 | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Na | **N/A** | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | **0.0000** |
| Tl | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Sn | 0.0000 | 0.0000 | 0.0000 | 0.0000 | **N/A** | **0.0000** | 0.0000 | 0.0000 |
| Ti | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | **N/A** | 0.0000 | 0.0000 |
| V | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | **N/A** | 0.0000 |
| Zn | 0.0000 | 0.0000 | 0.0000 | 0.0000 | **0.0000** | 0.0000 | 0.0000 | **N/A** |

IECs run 07/25/2021

**INTERELEMENT CORRECTION SUMMARY PEICP5rd**



| | Interfering Elements | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interfered Elements | Al | Ca | Fe | Mg | B | Ba | Cu | Ce | Mn | Mo |
| Al | N/A | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 9.888 | 0.00 | 20.806 |
| Sb | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| As | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Ba | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A | 0 | 0.000 | 0.00 | 0.000 |
| Be | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| B | 0.000 | 0.000 | 4.042 | 0.000 | N/A | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Cd | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Ca | 0.000 | N/A | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Ce | | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | N/A | 0.00 | 0.000 |
| Cr | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Co | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.00 | 0.000 |
| Cu | 0.000 | -0.465 | 0.555 | 0.000 | 0.000 | 0 | N/A | 0.000 | 0.00 | 0.000 |
| Fe | 0.000 | 0.000 | N/A | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Pb | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Mg | 0.000 | 0.000 | 0.000 | N/A | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Mn | 0.000 | 0.000 | 0.000 | -0.188 | 0.000 | 0 | 0 | 0.000 | N/A | 0.000 |
| Mo | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | N/A |
| Ni | 0.149 | 0.000 | -0.376 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0 |
| Se | 0.000 | 0.000 | -0.946 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Si | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Ag | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Na | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Tl | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Sn | 0.000 | -0.106 | 0.000 | -0.155 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Ti | 0.000 | -0.163 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| V | 0.000 | 0.000 | 0.000 | 0.403 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |
| Zn | 0.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0 | 0.000 | 0.00 | 0.000 |

IEC RUN FROM 01262021

## INTERELEMENT CORRECTION SUMMARY PEICP5rd



| Interfered Elements | Interfering Elements | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Na | Ni | Se | Si | Sn | Ti | V | Zn |
| Al | 0 | 0 | 0 | 0 | 0 | 0 | -91.441343 | 0 |
| Sb | 0 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| As | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ba | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Be | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ca | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ce | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Co | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cu | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fe | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pb | 0 | 0.000 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mo | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ni | 0 | N/A | 0 | 0 | 0 | 0 | 0 | 0 |
| Se | 0 | 0 | N/A | 0 | 0 | 0 | 0 | 0 |
| Si | 0 | 0 | 0 | N/A | 0 | 0 | 0 | 0 |
| Ag | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Na | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tl | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sn | 0 | 0 | 0 | 0 | N/A | 0 | 0 | 0 |
| Ti | 0 | 0 | 0 | 0 | 0 | N/A | 0 | 0 |
| V | 0 | 0 | 0 | 0 | 0 | 0 | N/A | 0 |
| Zn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |

IEC RUN FROM 01262021

**MDL / RL SUMMARY**
**SW846 / 6010D AXIAL**
**PE ICP 2,3,4,5**

| ELEMENT | MDL | Reporting Limits (Mg/L) |
|---|---|---|
| Ag | 0.00284 | 0.02 |
| Al | 0.1343 | 0.2 |
| As | 0.01656 | 0.04 |
| Ba | 0.016 | 0.05 |
| Be | 0.00427 | 0.012 |
| Ca | 0.83446 | 5 |
| Cd | 0.00618 | 0.012 |
| Co | 0.00517 | 0.02 |
| Cr | 0.00876 | 0.05 |
| Cu | 0.01376 | 0.05 |
| Fe | 0.17434 | 0.3 |
| Mg | 0.55034 | 5 |
| Mn | 0.00897 | 0.04 |
| Mo | 0.00596 | 0.02 |
| Ni | 0.0089 | 0.05 |
| Pb | 0.02228 | 0.05 |
| Sb | 0.01848 | 0.05 |
| Se | 0.02104 | 0.05 |
| Sn | 0.01771 | 0.05 |
| Ti | 0.01459 | 0.05 |
| Tl | 0.01787 | 0.05 |
| V | 0.0305 | 0.05 |
| Zn | 0.01887 | 0.05 |
| B | 0.0323 | 0.2 |

**COMPLETED: 12/2020**

**24mos of combined data (01/2019-12/2020)**

**MDL / RL SUMMARY**
**SW846 / 6010D RADIAL**
**PE ICP 2,3,4,5**

| ELEMENT | MDL | Reporting Limits (Mg/L) |
|---|---|---|
| Al | 0.17004 | 0.2 |
| Ca | 0.45289 | 5 |
| Fe | 0.15614 | 0.3 |
| K | 1.18974 | 5 |
| Mg | 0.55515 | 5 |
| Mn | 0.00773 | 0.04 |
| Na | 0.94552 | 5 |
| Ti | 0.00911 | 0.05 |

**COMPLETED 12/2020**

**24 mos of combined data (1/2019-12/2020)**

# MDL/RL
## Method 6020/6020A
## MS3_7700
## Aqueous

| ELEMENT | MDL (ug/L) | Reporting Limits (ug/L) |
|---|---|---|
| Al | 38.9208 | 200 |
| Sb | 0.2352 | 3 |
| As | 0.3198 | 2 |
| Ba | 1.1626 | 5 |
| Be | 0.0815 | 1 |
| Cd | 0.0939 | 2 |
| Ca | 54.8133 | 500 |
| Cr | 0.8889 | 2 |
| Co | 0.5041 | 2 |
| Cu | 1.9054 | 10 |
| Fe | 33.5107 | 300 |
| Pb | 0.5029 | 3 |
| Mg | 7.8429 | 500 |
| Mn | 4.8316 | 6 |
| Mo | 0.1944 | 2 |
| Ni | 0.7575 | 3 |
| K | 32.0472 | 500 |
| Se | 3.5220 | 10 |
| Ag | 0.1968 | 1 |
| Na | 76.7741 | 500 |
| Tl | 0.4591 | 2 |
| V | 1.5071 | 2 |
| Zn | 12.8635 | 20 |

# MDL/RL SUMMARY HgCV3 & HgCV4

| | | | |
|---|---|---|---|
| **Element:** | *Mercury* | **Instrument ID:** | *HgCV3&4* |
| **Instrument:** | *PE FIMS 100* | **Analyst** | *Carmela Aliano* |
| **Technique:** | *CV* | | |

| 200 Series | METHOD | MDL (ppb) | Completed | RL (ppb) |
|---|---|---|---|---|
| $H_2O$ | 245.1 | 0.1794 | 12/31/2020 | 0.20 |
| **SW846** | | | | |
| $H_2O$ | 7470A | 0.1117 | 12/31/2020 | 0.50 |
| SOIL | 7471 B | 0.237042 (0.039507 mg/kg) | 12/31/2020 | 0.50 (0.0833 mg/kg) |

24mos 12/2019-12/2020

# Metal Data
# Raw Data

# Form1

## Inorganic Analysis Data Sheet

Sample ID: MB 94427 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 94427 Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 100 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-36-0 | Antimony | 1.5 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-38-2 | Arsenic | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-39-3 | Barium | 2.5 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-41-7 | Beryllium | 0.50 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-43-9 | Cadmium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-70-2 | Calcium | 250 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-47-3 | Chromium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-48-4 | Cobalt | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-50-8 | Copper | 5.0 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7439-89-6 | Iron | 150 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7439-92-1 | Lead | 1.5 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7439-95-4 | Magnesium | 250 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7439-96-5 | Manganese | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7439-98-7 | Molybdenum | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-02-0 | Nickel | 1.5 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-09-7 | Potassium | 250 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7782-49-2 | Selenium | 5.0 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-22-4 | Silver | 0.50 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-28-0 | Thallium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-62-2 | Vanadium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |
| 7440-66-6 | Zinc | 10 | ND | 1 | 50 | 100 | 09/23/21 | 94427 | 2321ANEW | 20 | MS | IS3_7700SWA |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

Sample ID: MB 94427 (1) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 94427 (1) Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 100 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A5 | 14 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 25 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A2 | 15 | P | PEICP2A |
| 7440-70-2 | Calcium | 2500 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A2 | 15 | P | PEICP2A |
| 7440-47-3 | Chromium | 25 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A2 | 15 | P | PEICP2A |
| 7440-50-8 | Copper | 25 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A2 | 15 | P | PEICP2A |
| 7439-89-6 | Iron | 150 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A2 | 15 | P | PEICP2A |
| 7439-95-4 | Magnesium | 2500 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A2 | 15 | P | PEICP2A |
| 7439-96-5 | Manganese | 20 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A2 | 15 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 11 | CV | HGCV4A |
| 7440-02-0 | Nickel | 25 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A2 | 15 | P | PEICP2A |
| 7440-09-7 | Potassium | 2500 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A5 | 14 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 10 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A2 | 15 | P | PEICP2A |
| 7440-23-5 | Sodium | 2500 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A5 | 14 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 25 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A2 | 15 | P | PEICP2A |
| 7440-66-6 | Zinc | 25 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | SW27669A2 | 15 | P | PEICP2A |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

Sample ID: MB 94428 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 94428 Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 100 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-36-0 | Antimony | 1.5 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-38-2 | Arsenic | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-39-3 | Barium | 2.5 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-41-7 | Beryllium | 0.50 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-43-9 | Cadmium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-70-2 | Calcium | 250 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-47-3 | Chromium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-48-4 | Cobalt | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-50-8 | Copper | 5.0 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7439-89-6 | Iron | 150 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7439-92-1 | Lead | 1.5 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7439-95-4 | Magnesium | 250 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7439-96-5 | Manganese | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7439-98-7 | Molybdenum | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-02-0 | Nickel | 1.5 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-09-7 | Potassium | 250 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7782-49-2 | Selenium | 5.0 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-22-4 | Silver | 0.50 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-23-5 | Sodium | 250 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-28-0 | Thallium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-62-2 | Vanadium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |
| 7440-66-6 | Zinc | 10 | ND | 1 | 50 | 100 | 09/24/21 | 94428 | 2421BNEW | 20 | MS | IS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

Sample ID: MB 94428 (1) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 94428 (1) Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 100 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | SW27669B5 | 29 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 25 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | SW27669C2 | 29 | P | PEICP2A |
| 7440-70-2 | Calcium | 2500 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | SW27669C2 | 29 | P | PEICP2A |
| 7440-47-3 | Chromium | 25 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | SW27669C2 | 29 | P | PEICP2A |
| 7440-50-8 | Copper | 25 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | SW27669C2 | 29 | P | PEICP2A |
| 7439-89-6 | Iron | 150 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | SW27669C2 | 29 | P | PEICP2A |
| 7439-95-4 | Magnesium | 2500 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | SW27669C2 | 29 | P | PEICP2A |
| 7439-96-5 | Manganese | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | SW27669C2 | 29 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 11 | CV | HGCV4A |
| 7440-02-0 | Nickel | 25 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | SW27669C2 | 29 | P | PEICP2A |
| 7440-09-7 | Potassium | 2500 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | SW27669B5 | 29 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 10 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | SW27669C2 | 29 | P | PEICP2A |
| 7440-23-5 | Sodium | 2500 | ND | 1 | 50 | 50 | 09/28/21 | 94428 | SW27669B5 | 29 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 25 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | SW27669C2 | 29 | P | PEICP2A |
| 7440-66-6 | Zinc | 25 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | SW27669C2 | 29 | P | PEICP2A |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

Sample ID: MB 94429 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 94429 Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 100 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-36-0 | Antimony | 1.5 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-38-2 | Arsenic | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-39-3 | Barium | 2.5 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-41-7 | Beryllium | 0.50 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-43-9 | Cadmium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-70-2 | Calcium | 250 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-47-3 | Chromium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-48-4 | Cobalt | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-50-8 | Copper | 5.0 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7439-89-6 | Iron | 150 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7439-92-1 | Lead | 1.5 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7439-95-4 | Magnesium | 250 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7439-96-5 | Manganese | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7439-98-7 | Molybdenum | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-02-0 | Nickel | 1.5 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-09-7 | Potassium | 250 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7782-49-2 | Selenium | 5.0 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-23-5 | Sodium | 250 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-28-0 | Thallium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-62-2 | Vanadium | 1.0 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |
| 7440-66-6 | Zinc | 10 | ND | 1 | 50 | 100 | 09/23/21 | 94429 | 2321BNEW | 20 | MS | IS3_7700SWA |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

Sample ID: MB 94429 (1) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 94429 (1) Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 100 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669E5 | 14 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 25 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669C2 | 57 | P | PEICP2A |
| 7440-70-2 | Calcium | 2500 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669C2 | 57 | P | PEICP2A |
| 7440-47-3 | Chromium | 25 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669C2 | 57 | P | PEICP2A |
| 7440-50-8 | Copper | 25 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669C2 | 57 | P | PEICP2A |
| 7439-89-6 | Iron | 150 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669C2 | 57 | P | PEICP2A |
| 7439-95-4 | Magnesium | 2500 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669C2 | 57 | P | PEICP2A |
| 7439-96-5 | Manganese | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669C2 | 57 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/23/21 | 94429 | H27671SW | 11 | CV | HGCV3A |
| 7440-02-0 | Nickel | 25 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669C2 | 57 | P | PEICP2A |
| 7440-09-7 | Potassium | 2500 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669E5 | 14 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 10 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669C2 | 57 | P | PEICP2A |
| 7440-23-5 | Sodium | 2500 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669E5 | 14 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 25 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669C2 | 57 | P | PEICP2A |
| 7440-66-6 | Zinc | 25 | ND | 1 | 50 | 50 | 09/29/21 | 94429 | SW27669C2 | 57 | P | PEICP2A |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Form1

## Inorganic Analysis Data Sheet

Sample ID: MB 94442 (1) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 94442 (1) Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 100 | ND | 1 | 50 | 50 | 09/27/21 | 94442 | SW27668B2 | 36 | P | PEICP2A |
| 7440-39-3 | Barium | 25 | ND | 1 | 50 | 50 | 09/27/21 | 94442 | SW27668B2 | 36 | P | PEICP2A |
| 7440-41-7 | Beryllium | 6.0 | ND | 1 | 50 | 50 | 09/27/21 | 94442 | SW27668B2 | 36 | P | PEICP2A |
| 7440-70-2 | Calcium | 2500 | ND | 1 | 50 | 50 | 09/27/21 | 94442 | SW27668B2 | 36 | P | PEICP2A |
| 7440-47-3 | Chromium | 25 | ND | 1 | 50 | 50 | 09/27/21 | 94442 | SW27668B2 | 36 | P | PEICP2A |
| 7440-50-8 | Copper | 25 | ND | 1 | 50 | 50 | 09/27/21 | 94442 | SW27668B2 | 36 | P | PEICP2A |
| 7439-89-6 | Iron | 150 | ND | 1 | 50 | 50 | 09/27/21 | 94442 | SW27668B2 | 36 | P | PEICP2A |
| 7439-95-4 | Magnesium | 2500 | ND | 1 | 50 | 50 | 09/27/21 | 94442 | SW27668B2 | 36 | P | PEICP2A |
| 7439-96-5 | Manganese | 20 | ND | 1 | 50 | 50 | 09/27/21 | 94442 | SW27668B2 | 36 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND | 1 | 25 | 25 | 09/28/21 | 94442 | H27683SW | 11 | CV | HGCV4A |
| 7440-02-0 | Nickel | 25 | ND | 1 | 50 | 50 | 09/27/21 | 94442 | SW27668B2 | 36 | P | PEICP2A |
| 7440-09-7 | Potassium | 2500 | ND | 1 | 50 | 50 | 09/28/21 | 94442 | SW27683A5 | 14 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 10 | ND | 1 | 50 | 50 | 09/27/21 | 94442 | SW27668B2 | 36 | P | PEICP2A |
| 7440-23-5 | Sodium | 2500 | ND | 1 | 50 | 50 | 09/28/21 | 94442 | SW27683A5 | 14 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 25 | ND | 1 | 50 | 50 | 09/27/21 | 94442 | SW27668B2 | 36 | P | PEICP2A |
| 7440-66-6 | Zinc | 25 | ND | 1 | 50 | 50 | 09/27/21 | 94442 | SW27668B2 | 36 | P | PEICP2A |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-352951

Prepared By: Aliano, Carmela
Description: ICB/CCB
Prep Date: 7/6/2021
Expiration Date: 11/11/2021
Department: Metals
BatchNumber:
Concentration: 0 mg/l
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13949 | nitirc acid | 50 ml | neat neat | |
| 13902 | hydrochloric acid | 50 ml | neat neat | |

## Veritech Lot Number: V-352955

Prepared By: Aliano, Carmela
Description: ICS3 - Middle Std
Prep Date: 7/6/2021
Expiration Date: 11/11/2021
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | 944.75 ml | | |
| 13949 | nitirc acid | 25 ml | neat neat | |
| 13902 | hydrochloric acid | 25 ml | neat neat | |
| 13729 | CALIBRATION 1 | 5 ml | NEAT neat | |
| 13730 | CALIBRATION 2 | 5 ml | NEAT neat | |
| 14035 | BORON (SPEX | .5 ml | | 0.5 |
| 13720 | Silicon | 5 ml | 1000 ug/ml | 5 |
| 13718 | CERIUM | .5 ml | 1000 ug/ml | 5 |

## Veritech Lot Number: V-352956

Prepared By: Aliano, Carmela
Description: ICS4 High std
Prep Date: 7/6/2021
Expiration Date: 11/11/2021
Department: Metals
BatchNumber:
Concentration: various mg/l
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | 434.5 ml | | |
| 13949 | nitirc acid | 25 ml | neat neat | |
| 13902 | hydrochloric acid | 25 ml | neat neat | |
| 13729 | CALIBRATION 1 | 5 ml | NEAT neat | |
| 13730 | CALIBRATION 2 | 5 ml | NEAT neat | |
| 14035 | BORON (SPEX | .5 ml | | 1 |
| 13720 | Silicon | 5 ml | 1000 ug/ml | 10 |
| 13718 | CERIUM | .5 ml | 1000 ug/ml | 10 |

## Veritech Lot Number: V-352957

Prepared By: Aliano, Carmela
Description: ICSA
Prep Date: 7/6/2021
Expiration Date: 11/11/2021
Department: Metals
BatchNumber:
Concentration: MULTI mg/l
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13949 | nitirc acid | 50 ml | neat neat | |
| 13902 | hydrochloric acid | 50 ml | neat neat | |
| 13849 | ICSA | 50 ml | NEAT neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-352960

Prepared By: Aliano, Carmela
Description: CCV
Prep Date: 7/6/2021
Expiration Date: 11/1/2021
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13949 | nitirc acid | 50 ml | neat neat | |
| 13902 | hydrochloric acid | 50 ml | neat neat | |
| 13846 | ICV 1 | 10 ml | NEAT neat | |
| 13847 | ICV 2 | 10 ml | NEAT neat | |
| 13721 | BORON | .5 ml | 1000 ug/ml | 0.5 |
| 13731 | CERIUM | .5 ml | CONC conc | 0.5 |
| 13732 | SILICON | 5 ml | CONC conc | 5 |

## Veritech Lot Number: V-352961

Prepared By: Aliano, Carmela
Description: LLICV/LLCCV aq
Prep Date: 7/6/2021
Expiration Date: 11/11/2021
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13949 | nitirc acid | 25 ml | neat neat | |
| 13902 | hydrochloric acid | 25 ml | neat neat | |
| 13969 | LL-AQUEOUS | 5 ml | NEAT neat | |
| 14035 | BORON (SPEX | .1 ml | | 0.2 ppm |
| 13720 | Silicon | .1 ml | 1000 ug/ml | 0.2 ppm |
| 13718 | CERIUM | .1 ml | 1000 ug/ml | 0.2 |

## Veritech Lot Number: V-352964

Prepared By: Aliano, Carmela
Description: LRS
Prep Date: 7/6/2021
Expiration Date: 9/30/2021
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | 335 ml | | |
| 13949 | nitirc acid | 25 ml | neat neat | |
| 13902 | hydrochloric acid | 25 ml | neat neat | |
| 13513 | LINEAR RANGE B | 50 ml | | |
| 13971 | LINEAR RANGE C | 50 ml | | |
| 14035 | BORON (SPEX | 2.5 ml | | |
| 13720 | Silicon | 12.5 ml | 1000 ug/ml | |
| 13718 | CERIUM | 12.5 ml | 1000 ug/ml | |

## Veritech Lot Number: V-353977

Prepared By: Silva, Amanda
Description: 1:1 HCl WARNING
Prep Date: 7/19/2021
Expiration Date: 1/19/2022
Department: Metals
BatchNumber:
Concentration: Reagent reag
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | 500 ml | | |
| 13902 | hydrochloric acid | 500 ml | neat neat | |

# Veritech Internally Prepared Standard Log

**Veritech Lot Number: V-355837**

| | | | |
|---|---|---|---|
| Prepared By: | Lucca, Daniela | Department: Metals | ApprovedBy: shiamala |
| Description: | B, Si, Ce INTERMEDIATE | BatchNumber: | ApproveDate: 08/27/21 |
| Prep Date: | 8/19/2021 | Concentration: 100 ppm | Checked: Yes |
| Expiration Date: | 11/11/2021 | Final Volume: 100 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14102 | nitric acid | 5 ml | neat neat | |
| 14062 | Hydrochloric Acid | 5 ml | neat neat | |
| 14035 | BORON (SPEX | 10 ml | | 100 ppm |
| 13720 | Silicon | 10 ml | 1000 ug/ml | 100 ppm |
| 13718 | CERIUM | 10 ml | 1000 ug/ml | 100 ppm |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-353977

Prepared By: Silva, Amanda
Description: 1:1 HCl WARNING
Prep Date: 7/19/2021
Expiration Date: 1/19/2022
Department: Metals
BatchNumber:
Concentration: Reagent reag
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | 500 ml | | |
| 13902 | hydrochloric acid | 500 ml | neat neat | |

## Veritech Lot Number: V-355837

Prepared By: Lucca, Daniela
Description: B, Si, Ce INTERMEDIATE
Prep Date: 8/19/2021
Expiration Date: 11/11/2021
Department: Metals
BatchNumber:
Concentration: 100 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14102 | nitric acid | 5 ml | neat neat | |
| 14062 | Hydrochloric Acid | 5 ml | neat neat | |
| 14035 | BORON (SPEX | 10 ml | | 100 ppm |
| 13720 | Silicon | 10 ml | 1000 ug/ml | 100 ppm |
| 13718 | CERIUM | 10 ml | 1000 ug/ml | 100 ppm |

## Veritech Lot Number: V-355839

Prepared By: Lucca, Daniela
Description: 6020 CALIBRATION STOCK
Prep Date: 8/19/2021
Expiration Date: 11/11/2021
Department: Metals
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14103 | Nitric acid | 2 ml | neat neat | |
| 14023 | Al 10000 mg/l | .725 ml | 10000 mg/l | 72.5 |
| 14024 | CALCIUM 10000 mg/l | 2.5 ml | 10000 mg/l | 250 |
| 14054 | IRON 10000mg/l | 2.5 ml | 10000 mg/l | 250 |
| 14026 | MAGNESIUM 10000 mg/l | 2.5 ml | 10000 mg/l | 250 |
| 14146 | Potassium 10000mg/l | 2.5 ml | 10000 mg/l | 250 |
| 14025 | SODIUM 10000 mg/l | 2.5 ml | 10000 mg/l | 250 |
| 14019 | Selenium 1000mg/l | 1 ml | 1000 mg/l | 10 |
| 13716 | CALIBRATION STD | 12.5 ml | NEAT neat | 2.5 |

## Veritech Lot Number: V-357833

Prepared By: Cousineau, Paul
Description: Antimony Intermediate 1PPM
Prep Date: 9/23/2021
Expiration Date: 11/11/2021
Department: Metals
BatchNumber:
Concentration: 1000 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13949 | nitirc acid | 2.5 ml | neat neat | |
| 14020 | Antimony 1000mg/l | .1 ml | 1000 mg/l | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357834

Prepared By: Cousineau, Paul
Description: Cal Blk WARNING
Prep Date: 9/23/2021
Expiration Date: 9/30/2021
Department: Metals
BatchNumber: B-31611
Concentration: 0 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14102 | nitric acid | 2.5 ml | neat neat | |
| 14104 | Hydrochloric acid | .5 ml | neat neat | |

## Veritech Lot Number: V-357835

Prepared By: Cousineau, Paul
Description: Cal Std-1 WARNING
Prep Date: 9/23/2021
Expiration Date: 9/30/2021
Department: Metals
BatchNumber: B-31611
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14102 | nitric acid | 2.5 ml | neat neat | |
| 14104 | Hydrochloric acid | .5 ml | neat neat | |

## Veritech Lot Number: V-357836

Prepared By: Cousineau, Paul
Description: Cal Std-2 WARNING
Prep Date: 9/23/2021
Expiration Date: 9/30/2021
Department: Metals
BatchNumber: B-31611
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14102 | nitric acid | 2.5 ml | neat neat | |
| V-355839 | 6020 CALIBRATION STOCK | .2 ml | VARIOUS pp | |
| 14104 | Hydrochloric acid | .5 ml | neat neat | |

## Veritech Lot Number: V-357837

Prepared By: Cousineau, Paul
Description: Cal Std-3 WARNING
Prep Date: 9/23/2021
Expiration Date: 9/30/2021
Department: Metals
BatchNumber: B-31611
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14102 | nitric acid | 2.5 ml | neat neat | |
| V-355839 | 6020 CALIBRATION STOCK | .4 ml | VARIOUS pp | |
| 14104 | Hydrochloric acid | .5 ml | neat neat | |

## Veritech Lot Number: V-357838

Prepared By: Cousineau, Paul
Description: Cal Std-4 WARNING
Prep Date: 9/23/2021
Expiration Date: 9/30/2021
Department: Metals
BatchNumber: B-31611
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14102 | nitric acid | 2.5 ml | neat neat | |
| V-355839 | 6020 CALIBRATION STOCK | 2 ml | VARIOUS pp | |
| 14104 | Hydrochloric acid | .5 ml | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357839

Prepared By: Cousineau, Paul
Description: Cal Std-5 WARNING
Prep Date: 9/23/2021
Expiration Date: 9/30/2021
Department: Metals
BatchNumber: B-31611
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14102 | nitric acid | 2.5 ml | neat neat | |
| V-355839 | 6020 CALIBRATION STOCK | 4 ml | VARIOUS pp | |
| 14104 | Hydrochloric acid | .5 ml | neat neat | |

## Veritech Lot Number: V-357840

Prepared By: Cousineau, Paul
Description: ICV WARNING
Prep Date: 9/23/2021
Expiration Date: 9/30/2021
Department: Metals
BatchNumber: B-31611
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14102 | nitric acid | 2.5 ml | neat neat | |
| 13965 | 6020 ICV (Ag ONLY) | .1 ml | NEAT neat | |
| 13994 | 6020 ICV | .1 ml | multi ml/l | |
| 14104 | Hydrochloric acid | .5 ml | neat neat | |

## Veritech Lot Number: V-357841

Prepared By: Cousineau, Paul
Description: ICB/CCB WARNING
Prep Date: 9/23/2021
Expiration Date: 9/30/2021
Department: Metals
BatchNumber: B-31611
Concentration: 0 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14102 | nitric acid | 2.5 ml | neat neat | |
| 14104 | Hydrochloric acid | .5 ml | neat neat | |

## Veritech Lot Number: V-357842

Prepared By: Cousineau, Paul
Description: ICSA WARNING
Prep Date: 9/23/2021
Expiration Date: 9/30/2021
Department: Metals
BatchNumber: B-31611
Concentration: various ppb
Final Volume: 50 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13542 | ICSA | 2.5 ml | | |
| 14102 | nitric acid | 1.25 ml | neat neat | |
| 14104 | Hydrochloric acid | .25 ml | neat neat | |

## Veritech Lot Number: V-357843

Prepared By: Cousineau, Paul
Description: LRS WARNING
Prep Date: 9/23/2021
Expiration Date: 9/30/2021
Department: Metals
BatchNumber: B-31611
Concentration: various ppb
Final Volume: 50 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14102 | nitric acid | 1.25 ml | neat neat | 2.5 % |
| V-355839 | 6020 CALIBRATION STOCK | 10 ml | VARIOUS pp | |
| 14104 | Hydrochloric acid | .25 ml | neat neat | |

# Veritech Internally Prepared Standard Log

**Veritech Lot Number: V-357844**

| | | | |
|---|---|---|---|
| Prepared By: | Cousineau, Paul | Department: Metals | ApprovedBy: shiamala |
| Description: | CCV WARNING | BatchNumber: B-31611 | ApproveDate: 10/05/21 |
| Prep Date: | 9/23/2021 | Concentration: various ppb | Checked: Yes |
| Expiration Date: | 9/30/2021 | Final Volume: 100 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14102 | nitric acid | 2.5 ml | neat neat | |
| V-355839 | 6020 CALIBRATION STOCK | 2 ml | VARIOUS pp | |
| 14104 | Hydrochloric acid | .5 ml | neat neat | |

**Veritech Lot Number: V-357848**

| | | | |
|---|---|---|---|
| Prepared By: | Cousineau, Paul | Department: Metals | ApprovedBy: shiamala |
| Description: | LL-ICV/CCV AQ. WARNING | BatchNumber: | ApproveDate: 10/05/21 |
| Prep Date: | 9/23/2021 | Concentration: various ppb | Checked: Yes |
| Expiration Date: | 9/30/2021 | Final Volume: 100 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13841 | nitric acid | 2.5 ml | neat neat | |
| 14021 | LLICV Aqueous | .5 ml | multi mg/l | |
| V-357833 | Antimony Intermediate 1PPM | .05 ml | 1000 ppb | |
| 13902 | hydrochloric acid | .5 ml | neat neat | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13729

| Description |
|---|
| CALIBRATION 1 |

ApprovedBy: carmela
ApproveDate: 04/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-19-500 | 14-246AB | 01/20/21 | 01/30/22 | Aliano, Carmela | 4 | 500m | NEAT | NEAT |

## Veritech Control/Receipt Number: 13730

| Description |
|---|
| CALIBRATION 2 |

ApprovedBy: carmela
ApproveDate: 04/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-20-500 | 14-247AB | 01/20/21 | 01/30/22 | Aliano, Carmela | 4 | 500m | NEAT | NEAT |

## Veritech Control/Receipt Number: 14103

| Description |
|---|
| Nitric acid |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 277202 | 08/03/21 | 01/14/26 | Lopez, Jose | 8 | 4L | neat | neat |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13513

| Description |
|---|
| LINEAR RANGE B |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-40-500 | 2-217MF | 09/24/20 | 09/30/21 | Faustin, Enock | 1 | | | |

## Veritech Control/Receipt Number: 13600

| Description |
|---|
| DI H2O |

ApprovedBy: jessica
ApproveDate: 11/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 11/12/20 | 11/11/21 | Trivedi, Beena | 1 | | | |

## Veritech Control/Receipt Number: 13718

| Description |
|---|
| CERIUM |

ApprovedBy: carmela
ApproveDate: 04/16/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLCE2-2X | 25-13CEX | 01/14/21 | 01/30/22 | Aliano, Carmela | 2 | 500m | 1000 | ug/Ml |

## Veritech Control/Receipt Number: 13720

| Description |
|---|
| Silicon |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLSI9-2X | 25-18SIX | 01/14/21 | 01/30/22 | Aliano, Carmela | 2 | 500ml | 1000 | ug/ml |

## Veritech Control/Receipt Number: 13721

| Description |
|---|
| BORON |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLB9-2X | 25-61BX | 01/14/21 | 01/30/22 | Aliano, Carmela | 1 | 500ml | 1000 | UG/ML |

## Veritech Control/Receipt Number: 13729

| Description |
|---|
| CALIBRATION 1 |

ApprovedBy: carmela
ApproveDate: 04/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-19-500 | 14-246AB | 01/20/21 | 01/30/22 | Aliano, Carmela | 4 | 500m | NEAT | NEAT |

## Veritech Control/Receipt Number: 13730

| Description |
|---|
| CALIBRATION 2 |

ApprovedBy: carmela
ApproveDate: 04/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-20-500 | 14-247AB | 01/20/21 | 01/30/22 | Aliano, Carmela | 4 | 500m | NEAT | NEAT |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13731

| Description |
|---|
| CERIUM |

ApprovedBy: carmela
ApproveDate: 04/16/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SCP SCIENCE | 140-051-585 | S200415008 | 01/20/21 | 04/30/22 | Aliano, Carmela | 1 | 500ml | CONC | CONC |

## Veritech Control/Receipt Number: 13732

| Description |
|---|
| SILICON |

ApprovedBy: carmela
ApproveDate: 04/16/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SCP SCIENCE | 140-050-145 | S200904004 | 01/20/21 | 09/30/22 | Aliano, Carmela | 1 | 500ml | CONC | CONC |

## Veritech Control/Receipt Number: 13846

| Description |
|---|
| ICV 1 |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SCP SCIENCE | 600-225-101 | S210222019 | 03/15/21 | 11/01/21 | Aliano, Carmela | 2 | 500ml | NEAT | NEAT |

## Veritech Control/Receipt Number: 13847

| Description |
|---|
| ICV 2 |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SCP SCIENCE | 600-225-102 | S210222020 | 04/01/21 | 03/01/22 | Aliano, Carmela | 2 | 500ml | NEAT | NEAT |

## Veritech Control/Receipt Number: 13849

| Description |
|---|
| ICSA |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-30 | 4-111MF | 04/01/21 | 01/06/22 | Aliano, Carmela | 2 | 500m | NEAT | NEAT |

## Veritech Control/Receipt Number: 13902

| Description |
|---|
| hydrochloric acid |

ApprovedBy: jessica
ApproveDate: 05/10/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9530-33 | 271303 | 05/04/21 | 09/15/25 | Lopez, Jose | 18 | 2.5L | neat | neat |

## Veritech Control/Receipt Number: 13949

| Description |
|---|
| nitirc acid |

ApprovedBy: carmela
ApproveDate: 07/14/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 271456 | 05/25/21 | 10/12/25 | Lopez, Jose | 12 | 2.5L | neat | neat |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13969

| Description |
|---|
| LL-AQUEOUS |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-43-500 | 4-108MF | 03/29/21 | 03/30/22 | Aliano, Carmela | 1 | | NEAT | NEAT |

## Veritech Control/Receipt Number: 13971

| Description |
|---|
| LINEAR RANGE C |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-44-500 | 4-110MF | 03/29/21 | 03/30/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 14035

| Description |
|---|
| BORON (SPEX |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLB-92X | 25-61BX | 07/06/21 | 06/30/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 14062

| Description |
|---|
| Hydrochloric Acid |

ApprovedBy: akmal
ApproveDate: 07/14/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9530-33 | 271303 | 07/13/21 | 09/15/25 | Lopez, Jose | 18 | 2.5L | neat | neat |

## Veritech Control/Receipt Number: 14102

| Description |
|---|
| nitric acid |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 271456 | 08/03/21 | 10/12/25 | Lopez, Jose | 8 | 2.5L | neat | neat |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13542

| Description |
|---|
| ICSA |

ApprovedBy: carmela
ApproveDate: 04/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | CL-INT-A1 | CL51-063CRY | 10/14/20 | 10/30/21 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 13600

| Description |
|---|
| DI H2O |

ApprovedBy: jessica
ApproveDate: 11/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 11/12/20 | 11/11/21 | Trivedi, Beena | 1 | | | |

## Veritech Control/Receipt Number: 13716

| Description |
|---|
| CALIBRATION STD |

ApprovedBy: carmela
ApproveDate: 04/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | CL-CAL-1 | CL51-051CRY | 01/12/21 | 01/30/22 | Aliano, Carmela | 1 | 125m | NEAT | NEAT |

## Veritech Control/Receipt Number: 13718

| Description |
|---|
| CERIUM |

ApprovedBy: carmela
ApproveDate: 04/16/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLCE2-2X | 25-13CEX | 01/14/21 | 01/30/22 | Aliano, Carmela | 2 | 500m | 1000 | ug/Ml |

## Veritech Control/Receipt Number: 13720

| Description |
|---|
| Silicon |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLSI9-2X | 25-18SIX | 01/14/21 | 01/30/22 | Aliano, Carmela | 2 | 500ml | 1000 | ug/ml |

## Veritech Control/Receipt Number: 13841

| Description |
|---|
| nitric acid |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 267725 | 03/31/21 | 08/11/25 | Lopez, Jose | 12 | 2.5L | neat | neat |

## Veritech Control/Receipt Number: 13902

| Description |
|---|
| hydrochloric acid |

ApprovedBy: jessica
ApproveDate: 05/10/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9530-33 | 271303 | 05/04/21 | 09/15/25 | Lopez, Jose | 18 | 2.5L | neat | neat |

Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 13949**

| Description |
|---|
| nitirc acid |

ApprovedBy: carmela
ApproveDate: 07/14/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 271456 | 05/25/21 | 10/12/25 | Lopez, Jose | 12 | 2.5L | neat | neat |

**Veritech Control/Receipt Number: 13965**

| Description |
|---|
| 6020 ICV (Ag ONLY) |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SCP SCIENCE | 600-225-113 | S210510011 | 06/01/21 | 05/31/22 | Allano, Carmela | 1 | | NEAT | NEAT |

**Veritech Control/Receipt Number: 13994**

| Description |
|---|
| 6020 ICV |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SCP SCIENCE | 600-225-11 | S210510010 | 06/15/21 | 06/15/22 | Cousineau, Paul | 1 | 125ml | multi | ml/l |

**Veritech Control/Receipt Number: 14019**

| Description |
|---|
| Selenium 1000mg/l |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLSE2-2Y | 26-05SEY | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 125ml | 1000 | mg/l |

**Veritech Control/Receipt Number: 14020**

| Description |
|---|
| Antimony 1000mg/l |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLSB7-2Y | 25-80SBY | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 125 m | 1000 | mg/l |

**Veritech Control/Receipt Number: 14021**

| Description |
|---|
| LLICV Aqueous |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | 2HCV-14-100 | 37-92GS | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 125 m | multi | mg/l |

**Veritech Control/Receipt Number: 14023**

| Description |
|---|
| Al 10000 mg/l |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLAL2-3X | AQ18-129ALX | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 500 m | 10000 | mg/l |

Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 14024**

| Description |
|---|
| CALCIUM 10000 mg/l |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLCA2-3X | BA18-117CAX | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 500 m | 10000 | mg/l |

**Veritech Control/Receipt Number: 14025**

| Description |
|---|
| SODIUM 10000 mg/l |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLNA2-3X | AT18-84NAX | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 500 m | 10000 | mg/l |

**Veritech Control/Receipt Number: 14026**

| Description |
|---|
| MAGNESIUM 10000 mg/l |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLMG23X | AQ18-136MGX | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 500 m | 10000 | mg/l |

**Veritech Control/Receipt Number: 14035**

| Description |
|---|
| BORON (SPEX |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLB-92X | 25-61BX | 07/06/21 | 06/30/22 | Aliano, Carmela | 1 | | | |

**Veritech Control/Receipt Number: 14054**

| Description |
|---|
| IRON 10000mg/l |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLFE2-3X | AT19-03FEX | 07/09/21 | 07/30/22 | Cousineau, Paul | 1 | 500ml | 10000 | mg/l |

**Veritech Control/Receipt Number: 14062**

| Description |
|---|
| Hydrochloric Acid |

ApprovedBy: akmal
ApproveDate: 07/14/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9530-33 | 271303 | 07/13/21 | 09/15/25 | Lopez, Jose | 18 | 2.5L | neat | neat |

**Veritech Control/Receipt Number: 14102**

| Description |
|---|
| nitric acid |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 271456 | 08/03/21 | 10/12/25 | Lopez, Jose | 8 | 2.5L | neat | neat |

Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 14103**

| Description |
|---|
| Nitric acid |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 277202 | 08/03/21 | 01/14/26 | Lopez, Jose | 8 | 4L | neat | neat |

**Veritech Control/Receipt Number: 14104**

| Description |
|---|
| Hydrochloric acid |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9530-33 | 275677 | 08/03/21 | 12/15/25 | Lopez, Jose | 12 | 2.5L | neat | neat |

**Veritech Control/Receipt Number: 14146**

| Description |
|---|
| Potassium 10000mg/l |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLK2-3X | AZ18-163KX | 08/01/21 | 07/30/22 | Lucca, Daniela | 1 | 500 m | 10000 | mg/l |

Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 13729**

| Description |
|---|
| CALIBRATION 1 |

ApprovedBy: carmela
ApproveDate: 04/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-19-500 | 14-246AB | 01/20/21 | 01/30/22 | Aliano, Carmela | 4 | 500m | NEAT | NEAT |

**Veritech Control/Receipt Number: 13730**

| Description |
|---|
| CALIBRATION 2 |

ApprovedBy: carmela
ApproveDate: 04/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-20-500 | 14-247AB | 01/20/21 | 01/30/22 | Aliano, Carmela | 4 | 500m | NEAT | NEAT |

**Veritech Control/Receipt Number: 14103**

| Description |
|---|
| Nitric acid |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 277202 | 08/03/21 | 01/14/26 | Lopez, Jose | 8 | 4L | neat | neat |

Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 13729**

| Description |
|---|
| CALIBRATION 1 |

ApprovedBy: carmela
ApproveDate: 04/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-19-500 | 14-246AB | 01/20/21 | 01/30/22 | Aliano, Carmela | 4 | 500m | NEAT | NEAT |

**Veritech Control/Receipt Number: 13730**

| Description |
|---|
| CALIBRATION 2 |

ApprovedBy: carmela
ApproveDate: 04/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-20-500 | 14-247AB | 01/20/21 | 01/30/22 | Aliano, Carmela | 4 | 500m | NEAT | NEAT |

**Veritech Control/Receipt Number: 14103**

| Description |
|---|
| Nitric acid |

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 277202 | 08/03/21 | 01/14/26 | Lopez, Jose | 8 | 4L | neat | neat |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-352951

Prepared By: Aliano, Carmela
Description: ICB/CCB
Prep Date: 7/6/2021
Expiration Date: 11/11/2021
Department: Metals
BatchNumber:
Concentration: 0 mg/l
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13949 | nitirc acid | 50 ml | neat neat | |
| 13902 | hydrochloric acid | 50 ml | neat neat | |

## Veritech Lot Number: V-352955

Prepared By: Aliano, Carmela
Description: ICS3 - Middle Std
Prep Date: 7/6/2021
Expiration Date: 11/11/2021
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | 944.75 ml | | |
| 13949 | nitirc acid | 25 ml | neat neat | |
| 13902 | hydrochloric acid | 25 ml | neat neat | |
| 13729 | CALIBRATION 1 | 5 ml | NEAT neat | |
| 13730 | CALIBRATION 2 | 5 ml | NEAT neat | |
| 14035 | BORON (SPEX | .5 ml | | 0.5 |
| 13720 | Silicon | 5 ml | 1000 ug/ml | 5 |
| 13718 | CERIUM | .5 ml | 1000 ug/ml | 5 |

## Veritech Lot Number: V-352956

Prepared By: Aliano, Carmela
Description: ICS4 High std
Prep Date: 7/6/2021
Expiration Date: 11/11/2021
Department: Metals
BatchNumber:
Concentration: various mg/l
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | 434.5 ml | | |
| 13949 | nitirc acid | 25 ml | neat neat | |
| 13902 | hydrochloric acid | 25 ml | neat neat | |
| 13729 | CALIBRATION 1 | 5 ml | NEAT neat | |
| 13730 | CALIBRATION 2 | 5 ml | NEAT neat | |
| 14035 | BORON (SPEX | .5 ml | | 1 |
| 13720 | Silicon | 5 ml | 1000 ug/ml | 10 |
| 13718 | CERIUM | .5 ml | 1000 ug/ml | 10 |

## Veritech Lot Number: V-352957

Prepared By: Aliano, Carmela
Description: ICSA
Prep Date: 7/6/2021
Expiration Date: 11/11/2021
Department: Metals
BatchNumber:
Concentration: MULTI mg/l
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13949 | nitirc acid | 50 ml | neat neat | |
| 13902 | hydrochloric acid | 50 ml | neat neat | |
| 13849 | ICSA | 50 ml | NEAT neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-352960

Prepared By: Aliano, Carmela
Description: CCV
Prep Date: 7/6/2021
Expiration Date: 11/1/2021
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13949 | nitirc acid | 50 ml | neat neat | |
| 13902 | hydrochloric acid | 50 ml | neat neat | |
| 13846 | ICV 1 | 10 ml | NEAT neat | |
| 13847 | ICV 2 | 10 ml | NEAT neat | |
| 13721 | BORON | .5 ml | 1000 ug/ml | 0.5 |
| 13731 | CERIUM | .5 ml | CONC conc | 0.5 |
| 13732 | SILICON | 5 ml | CONC conc | 5 |

## Veritech Lot Number: V-352961

Prepared By: Aliano, Carmela
Description: LLICV/LLCCV aq
Prep Date: 7/6/2021
Expiration Date: 11/11/2021
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13949 | nitirc acid | 25 ml | neat neat | |
| 13902 | hydrochloric acid | 25 ml | neat neat | |
| 13969 | LL-AQUEOUS | 5 ml | NEAT neat | |
| 14035 | BORON (SPEX | .1 ml | | 0.2 ppm |
| 13720 | Silicon | .1 ml | 1000 ug/ml | 0.2 ppm |
| 13718 | CERIUM | .1 ml | 1000 ug/ml | 0.2 |

## Veritech Lot Number: V-352964

Prepared By: Aliano, Carmela
Description: LRS
Prep Date: 7/6/2021
Expiration Date: 9/30/2021
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | 335 ml | | |
| 13949 | nitirc acid | 25 ml | neat neat | |
| 13902 | hydrochloric acid | 25 ml | neat neat | |
| 13513 | LINEAR RANGE B | 50 ml | | |
| 13971 | LINEAR RANGE C | 50 ml | | |
| 14035 | BORON (SPEX | 2.5 ml | | |
| 13720 | Silicon | 12.5 ml | 1000 ug/ml | |
| 13718 | CERIUM | 12.5 ml | 1000 ug/ml | |

## Veritech Lot Number: V-353977

Prepared By: Silva, Amanda
Description: 1:1 HCl WARNING
Prep Date: 7/19/2021
Expiration Date: 1/19/2022
Department: Metals
BatchNumber:
Concentration: Reagent reag
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | 500 ml | | |
| 13902 | hydrochloric acid | 500 ml | neat neat | |

# Veritech Internally Prepared Standard Log

**Veritech Lot Number: V-355837**

| | | | |
|---|---|---|---|
| Prepared By: | Lucca, Daniela | Department: Metals | ApprovedBy: shiamala |
| Description: | B, Si, Ce INTERMEDIATE | BatchNumber: | ApproveDate: 08/27/21 |
| Prep Date: | 8/19/2021 | Concentration: 100 ppm | Checked: Yes |
| Expiration Date: | 11/11/2021 | Final Volume: 100 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 14102 | nitric acid | 5 ml | neat neat | |
| 14062 | Hydrochloric Acid | 5 ml | neat neat | |
| 14035 | BORON (SPEX | 10 ml | | 100 ppm |
| 13720 | Silicon | 10 ml | 1000 ug/ml | 100 ppm |
| 13718 | CERIUM | 10 ml | 1000 ug/ml | 100 ppm |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13513

Description: LINEAR RANGE B

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-40-500 | 2-217MF | 09/24/20 | 09/30/21 | Faustin, Enock | 1 | | | |

## Veritech Control/Receipt Number: 13600

Description: DI H2O

ApprovedBy: jessica
ApproveDate: 11/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 11/12/20 | 11/11/21 | Trivedi, Beena | 1 | | | |

## Veritech Control/Receipt Number: 13718

Description: CERIUM

ApprovedBy: carmela
ApproveDate: 04/16/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLCE2-2X | 25-13CEX | 01/14/21 | 01/30/22 | Aliano, Carmela | 2 | 500m | 1000 | ug/Ml |

## Veritech Control/Receipt Number: 13720

Description: Silicon

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLSI9-2X | 25-18SIX | 01/14/21 | 01/30/22 | Aliano, Carmela | 2 | 500ml | 1000 | ug/ml |

## Veritech Control/Receipt Number: 13721

Description: BORON

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLB9-2X | 25-61BX | 01/14/21 | 01/30/22 | Aliano, Carmela | 1 | 500ml | 1000 | UG/ML |

## Veritech Control/Receipt Number: 13729

Description: CALIBRATION 1

ApprovedBy: carmela
ApproveDate: 04/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-19-500 | 14-246AB | 01/20/21 | 01/30/22 | Aliano, Carmela | 4 | 500m | NEAT | NEAT |

## Veritech Control/Receipt Number: 13730

Description: CALIBRATION 2

ApprovedBy: carmela
ApproveDate: 04/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-20-500 | 14-247AB | 01/20/21 | 01/30/22 | Aliano, Carmela | 4 | 500m | NEAT | NEAT |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13731

Description: CERIUM

ApprovedBy: carmela
ApproveDate: 04/16/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SCP SCIENCE | 140-051-585 | S200415008 | 01/20/21 | 04/30/22 | Aliano, Carmela | 1 | 500ml | CONC | CONC |

## Veritech Control/Receipt Number: 13732

Description: SILICON

ApprovedBy: carmela
ApproveDate: 04/16/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SCP SCIENCE | 140-050-145 | S200904004 | 01/20/21 | 09/30/22 | Aliano, Carmela | 1 | 500ml | CONC | CONC |

## Veritech Control/Receipt Number: 13846

Description: ICV 1

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SCP SCIENCE | 600-225-101 | S210222019 | 03/15/21 | 11/01/21 | Aliano, Carmela | 2 | 500ml | NEAT | NEAT |

## Veritech Control/Receipt Number: 13847

Description: ICV 2

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SCP SCIENCE | 600-225-102 | S210222020 | 04/01/21 | 03/01/22 | Aliano, Carmela | 2 | 500ml | NEAT | NEAT |

## Veritech Control/Receipt Number: 13849

Description: ICSA

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-30 | 4-111MF | 04/01/21 | 01/06/22 | Aliano, Carmela | 2 | 500m | NEAT | NEAT |

## Veritech Control/Receipt Number: 13902

Description: hydrochloric acid

ApprovedBy: jessica
ApproveDate: 05/10/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9530-33 | 271303 | 05/04/21 | 09/15/25 | Lopez, Jose | 18 | 2.5L | neat | neat |

## Veritech Control/Receipt Number: 13949

Description: nitirc acid

ApprovedBy: carmela
ApproveDate: 07/14/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 271456 | 05/25/21 | 10/12/25 | Lopez, Jose | 12 | 2.5L | neat | neat |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13969

Description: LL-AQUEOUS

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-43-500 | 4-108MF | 03/29/21 | 03/30/22 | Aliano, Carmela | 1 | | NEAT | NEAT |

## Veritech Control/Receipt Number: 13971

Description: LINEAR RANGE C

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | XHCV-44-500 | 4-110MF | 03/29/21 | 03/30/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 14035

Description: BORON (SPEX

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SPEX | PLB-92X | 25-61BX | 07/06/21 | 06/30/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 14062

Description: Hydrochloric Acid

ApprovedBy: akmal
ApproveDate: 07/14/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9530-33 | 271303 | 07/13/21 | 09/15/25 | Lopez, Jose | 18 | 2.5L | neat | neat |

## Veritech Control/Receipt Number: 14102

Description: nitric acid

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 271456 | 08/03/21 | 10/12/25 | Lopez, Jose | 8 | 2.5L | neat | neat |

Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 14003**

Description: sulfuric acid

ApprovedBy: akmal
ApproveDate: 06/22/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fisher | A510-P212 | 3120011 | 06/22/21 | 10/15/23 | Lopez, Jose | 4 | 2.5L | neat | neat |

**Veritech Control/Receipt Number: 14102**

Description: nitric acid

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 271456 | 08/03/21 | 10/12/25 | Lopez, Jose | 8 | 2.5L | neat | neat |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357850

Prepared By: Cousineau, Paul
Description: Hg intermediate Control -WARNING
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber:
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14014 | mercury | .1 ul | 1000 | |
| 14103 | Nitric acid | 2.5 ml | neat neat | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357851

Prepared By: Cousineau, Paul
Description: Hg Intermediate Standard -WARNING
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber:
Concentration: .25 ppm
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13311 | MERCURY 1000 PPM | .125 ml | 1000 ug/ml | |
| 14103 | Nitric acid | 12.5 ml | neat neat | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357852

Prepared By: Cousineau, Paul
Description: Hg AQ ICV 20 ppb
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber: B-31612
Concentration: 20 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357850 | Hg intermediate Control -WARNING | .5 ml | 1.0 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357853

Prepared By: Cousineau, Paul
Description: Hg AQ CCV 10 ppb
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber: B-31612
Concentration: 10 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357850 | Hg intermediate Control -WARNING | .25 ml | 1.0 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357854

Prepared By: Cousineau, Paul
Description: Hg AQ standard blk
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber: B-31612
Concentration: 0 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357855

Prepared By: Cousineau, Paul
Description: Hg AQ standard .2 ppb
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber: B-31612
Concentration: .2 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | .02 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357856

Prepared By: Cousineau, Paul
Description: Hg AQ standard .5 ppb
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber: B-31612
Concentration: .5 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | .05 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357857

Prepared By: Cousineau, Paul
Description: Hg AQ standard 1 ppb
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber: B-31612
Concentration: 1 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | .1 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357858

Prepared By: Cousineau, Paul
Description: Hg AQ standard 2 ppb
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber: B-31612
Concentration: 2 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | .2 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357859

Prepared By: Cousineau, Paul
Description: Hg AQ standard 5 ppb
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber: B-31612
Concentration: 5 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | .5 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357860

Prepared By: Cousineau, Paul
Description: Hg AQ standard 10 ppb
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber: B-31612
Concentration: 10 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | 1 ml | .25 ppm | |
| 13600 | DI H2O | | | |

# Veritech Internally Prepared Standard Log

**Veritech Lot Number: V-357861**

| | | | |
|---|---|---|---|
| Prepared By: | Cousineau, Paul | Department: Metals | ApprovedBy: shiamala |
| Description: | Hg AQ standard 25 ppb | BatchNumber: B-31612 | ApproveDate: 10/05/21 |
| Prep Date: | 9/23/2021 | Concentration: 25 ppb | Checked: Yes |
| Expiration Date: | 9/23/2021 | Final Volume: 25 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | 2.5 ml | .25 ppm | |
| 13600 | DI H2O | | | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13311

Description: MERCURY 1000 PPM

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SCP | 140-051-801 | S200130001 | 06/04/20 | 12/30/21 | Cousineau, Paul | 1 | 125 M | 1000 | UG/ML |

## Veritech Control/Receipt Number: 13600

Description: DI H2O

ApprovedBy: jessica
ApproveDate: 11/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 11/12/20 | 11/11/21 | Trivedi, Beena | 1 | | | |

## Veritech Control/Receipt Number: 14014

Description: mercury

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| spex | PLHG4-2Y | 25-88HGY | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 125M | 1000 | |

## Veritech Control/Receipt Number: 14103

Description: Nitric acid

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 277202 | 08/03/21 | 01/14/26 | Lopez, Jose | 8 | 4L | neat | neat |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357850

Prepared By: Cousineau, Paul
Description: Hg intermediate Control -WARNING
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber:
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14014 | mercury | .1 ul | 1000 | |
| 14103 | Nitric acid | 2.5 ml | neat neat | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357851

Prepared By: Cousineau, Paul
Description: Hg Intermediate Standard -WARNING
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber:
Concentration: .25 ppm
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13311 | MERCURY 1000 PPM | .125 ml | 1000 ug/ml | |
| 14103 | Nitric acid | 12.5 ml | neat neat | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357926

Prepared By: Lucca, Daniela
Description: Hg AQ ICV 20 ppb
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber: B-31619
Concentration: 20 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357850 | Hg intermediate Control -WARNING | .5 ml | 1.0 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357927

Prepared By: Lucca, Daniela
Description: Hg AQ CCV 10 ppb
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber: B-31619
Concentration: 10 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357850 | Hg intermediate Control -WARNING | .25 ml | 1.0 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357928

Prepared By: Lucca, Daniela
Description: Hg AQ standard blk
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber: B-31619
Concentration: 0 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357929

Prepared By: Lucca, Daniela | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard .2 ppb | BatchNumber: B-31619 | ApproveDate: 10/05/21
Prep Date: 9/23/2021 | Concentration: .2 ppb | Checked: Yes
Expiration Date: 9/23/2021 | Final Volume: 25 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | .02 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357930

Prepared By: Lucca, Daniela | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard .5 ppb | BatchNumber: B-31619 | ApproveDate: 10/05/21
Prep Date: 9/23/2021 | Concentration: .5 ppb | Checked: Yes
Expiration Date: 9/23/2021 | Final Volume: 25 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | .05 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357931

Prepared By: Lucca, Daniela | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard 1 ppb | BatchNumber: B-31619 | ApproveDate: 10/05/21
Prep Date: 9/23/2021 | Concentration: 1 ppb | Checked: Yes
Expiration Date: 9/23/2021 | Final Volume: 25 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | .1 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357932

Prepared By: Lucca, Daniela | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard 2 ppb | BatchNumber: B-31619 | ApproveDate: 10/05/21
Prep Date: 9/23/2021 | Concentration: 2 ppb | Checked: Yes
Expiration Date: 9/23/2021 | Final Volume: 25 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | .2 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357933

Prepared By: Lucca, Daniela | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard 5 ppb | BatchNumber: B-31619 | ApproveDate: 10/05/21
Prep Date: 9/23/2021 | Concentration: 5 ppb | Checked: Yes
Expiration Date: 9/23/2021 | Final Volume: 25 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | .5 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357934

Prepared By: Lucca, Daniela | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard 10 ppb | BatchNumber: B-31619 | ApproveDate: 10/05/21
Prep Date: 9/23/2021 | Concentration: 10 ppb | Checked: Yes
Expiration Date: 9/23/2021 | Final Volume: 25 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | 1 ml | .25 ppm | |
| 13600 | DI H2O | | | |

# Veritech Internally Prepared Standard Log

**Veritech Lot Number: V-357935**

| | | | |
|---|---|---|---|
| Prepared By: | Lucca, Daniela | Department: Metals | ApprovedBy: shiamala |
| Description: | Hg AQ standard 25 ppb | BatchNumber: B-31619 | ApproveDate: 10/05/21 |
| Prep Date: | 9/23/2021 | Concentration: 25 ppb | Checked: Yes |
| Expiration Date: | 9/23/2021 | Final Volume: 25 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357851 | Hg Intermediate Standard -WARNING | 2.5 ml | .25 ppm | |
| 13600 | DI H2O | | | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-352789

Prepared By: Silva, Amanda
Description: 5% Potassium Persulfate WARNING
Prep Date: 7/1/2021
Expiration Date: 1/1/2022
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 12620 l
ApprovedBy: shiamala
ApproveDate: 07/01/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 12620 | POTASSIUM PERSULFATE | 500 g | NEAT neat | |

## Veritech Lot Number: V-355568

Prepared By: Silva, Amanda
Description: 5% Potassium Permanganate WARNIN
Prep Date: 8/13/2021
Expiration Date: 2/13/2022
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 20 l
ApprovedBy: shiamala
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13944 | potassium Permanagate | 1000 g | | |

## Veritech Lot Number: V-355937

Prepared By: Silva, Amanda
Description: Hydroxylamine Hydrochloride WARNIN
Prep Date: 8/20/2021
Expiration Date: 2/20/2022
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 12218 | Sodium Chloride | 1200 g | neat neat | |
| 13945 | HYDROXYLAMINE | 1200 g | | |

## Veritech Lot Number: V-357760

Prepared By: Silva, Amanda
Description: 3% HCL WARNING
Prep Date: 9/22/2021
Expiration Date: 10/22/2021
Department: WetChem
BatchNumber:
Concentration: 3 %
Final Volume: 20 l
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14104 | Hydrochloric acid | 600 ml | neat neat | 3% |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357850

Prepared By: Cousineau, Paul
Description: Hg intermediate Control -WARNING
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber:
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14014 | mercury | .1 ul | 1000 | |
| 14103 | Nitric acid | 2.5 ml | neat neat | |
| 13600 | DI H2O | | | |

Veritech Internally Prepared Standard Log

**Veritech Lot Number: V-357868**

| | | | |
|---|---|---|---|
| Prepared By: | Silva, Amanda | Department: Metals | ApprovedBy: shiamala |
| Description: | SnCl2 "WARNING:" | BatchNumber: | ApproveDate: 10/05/21 |
| Prep Date: | 9/23/2021 | Concentration: reagent I | Checked: Yes |
| Expiration Date: | 9/23/2021 | Final Volume: 2 l | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357760 | 3% HCL WARNING | 2000 ml | 3 % | |
| 13946 | STANNOUS CHLORIDE | 26.4 g | | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 12218

Description: Sodium Chloride

ApprovedBy: akmal
ApproveDate: 12/31/18
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EMD | SX0420-5 | 17F145203 | 12/27/18 | 12/26/23 | Lopez, Jose | 1 | 12kg | neat | neat |

## Veritech Control/Receipt Number: 12620

Description: POTASSIUM PERSULFATE

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB SALES | LC-4445NG | 170106-A | 06/25/19 | 08/09/21 | Balashanthan, Shi | 1 | 2.5KG | NEAT | NEAT |

## Veritech Control/Receipt Number: 13600

Description: DI H2O

ApprovedBy: jessica
ApproveDate: 11/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 11/12/20 | 11/11/21 | Trivedi, Beena | 1 | | | |

## Veritech Control/Receipt Number: 13944

Description: potassium Permanagate

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| lab sales | LC-T10208 | 200812-C | 05/24/21 | 02/28/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 13945

Description: HYDROXYLAMINE

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB SALES | LC-1580015 | 201208-1A | 05/24/21 | 02/28/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 13946

Description: STANNOUS CHLORIDE

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB SALES | LC-P33805 | 201208-2C | 05/24/21 | 02/28/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 14014

Description: mercury

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| spex | PLHG4-2Y | 25-88HGY | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 125M | 1000 | |

Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 14103**

| Description | ApprovedBy: |
|---|---|
| Nitric acid | ApproveDate: |
| | Checked: No |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 277202 | 08/03/21 | 01/14/26 | Lopez, Jose | 8 | 4L | neat | neat |

**Veritech Control/Receipt Number: 14104**

| Description | ApprovedBy: |
|---|---|
| Hydrochloric acid | ApproveDate: |
| | Checked: No |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9530-33 | 275677 | 08/03/21 | 12/15/25 | Lopez, Jose | 12 | 2.5L | neat | neat |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357902

Prepared By: Silva, Amanda
Description: Hg Intermediate Standard -WARNING
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: Metals
BatchNumber: B-31616
Concentration: .25 ppm
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13311 | MERCURY 1000 PPM | .125 ml | 1000 ug/ml | |
| 14103 | Nitric acid | 12.5 ml | neat neat | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357903

Prepared By: Silva, Amanda
Description: Hg intermediate Control -WARNING
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: Metals
BatchNumber: B-31616
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14014 | mercury | .1 ul | 1000 | |
| 14103 | Nitric acid | 2.5 ml | neat neat | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358019

Prepared By: Silva, Amanda
Description: Hg AQ ICV 20 ppb
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: Metals
BatchNumber: B-31629
Concentration: 20 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357903 | Hg intermediate Control -WARNING | .5 ml | 1.0 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358020

Prepared By: Silva, Amanda
Description: Hg AQ CCV 10 ppb
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: Metals
BatchNumber: B-31629
Concentration: 10 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357903 | Hg intermediate Control -WARNING | .25 ml | 1.0 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358021

Prepared By: Silva, Amanda
Description: Hg AQ standard blk
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: Metals
BatchNumber: B-31629
Concentration: 0 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-358022

Prepared By: Silva, Amanda
Description: Hg AQ standard .2 ppb
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: Metals
BatchNumber: B-31629
Concentration: .2 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357902 | Hg Intermediate Standard -WARNING | .02 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358023

Prepared By: Silva, Amanda
Description: Hg AQ standard .5 ppb
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: Metals
BatchNumber: B-31629
Concentration: .5 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357902 | Hg Intermediate Standard -WARNING | .05 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358024

Prepared By: Silva, Amanda
Description: Hg AQ standard 1 ppb
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: Metals
BatchNumber: B-31629
Concentration: 1 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357902 | Hg Intermediate Standard -WARNING | .1 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358025

Prepared By: Silva, Amanda
Description: Hg AQ standard 2 ppb
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: Metals
BatchNumber: B-31629
Concentration: 2 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357902 | Hg Intermediate Standard -WARNING | .2 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358026

Prepared By: Silva, Amanda
Description: Hg AQ standard 5 ppb
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: Metals
BatchNumber: B-31629
Concentration: 5 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357902 | Hg Intermediate Standard -WARNING | .5 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358027

Prepared By: Silva, Amanda
Description: Hg AQ standard 10 ppb
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: Metals
BatchNumber: B-31629
Concentration: 10 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357902 | Hg Intermediate Standard -WARNING | 1 ml | .25 ppm | |
| 13600 | DI H2O | | | |

# Veritech Internally Prepared Standard Log

**Veritech Lot Number: V-358028**

| | | | |
|---|---|---|---|
| Prepared By: | Silva, Amanda | Department: Metals | ApprovedBy: shiamala |
| Description: | Hg AQ standard 25 ppb | BatchNumber: B-31629 | ApproveDate: 10/05/21 |
| Prep Date: | 9/24/2021 | Concentration: 25 ppb | Checked: Yes |
| Expiration Date: | 9/24/2021 | Final Volume: 25 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357902 | Hg Intermediate Standard -WARNING | 2.5 ml | .25 ppm | |
| 13600 | DI H2O | | | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13311

| Description | ApprovedBy: / ApproveDate: / Checked: No |
|---|---|
| MERCURY 1000 PPM | |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SCP | 140-051-801 | S200130001 | 06/04/20 | 12/30/21 | Cousineau, Paul | 1 | 125 M | 1000 | UG/ML |

## Veritech Control/Receipt Number: 13600

| Description | ApprovedBy: jessica / ApproveDate: 11/13/20 / Checked: Yes |
|---|---|
| DI H2O | |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 11/12/20 | 11/11/21 | Trivedi, Beena | 1 | | | |

## Veritech Control/Receipt Number: 14014

| Description | ApprovedBy: / ApproveDate: / Checked: No |
|---|---|
| mercury | |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| spex | PLHG4-2Y | 25-88HGY | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 125M | 1000 | |

## Veritech Control/Receipt Number: 14103

| Description | ApprovedBy: / ApproveDate: / Checked: No |
|---|---|
| Nitric acid | |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 277202 | 08/03/21 | 01/14/26 | Lopez, Jose | 8 | 4L | neat | neat |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-352789

Prepared By: Silva, Amanda
Description: 5% Potassium Persulfate WARNING
Prep Date: 7/1/2021
Expiration Date: 1/1/2022
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 12620 l
ApprovedBy: shiamala
ApproveDate: 07/01/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 12620 | POTASSIUM PERSULFATE | 500 g | NEAT neat | |

## Veritech Lot Number: V-355568

Prepared By: Silva, Amanda
Description: 5% Potassium Permanganate WARNIN
Prep Date: 8/13/2021
Expiration Date: 2/13/2022
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 20 l
ApprovedBy: shiamala
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13944 | potassium Permanagate | 1000 g | | |

## Veritech Lot Number: V-355937

Prepared By: Silva, Amanda
Description: Hydroxylamine Hydrochloride WARNIN
Prep Date: 8/20/2021
Expiration Date: 2/20/2022
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 12218 | Sodium Chloride | 1200 g | neat neat | |
| 13945 | HYDROXYLAMINE | 1200 g | | |

## Veritech Lot Number: V-357903

Prepared By: Silva, Amanda
Description: Hg intermediate Control -WARNING
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: Metals
BatchNumber: B-31616
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14014 | mercury | .1 ul | 1000 | |
| 14103 | Nitric acid | 2.5 ml | neat neat | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357904

Prepared By: Silva, Amanda
Description: SnCl2 "WARNING:"
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: Metals
BatchNumber:
Concentration: reagent l
Final Volume: 2 l
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357905 | 3% HCL WARNING | 2000 ml | 3 % | |
| 13946 | STANNOUS CHLORIDE | 26.4 g | | |

# Veritech Internally Prepared Standard Log

**Veritech Lot Number: V-357905**

| | | | |
|---|---|---|---|
| Prepared By: | Silva, Amanda | Department: WetChem | ApprovedBy: shiamala |
| Description: | 3% HCL WARNING | BatchNumber: | ApproveDate: 10/05/21 |
| Prep Date: | 9/24/2021 | Concentration: 3 % | Checked: Yes |
| Expiration Date: | 10/24/2021 | Final Volume: 20 l | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14104 | Hydrochloric acid | 600 ml | neat neat | 3% |
| 13600 | DI H2O | | | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 12218

Description: Sodium Chloride

ApprovedBy: akmal
ApproveDate: 12/31/18
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EMD | SX0420-5 | 17F145203 | 12/27/18 | 12/26/23 | Lopez, Jose | 1 | 12kg | neat | neat |

## Veritech Control/Receipt Number: 12620

Description: POTASSIUM PERSULFATE

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB SALES | LC-4445NG | 170106-A | 06/25/19 | 08/09/21 | Balashanthan, Shi | 1 | 2.5KG | NEAT | NEAT |

## Veritech Control/Receipt Number: 13600

Description: DI H2O

ApprovedBy: jessica
ApproveDate: 11/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 11/12/20 | 11/11/21 | Trivedi, Beena | 1 | | | |

## Veritech Control/Receipt Number: 13944

Description: potassium Permanagate

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| lab sales | LC-T10208 | 200812-C | 05/24/21 | 02/28/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 13945

Description: HYDROXYLAMINE

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB SALES | LC-1580015 | 201208-1A | 05/24/21 | 02/28/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 13946

Description: STANNOUS CHLORIDE

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB SALES | LC-P33805 | 201208-2C | 05/24/21 | 02/28/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 14014

Description: mercury

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| spex | PLHG4-2Y | 25-88HGY | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 125M | 1000 | |

Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 14103**

| Description | ApprovedBy: |
|---|---|
| Nitric acid | ApproveDate: |
| | Checked: No |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 277202 | 08/03/21 | 01/14/26 | Lopez, Jose | 8 | 4L | neat | neat |

**Veritech Control/Receipt Number: 14104**

| Description | ApprovedBy: |
|---|---|
| Hydrochloric acid | ApproveDate: |
| | Checked: No |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9530-33 | 275677 | 08/03/21 | 12/15/25 | Lopez, Jose | 12 | 2.5L | neat | neat |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-352789

Prepared By: Silva, Amanda
Description: 5% Potassium Persulfate WARNING
Prep Date: 7/1/2021
Expiration Date: 1/1/2022
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 12620 l
ApprovedBy: shiamala
ApproveDate: 07/01/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 12620 | POTASSIUM PERSULFATE | 500 g | NEAT neat | |

## Veritech Lot Number: V-355568

Prepared By: Silva, Amanda
Description: 5% Potassium Permanganate WARNIN
Prep Date: 8/13/2021
Expiration Date: 2/13/2022
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 20 l
ApprovedBy: shiamala
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13944 | potassium Permanagate | 1000 g | | |

## Veritech Lot Number: V-355937

Prepared By: Silva, Amanda
Description: Hydroxylamine Hydrochloride WARNIN
Prep Date: 8/20/2021
Expiration Date: 2/20/2022
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 12218 | Sodium Chloride | 1200 g | neat neat | |
| 13945 | HYDROXYLAMINE | 1200 g | | |

## Veritech Lot Number: V-357760

Prepared By: Silva, Amanda
Description: 3% HCL WARNING
Prep Date: 9/22/2021
Expiration Date: 10/22/2021
Department: WetChem
BatchNumber:
Concentration: 3 %
Final Volume: 20 l
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14104 | Hydrochloric acid | 600 ml | neat neat | 3% |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-357850

Prepared By: Cousineau, Paul
Description: Hg intermediate Control -WARNING
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: Metals
BatchNumber:
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14014 | mercury | .1 ul | 1000 | |
| 14103 | Nitric acid | 2.5 ml | neat neat | |
| 13600 | DI H2O | | | |

# Veritech Internally Prepared Standard Log

**Veritech Lot Number: V-357868**

| | | | |
|---|---|---|---|
| Prepared By: | Silva, Amanda | Department: Metals | ApprovedBy: shiamala |
| Description: | SnCl2 "WARNING:" | BatchNumber: | ApproveDate: 10/05/21 |
| Prep Date: | 9/23/2021 | Concentration: reagent I | Checked: Yes |
| Expiration Date: | 9/23/2021 | Final Volume: 2 l | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357760 | 3% HCL WARNING | 2000 ml | 3 % | |
| 13946 | STANNOUS CHLORIDE | 26.4 g | | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 12218

Description: Sodium Chloride

ApprovedBy: akmal
ApproveDate: 12/31/18
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EMD | SX0420-5 | 17F145203 | 12/27/18 | 12/26/23 | Lopez, Jose | 1 | 12kg | neat | neat |

## Veritech Control/Receipt Number: 12620

Description: POTASSIUM PERSULFATE

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB SALES | LC-4445NG | 170106-A | 06/25/19 | 08/09/21 | Balashanthan, Shi | 1 | 2.5KG | NEAT | NEAT |

## Veritech Control/Receipt Number: 13600

Description: DI H2O

ApprovedBy: jessica
ApproveDate: 11/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 11/12/20 | 11/11/21 | Trivedi, Beena | 1 | | | |

## Veritech Control/Receipt Number: 13944

Description: potassium Permanagate

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| lab sales | LC-T10208 | 200812-C | 05/24/21 | 02/28/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 13945

Description: HYDROXYLAMINE

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB SALES | LC-1580015 | 201208-1A | 05/24/21 | 02/28/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 13946

Description: STANNOUS CHLORIDE

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB SALES | LC-P33805 | 201208-2C | 05/24/21 | 02/28/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 14014

Description: mercury

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| spex | PLHG4-2Y | 25-88HGY | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 125M | 1000 | |

Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 14103**

| Description | ApprovedBy: |
|---|---|
| Nitric acid | ApproveDate: |
| | Checked: No |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 277202 | 08/03/21 | 01/14/26 | Lopez, Jose | 8 | 4L | neat | neat |

**Veritech Control/Receipt Number: 14104**

| Description | ApprovedBy: |
|---|---|
| Hydrochloric acid | ApproveDate: |
| | Checked: No |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9530-33 | 275677 | 08/03/21 | 12/15/25 | Lopez, Jose | 12 | 2.5L | neat | neat |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-358047

Prepared By: Cousineau, Paul
Description: Hg Intermediate Standard -WARNING
Prep Date: 9/26/2021
Expiration Date: 9/26/2021
Department: Metals
BatchNumber:
Concentration: .25 ppm
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13311 | MERCURY 1000 PPM | .125 ml | 1000 ug/ml | |
| 14103 | Nitric acid | 12.5 ml | neat neat | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358048

Prepared By: Cousineau, Paul
Description: Hg intermediate Control -WARNING
Prep Date: 9/26/2021
Expiration Date: 9/26/2021
Department: Metals
BatchNumber:
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14014 | mercury | .1 ul | 1000 | |
| 14103 | Nitric acid | 2.5 ml | neat neat | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358049

Prepared By: Cousineau, Paul
Description: Hg AQ ICV 20 ppb
Prep Date: 9/26/2021
Expiration Date: 9/26/2021
Department: Metals
BatchNumber: B-31630
Concentration: 20 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-358048 | Hg intermediate Control -WARNING | .5 ml | 1.0 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358050

Prepared By: Cousineau, Paul
Description: Hg AQ CCV 10 ppb
Prep Date: 9/26/2021
Expiration Date: 9/26/2021
Department: Metals
BatchNumber: B-31630
Concentration: 10 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-358048 | Hg intermediate Control -WARNING | .25 ml | 1.0 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358051

Prepared By: Cousineau, Paul
Description: Hg AQ standard blk
Prep Date: 9/26/2021
Expiration Date: 9/26/2021
Department: Metals
BatchNumber: B-31630
Concentration: 0 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-358052

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard .2 ppb | BatchNumber: B-31630 | ApproveDate: 10/05/21
Prep Date: 9/26/2021 | Concentration: .2 ppb | Checked: Yes
Expiration Date: 9/26/2021 | Final Volume: 25 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-358047 | Hg Intermediate Standard -WARNING | .02 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358053

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard .5 ppb | BatchNumber: B-31630 | ApproveDate: 10/05/21
Prep Date: 9/26/2021 | Concentration: .5 ppb | Checked: Yes
Expiration Date: 9/26/2021 | Final Volume: 25 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-358047 | Hg Intermediate Standard -WARNING | .05 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358054

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard 1 ppb | BatchNumber: B-31630 | ApproveDate: 10/05/21
Prep Date: 9/26/2021 | Concentration: 1 ppb | Checked: Yes
Expiration Date: 9/26/2021 | Final Volume: 25 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-358047 | Hg Intermediate Standard -WARNING | .1 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358055

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard 2 ppb | BatchNumber: B-31630 | ApproveDate: 10/05/21
Prep Date: 9/26/2021 | Concentration: 2 ppb | Checked: Yes
Expiration Date: 9/26/2021 | Final Volume: 25 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-358047 | Hg Intermediate Standard -WARNING | .2 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358056

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard 5 ppb | BatchNumber: B-31630 | ApproveDate: 10/05/21
Prep Date: 9/26/2021 | Concentration: 5 ppb | Checked: Yes
Expiration Date: 9/26/2021 | Final Volume: 25 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-358047 | Hg Intermediate Standard -WARNING | .5 ml | .25 ppm | |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358057

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard 10 ppb | BatchNumber: B-31630 | ApproveDate: 10/05/21
Prep Date: 9/26/2021 | Concentration: 10 ppb | Checked: Yes
Expiration Date: 9/26/2021 | Final Volume: 25 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-358047 | Hg Intermediate Standard -WARNING | 1 ml | .25 ppm | |
| 13600 | DI H2O | | | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-358058

| | | | |
|---|---|---|---|
| Prepared By: | Cousineau, Paul | Department: Metals | ApprovedBy: shiamala |
| Description: | Hg AQ standard 25 ppb | BatchNumber: B-31630 | ApproveDate: 10/05/21 |
| Prep Date: | 9/26/2021 | Concentration: 25 ppb | Checked: Yes |
| Expiration Date: | 9/26/2021 | Final Volume: 25 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-358047 | Hg Intermediate Standard -WARNING | 2.5 ml | .25 ppm | |
| 13600 | DI H2O | | | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13311

Description: MERCURY 1000 PPM

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| SCP | 140-051-801 | S200130001 | 06/04/20 | 12/30/21 | Cousineau, Paul | 1 | 125 M | 1000 | UG/ML |

## Veritech Control/Receipt Number: 13600

Description: DI H2O

ApprovedBy: jessica
ApproveDate: 11/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 11/12/20 | 11/11/21 | Trivedi, Beena | 1 | | | |

## Veritech Control/Receipt Number: 14014

Description: mercury

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| spex | PLHG4-2Y | 25-88HGY | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 125M | 1000 | |

## Veritech Control/Receipt Number: 14103

Description: Nitric acid

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9598-34 | 277202 | 08/03/21 | 01/14/26 | Lopez, Jose | 8 | 4L | neat | neat |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-352789

Prepared By: Silva, Amanda
Description: 5% Potassium Persulfate WARNING
Prep Date: 7/1/2021
Expiration Date: 1/1/2022
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 12620 l
ApprovedBy: shiamala
ApproveDate: 07/01/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 12620 | POTASSIUM PERSULFATE | 500 g | NEAT neat | |

## Veritech Lot Number: V-355568

Prepared By: Silva, Amanda
Description: 5% Potassium Permanganate WARNIN
Prep Date: 8/13/2021
Expiration Date: 2/13/2022
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 20 l
ApprovedBy: shiamala
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13944 | potassium Permanagate | 1000 g | | |

## Veritech Lot Number: V-355937

Prepared By: Silva, Amanda
Description: Hydroxylamine Hydrochloride WARNIN
Prep Date: 8/20/2021
Expiration Date: 2/20/2022
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 08/27/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 12218 | Sodium Chloride | 1200 g | neat neat | |
| 13945 | HYDROXYLAMINE | 1200 g | | |

## Veritech Lot Number: V-357905

Prepared By: Silva, Amanda
Description: 3% HCL WARNING
Prep Date: 9/24/2021
Expiration Date: 10/24/2021
Department: WetChem
BatchNumber:
Concentration: 3 %
Final Volume: 20 l
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14104 | Hydrochloric acid | 600 ml | neat neat | 3% |
| 13600 | DI H2O | | | |

## Veritech Lot Number: V-358048

Prepared By: Cousineau, Paul
Description: Hg intermediate Control -WARNING
Prep Date: 9/26/2021
Expiration Date: 9/26/2021
Department: Metals
BatchNumber:
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 10/05/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14014 | mercury | .1 ul | 1000 | |
| 14103 | Nitric acid | 2.5 ml | neat neat | |
| 13600 | DI H2O | | | |

# Veritech Internally Prepared Standard Log

**Veritech Lot Number: V-358174**

| | | | |
|---|---|---|---|
| Prepared By: | Aliano, Carmela | Department: Metals | ApprovedBy: shiamala |
| Description: | SnCl2 "WARNING:" | BatchNumber: | ApproveDate: 10/05/21 |
| Prep Date: | 9/28/2021 | Concentration: reagent I | Checked: Yes |
| Expiration Date: | 9/28/2021 | Final Volume: 2 l | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357905 | 3% HCL WARNING | 2000 ml | 3 % | |
| 13946 | STANNOUS CHLORIDE | 26.4 g | | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 12218

Description: Sodium Chloride

ApprovedBy: akmal
ApproveDate: 12/31/18
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EMD | SX0420-5 | 17F145203 | 12/27/18 | 12/26/23 | Lopez, Jose | 1 | 12kg | neat | neat |

## Veritech Control/Receipt Number: 12620

Description: POTASSIUM PERSULFATE

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB SALES | LC-4445NG | 170106-A | 06/25/19 | 08/09/21 | Balashanthan, Shi | 1 | 2.5KG | NEAT | NEAT |

## Veritech Control/Receipt Number: 13600

Description: DI H2O

ApprovedBy: jessica
ApproveDate: 11/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 11/12/20 | 11/11/21 | Trivedi, Beena | 1 | | | |

## Veritech Control/Receipt Number: 13944

Description: potassium Permanagate

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| lab sales | LC-T10208 | 200812-C | 05/24/21 | 02/28/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 13945

Description: HYDROXYLAMINE

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB SALES | LC-1580015 | 201208-1A | 05/24/21 | 02/28/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 13946

Description: STANNOUS CHLORIDE

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB SALES | LC-P33805 | 201208-2C | 05/24/21 | 02/28/22 | Aliano, Carmela | 1 | | | |

## Veritech Control/Receipt Number: 14014

Description: mercury

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume/ Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| spex | PLHG4-2Y | 25-88HGY | 07/01/21 | 06/30/22 | Cousineau, Paul | 1 | 125M | 1000 | |

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICP2A\SW27669A2.txt

**Analysis Date:** 09/28/21 **Instrument:** PEICP2A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CALBLK V-352951 | 1 | CAL | 11:42 | 1 | | | | | | | V-352951(ICB/CCB) |
| CALST2 V-352961 | 1 | CAL | 11:46 | 2 | | | | | | | V-352961(LLICV/LLCCV aq) |
| CALST3 V-352955 | 1 | CAL | 11:50 | 3 | | | | | | | V-352955(ICS3 - Middle Std) |
| CALST4 V-352956 | 1 | CAL | 11:54 | 4 | | | | | | | V-352956(ICS4 High std) |
| ICV V-352960 | 1 | ICV | 11:59 | 5 | | | | | | | V-352960(CCV) |
| ICB V-352951 | 1 | ICB | 12:04 | 6 | | | | | | | V-352951(ICB/CCB) |
| LLICV V-352961 | 1 | LLICV | 12:07 | 7 | | AQUEO | AQUEO | SW846 | 94426 | | V-352961(LLICV/LLCCV aq) |
| LRS V-352964 | 1 | LRS | 12:11 | 8 | | AQUEO | AQUEO | SW846 | 94426 | | V-352964(LRS) |
| ICS3 V-352955 | 1 | ICS | 12:17 | 9 | | | | | | | V-352955(ICS3 - Middle Std) |
| RINSE | 1 | SMP | 12:21 | 10 | | AQUEO | AQUEO | SW846 | 94426 | | 0 |
| ICSA V-352957 | 1 | ICSA | 12:25 | 11 | | | | | | | V-352957(ICSA) |
| AD26146-001 | 2 | SMP | 12:31 | 12 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94426 | Ca,Mn,Cu REPORTED | 0 |
| CCV V-352960 | 1 | CCV | 12:36 | 13 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 12:40 | 14 | | | | | | | V-352951(ICB/CCB) |
| MB 94427 (1) | 1 | MB | 12:44 | 15 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| LCS 94427 | 1 | LCS | 12:48 | 16 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| LCS MR 94427 | 1 | LCS | 12:52 | 17 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-048 | 1 | SMP | 12:56 | 18 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-048 | 1 | MR | 13:02 | 19 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-049 | 1 | MS | 13:07 | 20 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-050 | 1 | MSD | 13:13 | 21 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-048 | 1 | PS | 13:19 | 22 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-048 | 5 | SD | 13:25 | 23 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-001 | 1 | SMP | 13:29 | 24 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-352960 | 1 | CCV | 13:32 | 25 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 13:37 | 26 | | | | | | | V-352951(ICB/CCB) |

**Comments/Reviewedby:**

carmela
192.168.1.89 9/28/2021 2:59:43 PM

ok

10/4/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICP2A\SW27669C2.txt

**Analysis Date:** 09/29/21 **Instrument:** PEICP2A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CALBLK V-352951 | 1 | CAL | 10:02 | 1 | | | | | | | V-352951(ICB/CCB) |
| CALST2 V-352961 | 1 | CAL | 10:06 | 2 | | | | | | | V-352961(LLICV/LLCCV aq) |
| CALST3 V-352955 | 1 | CAL | 10:10 | 3 | | | | | | | V-352955(ICS3 - Middle Std) |
| CALST4 V-352956 | 1 | CAL | 10:14 | 4 | | | | | | | V-352956(ICS4 High std) |
| ICV V-352960 | 1 | ICV | 10:20 | 5 | | | | | | | V-352960(CCV) |
| ICB V-352951 | 1 | ICB | 10:24 | 6 | | | | | | | V-352951(ICB/CCB) |
| LLICV V-352961 | 1 | LLICV | 10:28 | 7 | | AQUEO | AQUEO | SW846 | 94427 | | V-352961(LLICV/LLCCV aq) |
| LRS V-352964 | 1 | LRS | 10:32 | 8 | | AQUEO | AQUEO | SW846 | 94427 | | V-352964(LRS) |
| ICS3 V-352955 | 1 | ICS | 10:38 | 9 | | | | | | | V-352955(ICS3 - Middle Std) |
| RINSE | 1 | SMP | 10:42 | 10 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| ICSA V-352957 | 1 | ICSA | 10:46 | 11 | | | | | | | V-352957(ICSA) |
| CCV V-352960 | 1 | CCV | 10:52 | 12 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 10:56 | 13 | | | | | | | V-352951(ICB/CCB) |
| AD26083-002 | 1 | SMP | 11:00 | 14 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-005 | 1 | SMP | 11:04 | 15 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-008 | 1 | SMP | 11:08 | 16 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-009 | 1 | SMP | 11:12 | 17 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-011 | 1 | SMP | 11:17 | 18 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-018 | 1 | SMP | 11:21 | 19 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-352960 | 1 | CCV | 11:25 | 20 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 11:29 | 21 | | | | | | | V-352951(ICB/CCB) |
| AD26083-026 | 1 | SMP | 11:33 | 22 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-027 | 1 | SMP | 11:37 | 23 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-032 | 1 | SMP | 11:41 | 24 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Ca,Mg NOT REPORTED>LR | 0 |
| AD26083-033 | 1 | SMP | 11:47 | 25 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-035 | 1 | SMP | 11:50 | 26 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-352960 | 1 | CCV | 11:54 | 27 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 11:59 | 28 | | | | | | | V-352951(ICB/CCB) |
| MB 94428 (1) | 1 | MB | 12:02 | 29 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LCS 94428 | 1 | LCS | 12:06 | 30 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LCS MR 94428 | 1 | LCS | 12:10 | 31 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 1 | SMP | 12:15 | 32 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 1 | MR | 12:19 | 33 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-042 | 1 | MS | 12:23 | 34 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-044 | 1 | MSD | 12:28 | 35 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 1 | PS | 12:32 | 36 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 5 | SD | 12:36 | 37 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-006 | 1 | SMP | 12:41 | 38 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-352960 | 1 | CCV | 12:45 | 39 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 12:49 | 40 | | | | | | | V-352951(ICB/CCB) |
| AD26083-012 | 1 | SMP | 12:53 | 41 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-014 | 1 | SMP | 12:56 | 42 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-016 | 1 | SMP | 13:01 | 43 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-019 | 1 | SMP | 13:05 | 44 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-021 | 1 | SMP | 13:09 | 45 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-023 | 1 | SMP | 13:13 | 46 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-028 | 1 | SMP | 13:17 | 47 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-352960 | 1 | CCV | 13:21 | 48 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 13:25 | 49 | | | | | | | V-352951(ICB/CCB) |
| AD26083-030 | 1 | SMP | 13:29 | 50 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-036 | 1 | SMP | 13:33 | 51 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Ca,Mg NOT REPORTED>LR | 0 |
| AD26083-038 | 1 | SMP | 13:38 | 52 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-046 | 1 | SMP | 13:42 | 53 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-039 | 1 | SMP | 13:46 | 54 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-352960 | 1 | CCV | 13:50 | 55 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 13:54 | 56 | | | | | | | V-352951(ICB/CCB) |
| MB 94429 (1) | 1 | MB | 13:58 | 57 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LCS 94429 | 1 | LCS | 14:02 | 58 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LCS MR 94429 | 1 | LCS | 14:06 | 59 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-041 | 1 | SMP | 14:10 | 60 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/29/2021 4:20:19 PM

ok
Al Na K NOT REPORTED

10/4/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICP2A\SW27669C2.txt

**Analysis Date:** 09/29/21 **Instrument:** PEICP2A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AD26083-041 | 1 | MR | 14:15 | 61 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-043 | 1 | MS | 14:19 | 62 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-045 | 1 | MSD | 14:23 | 63 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-041 | 1 | PS | 14:28 | 64 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-041 | 5 | SD | 14:32 | 65 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-004 | 1 | SMP | 14:36 | 66 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| CCV V-352960 | 1 | CCV | 14:40 | 67 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 14:44 | 68 | | | | | | | V-352951(ICB/CCB) |
| AD26083-007 | 1 | SMP | 14:48 | 69 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-013 | 1 | SMP | 14:52 | 70 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-015 | 1 | SMP | 14:56 | 71 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-017 | 1 | SMP | 15:00 | 72 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-020 | 1 | SMP | 15:04 | 73 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-022 | 1 | SMP | 15:09 | 74 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| CCV V-352960 | 1 | CCV | 15:13 | 75 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 15:17 | 76 | | | | | | | V-352951(ICB/CCB) |
| AD26083-024 | 1 | SMP | 15:21 | 77 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-029 | 1 | SMP | 15:25 | 78 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-031 | 1 | SMP | 15:29 | 79 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-037 | 1 | SMP | 15:33 | 80 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Ca,Mg NOT REPORTED>LR | () |
| AD26083-047 | 1 | SMP | 15:39 | 81 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-003 | 1 | SMP | 15:43 | 82 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-032 | 10 | SMP | 15:47 | 83 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Ca,Mg REPORTED | () |
| AD26083-036 | 10 | SMP | 15:51 | 84 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Ca,Mg REPORTED | () |
| AD26083-037 | 10 | SMP | 15:55 | 85 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Ca,Mg REPORTED | () |
| AD26174-001 | 1 | SMP | 15:59 | 86 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94447 | Fe,Mn,Ag NOT REPORTED (Fe,Mn>LR) | () |
| CCV V-352960 | 1 | CCV | 16:05 | 87 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 16:10 | 88 | | | | | | | V-352951(ICB/CCB) |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/29/2021 4:20:19 PM

ok
Al Na K NOT REPORTED

10/4/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICPRAD5A\SW27669A5.txt

**Analysis Date:** 09/28/21 **Instrument:** PEICPRAD5A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CALBLK V-352951 | 1 | CAL | 15:29 | 1 | | | | | | | V-352951(ICB/CCB) |
| CALST2 V-352961 | 1 | CAL | 15:32 | 2 | | | | | | | V-352961(LLICV/LLCCV aq) |
| CALST3 V-352955 | 1 | CAL | 15:36 | 3 | | | | | | | V-352955(ICS3 - Middle Std) |
| CALST4 V-352956 | 1 | CAL | 15:40 | 4 | | | | | | | V-352956(ICS4 High std) |
| ICV V-352960 | 1 | ICV | 15:44 | 5 | | | | | | | V-352960(CCV) |
| ICB V-352951 | 1 | ICB | 15:48 | 6 | | | | | | | V-352951(ICB/CCB) |
| LRS V-352964 | 1 | LRS | 15:52 | 7 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | V-352964(LRS) |
| ICS3 V-352955 | 1 | ICS | 15:58 | 8 | | | | | | | V-352955(ICS3 - Middle Std) |
| RINSE | 1 | SMP | 16:02 | 9 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| LLICV V-352961 | 1 | LLICV | 16:06 | 10 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | V-352961(LLICV/LLCCV aq) |
| ICSA V-352957 | 1 | ICSA | 16:10 | 11 | | | | | | | V-352957(ICSA) |
| CCV V-352960 | 1 | CCV | 16:15 | 12 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 16:20 | 13 | | | | | | | V-352951(ICB/CCB) |
| MB 94427 (1) | 1 | MB | 16:23 | 14 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| LCS 94427 | 1 | LCS | 16:27 | 15 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| LCS MR 94427 | 1 | LCS | 16:31 | 16 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-048 | 1 | SMP | 16:36 | 17 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na>LR | 0 |
| AD26083-048 | 1 | MR | 16:41 | 18 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na>LR | 0 |
| AD26083-049 | 1 | MS | 16:47 | 19 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na>LR | 0 |
| AD26083-050 | 1 | MSD | 16:53 | 20 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na>LR | 0 |
| AD26083-048 | 1 | PS | 16:59 | 21 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na>LR | 0 |
| AD26083-048 | 5 | SD | 17:04 | 22 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na>LR | 0 |
| AD26083-001 | 1 | SMP | 17:09 | 23 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-352960 | 1 | CCV | 17:13 | 24 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 17:17 | 25 | | | | | | | V-352951(ICB/CCB) |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/29/2021 12:01:33 PM

OK
Al,Na,K REPORTED

10/4/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICPRAD5A\SW27669B5.txt

**Analysis Date:** 09/28/21 **Instrument:** PEICPRAD5A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CALBLK V-352951 | 1 | CAL | 17:21 | 1 | | | | | | | V-352951(ICB/CCB) |
| CALST2 V-352961 | 1 | CAL | 17:25 | 2 | | | | | | | V-352961(LLICV/LLCCV aq) |
| CALST3 V-352955 | 1 | CAL | 17:29 | 3 | | | | | | | V-352955(ICS3 - Middle Std) |
| CALST4 V-352956 | 1 | CAL | 17:33 | 4 | | | | | | | V-352956(ICS4 High std) |
| ICV V-352960 | 1 | ICV | 17:37 | 5 | | | | | | | V-352960(CCV) |
| ICB V-352951 | 1 | ICB | 17:41 | 6 | | | | | | | V-352951(ICB/CCB) |
| LRS V-352964 | 1 | LRS | 17:45 | 7 | | AQUEO | AQUEO | SW846 | 94427 | | V-352964(LRS) |
| ICS3 V-352955 | 1 | ICS | 17:51 | 8 | | | | | | | V-352955(ICS3 - Middle Std) |
| RINSE | 1 | SMP | 17:55 | 9 | | AQUEO | AQUEO | SW846 | 94427 | | () |
| LLICV V-352961 | 1 | LLICV | 17:59 | 10 | | AQUEO | AQUEO | SW846 | 94427 | | V-352961(LLICV/LLCCV aq) |
| ICSA V-352957 | 1 | ICSA | 18:02 | 11 | | | | | | | V-352957(ICSA) |
| CCV V-352960 | 1 | CCV | 18:08 | 12 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 18:12 | 13 | | | | | | | V-352951(ICB/CCB) |
| AD26083-002 | 1 | SMP | 18:16 | 14 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-005 | 1 | SMP | 18:20 | 15 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-008 | 1 | SMP | 18:24 | 16 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-009 | 1 | SMP | 18:28 | 17 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-011 | 1 | SMP | 18:32 | 18 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-352960 | 1 | CCV | 18:37 | 19 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 18:41 | 20 | | | | | | | V-352951(ICB/CCB) |
| AD26083-018 | 1 | SMP | 18:45 | 21 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-026 | 1 | SMP | 18:49 | 22 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-027 | 1 | SMP | 18:53 | 23 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-032 | 1 | SMP | 18:57 | 24 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na SATR' NOT REPORTED | 0 |
| AD26083-033 | 1 | SMP | 19:02 | 25 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-035 | 1 | SMP | 19:06 | 26 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-352960 | 1 | CCV | 19:10 | 27 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 19:15 | 28 | | | | | | | V-352951(ICB/CCB) |
| MB 94428 (1) | 1 | MB | 19:18 | 29 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LCS 94428 | 1 | LCS | 19:22 | 30 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LCS MR 94428 | 1 | LCS | 19:26 | 31 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 1 | SMP | 19:31 | 32 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na>LR | 0 |
| AD26083-040 | 1 | MR | 19:36 | 33 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na>LR | 0 |
| AD26083-042 | 1 | MS | 19:42 | 34 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na>LR | 0 |
| AD26083-044 | 1 | MSD | 19:48 | 35 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na>LR | 0 |
| AD26083-040 | 1 | PS | 19:53 | 36 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na>LR | 0 |
| AD26083-040 | 5 | SD | 19:59 | 37 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na>LR | 0 |
| AD26083-003 | 1 | SMP | 20:03 | 38 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-352960 | 1 | CCV | 20:07 | 39 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 20:11 | 40 | | | | | | | V-352951(ICB/CCB) |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/29/2021 11:58:44 AM

Na,Al,K REPORTED

10/4/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICPRAD5A\SW27669E5.txt

**Analysis Date:** 09/29/21 **Instrument:** PEICPRAD5A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CALBLK V-352951 | 1 | CAL | 15:00 | 1 | | | | | | | V-352951(ICB/CCB) |
| CALST2 V-352961 | 1 | CAL | 15:04 | 2 | | | | | | | V-352961(LLICV/LLCCV aq) |
| CALST3 V-352955 | 1 | CAL | 15:08 | 3 | | | | | | | V-352955(ICS3 - Middle Std) |
| CALST4 V-352956 | 1 | CAL | 15:12 | 4 | | | | | | | V-352956(ICS4 High std) |
| ICV V-352960 | 1 | ICV | 15:16 | 5 | | | | | | | V-352960(CCV) |
| ICB V-352951 | 1 | ICB | 15:21 | 6 | | | | | | | V-352951(ICB/CCB) |
| LRS V-352964 | 1 | LRS | 15:24 | 7 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | V-352964(LRS) |
| ICS3 V-352955 | 1 | ICS | 15:30 | 8 | | | | | | | V-352955(ICS3 - Middle Std) |
| RINSE | 1 | NA | 15:34 | 9 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LLICV V-352961 | 1 | LLICV | 15:38 | 10 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | V-352961(LLICV/LLCCV aq) |
| ICSA V-352957 | 1 | ICSA | 15:42 | 11 | | | | | | | V-352957(ICSA) |
| CCV V-352960 | 1 | CCV | 15:47 | 12 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 15:52 | 13 | | | | | | | V-352951(ICB/CCB) |
| MB 94429 (1) | 1 | MB | 15:55 | 14 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LCS 94429 | 1 | LCS | 15:59 | 15 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LCS MR 94429 | 1 | LCS | 16:03 | 16 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-041 | 1 | SMP | 16:08 | 17 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-041 | 1 | MR | 16:12 | 18 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-043 | 1 | MS | 16:17 | 19 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-045 | 1 | MSD | 16:23 | 20 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-041 | 1 | PS | 16:28 | 21 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-041 | 5 | SD | 16:34 | 22 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-004 | 1 | SMP | 16:38 | 23 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV V-352960 | 1 | CCV | 16:42 | 24 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 16:46 | 25 | | | | | | | V-352951(ICB/CCB) |
| AD26083-007 | 1 | SMP | 16:50 | 26 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-013 | 1 | SMP | 16:54 | 27 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-015 | 1 | SMP | 16:57 | 28 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-017 | 1 | SMP | 17:01 | 29 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-020 | 1 | SMP | 17:05 | 30 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-022 | 1 | SMP | 17:09 | 31 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV V-352960 | 1 | CCV | 17:14 | 32 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 17:18 | 33 | | | | | | | V-352951(ICB/CCB) |
| AD26083-024 | 1 | SMP | 17:22 | 34 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-029 | 1 | SMP | 17:26 | 35 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-031 | 1 | SMP | 17:30 | 36 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-037 | 1 | SMP | 17:34 | 37 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-047 | 1 | SMP | 17:40 | 38 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV V-352960 | 1 | CCV | 17:44 | 39 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 17:48 | 40 | | | | | | | V-352951(ICB/CCB) |
| AD26083-048 | 10 | SMP | 17:52 | 41 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| AD26083-048 | 10 | MR | 17:56 | 42 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| AD26083-049 | 10 | MS | 18:00 | 43 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| AD26083-050 | 10 | MSD | 18:04 | 44 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| AD26083-048 | 10 | PS | 18:08 | 45 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| AD26083-048 | 10 | SD | 18:12 | 46 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| AD26083-032 | 10 | SMP | 18:16 | 47 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| CCV V-352960 | 1 | CCV | 18:21 | 48 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 18:25 | 49 | | | | | | | V-352951(ICB/CCB) |
| AD26083-040 | 10 | SMP | 18:29 | 50 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| AD26083-040 | 10 | MR | 18:33 | 51 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| AD26083-042 | 10 | MS | 18:37 | 52 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| AD26083-044 | 10 | MSD | 18:41 | 53 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| AD26083-040 | 10 | PS | 18:45 | 54 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| AD26083-040 | 10 | SD | 18:49 | 55 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| AD26083-036 | 10 | SMP | 18:53 | 56 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| CCV V-352960 | 1 | CCV | 18:58 | 57 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 19:02 | 58 | | | | | | | V-352951(ICB/CCB) |
| AD26083-041 | 10 | SMP | 19:06 | 59 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | 0 |
| AD26083-041 | 10 | MR | 19:10 | 60 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | 0 |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/30/2021 9:33:26 AM

OK
Na,Al,K REPORTED

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

10/4/21

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICPRAD5A\SW27669E5.txt

**Analysis Date:** 09/29/21 **Instrument:** PEICPRAD5A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AD26083-043 | 10 | MS | 19:14 | 61 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| AD26083-045 | 10 | MSD | 19:18 | 62 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| AD26083-041 | 10 | PS | 19:22 | 63 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| AD26083-041 | 10 | SD | 19:26 | 64 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| AD26083-037 | 10 | SMP | 19:31 | 65 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| CCV V-352960 | 1 | CCV | 19:35 | 66 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 19:39 | 67 | | | | | | | V-352951(ICB/CCB) |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/30/2021 9:33:26 AM

OK
Na,Al,K REPORTED

10/4/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\A092321ANEW.txt

**Analysis Date:** 09/23/21 **Instrument:** MS3_7700SWA

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RINSE | 1 | NA | 10:50 | 1 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| RINSE | 1 | NA | 10:54 | 2 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CalBlk V-357834 | 1 | ISBLK | 10:59 | 3 | | SOIL | SOIL | | | | V-357834(Cal Blk WARNING) |
| CalStd1 V-357835 | 1 | CAL | 11:03 | 4 | | | | | | | V-357835(Cal Std-1 WARNING) |
| CalStd2 V-357836 | 1 | CAL | 11:08 | 5 | | | | | | | V-357836(Cal Std-2 WARNING) |
| CalStd3 V-357837 | 1 | CAL | 11:12 | 6 | | | | | | | V-357837(Cal Std-3 WARNING) |
| CalStd4 V-357838 | 1 | CAL | 11:17 | 7 | | | | | | | V-357838(Cal Std-4 WARNING) |
| CalStd5 V-357839 | 1 | CAL | 11:21 | 8 | | | | | | | V-357839(Cal Std-5 WARNING) |
| ICV V-357840 | 1 | ICV | 11:25 | 9 | | | | | | | V-357840(ICV WARNING) |
| LLICV V-357848 | 1 | LLICV | 11:29 | 10 | | AQUEO | AQUEO | SW846 | 94427 | | V-357848(LL-ICV/CCV AQ. WARNING) |
| ICB V-357841 | 1 | ICB | 11:34 | 11 | | | | | | | V-357841(ICB/CCB WARNING) |
| ICSA V-357842 | 1 | ICSA | 11:38 | 12 | | | | | | | V-357842(ICSA WARNING) |
| RINSE | 1 | NA | 11:43 | 13 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| LRS V-357843 | 1 | LRS | 11:47 | 14 | | AQUEO | AQUEO | SW846 | 94427 | | V-357843(LRS WARNING) |
| RINSE | 1 | NA | 11:52 | 15 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| RINSE | 1 | NA | 11:56 | 16 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| RINSE | 1 | NA | 12:01 | 17 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-357844 | 1 | CCV | 12:11 | 18 | | | | | | | V-357844(CCV WARNING) |
| CCB V-357841 | 1 | CCB | 12:15 | 19 | | | | | | | V-357841(ICB/CCB WARNING) |
| MB 94427 | 1 | MB | 12:20 | 20 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| LCSW 94427 | 1 | LCS | 12:24 | 21 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| LCS MR 94427 | 1 | LCS | 12:28 | 22 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-048 | 1 | SMP | 12:32 | 23 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-048 | 1 | MR | 12:37 | 24 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-048 | 5 | SD | 12:41 | 25 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-049 | 1 | MS | 12:46 | 26 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-050 | 1 | MSD | 12:50 | 27 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-048 | 1 | PS | 12:54 | 28 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| RINSE | 1 | NA | 12:58 | 29 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-357844 | 1 | CCV | 13:03 | 30 | | | | | | | V-357844(CCV WARNING) |
| CCB V-357841 | 1 | CCB | 13:07 | 31 | | | | | | | V-357841(ICB/CCB WARNING) |
| AD26083-001 | 1 | SMP | 13:12 | 32 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-002 | 1 | SMP | 13:16 | 33 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-005 | 1 | SMP | 13:21 | 34 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-008 | 1 | SMP | 13:25 | 35 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-009 | 1 | SMP | 13:30 | 36 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-011 | 1 | SMP | 13:34 | 37 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-018 | 1 | SMP | 13:38 | 38 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-026 | 1 | SMP | 13:43 | 39 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-027 | 1 | SMP | 13:47 | 40 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| RINSE | 1 | NA | 13:52 | 41 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-357844 | 1 | CCV | 13:56 | 42 | | | | | | | V-357844(CCV WARNING) |
| CCB V-357841 | 1 | CCB | 14:01 | 43 | | | | | | | V-357841(ICB/CCB WARNING) |
| AD26083-032 | 1 | SMP | 14:05 | 44 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-033 | 1 | SMP | 14:09 | 45 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-035 | 1 | SMP | 14:14 | 46 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| RINSE | 1 | NA | 14:18 | 47 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-357844 | 1 | CCV | 14:23 | 48 | | | | | | | V-357844(CCV WARNING) |
| CCB V-357841 | 1 | CCB | 14:27 | 49 | | | | | | | V-357841(ICB/CCB WARNING) |

**Comments/Reviewedby:**

pcousineau
192.168.1.87 9/24/2021 10:47:19 AM

Run ok. Report As, Be, Cd, Co, Pb, Sb, Se, Tl PC.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: De 9/23/16

**Standard/Batch/SnCl2 Lot #:**

10/7/21

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\HGCV4A\H27669SW.txt

**Analysis Date:** 09/23/21 **Instrument:** HGCV4A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Calibration Blank | 1 | CAL | 13:48 | 1 | | | | | | | 0 |
| .2 PPB | 1 | CAL | 13:49 | 2 | | | | | | | 0 |
| .5 PPB | 1 | CAL | 13:51 | 3 | | | | | | | 0 |
| 1 PPB | 1 | CAL | 13:52 | 4 | | | | | | | 0 |
| 2 PPB | 1 | CAL | 13:54 | 5 | | | | | | | 0 |
| 5 PPB | 1 | CAL | 13:55 | 6 | | | | | | | 0 |
| 10 PPB | 1 | CAL | 13:57 | 7 | | | | | | | 0 |
| 25 PPB | 1 | CAL | 13:59 | 8 | | | | | | | 0 |
| ICV (2) | 1 | ICV | 14:01 | 9 | | | | | | | 0 |
| ICB | 1 | ICB | 14:03 | 10 | | | | | | | 0 |
| MB 94427 (1) | 1 | MB | 14:04 | 11 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| LCS 94427 | 1 | LCS | 14:06 | 12 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| LCS 94427 MR | 1 | LCS | 14:08 | 13 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-048 | 1 | SMP | 14:10 | 14 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-048 | 1 | MR | 14:11 | 15 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-049 | 1 | MS | 14:13 | 16 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-050 | 1 | MSD | 14:14 | 17 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-001 | 1 | SMP | 14:16 | 18 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-002 | 1 | SMP | 14:17 | 19 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-005 | 1 | SMP | 14:19 | 20 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV | 1 | CCV | 14:20 | 21 | | | | | | | 0 |
| CCB | 1 | CCB | 14:22 | 22 | | | | | | | 0 |
| AD26083-008 | 1 | SMP | 14:24 | 23 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-009 | 1 | SMP | 14:25 | 24 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-011 | 1 | SMP | 14:27 | 25 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-018 | 1 | SMP | 14:28 | 26 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-026 | 1 | SMP | 14:30 | 27 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-027 | 1 | SMP | 14:31 | 28 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-032 | 1 | SMP | 14:33 | 29 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-033 | 1 | SMP | 14:34 | 30 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-035 | 1 | SMP | 14:36 | 31 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV | 1 | CCV | 14:37 | 32 | | | | | | | 0 |
| CCB | 1 | CCB | 14:39 | 33 | | | | | | | 0 |

**Comments/Reviewedby:**

asilva
192.168.1.115 9/23/2021 5:31:43 PM

Ok

9/24/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

V-357868

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICPRAD5A\SW27669B5.txt

**Analysis Date:** 09/28/21 **Instrument:** PEICPRAD5A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CALBLK V-352951 | 1 | CAL | 17:21 | 1 | | | | | | | V-352951(ICB/CCB) |
| CALST2 V-352961 | 1 | CAL | 17:25 | 2 | | | | | | | V-352961(LLICV/LLCCV aq) |
| CALST3 V-352955 | 1 | CAL | 17:29 | 3 | | | | | | | V-352955(ICS3 - Middle Std) |
| CALST4 V-352956 | 1 | CAL | 17:33 | 4 | | | | | | | V-352956(ICS4 High std) |
| ICV V-352960 | 1 | ICV | 17:37 | 5 | | | | | | | V-352960(CCV) |
| ICB V-352951 | 1 | ICB | 17:41 | 6 | | | | | | | V-352951(ICB/CCB) |
| LRS V-352964 | 1 | LRS | 17:45 | 7 | | AQUEO | AQUEO | SW846 | 94427 | | V-352964(LRS) |
| ICS3 V-352955 | 1 | ICS | 17:51 | 8 | | | | | | | V-352955(ICS3 - Middle Std) |
| RINSE | 1 | SMP | 17:55 | 9 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| LLICV V-352961 | 1 | LLICV | 17:59 | 10 | | AQUEO | AQUEO | SW846 | 94427 | | V-352961(LLICV/LLCCV aq) |
| ICSA V-352957 | 1 | ICSA | 18:02 | 11 | | | | | | | V-352957(ICSA) |
| CCV V-352960 | 1 | CCV | 18:08 | 12 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 18:12 | 13 | | | | | | | V-352951(ICB/CCB) |
| AD26083-002 | 1 | SMP | 18:16 | 14 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-005 | 1 | SMP | 18:20 | 15 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-008 | 1 | SMP | 18:24 | 16 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-009 | 1 | SMP | 18:28 | 17 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-011 | 1 | SMP | 18:32 | 18 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-352960 | 1 | CCV | 18:37 | 19 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 18:41 | 20 | | | | | | | V-352951(ICB/CCB) |
| AD26083-018 | 1 | SMP | 18:45 | 21 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-026 | 1 | SMP | 18:49 | 22 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-027 | 1 | SMP | 18:53 | 23 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-032 | 1 | SMP | 18:57 | 24 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na SATR' NOT REPORTED | 0 |
| AD26083-033 | 1 | SMP | 19:02 | 25 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-035 | 1 | SMP | 19:06 | 26 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-352960 | 1 | CCV | 19:10 | 27 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 19:15 | 28 | | | | | | | V-352951(ICB/CCB) |
| MB 94428 (1) | 1 | MB | 19:18 | 29 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LCS 94428 | 1 | LCS | 19:22 | 30 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LCS MR 94428 | 1 | LCS | 19:26 | 31 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 1 | SMP | 19:31 | 32 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na>LR | 0 |
| AD26083-040 | 1 | MR | 19:36 | 33 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na>LR | 0 |
| AD26083-042 | 1 | MS | 19:42 | 34 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na>LR | 0 |
| AD26083-044 | 1 | MSD | 19:48 | 35 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na>LR | 0 |
| AD26083-040 | 1 | PS | 19:53 | 36 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na>LR | 0 |
| AD26083-040 | 5 | SD | 19:59 | 37 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na>LR | 0 |
| AD26083-003 | 1 | SMP | 20:03 | 38 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-352960 | 1 | CCV | 20:07 | 39 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 20:11 | 40 | | | | | | | V-352951(ICB/CCB) |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/29/2021 11:58:44 AM

Na,Al,K REPORTED

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

10/4/21

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICPRAD5A\SW27669C5.txt

**Analysis Date:** 09/28/21 **Instrument:** PEICPRAD5A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CALBLK V-352951 | 1 | CAL | 21:06 | 1 | | | | | | | V-352951(ICB/CCB) |
| CALST2 V-352961 | 1 | CAL | 21:10 | 2 | | | | | | | V-352961(LLICV/LLCCV aq) |
| CALST3 V-352955 | 1 | CAL | 21:14 | 3 | | | | | | | V-352955(ICS3 - Middle Std) |
| CALST4 V-352956 | 1 | CAL | 21:18 | 4 | | | | | | | V-352956(ICS4 High std) |
| ICV V-352960 | 1 | ICV | 21:22 | 5 | | | | | | | V-352960(CCV) |
| ICB V-352951 | 1 | ICB | 21:26 | 6 | | | | | | | V-352951(ICB/CCB) |
| LRS V-352964 | 1 | LRS | 21:30 | 7 | | AQUEO | AQUEO | SW846 | 94428 | | V-352964(LRS) |
| ICS3 V-352955 | 1 | ICS | 21:36 | 8 | | | | | | | V-352955(ICS3 - Middle Std) |
| RINSE | 1 | SMP | 21:40 | 9 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LLICV V-352961 | 1 | LLICV | 21:44 | 10 | | AQUEO | AQUEO | SW846 | 94428 | | V-352961(LLICV/LLCCV aq) |
| ICSA V-352957 | 1 | ICSA | 21:47 | 11 | | | | | | | V-352957(ICSA) |
| CCV V-352960 | 1 | CCV | 21:53 | 12 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 21:57 | 13 | | | | | | | V-352951(ICB/CCB) |
| AD26083-006 | 1 | SMP | 22:01 | 14 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-012 | 1 | SMP | 22:04 | 15 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-014 | 1 | SMP | 22:08 | 16 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-016 | 1 | SMP | 22:12 | 17 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-019 | 1 | SMP | 22:16 | 18 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-021 | 1 | SMP | 22:20 | 19 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-023 | 1 | SMP | 22:24 | 20 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-352960 | 1 | CCV | 22:29 | 21 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 22:33 | 22 | | | | | | | V-352951(ICB/CCB) |
| AD26083-028 | 1 | SMP | 22:37 | 23 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-030 | 1 | SMP | 22:41 | 24 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-036 | 1 | SMP | 22:45 | 25 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na>LR | 0 |
| AD26083-038 | 1 | SMP | 22:51 | 26 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-046 | 1 | SMP | 22:55 | 27 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-039 | 1 | SMP | 22:59 | 28 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-352960 | 1 | CCV | 23:03 | 29 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 23:07 | 30 | | | | | | | V-352951(ICB/CCB) |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/29/2021 12:14:51 PM

OK

10/6/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICPRAD5A\SW27669E5.txt

**Analysis Date:** 09/29/21 **Instrument:** PEICPRAD5A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CALBLK V-352951 | 1 | CAL | 15:00 | 1 | | | | | | | V-352951(ICB/CCB) |
| CALST2 V-352961 | 1 | CAL | 15:04 | 2 | | | | | | | V-352961(LLICV/LLCCV aq) |
| CALST3 V-352955 | 1 | CAL | 15:08 | 3 | | | | | | | V-352955(ICS3 - Middle Std) |
| CALST4 V-352956 | 1 | CAL | 15:12 | 4 | | | | | | | V-352956(ICS4 High std) |
| ICV V-352960 | 1 | ICV | 15:16 | 5 | | | | | | | V-352960(CCV) |
| ICB V-352951 | 1 | ICB | 15:21 | 6 | | | | | | | V-352951(ICB/CCB) |
| LRS V-352964 | 1 | LRS | 15:24 | 7 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | V-352964(LRS) |
| ICS3 V-352955 | 1 | ICS | 15:30 | 8 | | | | | | | V-352955(ICS3 - Middle Std) |
| RINSE | 1 | NA | 15:34 | 9 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LLICV V-352961 | 1 | LLICV | 15:38 | 10 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | V-352961(LLICV/LLCCV aq) |
| ICSA V-352957 | 1 | ICSA | 15:42 | 11 | | | | | | | V-352957(ICSA) |
| CCV V-352960 | 1 | CCV | 15:47 | 12 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 15:52 | 13 | | | | | | | V-352951(ICB/CCB) |
| MB 94429 (1) | 1 | MB | 15:55 | 14 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LCS 94429 | 1 | LCS | 15:59 | 15 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LCS MR 94429 | 1 | LCS | 16:03 | 16 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-041 | 1 | SMP | 16:08 | 17 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-041 | 1 | MR | 16:12 | 18 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-043 | 1 | MS | 16:17 | 19 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-045 | 1 | MSD | 16:23 | 20 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-041 | 1 | PS | 16:28 | 21 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-041 | 5 | SD | 16:34 | 22 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-004 | 1 | SMP | 16:38 | 23 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV V-352960 | 1 | CCV | 16:42 | 24 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 16:46 | 25 | | | | | | | V-352951(ICB/CCB) |
| AD26083-007 | 1 | SMP | 16:50 | 26 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-013 | 1 | SMP | 16:54 | 27 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-015 | 1 | SMP | 16:57 | 28 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-017 | 1 | SMP | 17:01 | 29 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-020 | 1 | SMP | 17:05 | 30 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-022 | 1 | SMP | 17:09 | 31 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV V-352960 | 1 | CCV | 17:14 | 32 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 17:18 | 33 | | | | | | | V-352951(ICB/CCB) |
| AD26083-024 | 1 | SMP | 17:22 | 34 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-029 | 1 | SMP | 17:26 | 35 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-031 | 1 | SMP | 17:30 | 36 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-037 | 1 | SMP | 17:34 | 37 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | 0 |
| AD26083-047 | 1 | SMP | 17:40 | 38 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV V-352960 | 1 | CCV | 17:44 | 39 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 17:48 | 40 | | | | | | | V-352951(ICB/CCB) |
| AD26083-048 | 10 | SMP | 17:52 | 41 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| AD26083-048 | 10 | MR | 17:56 | 42 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| AD26083-049 | 10 | MS | 18:00 | 43 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| AD26083-050 | 10 | MSD | 18:04 | 44 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| AD26083-048 | 10 | PS | 18:08 | 45 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| AD26083-048 | 10 | SD | 18:12 | 46 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| AD26083-032 | 10 | SMP | 18:16 | 47 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | 0 |
| CCV V-352960 | 1 | CCV | 18:21 | 48 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 18:25 | 49 | | | | | | | V-352951(ICB/CCB) |
| AD26083-040 | 10 | SMP | 18:29 | 50 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| AD26083-040 | 10 | MR | 18:33 | 51 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| AD26083-042 | 10 | MS | 18:37 | 52 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| AD26083-044 | 10 | MSD | 18:41 | 53 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| AD26083-040 | 10 | PS | 18:45 | 54 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| AD26083-040 | 10 | SD | 18:49 | 55 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| AD26083-036 | 10 | SMP | 18:53 | 56 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | 0 |
| CCV V-352960 | 1 | CCV | 18:58 | 57 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 19:02 | 58 | | | | | | | V-352951(ICB/CCB) |
| AD26083-041 | 10 | SMP | 19:06 | 59 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | 0 |
| AD26083-041 | 10 | MR | 19:10 | 60 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | 0 |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/30/2021 9:33:26 AM

OK
Na,Al,K REPORTED

10/6/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICPRAD5A\SW27669E5.txt

**Analysis Date:** 09/29/21 **Instrument:** PEICPRAD5A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AD26083-043 | 10 | MS | 19:14 | 61 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| AD26083-045 | 10 | MSD | 19:18 | 62 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| AD26083-041 | 10 | PS | 19:22 | 63 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| AD26083-041 | 10 | SD | 19:26 | 64 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| AD26083-037 | 10 | SMP | 19:31 | 65 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| CCV V-352960 | 1 | CCV | 19:35 | 66 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 19:39 | 67 | | | | | | | V-352951(ICB/CCB) |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/30/2021 9:33:26 AM

OK
Na,Al,K REPORTED

10/6/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICP2A\SW27669C2.txt

**Analysis Date:** 09/29/21 **Instrument:** PEICP2A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CALBLK V-352951 | 1 | CAL | 10:02 | 1 | | | | | | | V-352951(ICB/CCB) |
| CALST2 V-352961 | 1 | CAL | 10:06 | 2 | | | | | | | V-352961(LLICV/LLCCV aq) |
| CALST3 V-352955 | 1 | CAL | 10:10 | 3 | | | | | | | V-352955(ICS3 - Middle Std) |
| CALST4 V-352956 | 1 | CAL | 10:14 | 4 | | | | | | | V-352956(ICS4 High std) |
| ICV V-352960 | 1 | ICV | 10:20 | 5 | | | | | | | V-352960(CCV) |
| ICB V-352951 | 1 | ICB | 10:24 | 6 | | | | | | | V-352951(ICB/CCB) |
| LLICV V-352961 | 1 | LLICV | 10:28 | 7 | | AQUEO | AQUEO | SW846 | 94427 | | V-352961(LLICV/LLCCV aq) |
| LRS V-352964 | 1 | LRS | 10:32 | 8 | | AQUEO | AQUEO | SW846 | 94427 | | V-352964(LRS) |
| ICS3 V-352955 | 1 | ICS | 10:38 | 9 | | | | | | | V-352955(ICS3 - Middle Std) |
| RINSE | 1 | SMP | 10:42 | 10 | | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| ICSA V-352957 | 1 | ICSA | 10:46 | 11 | | | | | | | V-352957(ICSA) |
| CCV V-352960 | 1 | CCV | 10:52 | 12 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 10:56 | 13 | | | | | | | V-352951(ICB/CCB) |
| AD26083-002 | 1 | SMP | 11:00 | 14 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-005 | 1 | SMP | 11:04 | 15 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-008 | 1 | SMP | 11:08 | 16 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-009 | 1 | SMP | 11:12 | 17 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-011 | 1 | SMP | 11:17 | 18 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-018 | 1 | SMP | 11:21 | 19 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-352960 | 1 | CCV | 11:25 | 20 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 11:29 | 21 | | | | | | | V-352951(ICB/CCB) |
| AD26083-026 | 1 | SMP | 11:33 | 22 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-027 | 1 | SMP | 11:37 | 23 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-032 | 1 | SMP | 11:41 | 24 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Ca,Mg NOT REPORTED>LR | 0 |
| AD26083-033 | 1 | SMP | 11:47 | 25 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| AD26083-035 | 1 | SMP | 11:50 | 26 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | 0 |
| CCV V-352960 | 1 | CCV | 11:54 | 27 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 11:59 | 28 | | | | | | | V-352951(ICB/CCB) |
| MB 94428 (1) | 1 | MB | 12:02 | 29 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LCS 94428 | 1 | LCS | 12:06 | 30 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LCS MR 94428 | 1 | LCS | 12:10 | 31 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 1 | SMP | 12:15 | 32 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 1 | MR | 12:19 | 33 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-042 | 1 | MS | 12:23 | 34 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-044 | 1 | MSD | 12:28 | 35 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 1 | PS | 12:32 | 36 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 5 | SD | 12:36 | 37 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-006 | 1 | SMP | 12:41 | 38 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-352960 | 1 | CCV | 12:45 | 39 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 12:49 | 40 | | | | | | | V-352951(ICB/CCB) |
| AD26083-012 | 1 | SMP | 12:53 | 41 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-014 | 1 | SMP | 12:56 | 42 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-016 | 1 | SMP | 13:01 | 43 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-019 | 1 | SMP | 13:05 | 44 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-021 | 1 | SMP | 13:09 | 45 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-023 | 1 | SMP | 13:13 | 46 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-028 | 1 | SMP | 13:17 | 47 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-352960 | 1 | CCV | 13:21 | 48 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 13:25 | 49 | | | | | | | V-352951(ICB/CCB) |
| AD26083-030 | 1 | SMP | 13:29 | 50 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-036 | 1 | SMP | 13:33 | 51 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Ca,Mg NOT REPORTED>LR | 0 |
| AD26083-038 | 1 | SMP | 13:38 | 52 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-046 | 1 | SMP | 13:42 | 53 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-039 | 1 | SMP | 13:46 | 54 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-352960 | 1 | CCV | 13:50 | 55 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 13:54 | 56 | | | | | | | V-352951(ICB/CCB) |
| MB 94429 (1) | 1 | MB | 13:58 | 57 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LCS 94429 | 1 | LCS | 14:02 | 58 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LCS MR 94429 | 1 | LCS | 14:06 | 59 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-041 | 1 | SMP | 14:10 | 60 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/29/2021 4:20:19 PM

ok
Al,Na,K NOT REPORTED

10/6/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICP2A\SW27669C2.txt

**Analysis Date:** 09/29/21 **Instrument:** PEICP2A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AD26083-041 | 1 | MR | 14:15 | 61 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-043 | 1 | MS | 14:19 | 62 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-045 | 1 | MSD | 14:23 | 63 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-041 | 1 | PS | 14:28 | 64 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-041 | 5 | SD | 14:32 | 65 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-004 | 1 | SMP | 14:36 | 66 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV V-352960 | 1 | CCV | 14:40 | 67 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 14:44 | 68 | | | | | | | V-352951(ICB/CCB) |
| AD26083-007 | 1 | SMP | 14:48 | 69 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-013 | 1 | SMP | 14:52 | 70 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-015 | 1 | SMP | 14:56 | 71 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-017 | 1 | SMP | 15:00 | 72 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-020 | 1 | SMP | 15:04 | 73 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-022 | 1 | SMP | 15:09 | 74 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV V-352960 | 1 | CCV | 15:13 | 75 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 15:17 | 76 | | | | | | | V-352951(ICB/CCB) |
| AD26083-024 | 1 | SMP | 15:21 | 77 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-029 | 1 | SMP | 15:25 | 78 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-031 | 1 | SMP | 15:29 | 79 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-037 | 1 | SMP | 15:33 | 80 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Ca,Mg NOT REPORTED>LR | 0 |
| AD26083-047 | 1 | SMP | 15:39 | 81 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-003 | 1 | SMP | 15:43 | 82 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-032 | 10 | SMP | 15:47 | 83 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Ca,Mg REPORTED | 0 |
| AD26083-036 | 10 | SMP | 15:51 | 84 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Ca,Mg REPORTED | 0 |
| AD26083-037 | 10 | SMP | 15:55 | 85 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Ca,Mg REPORTED | 0 |
| AD26174-001 | 1 | SMP | 15:59 | 86 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94447 | Fe,Mn,Ag NOT REPORTED (Fe,Mn>LR) | 0 |
| CCV V-352960 | 1 | CCV | 16:05 | 87 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 16:10 | 88 | | | | | | | V-352951(ICB/CCB) |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/29/2021 4:20:19 PM

ok
Al Na K NOT REPORTED

10/6/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\A092421BNEW.txt

**Analysis Date:** 09/24/21 **Instrument:** MS3_7700SWA

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RINSE | 1 | NA | 16:46 | 1 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| RINSE | 1 | NA | 16:50 | 2 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CalBlk V-357834 | 1 | ISBLK | 16:55 | 3 | | SOIL | SOIL | | | | V-357834(Cal Blk WARNING) |
| CalStd1 V-357835 | 1 | CAL | 16:59 | 4 | | | | | | | V-357835(Cal Std-1 WARNING) |
| CalStd2 V-357836 | 1 | CAL | 17:04 | 5 | | | | | | | V-357836(Cal Std-2 WARNING) |
| CalStd3 V-357837 | 1 | CAL | 17:08 | 6 | | | | | | | V-357837(Cal Std-3 WARNING) |
| CalStd4 V-357838 | 1 | CAL | 17:13 | 7 | | | | | | | V-357838(Cal Std-4 WARNING) |
| CalStd5 V-357839 | 1 | CAL | 17:17 | 8 | | | | | | | V-357839(Cal Std-5 WARNING) |
| ICV V-357840 | 1 | ICV | 17:21 | 9 | | | | | | | V-357840(ICV WARNING) |
| LLICV V-357848 | 1 | LLICV | 17:25 | 10 | | AQUEO | AQUEO | SW846 | 94428 | | V-357848(LL-ICV/CCV AQ WARNING) |
| ICB V-357841 | 1 | ICB | 17:30 | 11 | | | | | | | V-357841(ICB/CCB WARNING) |
| ICSA V-357842 | 1 | ICSA | 17:34 | 12 | | | | | | | V-357842(ICSA WARNING) |
| RINSE | 1 | NA | 17:39 | 13 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LRS V-357843 | 1 | LRS | 17:43 | 14 | | AQUEO | AQUEO | SW846 | 94428 | | V-357843(LRS WARNING) |
| RINSE | 1 | NA | 17:47 | 15 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| RINSE | 1 | NA | 17:52 | 16 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| RINSE | 1 | NA | 17:56 | 17 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-357844 | 1 | CCV | 18:01 | 18 | | | | | | | V-357844(CCV WARNING) |
| CCB V-357841 | 1 | CCB | 18:05 | 19 | | | | | | | V-357841(ICB/CCB WARNING) |
| MB 94428 | 1 | MB | 18:10 | 20 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LCSW 94428 | 1 | LCS | 18:14 | 21 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LCS MR 94428 | 1 | LCS | 18:18 | 22 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 1 | SMP | 18:22 | 23 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 1 | MR | 18:27 | 24 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 5 | SD | 18:31 | 25 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-042 | 1 | MS | 18:36 | 26 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-044 | 1 | MSD | 18:40 | 27 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 1 | PS | 18:44 | 28 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| RINSE | 1 | NA | 18:48 | 29 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-357844 | 1 | CCV | 18:53 | 30 | | | | | | | V-357844(CCV WARNING) |
| CCB V-357841 | 1 | CCB | 18:57 | 31 | | | | | | | V-357841(ICB/CCB WARNING) |
| AD26083-003 | 1 | SMP | 19:02 | 32 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-006 | 1 | SMP | 19:06 | 33 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-012 | 1 | SMP | 19:10 | 34 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-014 | 1 | SMP | 19:15 | 35 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-016 | 1 | SMP | 19:19 | 36 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-019 | 1 | SMP | 19:24 | 37 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-021 | 1 | SMP | 19:28 | 38 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-023 | 1 | SMP | 19:32 | 39 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-028 | 1 | SMP | 19:37 | 40 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| RINSE | 1 | NA | 19:41 | 41 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-357844 | 1 | CCV | 19:46 | 42 | | | | | | | V-357844(CCV WARNING) |
| CCB V-357841 | 1 | CCB | 19:50 | 43 | | | | | | | V-357841(ICB/CCB WARNING) |
| AD26083-030 | 1 | SMP | 19:54 | 44 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-036 | 1 | SMP | 19:59 | 45 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-038 | 1 | SMP | 20:03 | 46 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-046 | 1 | SMP | 20:08 | 47 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-039 | 1 | NA | 20:12 | 48 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| RINSE | 1 | NA | 20:17 | 49 | | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV V-357844 | 1 | CCV | 20:21 | 50 | | | | | | | V-357844(CCV WARNING) |
| CCB V-357841 | 1 | CCB | 20:25 | 51 | | | | | | | V-357841(ICB/CCB WARNING) |

**Comments/Reviewedby:**

pcousineau
192.168.1.87 9/26/2021 11:49:44 AM

Run ok. Report As, Be, Cd, Co, Pb, Sb, Se, Tl. PC

10/8/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 26 9/24/21

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\HGCV4A\H27670SW.txt

**Analysis Date:** 09/24/21 **Instrument:** HGCV4A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Calibration Blank | 1 | CAL | 17:07 | 1 | | | | | | | 0 |
| .2 PPB | 1 | CAL | 17:08 | 2 | | | | | | | 0 |
| .5 PPB | 1 | CAL | 17:10 | 3 | | | | | | | 0 |
| 1 PPB | 1 | CAL | 17:11 | 4 | | | | | | | 0 |
| 2 PPB | 1 | CAL | 17:13 | 5 | | | | | | | 0 |
| 5 PPB | 1 | CAL | 17:14 | 6 | | | | | | | 0 |
| 10 PPB | 1 | CAL | 17:16 | 7 | | | | | | | 0 |
| 25 PPB | 1 | CAL | 17:18 | 8 | | | | | | | 0 |
| ICV (2) | 1 | ICV | 17:20 | 9 | | | | | | | 0 |
| ICB | 1 | ICB | 17:22 | 10 | | | | | | | 0 |
| MB 94428 (1) | 1 | MB | 17:23 | 11 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LCS 94428 | 1 | LCS | 17:25 | 12 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| LCS 94428 MR | 1 | LCS | 17:27 | 13 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 1 | SMP | 17:29 | 14 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-040 | 1 | MR | 17:30 | 15 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-042 | 1 | MS | 17:32 | 16 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-044 | 1 | MSD | 17:33 | 17 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-003 | 1 | SMP | 17:35 | 18 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-006 | 1 | SMP | 17:36 | 19 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-012 | 1 | SMP | 17:38 | 20 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV | 1 | CCV | 17:39 | 21 | | | | | | | 0 |
| CCB | 1 | CCB | 17:41 | 22 | | | | | | | 0 |
| AD26083-014 | 1 | SMP | 17:43 | 23 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-016 | 1 | SMP | 17:44 | 24 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-019 | 1 | SMP | 17:46 | 25 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-021 | 1 | SMP | 17:47 | 26 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-023 | 1 | SMP | 17:49 | 27 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-028 | 1 | SMP | 17:50 | 28 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-030 | 1 | SMP | 17:52 | 29 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-036 | 1 | SMP | 17:53 | 30 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-038 | 1 | SMP | 17:55 | 31 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| AD26083-046 | 1 | SMP | 17:56 | 32 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | | 0 |
| CCV | 1 | CCV | 17:58 | 33 | | | | | | | 0 |
| CCB | 1 | CCB | 18:00 | 34 | | | | | | | 0 |
| AD26083-039 | 1 | NA | 18:01 | 35 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94428 | Air bubble on line/zipper | 0 |
| CCV | 1 | CCV | 18:03 | 36 | | | | | | Failed | 0 |
| CCB | 1 | CCB | 19:22 | 37 | | | | | | | 0 |

**Comments/Reviewedby:**

asilva
192.168.1.115 9/24/2021 7:51:12 PM

Run is Ok

9/27/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

V-357904

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICP2A\SW27669C2.txt

**Analysis Date:** 09/29/21 **Instrument:** PEICP2A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CALBLK V-352951 | 1 | CAL | 10:02 | 1 | | | | | | | V-352951(ICB/CCB) |
| CALST2 V-352961 | 1 | CAL | 10:06 | 2 | | | | | | | V-352961(LLICV/LLCCV aq) |
| CALST3 V-352955 | 1 | CAL | 10:10 | 3 | | | | | | | V-352955(ICS3 - Middle Std) |
| CALST4 V-352956 | 1 | CAL | 10:14 | 4 | | | | | | | V-352956(ICS4 High std) |
| ICV V-352960 | 1 | ICV | 10:20 | 5 | | | | | | | V-352960(CCV) |
| ICB V-352951 | 1 | ICB | 10:24 | 6 | | | | | | | V-352951(ICB/CCB) |
| LLICV V-352961 | 1 | LLICV | 10:28 | 7 | | AQUEO | AQUEO | SW846 | 94427 | | V-352961(LLICV/LLCCV aq) |
| LRS V-352964 | 1 | LRS | 10:32 | 8 | | AQUEO | AQUEO | SW846 | 94427 | | V-352964(LRS) |
| ICS3 V-352955 | 1 | ICS | 10:38 | 9 | | | | | | | V-352955(ICS3 - Middle Std) |
| RINSE | 1 | SMP | 10:42 | 10 | | AQUEO | AQUEO | SW846 | 94427 | | () |
| ICSA V-352957 | 1 | ICSA | 10:46 | 11 | | | | | | | V-352957(ICSA) |
| CCV V-352960 | 1 | CCV | 10:52 | 12 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 10:56 | 13 | | | | | | | V-352951(ICB/CCB) |
| AD26083-002 | 1 | SMP | 11:00 | 14 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | () |
| AD26083-005 | 1 | SMP | 11:04 | 15 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | () |
| AD26083-008 | 1 | SMP | 11:08 | 16 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | () |
| AD26083-009 | 1 | SMP | 11:12 | 17 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | () |
| AD26083-011 | 1 | SMP | 11:17 | 18 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | () |
| AD26083-018 | 1 | SMP | 11:21 | 19 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | () |
| CCV V-352960 | 1 | CCV | 11:25 | 20 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 11:29 | 21 | | | | | | | V-352951(ICB/CCB) |
| AD26083-026 | 1 | SMP | 11:33 | 22 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | () |
| AD26083-027 | 1 | SMP | 11:37 | 23 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | () |
| AD26083-032 | 1 | SMP | 11:41 | 24 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Ca,Mg NOT REPORTED>LR | () |
| AD26083-033 | 1 | SMP | 11:47 | 25 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | () |
| AD26083-035 | 1 | SMP | 11:50 | 26 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | | () |
| CCV V-352960 | 1 | CCV | 11:54 | 27 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 11:59 | 28 | | | | | | | V-352951(ICB/CCB) |
| MB 94428 (1) | 1 | MB | 12:02 | 29 | | AQUEO | AQUEO | SW846 | 94428 | | () |
| LCS 94428 | 1 | LCS | 12:06 | 30 | | AQUEO | AQUEO | SW846 | 94428 | | () |
| LCS MR 94428 | 1 | LCS | 12:10 | 31 | | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-040 | 1 | SMP | 12:15 | 32 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-040 | 1 | MR | 12:19 | 33 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-042 | 1 | MS | 12:23 | 34 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-044 | 1 | MSD | 12:28 | 35 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-040 | 1 | PS | 12:32 | 36 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-040 | 5 | SD | 12:36 | 37 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-006 | 1 | SMP | 12:41 | 38 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| CCV V-352960 | 1 | CCV | 12:45 | 39 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 12:49 | 40 | | | | | | | V-352951(ICB/CCB) |
| AD26083-012 | 1 | SMP | 12:53 | 41 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-014 | 1 | SMP | 12:56 | 42 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-016 | 1 | SMP | 13:01 | 43 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-019 | 1 | SMP | 13:05 | 44 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-021 | 1 | SMP | 13:09 | 45 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-023 | 1 | SMP | 13:13 | 46 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-028 | 1 | SMP | 13:17 | 47 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| CCV V-352960 | 1 | CCV | 13:21 | 48 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 13:25 | 49 | | | | | | | V-352951(ICB/CCB) |
| AD26083-030 | 1 | SMP | 13:29 | 50 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-036 | 1 | SMP | 13:33 | 51 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Ca,Mg NOT REPORTED>LR | () |
| AD26083-038 | 1 | SMP | 13:38 | 52 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-046 | 1 | SMP | 13:42 | 53 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-039 | 1 | SMP | 13:46 | 54 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| CCV V-352960 | 1 | CCV | 13:50 | 55 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 13:54 | 56 | | | | | | | V-352951(ICB/CCB) |
| MB 94429 (1) | 1 | MB | 13:58 | 57 | | AQUEO | AQUEO | SW846 | 94429 | | () |
| LCS 94429 | 1 | LCS | 14:02 | 58 | | AQUEO | AQUEO | SW846 | 94429 | | () |
| LCS MR 94429 | 1 | LCS | 14:06 | 59 | | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-041 | 1 | SMP | 14:10 | 60 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/29/2021 4:20:19 PM

ok
Al Na K NOT REPORTED

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

10/4/21

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICP2A\SW27669C2.txt

**Analysis Date:** 09/29/21 **Instrument:** PEICP2A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AD26083-041 | 1 | MR | 14:15 | 61 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-043 | 1 | MS | 14:19 | 62 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-045 | 1 | MSD | 14:23 | 63 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-041 | 1 | PS | 14:28 | 64 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-041 | 5 | SD | 14:32 | 65 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-004 | 1 | SMP | 14:36 | 66 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| CCV V-352960 | 1 | CCV | 14:40 | 67 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 14:44 | 68 | | | | | | | V-352951(ICB/CCB) |
| AD26083-007 | 1 | SMP | 14:48 | 69 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-013 | 1 | SMP | 14:52 | 70 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-015 | 1 | SMP | 14:56 | 71 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-017 | 1 | SMP | 15:00 | 72 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-020 | 1 | SMP | 15:04 | 73 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-022 | 1 | SMP | 15:09 | 74 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| CCV V-352960 | 1 | CCV | 15:13 | 75 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 15:17 | 76 | | | | | | | V-352951(ICB/CCB) |
| AD26083-024 | 1 | SMP | 15:21 | 77 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-029 | 1 | SMP | 15:25 | 78 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-031 | 1 | SMP | 15:29 | 79 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-037 | 1 | SMP | 15:33 | 80 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Ca,Mg NOT REPORTED>LR | () |
| AD26083-047 | 1 | SMP | 15:39 | 81 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-003 | 1 | SMP | 15:43 | 82 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | | () |
| AD26083-032 | 10 | SMP | 15:47 | 83 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Ca,Mg REPORTED | () |
| AD26083-036 | 10 | SMP | 15:51 | 84 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Ca,Mg REPORTED | () |
| AD26083-037 | 10 | SMP | 15:55 | 85 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Ca,Mg REPORTED | () |
| AD26174-001 | 1 | SMP | 15:59 | 86 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94447 | Fe,Mn,Ag NOT REPORTED (Fe,Mn>LR) | () |
| CCV V-352960 | 1 | CCV | 16:05 | 87 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 16:10 | 88 | | | | | | | V-352951(ICB/CCB) |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/29/2021 4:20:19 PM

ok
Al Na K NOT REPORTED

10/4/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICPRAD5A\SW27669E5.txt

**Analysis Date:** 09/29/21 **Instrument:** PEICPRAD5A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CALBLK V-352951 | 1 | CAL | 15:00 | 1 | | | | | | | V-352951(ICB/CCB) |
| CALST2 V-352961 | 1 | CAL | 15:04 | 2 | | | | | | | V-352961(LLICV/LLCCV aq) |
| CALST3 V-352955 | 1 | CAL | 15:08 | 3 | | | | | | | V-352955(ICS3 - Middle Std) |
| CALST4 V-352956 | 1 | CAL | 15:12 | 4 | | | | | | | V-352956(ICS4 High std) |
| ICV V-352960 | 1 | ICV | 15:16 | 5 | | | | | | | V-352960(CCV) |
| ICB V-352951 | 1 | ICB | 15:21 | 6 | | | | | | | V-352951(ICB/CCB) |
| LRS V-352964 | 1 | LRS | 15:24 | 7 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | V-352964(LRS) |
| ICS3 V-352955 | 1 | ICS | 15:30 | 8 | | | | | | | V-352955(ICS3 - Middle Std) |
| RINSE | 1 | NA | 15:34 | 9 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| LLICV V-352961 | 1 | LLICV | 15:38 | 10 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | V-352961(LLICV/LLCCV aq) |
| ICSA V-352957 | 1 | ICSA | 15:42 | 11 | | | | | | | V-352957(ICSA) |
| CCV V-352960 | 1 | CCV | 15:47 | 12 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 15:52 | 13 | | | | | | | V-352951(ICB/CCB) |
| MB 94429 (1) | 1 | MB | 15:55 | 14 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| LCS 94429 | 1 | LCS | 15:59 | 15 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| LCS MR 94429 | 1 | LCS | 16:03 | 16 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-041 | 1 | SMP | 16:08 | 17 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | () |
| AD26083-041 | 1 | MR | 16:12 | 18 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | () |
| AD26083-043 | 1 | MS | 16:17 | 19 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | () |
| AD26083-045 | 1 | MSD | 16:23 | 20 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | () |
| AD26083-041 | 1 | PS | 16:28 | 21 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | () |
| AD26083-041 | 5 | SD | 16:34 | 22 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | () |
| AD26083-004 | 1 | SMP | 16:38 | 23 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| CCV V-352960 | 1 | CCV | 16:42 | 24 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 16:46 | 25 | | | | | | | V-352951(ICB/CCB) |
| AD26083-007 | 1 | SMP | 16:50 | 26 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-013 | 1 | SMP | 16:54 | 27 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-015 | 1 | SMP | 16:57 | 28 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-017 | 1 | SMP | 17:01 | 29 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-020 | 1 | SMP | 17:05 | 30 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-022 | 1 | SMP | 17:09 | 31 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| CCV V-352960 | 1 | CCV | 17:14 | 32 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 17:18 | 33 | | | | | | | V-352951(ICB/CCB) |
| AD26083-024 | 1 | SMP | 17:22 | 34 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-029 | 1 | SMP | 17:26 | 35 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-031 | 1 | SMP | 17:30 | 36 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| AD26083-037 | 1 | SMP | 17:34 | 37 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na>LR | () |
| AD26083-047 | 1 | SMP | 17:40 | 38 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | | () |
| CCV V-352960 | 1 | CCV | 17:44 | 39 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 17:48 | 40 | | | | | | | V-352951(ICB/CCB) |
| AD26083-048 | 10 | SMP | 17:52 | 41 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | () |
| AD26083-048 | 10 | MR | 17:56 | 42 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | () |
| AD26083-049 | 10 | MS | 18:00 | 43 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | () |
| AD26083-050 | 10 | MSD | 18:04 | 44 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | () |
| AD26083-048 | 10 | PS | 18:08 | 45 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | () |
| AD26083-048 | 10 | SD | 18:12 | 46 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | () |
| AD26083-032 | 10 | SMP | 18:16 | 47 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94427 | Na REPORTED | () |
| CCV V-352960 | 1 | CCV | 18:21 | 48 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 18:25 | 49 | | | | | | | V-352951(ICB/CCB) |
| AD26083-040 | 10 | SMP | 18:29 | 50 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | () |
| AD26083-040 | 10 | MR | 18:33 | 51 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | () |
| AD26083-042 | 10 | MS | 18:37 | 52 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | () |
| AD26083-044 | 10 | MSD | 18:41 | 53 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | () |
| AD26083-040 | 10 | PS | 18:45 | 54 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | () |
| AD26083-040 | 10 | SD | 18:49 | 55 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | () |
| AD26083-036 | 10 | SMP | 18:53 | 56 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94428 | Na REPORTED | () |
| CCV V-352960 | 1 | CCV | 18:58 | 57 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 19:02 | 58 | | | | | | | V-352951(ICB/CCB) |
| AD26083-041 | 10 | SMP | 19:06 | 59 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| AD26083-041 | 10 | MR | 19:10 | 60 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/30/2021 9:33:26 AM

OK
Na,Al,K REPORTED

10/4/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\PEICPRAD5A\SW27669E5.txt

**Analysis Date:** 09/29/21

**Instrument:** PEICPRAD5A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AD26083-043 | 10 | MS | 19:14 | 61 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| AD26083-045 | 10 | MSD | 19:18 | 62 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| AD26083-041 | 10 | PS | 19:22 | 63 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| AD26083-041 | 10 | SD | 19:26 | 64 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| AD26083-037 | 10 | SMP | 19:31 | 65 | MET-TAL6010W | AQUEO | AQUEO | SW846 | 94429 | Na REPORTED | () |
| CCV V-352960 | 1 | CCV | 19:35 | 66 | | | | | | | V-352960(CCV) |
| CCB V-352951 | 1 | CCB | 19:39 | 67 | | | | | | | V-352951(ICB/CCB) |

**Comments/Reviewedby:**

carmela
192.168.1.86 9/30/2021 9:33:26 AM

OK
Na,Al,K REPORTED

co 10/4/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\A092321BNEW.txt

**Analysis Date:** 09/23/21 **Instrument:** MS3_7700SWA

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RINSE | 1 | NA | 14:36 | 1 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| RINSE | 1 | NA | 14:41 | 2 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CalBlk V-357834 | 1 | ISBLK | 14:45 | 3 | | SOIL | SOIL | | | | V-357834(Cal Blk WARNING) |
| CalStd1 V-357835 | 1 | CAL | 14:50 | 4 | | | | | | | V-357835(Cal Std-1 WARNING) |
| CalStd2 V-357836 | 1 | CAL | 14:54 | 5 | | | | | | | V-357836(Cal Std-2 WARNING) |
| CalStd3 V-357837 | 1 | CAL | 14:59 | 6 | | | | | | | V-357837(Cal Std-3 WARNING) |
| CalStd4 V-357838 | 1 | CAL | 15:03 | 7 | | | | | | | V-357838(Cal Std-4 WARNING) |
| CalStd5 V-357839 | 1 | CAL | 15:07 | 8 | | | | | | | V-357839(Cal Std-5 WARNING) |
| ICV V-357840 | 1 | ICV | 15:12 | 9 | | | | | | | V-357840(ICV WARNING) |
| LLICV V-357848 | 1 | LLICV | 15:16 | 10 | | AQUEO | AQUEO | SW846 | 94429 | | V-357848(LL-ICV/CCV AQ. WARNING) |
| ICB V-357841 | 1 | ICB | 15:21 | 11 | | | | | | | V-357841(ICB/CCB WARNING) |
| ICSA V-357842 | 1 | ICSA | 15:25 | 12 | | | | | | | V-357842(ICSA WARNING) |
| RINSE | 1 | NA | 15:29 | 13 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LRS V-357843 | 1 | LRS | 15:34 | 14 | | AQUEO | AQUEO | SW846 | 94429 | | V-357843(LRS WARNING) |
| RINSE | 1 | NA | 15:38 | 15 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| RINSE | 1 | NA | 15:43 | 16 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| RINSE | 1 | NA | 15:47 | 17 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV V-357844 | 1 | CCV | 15:52 | 18 | | | | | | | V-357844(CCV WARNING) |
| CCB V-357841 | 1 | CCB | 15:56 | 19 | | | | | | | V-357841(ICB/CCB WARNING) |
| MB 94429 | 1 | MB | 16:00 | 20 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LCSW 94429 | 1 | LCS | 16:05 | 21 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LCS MR 94429 | 1 | LCS | 16:09 | 22 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-041 | 1 | SMP | 16:13 | 23 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-041 | 1 | MR | 16:18 | 24 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-041 | 5 | SD | 16:22 | 25 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-043 | 1 | MS | 16:26 | 26 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-045 | 1 | MSD | 16:31 | 27 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-041 | 1 | PS | 16:35 | 28 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| RINSE | 1 | NA | 16:39 | 29 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV V-357844 | 1 | CCV | 16:44 | 30 | | | | | | | V-357844(CCV WARNING) |
| CCB V-357841 | 1 | CCB | 16:48 | 31 | | | | | | | V-357841(ICB/CCB WARNING) |
| AD26083-004 | 1 | SMP | 16:52 | 32 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-007 | 1 | SMP | 16:57 | 33 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-013 | 1 | SMP | 17:01 | 34 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-015 | 1 | SMP | 17:06 | 35 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-017 | 1 | SMP | 17:10 | 36 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-020 | 1 | SMP | 17:15 | 37 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-022 | 1 | SMP | 17:19 | 38 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-024 | 1 | SMP | 17:24 | 39 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-029 | 1 | SMP | 17:28 | 40 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| RINSE | 1 | NA | 17:33 | 41 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV V-357844 | 1 | CCV | 17:37 | 42 | | | | | | | V-357844(CCV WARNING) |
| CCB V-357841 | 1 | CCB | 17:41 | 43 | | | | | | | V-357841(ICB/CCB WARNING) |
| AD26083-031 | 1 | SMP | 17:46 | 44 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-037 | 1 | SMP | 17:50 | 45 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-047 | 1 | SMP | 17:55 | 46 | MET-TAL6020W | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| RINSE | 1 | NA | 17:59 | 47 | | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV V-357844 | 1 | CCV | 18:04 | 48 | | | | | | | V-357844(CCV WARNING) |
| CCB V-357841 | 1 | CCB | 18:08 | 49 | | | | | | | V-357841(ICB/CCB WARNING) |

**Comments/Reviewedby:**

pcousineau
192.168.1.87 9/24/2021 10:58:40 AM

Run ok. Report As, Be, Cd, Co, Pb, Sb, Se, Tl PC.

10/7/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 1e 9/23/21

**Standard/Batch/SnCl2 Lot #:**

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\HGCV3A\H27671SW.txt

**Analysis Date:** 09/23/21 **Instrument:** HGCV3A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Calibration Blank | 1 | CAL | 17:16 | 1 | | | | | | | 0 |
| 2 PPB | 1 | CAL | 17:17 | 2 | | | | | | | 0 |
| 5 PPB | 1 | CAL | 17:18 | 3 | | | | | | | 0 |
| 1 PPB | 1 | CAL | 17:20 | 4 | | | | | | | 0 |
| 2 PPB | 1 | CAL | 17:21 | 5 | | | | | | | 0 |
| 5 PPB | 1 | CAL | 17:22 | 6 | | | | | | | 0 |
| 10 PPB | 1 | CAL | 17:24 | 7 | | | | | | | 0 |
| 25 PPB | 1 | CAL | 17:25 | 8 | | | | | | | 0 |
| ICV (2) | 1 | ICV | 17:27 | 9 | | | | | | | 0 |
| ICB | 1 | ICB | 17:29 | 10 | | | | | | | 0 |
| MB 94429 (1) | 1 | MB | 17:30 | 11 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LCS 94429 | 1 | LCS | 17:32 | 12 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| LCS 94429 MR | 1 | LCS | 17:33 | 13 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-041 | 1 | SMP | 17:35 | 14 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-041 | 1 | MR | 17:36 | 15 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-043 | 1 | MS | 17:38 | 16 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-045 | 1 | MSD | 17:39 | 17 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-004 | 1 | SMP | 17:40 | 18 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-007 | 1 | SMP | 17:42 | 19 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV | 1 | CCV | 17:43 | 20 | | | | | | | 0 |
| CCB | 1 | CCB | 17:45 | 21 | | | | | | | 0 |
| AD26083-013 | 1 | SMP | 17:46 | 22 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-015 | 1 | SMP | 17:47 | 23 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-017 | 1 | SMP | 17:49 | 24 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-020 | 1 | SMP | 17:50 | 25 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-022 | 1 | SMP | 17:51 | 26 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-024 | 1 | SMP | 17:53 | 27 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-029 | 1 | SMP | 17:54 | 28 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-031 | 1 | SMP | 17:55 | 29 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| AD26083-037 | 1 | SMP | 17:57 | 30 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV | 1 | CCV | 17:58 | 31 | | | | | | | 0 |
| CCB | 1 | CCB | 18:00 | 32 | | | | | | | 0 |
| AD26083-047 | 1 | SMP | 18:01 | 33 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94429 | | 0 |
| CCV | 1 | CCV | 18:02 | 34 | | | | | | | 0 |
| CCB | 1 | CCB | 18:04 | 35 | | | | | | | 0 |

**Comments/Reviewedby:**

asilva
192.168.1.115 9/24/2021 10:58:24 AM

Run is Ok

9/24/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

V-357868

# ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: A092321AN Sample ID: CalBlk V-357834 Sample Date 09/23/21 Sample Time: 10:59

| IS ID: | Area | Area Limit | | |
|---|---|---|---|---|
| Ho-1 | 4675932.54 | 3273152.778 | - | 6078712.302 |
| In-1 | 3231341.62 | 2261939.134 | - | 4200744.106 |
| Sc-1 | 1698297.77 | 1188808.439 | - | 2207787.101 |
| Tb-1 | 4783524.30 | 3348467.01 | - | 6218581.59 |

| QcType | txtSamId: | Pos | Ho-1 Area | In-1 Area | Sc-1 Area | Tb-1 Area | Area | Area | Area | Area |
|---|---|---|---|---|---|---|---|---|---|---|
| ISBLK | CalBlk V-357834 | 3 | 4675932. | 3231341. | 1698297. | 4783524. | | | | |
| SMP | RINSE | 1 | 4596816. | 3210461. | 1690067. | 4673619. | | | | |
| SMP | RINSE | 2 | 4644750. | 3252363. | 1711344. | 4709370. | | | | |
| CAL | CalStd1 V-35783 | 4 | 4710459. | 3267532. | 1706611. | 4834512. | | | | |
| CAL | CalStd2 V-35783 | 5 | 4750552. | 3261325. | 1690583. | 4820488. | | | | |
| CAL | CalStd3 V-35783 | 6 | 4783686. | 3292848. | 1725867. | 4879840. | | | | |
| CAL | CalStd4 V-35783 | 7 | 4787408. | 3265509. | 1713788. | 4901128. | | | | |
| CAL | CalStd5 V-35783 | 8 | 4727586. | 3211677. | 1699344. | 4806266. | | | | |
| ICV | ICV V-357840 | 9 | 4748170. | 3245389. | 1732748. | 4845213. | | | | |
| LLICV | LLICV V-357848 | 10 | 4703377. | 3276007. | 1732299. | 4761720. | | | | |
| ICB | ICB V-357841 | 11 | 4719528. | 3277991. | 1733973. | 4806952. | | | | |
| ICSA | ICSA V-357842 | 12 | 4500923. | 2900186. | 1582252. | 4585066. | | | | |
| SMP | RINSE | 13 | 4686766. | 3261029. | 1683092. | 4751253. | | | | |
| LRS | LRS V-357843 | 14 | 4681623. | 3088811. | 1677351. | 4770906. | | | | |
| SMP | RINSE | 15 | 4625223. | 3209810. | 1675581. | 4724545. | | | | |
| SMP | RINSE | 16 | 4604291. | 3203733. | 1685329. | 4687604. | | | | |
| SMP | RINSE | 17 | 4635545. | 3228096. | 1706906. | 4743967. | | | | |
| CCV | CCV V-357844 | 18 | 4728720. | 3271706. | 1741090. | 4801873. | | | | |
| CCB | CCB V-357841 | 19 | 4726741. | 3255788. | 1707090. | 4782263. | | | | |
| MB | MB 94427 | 20 | 4701124. | 3258882. | 1714818. | 4800920. | | | | |
| LCS | LCSW 94427 | 21 | 4699722. | 3140604. | 1579980. | 4742447. | | | | |
| MR | LCS MR 94427 | 22 | 4654933. | 3142629. | 1582169. | 4750419. | | | | |
| SMP | AD26083-048 | 23 | 4203002. | 2750161. | 1595661. | 4264327. | | | | |
| MR | AD26083-048 | 24 | 4261277. | 2798170. | 1660981. | 4312846. | | | | |
| SD | AD26083-048 | 25 | 4708883. | 3217622. | 1847273. | 4774385. | | | | |
| MS | AD26083-049 | 26 | 4272912. | 2811793. | 1871710. | 4336031. | | | | |
| MSD | AD26083-050 | 27 | 4297001. | 2801717. | 1982257. | 4321575. | | | | |
| PS | AD26083-048 | 28 | 4229983. | 2714914. | 1592519. | 4239739. | | | | |
| SMP | RINSE | 29 | 4820059. | 3396819. | 1822392. | 4942890. | | | | |
| CCV | CCV V-357844 | 30 | 4817143. | 3299127. | 1768167. | 4941657. | | | | |
| CCB | CCB V-357841 | 31 | 4762628. | 3247063. | 1720163. | 4820523. | | | | |
| SMP | AD26083-001 | 32 | 4768905. | 3174821. | 1625618. | 4849635. | | | | |
| SMP | AD26083-002 | 33 | 4538234. | 2923609. | 1644878. | 4618451. | | | | |
| SMP | AD26083-005 | 34 | 4862918. | 3249429. | 1646918. | 4933807. | | | | |
| SMP | AD26083-008 | 35 | 4831632. | 3123537. | 1690253. | 4897820. | | | | |
| SMP | AD26083-009 | 36 | 4870487. | 3160008. | 1700144. | 4922446. | | | | |
| SMP | AD26083-011 | 37 | 4817441. | 3195850. | 1659379. | 4913713. | | | | |
| SMP | AD26083-018 | 38 | 4814301. | 3148984. | 1639214. | 4883920. | | | | |
| SMP | AD26083-026 | 39 | 4877938. | 3203150. | 1652432. | 4881928. | | | | |
| SMP | AD26083-027 | 40 | 4658484. | 2998981. | 1618378. | 4716345. | | | | |
| SMP | RINSE | 41 | 4845947. | 3369200. | 1799914. | 4934607. | | | | |
| CCV | CCV V-357844 | 42 | 4853790. | 3282983. | 1741837. | 4931307. | | | | |
| CCB | CCB V-357841 | 43 | 4795079. | 3267300. | 1723464. | 4864878. | | | | |
| SMP | AD26083-032 | 44 | 4010926. | 2690945. | 1711264. | 4056174. | | | | |
| SMP | AD26083-033 | 45 | 4854781. | 3243722. | 1696682. | 4922005. | | | | |
| SMP | AD26083-035 | 46 | 4716667. | 3111651. | 1679768. | 4770803. | | | | |
| SMP | RINSE | 47 | 4930706. | 3531477. | 1950345. | 5073138. | | | | |
| CCV | CCV V-357844 | 48 | 4923842. | 3348999. | 1801444. | 4983152. | | | | |

* Indicates Internal Standard Area outside of limits

# ICPMS Internal Standard Summary Report

TuneID: 1

| | | | | | | |
|---|---|---|---|---|---|---|
| CCB | CCB V-357841 | 49 | 4774567. | 3309159. | 1776591. | 4899021. |

* Indicates Internal Standard Area outside of limits

# ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: A092321AN Sample ID: CalBlk V-357834 Sample Date 09/23/21 Sample Time: 10:59

| IS ID: | Area | Area Limit | | |
|---|---|---|---|---|
| Ho-2 | 2700827.11 | 1890578.977 | - | 3511075.243 |
| In-2 | 739504.33 | 517653.031 | - | 961355.629 |
| Sc-2 | 78844.75 | 55191.325 | - | 102498.175 |
| Tb-2 | 2661694.37 | 1863186.059 | - | 3460202.681 |

| QcType | txtSamId: | Pos | Ho-2 Area | In-2 Area | Sc-2 Area | Tb-2 Area | Area | Area | Area | Area |
|---|---|---|---|---|---|---|---|---|---|---|
| ISBLK | CalBlk V-357834 | 3 | 2700827. | 739504.3 | 78844.75 | 2661694. | | | | |
| SMP | RINSE | 1 | 2686496. | 751417.4 | 81375.36 | 2644619. | | | | |
| SMP | RINSE | 2 | 2683344. | 760041.0 | 80896.58 | 2675966. | | | | |
| CAL | CalStd1 V-35783 | 4 | 2707126. | 741127.7 | 78215.70 | 2677355. | | | | |
| CAL | CalStd2 V-35783 | 5 | 2706662. | 751595.8 | 79249.31 | 2685655. | | | | |
| CAL | CalStd3 V-35783 | 6 | 2735703. | 756139.4 | 79933.98 | 2722197. | | | | |
| CAL | CalStd4 V-35783 | 7 | 2717575. | 749559.2 | 80042.10 | 2691361. | | | | |
| CAL | CalStd5 V-35783 | 8 | 2726030. | 736957.0 | 79828.77 | 2700529. | | | | |
| ICV | ICV V-357840 | 9 | 2681357. | 746201.5 | 80194.93 | 2685514. | | | | |
| LLICV | LLICV V-357848 | 10 | 2743453. | 765238.5 | 81974.38 | 2698127. | | | | |
| ICB | ICB V-357841 | 11 | 2703890. | 751673.2 | 81184.15 | 2699580. | | | | |
| ICSA | ICSA V-357842 | 12 | 2547977. | 652111.1 | 73297.28 | 2518094. | | | | |
| SMP | RINSE | 13 | 2698812. | 746913.6 | 78399.27 | 2687971. | | | | |
| LRS | LRS V-357843 | 14 | 2634912. | 695189.5 | 76389.15 | 2599327. | | | | |
| SMP | RINSE | 15 | 2679515. | 740476.6 | 77537.92 | 2654290. | | | | |
| SMP | RINSE | 16 | 2683073. | 752892.2 | 78627.24 | 2647037. | | | | |
| SMP | RINSE | 17 | 2694927. | 755254.4 | 79786.92 | 2683974. | | | | |
| CCV | CCV V-357844 | 18 | 2699468. | 747723.8 | 79701.76 | 2676931. | | | | |
| CCB | CCB V-357841 | 19 | 2702040. | 740782.8 | 78621.19 | 2677029. | | | | |
| MB | MB 94427 | 20 | 2717577. | 743294.7 | 78686.20 | 2684070. | | | | |
| LCS | LCSW 94427 | 21 | 2602806. | 695219.8 | 71553.88 | 2573561. | | | | |
| MR | LCS MR 94427 | 22 | 2600247. | 685841.5 | 70157.36 | 2555667. | | | | |
| SMP | AD26083-048 | 23 | 2327754. | 614814.4 | 73581.70 | 2296312. | | | | |
| MR | AD26083-048 | 24 | 2335629. | 625408.7 | 75019.31 | 2317058. | | | | |
| SD | AD26083-048 | 25 | 2718411. | 743396.5 | 86615.60 | 2686382. | | | | |
| MS | AD26083-049 | 26 | 2336968. | 627378.3 | 82548.94 | 2302754. | | | | |
| MSD | AD26083-050 | 27 | 2357552. | 634233.4 | 86455.17 | 2330246. | | | | |
| PS | AD26083-048 | 28 | 2303281. | 608793.5 | 72341.19 | 2279423. | | | | |
| SMP | RINSE | 29 | 2837272. | 793339.1 | 86624.72 | 2777250. | | | | |
| CCV | CCV V-357844 | 30 | 2768495. | 754940.5 | 79476.07 | 2735294. | | | | |
| CCB | CCB V-357841 | 31 | 2742035. | 749648.7 | 79246.63 | 2720633. | | | | |
| SMP | AD26083-001 | 32 | 2698494. | 703028.3 | 72687.86 | 2629077. | | | | |
| SMP | AD26083-002 | 33 | 2533079. | 640877.4 | 72167.29 | 2505145. | | | | |
| SMP | AD26083-005 | 34 | 2712356. | 710701.4 | 73569.10 | 2675301. | | | | |
| SMP | AD26083-008 | 35 | 2680357. | 679942.4 | 73652.59 | 2628477. | | | | |
| SMP | AD26083-009 | 36 | 2666180. | 682597.9 | 73844.85 | 2646511. | | | | |
| SMP | AD26083-011 | 37 | 2680309. | 687289.3 | 71480.14 | 2655504. | | | | |
| SMP | AD26083-018 | 38 | 2622405. | 671617.3 | 71571.69 | 2587832. | | | | |
| SMP | AD26083-026 | 39 | 2671568. | 687542.4 | 71515.86 | 2638646. | | | | |
| SMP | AD26083-027 | 40 | 2564389. | 654799.0 | 70038.14 | 2546616. | | | | |
| SMP | RINSE | 41 | 2765913. | 771110.6 | 82858.45 | 2745974. | | | | |
| CCV | CCV V-357844 | 42 | 2742830. | 734386.0 | 78534.44 | 2694328. | | | | |
| CCB | CCB V-357841 | 43 | 2734838. | 737360.8 | 77588.23 | 2716096. | | | | |
| SMP | AD26083-032 | 44 | 2170684. | 618012.4 | 83244.30 | 2158379. | | | | |
| SMP | AD26083-033 | 45 | 2719738. | 705559.6 | 74171.18 | 2672325. | | | | |
| SMP | AD26083-035 | 46 | 2639190. | 681212.6 | 73861.37 | 2586933. | | | | |
| SMP | RINSE | 47 | 2869151. | 813562.5 | 90039.59 | 2827260. | | | | |
| CCV | CCV V-357844 | 48 | 2749023. | 748164.7 | 81627.52 | 2742779. | | | | |

* Indicates Internal Standard Area outside of limits

# ICPMS Internal Standard Summary Report

TuneID: 2

| | | | | | | |
|---|---|---|---|---|---|---|
| CCB | CCB V-357841 | 49 | 2723226. | 748538.4 | 79249.87 | 2694887. |

* Indicates Internal Standard Area outside of limits

# ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: A092421BN Sample ID: CalBlk V-357834 Sample Date 09/24/21 Sample Time: 16:55

| IS ID: | Area | Area Limit | | |
|---|---|---|---|---|
| Ho-1 | 4577808.96 | 3204466.272 | - | 5951151.648 |
| In-1 | 4174236.01 | 2921965.207 | - | 5426506.813 |
| Sc-1 | 3015283.01 | 2110698.107 | - | 3919867.913 |
| Tb-1 | 4869289.96 | 3408502.972 | - | 6330076.948 |

| QcType | txtSamId: | Pos | Ho-1 Area | In-1 Area | Sc-1 Area | Tb-1 Area | Area | Area | Area | Area |
|---|---|---|---|---|---|---|---|---|---|---|
| ISBLK | CalBlk V-357834 | 3 | 4577808. | 4174236. | 3015283. | 4869289. | | | | |
| SMP | RINSE | 1 | 4511802. | 4132061. | 2965951. | 4779984. | | | | |
| SMP | RINSE | 2 | 4515146. | 4096111. | 2947446. | 4763018. | | | | |
| CAL | CalStd1 V-35783 | 4 | 4652154. | 4241587. | 3072795. | 4937860. | | | | |
| CAL | CalStd2 V-35783 | 5 | 4784873. | 4250679. | 3085203. | 5035344. | | | | |
| CAL | CalStd3 V-35783 | 6 | 4714786. | 4229048. | 3083627. | 4932206. | | | | |
| CAL | CalStd4 V-35783 | 7 | 4725311. | 4235185. | 3069860. | 4972871. | | | | |
| CAL | CalStd5 V-35783 | 8 | 4726296. | 4220324. | 3083634. | 5008141. | | | | |
| ICV | ICV V-357840 | 9 | 4764430. | 4232047. | 3024242. | 4978225. | | | | |
| LLICV | LLICV V-357848 | 10 | 4504440. | 4062785. | 2850836. | 4744260. | | | | |
| ICB | ICB V-357841 | 11 | 4625826. | 4163552. | 2958995. | 4850109. | | | | |
| ICSA | ICSA V-357842 | 12 | 4511932. | 3927921. | 2983482. | 4726831. | | | | |
| SMP | RINSE | 13 | 4561047. | 4180745. | 2961975. | 4859475. | | | | |
| LRS | LRS V-357843 | 14 | 4614624. | 4091702. | 3077792. | 4868840. | | | | |
| SMP | RINSE | 15 | 4573444. | 4165783. | 2937519. | 4843472. | | | | |
| SMP | RINSE | 16 | 4563621. | 4116915. | 2922865. | 4804420. | | | | |
| SMP | RINSE | 17 | 4504714. | 4172726. | 2905261. | 4784110. | | | | |
| CCV | CCV V-357844 | 18 | 4714079. | 4221889. | 3065342. | 4975693. | | | | |
| CCB | CCB V-357841 | 19 | 4621230. | 4208769. | 2972202. | 4862435. | | | | |
| MB | MB 94428 | 20 | 4661658. | 4200166. | 3013530. | 4921478. | | | | |
| LCS | LCSW 94428 | 21 | 4769789. | 4347688. | 3021102. | 5028805. | | | | |
| MR | LCS MR 94428 | 22 | 4790205. | 4315115. | 3044425. | 5077944. | | | | |
| SMP | AD26083-040 | 23 | 4354352. | 3728760. | 3004055. | 4586977. | | | | |
| MR | AD26083-040 | 24 | 4371098. | 3750762. | 3035646. | 4562645. | | | | |
| SD | AD26083-040 | 25 | 4671710. | 4116305. | 3106858. | 4903677. | | | | |
| MS | AD26083-042 | 26 | 4378417. | 3902116. | 3054603. | 4546304. | | | | |
| MSD | AD26083-044 | 27 | 4357688. | 3895353. | 3081128. | 4646477. | | | | |
| PS | AD26083-040 | 28 | 4439859. | 3866423. | 3084097. | 4683320. | | | | |
| SMP | RINSE | 29 | 4674215. | 4293197. | 3125426. | 4986092. | | | | |
| CCV | CCV V-357844 | 30 | 4796015. | 4385875. | 3232199. | 5071849. | | | | |
| CCB | CCB V-357841 | 31 | 4618485. | 4301787. | 3109585. | 4921143. | | | | |
| SMP | AD26083-003 | 32 | 4993568. | 4386103. | 3160390. | 5298173. | | | | |
| SMP | AD26083-006 | 33 | 5046679. | 4422903. | 3222698. | 5313188. | | | | |
| SMP | AD26083-012 | 34 | 5168712. | 4501933. | 3146375. | 5444834. | | | | |
| SMP | AD26083-014 | 35 | 5037961. | 4419159. | 3162588. | 5287916. | | | | |
| SMP | AD26083-016 | 36 | 5147889. | 4478723. | 3170975. | 5406815. | | | | |
| SMP | AD26083-019 | 37 | 4795949. | 4120873. | 3051904. | 5025531. | | | | |
| SMP | AD26083-021 | 38 | 5160181. | 4493853. | 3198323. | 5435933. | | | | |
| SMP | AD26083-023 | 39 | 5231382. | 4487673. | 3201377. | 5450270. | | | | |
| SMP | AD26083-028 | 40 | 5080217. | 4227710. | 3287899. | 5313392. | | | | |
| SMP | RINSE | 41 | 4853753. | 4380602. | 3027025. | 5080699. | | | | |
| CCV | CCV V-357844 | 42 | 4971041. | 4372744. | 3118657. | 5247006. | | | | |
| CCB | CCB V-357841 | 43 | 4768817. | 4320311. | 3014938. | 4981045. | | | | |
| SMP | AD26083-030 | 44 | 5016565. | 4363916. | 3103663. | 5273548. | | | | |
| SMP | AD26083-036 | 45 | 3903113. | 3397324. | 2879406. | 4136339. | | | | |
| SMP | AD26083-038 | 46 | 5117640. | 4499884. | 3129797. | 5369667. | | | | |
| SMP | AD26083-046 | 47 | 5165300. | 4413069. | 3124333. | 5428514. | | | | |
| SMP | AD26083-039 | 48 | 5204670. | 4476420. | 3120545. | 5526663. | | | | |

* Indicates Internal Standard Area outside of limits

# ICPMS Internal Standard Summary Report

TuneID: 1

| | | | | | | |
|---|---|---|---|---|---|---|
| SMP | RINSE | 49 | 4863102. | 4319074. | 2978153. | 5100249. |
| CCV | CCV V-357844 | 50 | 5017087. | 4375827. | 3073872. | 5271115. |
| CCB | CCB V-357841 | 51 | 4765239. | 4218841. | 2930755. | 5020759. |

* Indicates Internal Standard Area outside of limits

# ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: A092421BN Sample ID: CalBlk V-357834 Sample Date 09/24/21 Sample Time: 16:55

| IS ID: | Area | Area Limit | | |
|---|---|---|---|---|
| Ho-2 | 3119565.06 | 2183695.542 | - | 4055434.578 |
| In-2 | 1258594.30 | 881016.01 | - | 1636172.59 |
| Sc-2 | 183262.98 | 128284.086 | - | 238241.874 |
| Tb-2 | 3206651.55 | 2244656.085 | - | 4168647.015 |

| QcType | txtSamId: | Pos | Ho-2 Area | In-2 Area | Sc-2 Area | Tb-2 Area | Area | Area | Area | Area |
|---|---|---|---|---|---|---|---|---|---|---|
| ISBLK | CalBlk V-357834 | 3 | 3119565. | 1258594. | 183262.9 | 3206651. | | | | |
| SMP | RINSE | 1 | 3123698. | 1276604. | 186398.1 | 3210484. | | | | |
| SMP | RINSE | 2 | 3105768. | 1265134. | 184486.1 | 3207232. | | | | |
| CAL | CalStd1 V-35783 | 4 | 3135517. | 1250707. | 181124.0 | 3221350. | | | | |
| CAL | CalStd2 V-35783 | 5 | 3117839. | 1263485. | 182671.6 | 3259361. | | | | |
| CAL | CalStd3 V-35783 | 6 | 3151264. | 1254062. | 183251.3 | 3244499. | | | | |
| CAL | CalStd4 V-35783 | 7 | 3170051. | 1248537. | 182162.8 | 3266921. | | | | |
| CAL | CalStd5 V-35783 | 8 | 3142776. | 1230007. | 179624.0 | 3241356. | | | | |
| ICV | ICV V-357840 | 9 | 3166579. | 1240952. | 180009.4 | 3260192. | | | | |
| LLICV | LLICV V-357848 | 10 | 3174053. | 1265038. | 181049.8 | 3252110. | | | | |
| ICB | ICB V-357841 | 11 | 3087603. | 1243978. | 178302.9 | 3187336. | | | | |
| ICSA | ICSA V-357842 | 12 | 2969793. | 1159930. | 178475.3 | 3068172. | | | | |
| SMP | RINSE | 13 | 3111574. | 1257882. | 177690.9 | 3237594. | | | | |
| LRS | LRS V-357843 | 14 | 3111621. | 1196099. | 180514.4 | 3180299. | | | | |
| SMP | RINSE | 15 | 3128870. | 1260966. | 178433.4 | 3230585. | | | | |
| SMP | RINSE | 16 | 3108437. | 1260899. | 178557.6 | 3205078. | | | | |
| SMP | RINSE | 17 | 3089021. | 1267196. | 179924.8 | 3212633. | | | | |
| CCV | CCV V-357844 | 18 | 3142405. | 1249805. | 180315.7 | 3257775. | | | | |
| CCB | CCB V-357841 | 19 | 3091487. | 1256723. | 180277.7 | 3211610. | | | | |
| MB | MB 94428 | 20 | 3086526. | 1245671. | 179370.6 | 3167720. | | | | |
| LCS | LCSW 94428 | 21 | 3099372. | 1210135. | 170762.5 | 3169293. | | | | |
| MR | LCS MR 94428 | 22 | 3097372. | 1221295. | 171109.2 | 3198237. | | | | |
| SMP | AD26083-040 | 23 | 2830164. | 1095757. | 175903.9 | 2915521. | | | | |
| MR | AD26083-040 | 24 | 2848036. | 1099618. | 177992.6 | 2948807. | | | | |
| SD | AD26083-040 | 25 | 3124019. | 1233638. | 188197.3 | 3216906. | | | | |
| MS | AD26083-042 | 26 | 2835256. | 1136848. | 180139.2 | 2911382. | | | | |
| MSD | AD26083-044 | 27 | 2885298. | 1144526. | 180124.3 | 2957794. | | | | |
| PS | AD26083-040 | 28 | 2930102. | 1121975. | 179401.5 | 2995117. | | | | |
| SMP | RINSE | 29 | 3178402. | 1327536. | 194069.5 | 3294664. | | | | |
| CCV | CCV V-357844 | 30 | 3228245. | 1295375. | 188691.2 | 3335513. | | | | |
| CCB | CCB V-357841 | 31 | 3176528. | 1317792. | 191061.0 | 3231281. | | | | |
| SMP | AD26083-003 | 32 | 3266814. | 1228511. | 175777.9 | 3337802. | | | | |
| SMP | AD26083-006 | 33 | 3276146. | 1223434. | 174543.8 | 3366168. | | | | |
| SMP | AD26083-012 | 34 | 3299485. | 1234538. | 172456.5 | 3393743. | | | | |
| SMP | AD26083-014 | 35 | 3240367. | 1221927. | 175218.6 | 3342305. | | | | |
| SMP | AD26083-016 | 36 | 3269704. | 1227026. | 171121.9 | 3343020. | | | | |
| SMP | AD26083-019 | 37 | 3068419. | 1150742. | 168779.1 | 3164082. | | | | |
| SMP | AD26083-021 | 38 | 3274707. | 1224966. | 172578.9 | 3369183. | | | | |
| SMP | AD26083-023 | 39 | 3289198. | 1211409. | 173115.5 | 3378502. | | | | |
| SMP | AD26083-028 | 40 | 3193360. | 1146789. | 177214.0 | 3257387. | | | | |
| SMP | RINSE | 41 | 3211808. | 1265477. | 180714.7 | 3303325. | | | | |
| CCV | CCV V-357844 | 42 | 3243438. | 1261299. | 177978.8 | 3363467. | | | | |
| CCB | CCB V-357841 | 43 | 3177381. | 1258537. | 179271.6 | 3240046. | | | | |
| SMP | AD26083-030 | 44 | 3183363. | 1195152. | 169004.1 | 3262279. | | | | |
| SMP | AD26083-036 | 45 | 2466494. | 979764.5 | 172630.1 | 2557753. | | | | |
| SMP | AD26083-038 | 46 | 3251323. | 1213975. | 168635.5 | 3348203. | | | | |
| SMP | AD26083-046 | 47 | 3273610. | 1208307. | 169179.4 | 3347007. | | | | |
| SMP | AD26083-039 | 48 | 3288587. | 1216272. | 167482.4 | 3361665. | | | | |

* Indicates Internal Standard Area outside of limits

# ICPMS Internal Standard Summary Report

TuneID: 2

| | | | | | | |
|---|---|---|---|---|---|---|
| SMP | RINSE | 49 | 3233832. | 1251205. | 175104.4 | 3335043. |
| CCV | CCV V-357844 | 50 | 3262768. | 1246868. | 174120.6 | 3364481. |
| CCB | CCB V-357841 | 51 | 3209084. | 1250042. | 174251.8 | 3339032. |

* Indicates Internal Standard Area outside of limits

# ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: A092321BN Sample ID: CalBlk V-357834 Sample Date 09/23/21 Sample Time: 14:45

| IS ID: | Area | Area Limit | | |
|---|---|---|---|---|
| Ho-1 | 4859401.21 | 3401580.847 | - | 6317221.573 |
| In-1 | 3370573.49 | 2359401.443 | - | 4381745.537 |
| Sc-1 | 1806322.60 | 1264425.82 | - | 2348219.38 |
| Tb-1 | 4942864.34 | 3460005.038 | - | 6425723.642 |

| QcType | txtSamId: | Pos | Ho-1 Area | In-1 Area | Sc-1 Area | Tb-1 Area | Area | Area | Area | Area |
|---|---|---|---|---|---|---|---|---|---|---|
| ISBLK | CalBlk V-357834 | 3 | 4859401. | 3370573. | 1806322. | 4942864. | | | | |
| SMP | RINSE | 1 | 4867955. | 3518803. | 1954215. | 5019423. | | | | |
| SMP | RINSE | 2 | 4926805. | 3518563. | 1976483. | 5017314. | | | | |
| CAL | CalStd1 V-35783 | 4 | 4900112. | 3419780. | 1833088. | 4953847. | | | | |
| CAL | CalStd2 V-35783 | 5 | 4940796. | 3428896. | 1865949. | 5040431. | | | | |
| CAL | CalStd3 V-35783 | 6 | 4939546. | 3449935. | 1874391. | 5050476. | | | | |
| CAL | CalStd4 V-35783 | 7 | 4924527. | 3447784. | 1858538. | 5051895. | | | | |
| CAL | CalStd5 V-35783 | 8 | 4844288. | 3322115. | 1810679. | 4956066. | | | | |
| ICV | ICV V-357840 | 9 | 4870335. | 3362100. | 1794137. | 4940420. | | | | |
| LLICV | LLICV V-357848 | 10 | 4835441. | 3379270. | 1817228. | 4913129. | | | | |
| ICB | ICB V-357841 | 11 | 4783852. | 3287005. | 1751046. | 4837479. | | | | |
| ICSA | ICSA V-357842 | 12 | 4540582. | 2916120. | 1611481. | 4571131. | | | | |
| SMP | RINSE | 13 | 4635462. | 3205841. | 1686683. | 4710046. | | | | |
| LRS | LRS V-357843 | 14 | 4613823. | 3078050. | 1694598. | 4685386. | | | | |
| SMP | RINSE | 15 | 4567225. | 3195731. | 1695630. | 4678128. | | | | |
| SMP | RINSE | 16 | 4631316. | 3227777. | 1710780. | 4688193. | | | | |
| SMP | RINSE | 17 | 4610625. | 3262933. | 1726390. | 4660676. | | | | |
| CCV | CCV V-357844 | 18 | 4709597. | 3188370. | 1698207. | 4772251. | | | | |
| CCB | CCB V-357841 | 19 | 4636487. | 3183265. | 1660297. | 4713474. | | | | |
| MB | MB 94429 | 20 | 4684888. | 3197242. | 1652023. | 4749671. | | | | |
| LCS | LCSW 94429 | 21 | 4713187. | 3216498. | 1624309. | 4777147. | | | | |
| MR | LCS MR 94429 | 22 | 4768587. | 3260007. | 1677750. | 4834945. | | | | |
| SMP | AD26083-041 | 23 | 4540855. | 2974161. | 1751227. | 4599155. | | | | |
| MR | AD26083-041 | 24 | 4563265. | 2968198. | 1756035. | 4596796. | | | | |
| SD | AD26083-041 | 25 | 4860962. | 3314100. | 1892717. | 4938208. | | | | |
| MS | AD26083-043 | 26 | 4577951. | 3069833. | 1734293. | 4636033. | | | | |
| MSD | AD26083-045 | 27 | 4554686. | 3070034. | 1727655. | 4610836. | | | | |
| PS | AD26083-041 | 28 | 4505578. | 2914958. | 1729327. | 4576596. | | | | |
| SMP | RINSE | 29 | 4864555. | 3458916. | 1937416. | 4996978. | | | | |
| CCV | CCV V-357844 | 30 | 4873556. | 3329477. | 1841389. | 4930085. | | | | |
| CCB | CCB V-357841 | 31 | 4763966. | 3335369. | 1807232. | 4834906. | | | | |
| SMP | AD26083-004 | 32 | 4808597. | 3187011. | 1717988. | 4836681. | | | | |
| SMP | AD26083-007 | 33 | 4844033. | 3195764. | 1724243. | 4919745. | | | | |
| SMP | AD26083-013 | 34 | 4836717. | 3213205. | 1669301. | 4884918. | | | | |
| SMP | AD26083-015 | 35 | 4755442. | 3155983. | 1635201. | 4820311. | | | | |
| SMP | AD26083-017 | 36 | 4847848. | 3221524. | 1678449. | 4876380. | | | | |
| SMP | AD26083-020 | 37 | 4620106. | 3056485. | 1657461. | 4670074. | | | | |
| SMP | AD26083-022 | 38 | 4836341. | 3192569. | 1674483. | 4895563. | | | | |
| SMP | AD26083-024 | 39 | 4842789. | 3211472. | 1673973. | 4860199. | | | | |
| SMP | AD26083-029 | 40 | 4800790. | 3097286. | 1696398. | 4824928. | | | | |
| SMP | RINSE | 41 | 4765140. | 3391443. | 1866515. | 4866745. | | | | |
| CCV | CCV V-357844 | 42 | 4789213. | 3280768. | 1754558. | 4847660. | | | | |
| CCB | CCB V-357841 | 43 | 4717620. | 3244973. | 1730029. | 4800576. | | | | |
| SMP | AD26083-031 | 44 | 4711930. | 3168409. | 1660929. | 4814610. | | | | |
| SMP | AD26083-037 | 45 | 4278482. | 2777541. | 1649694. | 4318636. | | | | |
| SMP | AD26083-047 | 46 | 4805619. | 3186277. | 1670792. | 4834328. | | | | |
| SMP | RINSE | 47 | 4758927. | 3357143. | 1799158. | 4822635. | | | | |
| CCV | CCV V-357844 | 48 | 4790829. | 3247605. | 1729444. | 4826892. | | | | |

* Indicates Internal Standard Area outside of limits

# ICPMS Internal Standard Summary Report

TuneID: 1

| | | | | | | |
|---|---|---|---|---|---|---|
| CCB | CCB V-357841 | 49 | 4730120. | 3244062. | 1732435. | 4814107. |

* Indicates Internal Standard Area outside of limits

# ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: A092321BNSample ID: CalBlk V-357834 Sample Date 09/23/21 Sample Time: 14:45

| IS ID: | Area | Area Limit | | |
|---|---|---|---|---|
| Ho-2 | 2780403.78 | 1946282.646 | - | 3614524.914 |
| In-2 | 766062.87 | 536244.009 | - | 995881.731 |
| Sc-2 | 83365.47 | 58355.829 | - | 108375.111 |
| Tb-2 | 2747591.24 | 1923313.868 | - | 3571868.612 |

| QcType | txtSamId: | Pos | Ho-2 Area | In-2 Area | Sc-2 Area | Tb-2 Area | Area | Area | Area | Area |
|---|---|---|---|---|---|---|---|---|---|---|
| ISBLK | CalBlk V-357834 | 3 | 2780403. | 766062.8 | 83365.47 | 2747591. | | | | |
| SMP | RINSE | 1 | 2864356. | 818539.5 | 91712.01 | 2820520. | | | | |
| SMP | RINSE | 2 | 2856599. | 819917.8 | 92038.38 | 2827505. | | | | |
| CAL | CalStd1 V-35783 | 4 | 2791665. | 772049.7 | 83357.28 | 2746039. | | | | |
| CAL | CalStd2 V-35783 | 5 | 2836578. | 784535.5 | 85689.81 | 2792465. | | | | |
| CAL | CalStd3 V-35783 | 6 | 2838182. | 782523.1 | 84894.00 | 2787162. | | | | |
| CAL | CalStd4 V-35783 | 7 | 2783141. | 769878.3 | 84034.08 | 2746753. | | | | |
| CAL | CalStd5 V-35783 | 8 | 2759826. | 743762.7 | 82124.21 | 2716574. | | | | |
| ICV | ICV V-357840 | 9 | 2749861. | 744018.1 | 82257.06 | 2715445. | | | | |
| LLICV | LLICV V-357848 | 10 | 2772519. | 772113.7 | 82773.42 | 2744831. | | | | |
| ICB | ICB V-357841 | 11 | 2697056. | 726173.3 | 78489.78 | 2671283. | | | | |
| ICSA | ICSA V-357842 | 12 | 2520490. | 639369.3 | 72516.26 | 2495070. | | | | |
| SMP | RINSE | 13 | 2670533. | 730894.4 | 77438.98 | 2648080. | | | | |
| LRS | LRS V-357843 | 14 | 2624404. | 680520.9 | 76319.84 | 2590048. | | | | |
| SMP | RINSE | 15 | 2676403. | 740172.5 | 78627.88 | 2638887. | | | | |
| SMP | RINSE | 16 | 2690977. | 739936.4 | 79519.63 | 2653367. | | | | |
| SMP | RINSE | 17 | 2706748. | 748419.2 | 80512.85 | 2681047. | | | | |
| CCV | CCV V-357844 | 18 | 2697845. | 722379.1 | 77082.10 | 2648608. | | | | |
| CCB | CCB V-357841 | 19 | 2655428. | 714439.1 | 75027.98 | 2632509. | | | | |
| MB | MB 94429 | 20 | 2693981. | 709926.4 | 75352.67 | 2650619. | | | | |
| LCS | LCSW 94429 | 21 | 2641567. | 699837.9 | 73218.12 | 2582721. | | | | |
| MR | LCS MR 94429 | 22 | 2656210. | 707020.9 | 75170.01 | 2626400. | | | | |
| SMP | AD26083-041 | 23 | 2522922. | 646925.5 | 76770.23 | 2477542. | | | | |
| MR | AD26083-041 | 24 | 2530583. | 651553.1 | 77416.76 | 2492167. | | | | |
| SD | AD26083-041 | 25 | 2785607. | 751601.9 | 87015.74 | 2715732. | | | | |
| MS | AD26083-043 | 26 | 2524021. | 674828.1 | 77597.35 | 2502309. | | | | |
| MSD | AD26083-045 | 27 | 2516570. | 669302.9 | 76284.52 | 2472909. | | | | |
| PS | AD26083-041 | 28 | 2474717. | 635919.5 | 75550.12 | 2427746. | | | | |
| SMP | RINSE | 29 | 2838880. | 805177.3 | 90107.78 | 2807749. | | | | |
| CCV | CCV V-357844 | 30 | 2767976. | 756180.7 | 81612.91 | 2723666. | | | | |
| CCB | CCB V-357841 | 31 | 2750844. | 755028.0 | 81381.82 | 2731879. | | | | |
| SMP | AD26083-004 | 32 | 2691161. | 697984.3 | 74661.37 | 2654894. | | | | |
| SMP | AD26083-007 | 33 | 2688314. | 694273.4 | 73156.45 | 2655033. | | | | |
| SMP | AD26083-013 | 34 | 2669529. | 684741.1 | 72611.21 | 2653114. | | | | |
| SMP | AD26083-015 | 35 | 2666210. | 685042.6 | 71559.42 | 2623582. | | | | |
| SMP | AD26083-017 | 36 | 2683929. | 694762.0 | 72458.09 | 2645915. | | | | |
| SMP | AD26083-020 | 37 | 2578386. | 657370.3 | 73204.19 | 2537232. | | | | |
| SMP | AD26083-022 | 38 | 2670695. | 690328.6 | 72356.84 | 2640869. | | | | |
| SMP | AD26083-024 | 39 | 2684884. | 689301.8 | 72027.66 | 2668705. | | | | |
| SMP | AD26083-029 | 40 | 2623209. | 666533.5 | 74442.48 | 2606468. | | | | |
| SMP | RINSE | 41 | 2918740. | 809499.0 | 88500.47 | 2891080. | | | | |
| CCV | CCV V-357844 | 42 | 2711795. | 727041.0 | 78841.42 | 2678648. | | | | |
| CCB | CCB V-357841 | 43 | 2684702. | 725148.6 | 77049.69 | 2657571. | | | | |
| SMP | AD26083-031 | 44 | 2638803. | 678728.0 | 71912.93 | 2596516. | | | | |
| SMP | AD26083-037 | 45 | 2327251. | 601582.4 | 72909.09 | 2299036. | | | | |
| SMP | AD26083-047 | 46 | 2646648. | 680337.0 | 72240.02 | 2625690. | | | | |
| SMP | RINSE | 47 | 2743268. | 757685.7 | 82591.28 | 2709686. | | | | |
| CCV | CCV V-357844 | 48 | 2721660. | 715260.7 | 77005.97 | 2683059. | | | | |

* Indicates Internal Standard Area outside of limits

# ICPMS Internal Standard Summary Report

TuneID: 2

| | | | | | | |
|---|---|---|---|---|---|---|
| CCB | CCB V-357841 | 49 | 2713028. | 725906.2 | 78010.38 | 2671207. |

* Indicates Internal Standard Area outside of limits

# Run Log

**Data File:** W:\METALS.FRM\ICPDATA\New\HGCV4A\H27683SW.txt

**Analysis Date:** 09/28/21 **Instrument:** HGCV4A

| Sample Id | DF | Qc Type | Time | Run # | Test Group | Rept Limit Matrix | Qc Matrix | Anal Method | Prep Batch | Comments: | Stds: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Calibration Blank | 1 | CAL | 13:01 | 1 | | | | | | | 0 |
| 2 PPB | 1 | CAL | 13:02 | 2 | | | | | | | 0 |
| 5 PPB | 1 | CAL | 13:04 | 3 | | | | | | | 0 |
| 1 PPB | 1 | CAL | 13:05 | 4 | | | | | | | 0 |
| 2 PPB | 1 | CAL | 13:07 | 5 | | | | | | | 0 |
| 5 PPB | 1 | CAL | 13:08 | 6 | | | | | | | 0 |
| 10 PPB | 1 | CAL | 13:10 | 7 | | | | | | | 0 |
| 25 PPB | 1 | CAL | 13:12 | 8 | | | | | | | 0 |
| ICV (2) | 1 | ICV | 13:14 | 9 | | | | | | | 0 |
| ICB | 1 | ICB | 13:16 | 10 | | | | | | | 0 |
| MB 94442 (1) | 1 | MB | 13:17 | 11 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| LCS 94442 | 1 | LCS | 13:19 | 12 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| LCS MR 94442 | 1 | LCS | 13:21 | 13 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26218-001 | 1 | SMP | 13:22 | 14 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26218-001 | 1 | MR | 13:24 | 15 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26218-001 | 1 | MS | 13:26 | 16 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26218-001 | 1 | MSD | 13:27 | 17 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26218-002 | 1 | SMP | 13:29 | 18 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26218-003 | 1 | SMP | 13:31 | 19 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26218-004 | 1 | SMP | 13:32 | 20 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| CCV | 1 | CCV | 13:34 | 21 | | | | | | | 0 |
| CCB | 1 | CCB | 13:36 | 22 | | | | | | | 0 |
| AD26218-005 | 1 | SMP | 13:37 | 23 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26218-006 | 1 | SMP | 13:39 | 24 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26218-007 | 1 | SMP | 13:40 | 25 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26218-008 | 1 | SMP | 13:42 | 26 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26218-009 | 1 | SMP | 13:44 | 27 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26218-011 | 1 | SMP | 13:45 | 28 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26228-001 | 1 | SMP | 13:47 | 29 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26228-002 | 1 | SMP | 13:48 | 30 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26228-003 | 1 | SMP | 13:50 | 31 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26228-004 | 1 | SMP | 13:51 | 32 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| CCV | 1 | CCV | 13:53 | 33 | | | | | | | 0 |
| CCB | 1 | CCB | 13:55 | 34 | | | | | | | 0 |
| AD26228-005 | 1 | SMP | 13:56 | 35 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26183-002 | 1 | SMP | 13:58 | 36 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26184-001 | 1 | SMP | 13:59 | 37 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26184-002 | 1 | SMP | 14:01 | 38 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26219-001 | 1 | SMP | 14:02 | 39 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| AD26083-039 | 1 | SMP | 14:04 | 40 | HG-W-7470 | AQUEO | AQUEO | SW846 | 94442 | | 0 |
| CCV | 1 | CCV | 14:05 | 41 | | | | | | | 0 |
| CCB | 1 | CCB | 14:07 | 42 | | | | | | | 0 |

**Comments/Reviewedby:**

CARMELA
192.168.1.115 9/28/2021 2:21:24 PM

OK

10/6/21

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

**Standard/Batch/SnCl2 Lot #:**

V-358174

Method: PE2 4300DV SWAQ AX  Page: 1  Date: 9/29/2021 10:05:42 AM

SW27669C2  27688 / 27669 / 27670 / 27671

SW846

Analysis Begun

Start Time: 9/29/2021 10:02:00 AM  Plasma On Time: 9/29/2021 9:44:10 AM
Logged In Analyst: shiamala  Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 069N-na  Autosampler Model: AS-93plus

Sample Information File: C:\pe\administrator\Sample Information\09.29.21.sif
Batch ID:
Results Data Set: SW27669C2
Results Library: C:\pe\administrator\Results\Results.mdb

10/4/21

Sequence No.: 1  Autosampler Location: 1
Sample ID: CALBLK V-352951  Date Collected: 9/29/2021 10:02:00 AM
Analyst:  Data Type: Original
Initial Sample Wt:  Initial Sample Vol:
Dilution:  Sample Prep Vol:

Mean Data: CALBLK V-352951

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 810144.2 | 4222.16 | 0.52% | 100 | % |
| Y 371.029 | 850009.3 | 5577.21 | 0.66% | 100 | % |
| Ag 328.068† | -575.3 | 10.61 | 1.84% | [0.00] | mg/L |
| Al 308.215† | 10512.6 | 66.55 | 0.63% | [0.00] | mg/L |
| As 188.979† | 57.0 | 3.52 | 6.18% | [0.00] | mg/L |
| Ba 233.527† | -1174.3 | 5.58 | 0.47% | [0.00] | mg/L |
| Be 313.107† | 2782.6 | 92.94 | 3.34% | [0.00] | mg/L |
| Ca 315.887† | 5610.9 | 122.85 | 2.19% | [0.00] | mg/L |
| Cd 228.802† | 32.1 | 22.54 | 70.16% | [0.00] | mg/L |
| Co 228.616† | 93.2 | 2.04 | 2.19% | [0.00] | mg/L |
| Cr 267.716† | -1258.8 | 20.24 | 1.61% | [0.00] | mg/L |
| Cu 327.393† | -6497.0 | 50.00 | 0.77% | [0.00] | mg/L |
| Fe 273.955† | -858.8 | 7.72 | 0.90% | [0.00] | mg/L |
| K 404.721† | 4362.3 | 84.01 | 1.93% | [0.00] | mg/L |
| Mg 279.077† | -1830.3 | 112.31 | 6.14% | [0.00] | mg/L |
| Mn 257.610† | 647.6 | 74.93 | 11.57% | [0.00] | mg/L |
| Mo 202.031† | 196.3 | 4.51 | 2.30% | [0.00] | mg/L |
| Na 330.237† | -3395.6 | 75.04 | 2.21% | [0.00] | mg/L |
| Ni 231.604† | 1126.8 | 3.97 | 0.35% | [0.00] | mg/L |
| Pb 220.353† | -332.9 | 1.34 | 0.40% | [0.00] | mg/L |
| Sb 206.836† | -322.6 | 2.97 | 0.92% | [0.00] | mg/L |
| Se 196.026† | -18.9 | 3.63 | 19.23% | [0.00] | mg/L |
| Sn 189.927† | -66.0 | 4.40 | 6.66% | [0.00] | mg/L |
| Ti 334.940† | 1303.0 | 54.28 | 4.17% | [0.00] | mg/L |
| Tl 190.801† | -7.4 | 2.56 | 34.45% | [0.00] | mg/L |
| V 290.880† | 4404.0 | 85.39 | 1.94% | [0.00] | mg/L |
| Zn 206.200† | 233.9 | 10.17 | 4.35% | [0.00] | mg/L |
| Si 251.611† | 1391.0 | 101.83 | 7.32% | [0.00] | mg/L |
| B 249.772† | 446.4 | 43.14 | 9.66% | [0.00] | mg/L |
| Ce 413.764 | 2039.4 | 30.97 | 1.52% | [0.00] | mg/L |

27699 / 94427

All reported

Al, Na K

NOT Reported

26083-001, -048, 049, 050

TQC

NOT Reported

26083-032 (100)

Ca Mg

Reported

Sequence No.: 2
Sample ID: CALST2 V-352961
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 9/29/2021 10:06:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-352961

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 798485.2 | 15414.63 | 1.93% | 98.6 | % |
| Y 371.029 | 829959.3 | 15076.36 | 1.82% | 97.6 | % |
| Ag 328.068† | 3586.7 | 85.52 | 2.38% | [0.02] | mg/L |
| Al 308.215† | 6575.6 | 239.76 | 3.65% | [0.2] | mg/L |
| As 188.979† | 54.1 | 3.20 | 5.92% | [0.040] | mg/L |
| Ba 233.527† | 4901.1 | 71.98 | 1.47% | [0.050] | mg/L |
| Be 313.107† | 38636.4 | 680.04 | 1.76% | [0.012] | mg/L |
| Ca 315.887† | 702305.9 | 12390.86 | 1.76% | [5] | mg/L |
| Cd 228.802† | 570.4 | 1.25 | 0.22% | [0.012] | mg/L |
| Co 228.616† | 678.2 | 9.02 | 1.33% | [0.020] | mg/L |
| Cr 267.716† | 5924.3 | 87.53 | 1.48% | [0.050] | mg/L |
| Cu 327.393† | 5984.0 | 27.99 | 0.47% | [0.050] | mg/L |
| Fe 273.955† | 9480.1 | 223.28 | 2.36% | [0.30] | mg/L |
| K 404.721† | 1090.2 | 111.30 | 10.21% | [5.0] | mg/L |
| Mg 279.077† | 135566.1 | 2272.75 | 1.68% | [5.0] | mg/L |
| Mn 257.610† | 34270.4 | 641.75 | 1.87% | [0.040] | mg/L |
| Mo 202.031† | 259.5 | 9.74 | 3.76% | [0.020] | mg/L |
| Na 330.237† | 6112.7 | 140.90 | 2.31% | [5.0] | mg/L |
| Ni 231.604† | 1736.3 | 37.75 | 2.17% | [0.050] | mg/L |
| Pb 220.353† | 197.4 | 9.68 | 4.90% | [0.050] | mg/L |
| Sb 206.836† | 57.7 | 4.84 | 8.39% | [0.050] | mg/L |
| Se 196.026† | 54.8 | 5.83 | 10.63% | [0.050] | mg/L |
| Sn 189.927† | 206.0 | 6.76 | 3.28% | [0.050] | mg/L |
| Ti 334.940† | 43228.6 | 846.13 | 1.96% | [0.050] | mg/L |
| Tl 190.801† | 42.4 | 0.29 | 0.68% | [0.050] | mg/L |
| V 290.880† | 7934.6 | 126.79 | 1.60% | [0.050] | mg/L |
| Zn 206.200† | 2495.9 | 37.31 | 1.50% | [0.050] | mg/L |
| Si 251.611† | 20518.1 | 395.84 | 1.93% | [0.2] | mg/L |
| B 249.772† | 19802.9 | 496.45 | 2.51% | [0.20] | mg/L |
| Ce 413.764 | 12146.6 | 51.70 | 0.43% | [0.2] | mg/L |

Sequence No.: 3
Sample ID: CALST3 V-352955
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 9/29/2021 10:10:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-352955

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 765978.7 | 1294.78 | 0.17% | 94.5 | % |
| Y 371.029 | 786031.5 | 1790.58 | 0.23% | 92.5 | % |
| Ag 328.068† | 17467.9 | 112.48 | 0.64% | [0.10] | mg/L |
| Al 308.215† | 152055.2 | 813.88 | 0.54% | [5.0] | mg/L |
| As 188.979† | 657.4 | 0.34 | 0.05% | [0.50] | mg/L |
| Ba 233.527† | 47417.9 | 254.01 | 0.54% | [0.50] | mg/L |
| Be 313.107† | 1587539.2 | 2380.14 | 0.15% | [0.50] | mg/L |
| Ca 315.887† | 6692676.9 | 8010.23 | 0.12% | [50] | mg/L |
| Cd 228.802† | 23909.5 | 37.54 | 0.16% | [0.50] | mg/L |
| Co 228.616† | 15759.3 | 14.12 | 0.09% | [0.50] | mg/L |
| Cr 267.716† | 57891.4 | 407.70 | 0.70% | [0.50] | mg/L |
| Cu 327.393† | 57519.8 | 486.80 | 0.85% | [0.50] | mg/L |
| Fe 273.955† | 148131.1 | 1020.38 | 0.69% | [5.0] | mg/L |
| K 404.721† | 6400.0 | 106.67 | 1.67% | [50] | mg/L |
| Mg 279.077† | 1241547.5 | 2895.66 | 0.23% | [50] | mg/L |
| Mn 257.610† | 409339.2 | 2700.75 | 0.66% | [0.50] | mg/L |
| Mo 202.031† | 6382.1 | 20.61 | 0.32% | [0.50] | mg/L |
| Na 330.237† | 66067.2 | 357.07 | 0.54% | [50] | mg/L |
| Ni 231.604† | 16217.5 | 48.53 | 0.30% | [0.50] | mg/L |
| Pb 220.353† | 1966.3 | 8.87 | 0.45% | [0.50] | mg/L |
| Sb 206.836† | 587.2 | 4.17 | 0.71% | [0.50] | mg/L |
| Se 196.026† | 500.6 | 4.31 | 0.86% | [0.50] | mg/L |
| Sn 189.927† | 2056.4 | 4.46 | 0.22% | [0.50] | mg/L |
| Ti 334.940† | 422948.6 | 2472.95 | 0.58% | [0.50] | mg/L |
| Tl 190.801† | 427.9 | 3.93 | 0.92% | [0.50] | mg/L |
| V 290.880† | 79523.1 | 452.17 | 0.57% | [0.50] | mg/L |
| Zn 206.200† | 24713.0 | 35.13 | 0.14% | [0.50] | mg/L |
| Si 251.611† | 223167.0 | 1359.59 | 0.61% | [5] | mg/L |
| B 249.772† | 48562.9 | 641.09 | 1.32% | [0.50] | mg/L |
| Ce 413.764 | 27330.6 | 122.63 | 0.45% | [0.5] | mg/L |

Sequence No.: 4
Sample ID: CALST4 V-352956
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 9/29/2021 10:14:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-352956

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 725784.9 | 26375.14 | 3.63% | 89.6 | % |
| Y 371.029 | 740369.4 | 26942.13 | 3.64% | 87.1 | % |
| Ag 328.068† | 35813.5 | 1402.50 | 3.92% | [0.20] | mg/L |
| Al 308.215† | 309480.8 | 12667.40 | 4.09% | [10] | mg/L |
| As 188.979† | 1362.9 | 44.58 | 3.27% | [1.0] | mg/L |
| Ba 233.527† | 96791.9 | 3803.86 | 3.93% | [1.0] | mg/L |
| Be 313.107† | 3302385.0 | 159821.11 | 4.84% | [1.0] | mg/L |
| Ca 315.887† | 13844292.4 | 667142.84 | 4.82% | [100] | mg/L |
| Cd 228.802† | 49477.3 | 1901.16 | 3.84% | [1.0] | mg/L |
| Co 228.616† | 31921.2 | 1070.40 | 3.35% | [1.0] | mg/L |
| Cr 267.716† | 118053.8 | 4610.08 | 3.91% | [1.0] | mg/L |
| Cu 327.393† | 117248.5 | 4254.95 | 3.63% | [1.0] | mg/L |
| Fe 273.955† | 301180.8 | 11973.19 | 3.98% | [10] | mg/L |
| K 404.721† | 13984.0 | 696.72 | 4.98% | [100] | mg/L |
| Mg 279.077† | 2528560.8 | 97838.11 | 3.87% | [100] | mg/L |
| Mn 257.610† | 834962.7 | 33143.92 | 3.97% | [1.0] | mg/L |
| Mo 202.031† | 13027.6 | 444.36 | 3.41% | [1.0] | mg/L |
| Na 330.237† | 143372.8 | 5691.57 | 3.97% | [100] | mg/L |
| Ni 231.604† | 33142.0 | 1300.50 | 3.92% | [1.0] | mg/L |
| Pb 220.353† | 4001.3 | 129.20 | 3.23% | [1.0] | mg/L |
| Sb 206.836† | 1216.8 | 32.01 | 2.63% | [1.0] | mg/L |
| Se 196.026† | 1031.6 | 34.25 | 3.32% | [1.0] | mg/L |
| Sn 189.927† | 4113.4 | 138.37 | 3.36% | [1.0] | mg/L |
| Ti 334.940† | 875951.6 | 35506.19 | 4.05% | [1.0] | mg/L |
| Tl 190.801† | 878.5 | 32.09 | 3.65% | [1.0] | mg/L |
| V 290.880† | 164153.8 | 6572.90 | 4.00% | [1.0] | mg/L |
| Zn 206.200† | 50860.9 | 1937.80 | 3.81% | [1.0] | mg/L |
| Si 251.611† | 456904.2 | 17937.40 | 3.93% | [10] | mg/L |
| B 249.772† | 101251.4 | 4658.42 | 4.60% | [1.0] | mg/L |
| Ce 413.764 | 51819.0 | 348.27 | 0.67% | [1] | mg/L |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| Ag 328.068 | 3 | Lin, Calc Int | -79.0 | 178700 | 0.00000 | 0.999910 | |
| Al 308.215 | 3 | Lin, Calc Int | -314.4 | 30880 | 0.00000 | 0.999955 | |
| As 188.979 | 3 | Lin, Calc Int | -4.6 | 1359 | 0.00000 | 0.999829 | |
| Ba 233.527 | 3 | Lin, Calc Int | -151.4 | 96590 | 0.00000 | 0.999940 | |
| Be 313.107 | 3 | Lin, Calc Int | -12038.0 | 3291000 | 0.00000 | 0.999801 | |
| Ca 315.887 | 3 | Lin, Calc Int | -37474.3 | 138000 | 0.00000 | 0.999841 | |
| Cd 228.802 | 3 | Lin, Calc Int | -161.5 | 49340 | 0.00000 | 0.999851 | |
| Co 228.616 | 3 | Lin, Calc Int | -18.7 | 31860 | 0.00000 | 0.999976 | |
| Cr 267.716 | 3 | Lin, Calc Int | -198.2 | 117800 | 0.00000 | 0.999947 | |
| Cu 327.393 | 3 | Lin, Calc Int | -147.5 | 117000 | 0.00000 | 0.999947 | |
| Fe 273.955 | 3 | Lin, Calc Int | -247.5 | 30050 | 0.00000 | 0.999959 | |
| K 404.721 | 3 | Lin, Calc Int | 67.8 | 136.8 | 0.00000 | 0.998231 | |
| Mg 279.077 | 3 | Lin, Calc Int | -45.2 | 25200 | 0.00000 | 0.999939 | |
| Mn 257.610 | 3 | Lin, Calc Int | -1094.5 | 833100 | 0.00000 | 0.999944 | |
| Mo 202.031 | 3 | Lin, Calc Int | -24.5 | 13000 | 0.00000 | 0.999945 | |
| Na 330.237 | 3 | Lin, Calc Int | -1504.8 | 1429 | 0.00000 | 0.999196 | |
| Ni 231.604 | 3 | Lin, Calc Int | -29.1 | 33040 | 0.00000 | 0.999926 | |
| Pb 220.353 | 3 | Lin, Calc Int | -7.5 | 3997 | 0.00000 | 0.999960 | |
| Sb 206.836 | 3 | Lin, Calc Int | -5.3 | 1215 | 0.00000 | 0.999840 | |
| Se 196.026 | 3 | Lin, Calc Int | -1.3 | 1027 | 0.00000 | 0.999859 | |
| Sn 189.927 | 3 | Lin, Calc Int | 0.1 | 4113 | 0.00000 | 1.000000 | |
| Ti 334.940 | 3 | Lin, Calc Int | -3008.2 | 873700 | 0.00000 | 0.999837 | |
| Tl 190.801 | 3 | Lin, Calc Int | -2.8 | 877.3 | 0.00000 | 0.999911 | |
| V 290.880 | 3 | Lin, Calc Int | -590.7 | 163900 | 0.00000 | 0.999870 | |
| Zn 206.200 | 3 | Lin, Calc Int | -152.6 | 50760 | 0.00000 | 0.999892 | |
| Si 251.611 | 3 | Lin, Calc Int | 4195.8 | 44990 | 0.00000 | 0.999578 | |
| B 249.772 | 3 | Lin, Calc Int | -587.1 | 101200 | 0.00000 | 0.999753 | |
| Ce 413.764 | 3 | Lin, Calc Int | 1021.6 | 51300 | 0.00000 | 0.999171 | |

Sequence No.: 5
Sample ID: ICV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 10:20:24 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 755261.0 | 93.2 | % | 0.07 | | | | 0.07% |
| Y 371.029 | 765113.4 | 90.0 | % | 1.41 | | | | 1.57% |
| Ag 328.068† | 17323.4 | 0.0980900 | mg/L | 0.00032460 | 0.0980900 | mg/L | 0.00032460 | 0.33% |
| QC value within limits for Ag 328.068 Recovery = 98.09% | | | | | | | | |
| Al 308.215† | 152959.1 | 4.96359 | mg/L | 0.021278 | 4.96359 | mg/L | 0.021278 | 0.43% |
| QC value within limits for Al 308.215 Recovery = 99.27% | | | | | | | | |
| As 188.979† | 667.2 | 0.494006 | mg/L | 0.0037698 | 0.494006 | mg/L | 0.0037698 | 0.76% |
| QC value within limits for As 188.979 Recovery = 98.80% | | | | | | | | |
| Ba 233.527† | 47627.3 | 0.494649 | mg/L | 0.0026626 | 0.494649 | mg/L | 0.0026626 | 0.54% |
| QC value within limits for Ba 233.527 Recovery = 98.93% | | | | | | | | |
| Be 313.107† | 1592585.3 | 0.487509 | mg/L | 0.0000872 | 0.487509 | mg/L | 0.0000872 | 0.02% |
| QC value within limits for Be 313.107 Recovery = 97.50% | | | | | | | | |
| Ca 315.887† | 6707514.1 | 48.8786 | mg/L | 0.03829 | 48.8786 | mg/L | 0.03829 | 0.08% |
| QC value within limits for Ca 315.887 Recovery = 97.76% | | | | | | | | |
| Cd 228.802† | 24005.3 | 0.495783 | mg/L | 0.0018614 | 0.495783 | mg/L | 0.0018614 | 0.38% |
| QC value within limits for Cd 228.802 Recovery = 99.16% | | | | | | | | |
| Co 228.616† | 15814.0 | 0.497035 | mg/L | 0.0011520 | 0.497035 | mg/L | 0.0011520 | 0.23% |
| QC value within limits for Co 228.616 Recovery = 99.41% | | | | | | | | |
| Cr 267.716† | 58316.3 | 0.496531 | mg/L | 0.0025901 | 0.496531 | mg/L | 0.0025901 | 0.52% |
| QC value within limits for Cr 267.716 Recovery = 99.31% | | | | | | | | |
| Cu 327.393† | 57980.1 | 0.496857 | mg/L | 0.0029061 | 0.496857 | mg/L | 0.0029061 | 0.58% |
| QC value within limits for Cu 327.393 Recovery = 99.37% | | | | | | | | |
| Fe 273.955† | 148702.2 | 4.95655 | mg/L | 0.024906 | 4.95655 | mg/L | 0.024906 | 0.50% |
| QC value within limits for Fe 273.955 Recovery = 99.13% | | | | | | | | |
| K 404.721† | 6520.8 | 47.1730 | mg/L | 0.64210 | 47.1730 | mg/L | 0.64210 | 1.36% |
| QC value within limits for K 404.721 Recovery = 94.35% | | | | | | | | |
| Mg 279.077† | 1242422.7 | 49.3061 | mg/L | 0.02866 | 49.3061 | mg/L | 0.02866 | 0.06% |
| QC value within limits for Mg 279.077 Recovery = 98.61% | | | | | | | | |
| Mn 257.610† | 411568.8 | 0.495344 | mg/L | 0.0024572 | 0.495344 | mg/L | 0.0024572 | 0.50% |
| QC value within limits for Mn 257.610 Recovery = 99.07% | | | | | | | | |
| Mo 202.031† | 6431.5 | 0.496820 | mg/L | 0.0011730 | 0.496820 | mg/L | 0.0011730 | 0.24% |
| QC value within limits for Mo 202.031 Recovery = 99.36% | | | | | | | | |
| Na 330.237† | 66288.9 | 47.4249 | mg/L | 0.19488 | 47.4249 | mg/L | 0.19488 | 0.41% |
| QC value within limits for Na 330.237 Recovery = 94.85% | | | | | | | | |
| Ni 231.604† | 16324.5 | 0.494962 | mg/L | 0.0017827 | 0.494962 | mg/L | 0.0017827 | 0.36% |
| QC value within limits for Ni 231.604 Recovery = 98.99% | | | | | | | | |
| Pb 220.353† | 1964.9 | 0.497502 | mg/L | 0.0027575 | 0.497502 | mg/L | 0.0027575 | 0.55% |
| QC value within limits for Pb 220.353 Recovery = 99.50% | | | | | | | | |
| Sb 206.836† | 582.1 | 0.488922 | mg/L | 0.0051331 | 0.488922 | mg/L | 0.0051331 | 1.05% |
| QC value within limits for Sb 206.836 Recovery = 97.78% | | | | | | | | |
| Se 196.026† | 497.0 | 0.484620 | mg/L | 0.0053411 | 0.484620 | mg/L | 0.0053411 | 1.10% |
| QC value within limits for Se 196.026 Recovery = 96.92% | | | | | | | | |
| Sn 189.927† | 2042.2 | 0.496482 | mg/L | 0.0030073 | 0.496482 | mg/L | 0.0030073 | 0.61% |
| QC value within limits for Sn 189.927 Recovery = 99.30% | | | | | | | | |
| Ti 334.940† | 425838.0 | 0.490866 | mg/L | 0.0024687 | 0.490866 | mg/L | 0.0024687 | 0.50% |
| QC value within limits for Ti 334.940 Recovery = 98.17% | | | | | | | | |
| Tl 190.801† | 431.4 | 0.500148 | mg/L | 0.0011886 | 0.500148 | mg/L | 0.0011886 | 0.24% |
| QC value within limits for Tl 190.801 Recovery = 100.03% | | | | | | | | |
| V 290.880† | 80111.4 | 0.492523 | mg/L | 0.0021023 | 0.492523 | mg/L | 0.0021023 | 0.43% |
| QC value within limits for V 290.880 Recovery = 98.50% | | | | | | | | |
| Zn 206.200† | 24754.5 | 0.490670 | mg/L | 0.0019605 | 0.490670 | mg/L | 0.0019605 | 0.40% |
| QC value within limits for Zn 206.200 Recovery = 98.13% | | | | | | | | |
| Si 251.611† | 221081.5 | 4.82328 | mg/L | 0.026764 | 4.82328 | mg/L | 0.026764 | 0.55% |
| QC value within limits for Si 251.611 Recovery = 96.47% | | | | | | | | |
| B 249.772† | 49232.2 | 0.473430 | mg/L | 0.0018073 | 0.473430 | mg/L | 0.0018073 | 0.38% |
| QC value within limits for B 249.772 Recovery = 94.69% | | | | | | | | |
| Ce 413.764 | 27116.0 | 0.508664 | mg/L | 0.0049561 | 0.508664 | mg/L | 0.0049561 | 0.97% |
| QC value within limits for Ce 413.764 Recovery = 101.73% | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/29/2021 10:24:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 803482.5 | 99.2 | % | 0.22 | | | | 0.23% |
| Y 371.029 | 846100.9 | 99.5 | % | 0.17 | | | | 0.17% |
| Ag 328.068† | 17.2 | 0.0005223 | mg/L | 0.00021293 | 0.0005223 | mg/L | 0.00021293 | 40.77% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 88.9 | 0.0130591 | mg/L | 0.00109566 | 0.0130591 | mg/L | 0.00109566 | 8.39% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 5.7 | 0.0075510 | mg/L | 0.00205838 | 0.0075510 | mg/L | 0.00205838 | 27.26% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -28.0 | 0.0012768 | mg/L | 0.00014842 | 0.0012768 | mg/L | 0.00014842 | 11.62% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 274.9 | 0.0037408 | mg/L | 0.00002389 | 0.0037408 | mg/L | 0.00002389 | 0.64% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 184.5 | 0.272901 | mg/L | 0.0002025 | 0.272901 | mg/L | 0.0002025 | 0.07% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 17.3 | 0.0036455 | mg/L | 0.00016575 | 0.0036455 | mg/L | 0.00016575 | 4.55% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 22.1 | 0.0012741 | mg/L | 0.00047191 | 0.0012741 | mg/L | 0.00047191 | 37.04% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 7.8 | 0.0017477 | mg/L | 0.00025405 | 0.0017477 | mg/L | 0.00025405 | 14.54% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -17.1 | 0.0011177 | mg/L | 0.00078610 | 0.0011177 | mg/L | 0.00078610 | 70.33% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -98.1 | 0.0049714 | mg/L | 0.00083212 | 0.0049714 | mg/L | 0.00083212 | 16.74% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 209.1 | 1.03336 | mg/L | 0.688234 | 1.03336 | mg/L | 0.688234 | 66.60% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -60.9 | -0.0006234 | mg/L | 0.00349611 | -0.0006234 | mg/L | 0.00349611 | 560.86% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -36.9 | 0.0012695 | mg/L | 0.00003179 | 0.0012695 | mg/L | 0.00003179 | 2.50% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 9.9 | 0.0026450 | mg/L | 0.00044100 | 0.0026450 | mg/L | 0.00044100 | 16.67% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | -45.8 | 1.02066 | mg/L | 0.030870 | 1.02066 | mg/L | 0.030870 | 3.02% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 40.1 | 0.0020927 | mg/L | 0.00047661 | 0.0020927 | mg/L | 0.00047661 | 22.77% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -4.4 | 0.0007890 | mg/L | 0.00102468 | 0.0007890 | mg/L | 0.00102468 | 129.87% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -4.4 | 0.0007063 | mg/L | 0.00191477 | 0.0007063 | mg/L | 0.00191477 | 271.10% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 3.8 | 0.0049652 | mg/L | 0.00540374 | 0.0049652 | mg/L | 0.00540374 | 108.83% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -4.8 | -0.0011892 | mg/L | 0.00124738 | -0.0011892 | mg/L | 0.00124738 | 104.90% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 139.6 | 0.0036031 | mg/L | 0.00004447 | 0.0036031 | mg/L | 0.00004447 | 1.23% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -2.0 | 0.0008337 | mg/L | 0.00231804 | 0.0008337 | mg/L | 0.00231804 | 278.05% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 18.1 | 0.0037154 | mg/L | 0.00054498 | 0.0037154 | mg/L | 0.00054498 | 14.67% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 0.6 | 0.0030186 | mg/L | 0.00010967 | 0.0030186 | mg/L | 0.00010967 | 3.63% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 52.5 | -0.0920963 | mg/L | 0.00038315 | -0.0920963 | mg/L | 0.00038315 | 0.42% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 711.3 | 0.0128160 | mg/L | 0.00190913 | 0.0128160 | mg/L | 0.00190913 | 14.90% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -97.7 | -0.0218181 | mg/L | 0.00215779 | -0.0218181 | mg/L | 0.00215779 | 9.89% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: LLICV V-352961
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 9/29/2021 10:28:21 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV V-352961

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 792853.6 | 97.9 | % | 0.36 | | | | 0.37% |
| Y 371.029 | 827079.6 | 97.3 | % | 0.40 | | | | 0.41% |
| Ag 328.068† | 3529.9 | 0.0203733 | mg/L | 0.00029608 | 0.0203733 | mg/L | 0.00029608 | 1.45% |
| QC value within limits for Ag 328.068 Recovery = 101.87% | | | | | | | | |
| Al 308.215† | 6508.0 | 0.220935 | mg/L | 0.0017493 | 0.220935 | mg/L | 0.0017493 | 0.79% |
| QC value within limits for Al 308.215 Recovery = 110.47% | | | | | | | | |
| As 188.979† | 57.9 | 0.0459839 | mg/L | 0.00324430 | 0.0459839 | mg/L | 0.00324430 | 7.06% |
| QC value within limits for As 188.979 Recovery = 114.96% | | | | | | | | |
| Ba 233.527† | 4829.0 | 0.0515617 | mg/L | 0.00006720 | 0.0515617 | mg/L | 0.00006720 | 0.13% |
| QC value within limits for Ba 233.527 Recovery = 103.12% | | | | | | | | |
| Be 313.107† | 38565.7 | 0.0153742 | mg/L | 0.00000804 | 0.0153742 | mg/L | 0.00000804 | 0.05% |
| QC value greater than the upper limit for Be 313.107 Recovery = 128.12% | | | | | | | | |
| Ca 315.887† | 698263.0 | 5.33164 | mg/L | 0.000563 | 5.33164 | mg/L | 0.000563 | 0.01% |
| QC value within limits for Ca 315.887 Recovery = 106.63% | | | | | | | | |
| Cd 228.802† | 596.1 | 0.0159531 | mg/L | 0.00013044 | 0.0159531 | mg/L | 0.00013044 | 0.82% |
| QC value greater than the upper limit for Cd 228.802 Recovery = 132.94% | | | | | | | | |
| Co 228.616† | 689.9 | 0.0222490 | mg/L | 0.00055354 | 0.0222490 | mg/L | 0.00055354 | 2.49% |
| QC value within limits for Co 228.616 Recovery = 111.25% | | | | | | | | |
| Cr 267.716† | 5930.7 | 0.0520079 | mg/L | 0.00020701 | 0.0520079 | mg/L | 0.00020701 | 0.40% |
| QC value within limits for Cr 267.716 Recovery = 104.02% | | | | | | | | |
| Cu 327.393† | 6006.3 | 0.0526010 | mg/L | 0.00027591 | 0.0526010 | mg/L | 0.00027591 | 0.52% |
| QC value within limits for Cu 327.393 Recovery = 105.20% | | | | | | | | |
| Fe 273.955† | 9345.0 | 0.319208 | mg/L | 0.0010635 | 0.319208 | mg/L | 0.0010635 | 0.33% |
| QC value within limits for Fe 273.955 Recovery = 106.40% | | | | | | | | |
| K 404.721† | 1036.4 | 7.08093 | mg/L | 0.287396 | 7.08093 | mg/L | 0.287396 | 4.06% |
| QC value greater than the upper limit for K 404.721 Recovery = 141.62% | | | | | | | | |
| Mg 279.077† | 134499.1 | 5.33926 | mg/L | 0.000951 | 5.33926 | mg/L | 0.000951 | 0.02% |
| QC value within limits for Mg 279.077 Recovery = 106.79% | | | | | | | | |
| Mn 257.610† | 33908.1 | 0.0420157 | mg/L | 0.00008181 | 0.0420157 | mg/L | 0.00008181 | 0.19% |
| QC value within limits for Mn 257.610 Recovery = 105.04% | | | | | | | | |
| Mo 202.031† | 266.5 | 0.0223953 | mg/L | 0.00025549 | 0.0223953 | mg/L | 0.00025549 | 1.14% |
| QC value within limits for Mo 202.031 Recovery = 111.98% | | | | | | | | |
| Na 330.237† | 6048.0 | 5.28354 | mg/L | 0.014882 | 5.28354 | mg/L | 0.014882 | 0.28% |
| QC value within limits for Na 330.237 Recovery = 105.67% | | | | | | | | |
| Ni 231.604† | 1751.3 | 0.0538860 | mg/L | 0.00033430 | 0.0538860 | mg/L | 0.00033430 | 0.62% |
| QC value within limits for Ni 231.604 Recovery = 107.77% | | | | | | | | |
| Pb 220.353† | 196.8 | 0.0514156 | mg/L | 0.00204681 | 0.0514156 | mg/L | 0.00204681 | 3.98% |
| QC value within limits for Pb 220.353 Recovery = 102.83% | | | | | | | | |
| Sb 206.836† | 55.9 | 0.0506204 | mg/L | 0.00236383 | 0.0506204 | mg/L | 0.00236383 | 4.67% |
| QC value within limits for Sb 206.836 Recovery = 101.24% | | | | | | | | |
| Se 196.026† | 63.3 | 0.0629124 | mg/L | 0.00384144 | 0.0629124 | mg/L | 0.00384144 | 6.11% |
| QC value greater than the upper limit for Se 196.026 Recovery = 125.82% | | | | | | | | |
| Sn 189.927† | 202.4 | 0.0491946 | mg/L | 0.00042136 | 0.0491946 | mg/L | 0.00042136 | 0.86% |
| QC value within limits for Sn 189.927 Recovery = 98.39% | | | | | | | | |
| Ti 334.940† | 42977.1 | 0.0526358 | mg/L | 0.00007615 | 0.0526358 | mg/L | 0.00007615 | 0.14% |
| QC value within limits for Ti 334.940 Recovery = 105.27% | | | | | | | | |
| Tl 190.801† | 43.5 | 0.0537730 | mg/L | 0.00065605 | 0.0537730 | mg/L | 0.00065605 | 1.22% |
| QC value within limits for Tl 190.801 Recovery = 107.55% | | | | | | | | |
| V 290.880† | 7875.7 | 0.0516706 | mg/L | 0.00023578 | 0.0516706 | mg/L | 0.00023578 | 0.46% |
| QC value within limits for V 290.880 Recovery = 103.34% | | | | | | | | |
| Zn 206.200† | 2459.2 | 0.0514531 | mg/L | 0.00019997 | 0.0514531 | mg/L | 0.00019997 | 0.39% |
| QC value within limits for Zn 206.200 Recovery = 102.91% | | | | | | | | |
| Si 251.611† | 20305.4 | 0.358236 | mg/L | 0.0016575 | 0.358236 | mg/L | 0.0016575 | 0.46% |
| QC value greater than the upper limit for Si 251.611 Recovery = 179.12% | | | | | | | | |
| B 249.772† | 19344.5 | 0.195809 | mg/L | 0.0024080 | 0.195809 | mg/L | 0.0024080 | 1.23% |
| QC value within limits for B 249.772 Recovery = 97.90% | | | | | | | | |
| Ce 413.764 | 11754.8 | 0.209224 | mg/L | 0.0015938 | 0.209224 | mg/L | 0.0015938 | 0.76% |
| QC value within limits for Ce 413.764 Recovery = 104.61% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 8
Sample ID: LRS V-352964
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 9/29/2021 10:32:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LRS V-352964

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 682748.4 | 84.3 | % | 1.34 | | | | 1.58% |
| Y 371.029 | 659661.7 | 77.6 | % | 1.29 | | | | 1.66% |
| Ag 328.068† | 181798.7 | 1.04557 | mg/L | 0.020579 | 1.04557 | mg/L | 0.020579 | 1.97% |
| QC value within limits for Ag 328.068 Recovery = 104.56% | | | | | | | | |
| Al 308.215† | 14635000.5 | 473.949 | mg/L | 9.0625 | 473.949 | mg/L | 9.0625 | 1.91% |
| QC value within limits for Al 308.215 Recovery = 94.79% | | | | | | | | |
| As 188.979† | 14085.7 | 10.3360 | mg/L | 0.19359 | 10.3360 | mg/L | 0.19359 | 1.87% |
| QC value within limits for As 188.979 Recovery = 103.36% | | | | | | | | |
| Ba 233.527† | 975559.9 | 10.1014 | mg/L | 0.20091 | 10.1014 | mg/L | 0.20091 | 1.99% |
| QC value within limits for Ba 233.527 Recovery = 101.01% | | | | | | | | |
| Be 313.107† | 15699596.4 | 4.77343 | mg/L | 0.096382 | 4.77343 | mg/L | 0.096382 | 2.02% |
| QC value within limits for Be 313.107 Recovery = 95.47% | | | | | | | | |
| Ca 315.887† | 65584311.2 | 475.539 | mg/L | 9.5342 | 475.539 | mg/L | 9.5342 | 2.00% |
| QC value within limits for Ca 315.887 Recovery = 95.11% | | | | | | | | |
| Cd 228.802† | 257254.4 | 5.35613 | mg/L | 0.101592 | 5.35613 | mg/L | 0.101592 | 1.90% |
| QC value within limits for Cd 228.802 Recovery = 107.12% | | | | | | | | |
| Co 228.616† | 155851.3 | 4.89516 | mg/L | 0.093545 | 4.89516 | mg/L | 0.093545 | 1.91% |
| QC value within limits for Co 228.616 Recovery = 97.90% | | | | | | | | |
| Cr 267.716† | 1143942.2 | 9.70872 | mg/L | 0.189779 | 9.70872 | mg/L | 0.189779 | 1.95% |
| QC value within limits for Cr 267.716 Recovery = 97.09% | | | | | | | | |
| Cu 327.393† | 1199372.0 | 10.2529 | mg/L | 0.19960 | 10.2529 | mg/L | 0.19960 | 1.95% |
| QC value within limits for Cu 327.393 Recovery = 102.53% | | | | | | | | |
| Fe 273.955† | 5753845.0 | 191.477 | mg/L | 3.7583 | 191.477 | mg/L | 3.7583 | 1.96% |
| QC value within limits for Fe 273.955 Recovery = 95.74% | | | | | | | | |
| K 404.721† | 66406.0 | 484.949 | mg/L | 10.6229 | 484.949 | mg/L | 10.6229 | 2.19% |
| QC value greater than the upper limit for K 404.721 Recovery = 242.47% | | | | | | | | |
| Mg 279.077† | 12170754.9 | 482.986 | mg/L | 9.8263 | 482.986 | mg/L | 9.8263 | 2.03% |
| QC value within limits for Mg 279.077 Recovery = 96.60% | | | | | | | | |
| Mn 257.610† | 8068846.6 | 9.68682 | mg/L | 0.193604 | 9.68682 | mg/L | 0.193604 | 2.00% |
| QC value within limits for Mn 257.610 Recovery = 96.87% | | | | | | | | |
| Mo 202.031† | 126662.5 | 9.77826 | mg/L | 0.188963 | 9.77826 | mg/L | 0.188963 | 1.93% |
| QC value within limits for Mo 202.031 Recovery = 97.78% | | | | | | | | |
| Na 330.237† | 1653569.0 | 1157.80 | mg/L | 23.334 | 1157.80 | mg/L | 23.334 | 2.02% |
| QC value greater than the upper limit for Na 330.237 Recovery = 115.78% | | | | | | | | |
| Ni 231.604† | 315565.7 | 9.55190 | mg/L | 0.178625 | 9.55190 | mg/L | 0.178625 | 1.87% |
| QC value within limits for Ni 231.604 Recovery = 95.52% | | | | | | | | |
| Pb 220.353† | 38879.5 | 9.96781 | mg/L | 0.170007 | 9.96781 | mg/L | 0.170007 | 1.71% |
| QC value within limits for Pb 220.353 Recovery = 99.68% | | | | | | | | |
| Sb 206.836† | 6011.5 | 5.18515 | mg/L | 0.074705 | 5.18515 | mg/L | 0.074705 | 1.44% |
| QC value within limits for Sb 206.836 Recovery = 103.70% | | | | | | | | |
| Se 196.026† | 5241.9 | 5.04212 | mg/L | 0.077775 | 5.04212 | mg/L | 0.077775 | 1.54% |
| QC value within limits for Se 196.026 Recovery = 100.84% | | | | | | | | |
| Sn 189.927† | 40546.4 | 9.85764 | mg/L | 0.157542 | 9.85764 | mg/L | 0.157542 | 1.60% |
| QC value within limits for Sn 189.927 Recovery = 98.58% | | | | | | | | |
| Ti 334.940† | 8654963.8 | 9.91008 | mg/L | 0.206786 | 9.91008 | mg/L | 0.206786 | 2.09% |
| QC value within limits for Ti 334.940 Recovery = 99.10% | | | | | | | | |
| Tl 190.801† | 4117.0 | 4.82866 | mg/L | 0.088239 | 4.82866 | mg/L | 0.088239 | 1.83% |
| QC value within limits for Tl 190.801 Recovery = 96.57% | | | | | | | | |
| V 290.880† | 1635107.0 | 9.98262 | mg/L | 0.203593 | 9.98262 | mg/L | 0.203593 | 2.04% |
| QC value within limits for V 290.880 Recovery = 99.83% | | | | | | | | |
| Zn 206.200† | 495766.6 | 9.76960 | mg/L | 0.176628 | 9.76960 | mg/L | 0.176628 | 1.81% |
| QC value within limits for Zn 206.200 Recovery = 97.70% | | | | | | | | |
| Si 251.611† | 1053212.9 | 23.4044 | mg/L | 0.42908 | 23.4044 | mg/L | 0.42908 | 1.83% |
| QC value within limits for Si 251.611 Recovery = 93.62% | | | | | | | | |
| B 249.772† | 513982.2 | 4.35022 | mg/L | 0.083809 | 4.35022 | mg/L | 0.083809 | 1.93% |
| QC value less than the lower limit for B 249.772 Recovery = 87.00% | | | | | | | | |
| Ce 413.764 | 1041987.0 | 20.2917 | mg/L | 0.09635 | 20.2917 | mg/L | 0.09635 | 0.47% |
| QC value less than the lower limit for Ce 413.764 Recovery = 81.17% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 9
Sample ID: ICS3 V-352955
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 9/29/2021 10:38:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-352955

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 766073.3 | 94.6 | % | 0.21 | | | | 0.22% |
| Y 371.029 | 788326.8 | 92.7 | % | 0.21 | | | | 0.22% |
| Ag 328.068† | 17745.5 | 0.100462 | mg/L | 0.0005674 | 0.100462 | mg/L | 0.0005674 | 0.56% |
| QC value within limits for Ag 328.068 Recovery = 100.46% | | | | | | | | |
| Al 308.215† | 154929.5 | 5.02740 | mg/L | 0.034247 | 5.02740 | mg/L | 0.034247 | 0.68% |
| QC value within limits for Al 308.215 Recovery = 100.55% | | | | | | | | |
| As 188.979† | 679.0 | 0.502653 | mg/L | 0.0025251 | 0.502653 | mg/L | 0.0025251 | 0.50% |
| QC value within limits for As 188.979 Recovery = 100.53% | | | | | | | | |
| Ba 233.527† | 48072.4 | 0.499257 | mg/L | 0.0035996 | 0.499257 | mg/L | 0.0035996 | 0.72% |
| QC value within limits for Ba 233.527 Recovery = 99.85% | | | | | | | | |
| Be 313.107† | 1604572.8 | 0.491151 | mg/L | 0.0002251 | 0.491151 | mg/L | 0.0002251 | 0.05% |
| QC value within limits for Be 313.107 Recovery = 98.23% | | | | | | | | |
| Ca 315.887† | 6778235.8 | 49.3911 | mg/L | 0.01827 | 49.3911 | mg/L | 0.01827 | 0.04% |
| QC value within limits for Ca 315.887 Recovery = 98.78% | | | | | | | | |
| Cd 228.802† | 24396.8 | 0.503807 | mg/L | 0.0027213 | 0.503807 | mg/L | 0.0027213 | 0.54% |
| QC value within limits for Cd 228.802 Recovery = 100.76% | | | | | | | | |
| Co 228.616† | 16002.6 | 0.502957 | mg/L | 0.0024700 | 0.502957 | mg/L | 0.0024700 | 0.49% |
| QC value within limits for Co 228.616 Recovery = 100.59% | | | | | | | | |
| Cr 267.716† | 59125.2 | 0.503395 | mg/L | 0.0035954 | 0.503395 | mg/L | 0.0035954 | 0.71% |
| QC value within limits for Cr 267.716 Recovery = 100.68% | | | | | | | | |
| Cu 327.393† | 58671.5 | 0.502764 | mg/L | 0.0039821 | 0.502764 | mg/L | 0.0039821 | 0.79% |
| QC value within limits for Cu 327.393 Recovery = 100.55% | | | | | | | | |
| Fe 273.955† | 151062.3 | 5.03508 | mg/L | 0.033501 | 5.03508 | mg/L | 0.033501 | 0.67% |
| QC value within limits for Fe 273.955 Recovery = 100.70% | | | | | | | | |
| K 404.721† | 6752.1 | 48.8644 | mg/L | 1.27724 | 48.8644 | mg/L | 1.27724 | 2.61% |
| QC value within limits for K 404.721 Recovery = 97.73% | | | | | | | | |
| Mg 279.077† | 1261295.0 | 50.0550 | mg/L | 0.06094 | 50.0550 | mg/L | 0.06094 | 0.12% |
| QC value within limits for Mg 279.077 Recovery = 100.11% | | | | | | | | |
| Mn 257.610† | 416448.7 | 0.501201 | mg/L | 0.0035340 | 0.501201 | mg/L | 0.0035340 | 0.71% |
| QC value within limits for Mn 257.610 Recovery = 100.24% | | | | | | | | |
| Mo 202.031† | 6499.5 | 0.502055 | mg/L | 0.0014809 | 0.502055 | mg/L | 0.0014809 | 0.29% |
| QC value within limits for Mo 202.031 Recovery = 100.41% | | | | | | | | |
| Na 330.237† | 67494.8 | 48.2685 | mg/L | 0.30587 | 48.2685 | mg/L | 0.30587 | 0.63% |
| QC value within limits for Na 330.237 Recovery = 96.54% | | | | | | | | |
| Ni 231.604† | 16567.1 | 0.502306 | mg/L | 0.0029394 | 0.502306 | mg/L | 0.0029394 | 0.59% |
| QC value within limits for Ni 231.604 Recovery = 100.46% | | | | | | | | |
| Pb 220.353† | 2007.2 | 0.508163 | mg/L | 0.0037387 | 0.508163 | mg/L | 0.0037387 | 0.74% |
| QC value within limits for Pb 220.353 Recovery = 101.63% | | | | | | | | |
| Sb 206.836† | 590.9 | 0.496217 | mg/L | 0.0026701 | 0.496217 | mg/L | 0.0026701 | 0.54% |
| QC value within limits for Sb 206.836 Recovery = 99.24% | | | | | | | | |
| Se 196.026† | 507.9 | 0.495160 | mg/L | 0.0016013 | 0.495160 | mg/L | 0.0016013 | 0.32% |
| QC value within limits for Se 196.026 Recovery = 99.03% | | | | | | | | |
| Sn 189.927† | 2108.1 | 0.512493 | mg/L | 0.0051063 | 0.512493 | mg/L | 0.0051063 | 1.00% |
| QC value within limits for Sn 189.927 Recovery = 102.50% | | | | | | | | |
| Ti 334.940† | 429477.8 | 0.495032 | mg/L | 0.0031741 | 0.495032 | mg/L | 0.0031741 | 0.64% |
| QC value within limits for Ti 334.940 Recovery = 99.01% | | | | | | | | |
| Tl 190.801† | 442.7 | 0.513149 | mg/L | 0.0073494 | 0.513149 | mg/L | 0.0073494 | 1.43% |
| QC value within limits for Tl 190.801 Recovery = 102.63% | | | | | | | | |
| V 290.880† | 80995.0 | 0.497916 | mg/L | 0.0038848 | 0.497916 | mg/L | 0.0038848 | 0.78% |
| QC value within limits for V 290.880 Recovery = 99.58% | | | | | | | | |
| Zn 206.200† | 25204.0 | 0.499524 | mg/L | 0.0033823 | 0.499524 | mg/L | 0.0033823 | 0.68% |
| QC value within limits for Zn 206.200 Recovery = 99.90% | | | | | | | | |
| Si 251.611† | 227394.1 | 4.96364 | mg/L | 0.036962 | 4.96364 | mg/L | 0.036962 | 0.74% |
| QC value within limits for Si 251.611 Recovery = 99.27% | | | | | | | | |
| B 249.772† | 54372.9 | 0.523947 | mg/L | 0.0067907 | 0.523947 | mg/L | 0.0067907 | 1.30% |
| QC value within limits for B 249.772 Recovery = 104.79% | | | | | | | | |
| Ce 413.764 | 27486.0 | 0.515877 | mg/L | 0.0026435 | 0.515877 | mg/L | 0.0026435 | 0.51% |
| QC value within limits for Ce 413.764 Recovery = 103.18% | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: RINSE
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 9/29/2021 10:42:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: RINSE

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 807383.3 | 99.7 | % | 0.60 | | | | 0.60% |
| Y 371.029 | 849682.3 | 100.0 | % | 0.77 | | | | 0.77% |
| Ag 328.068† | 95.9 | 0.0009651 | mg/L | 0.00018196 | 0.0009651 | mg/L | 0.00018196 | 18.85% |
| Al 308.215† | 182.6 | 0.0160926 | mg/L | 0.00136443 | 0.0160926 | mg/L | 0.00136443 | 8.48% |
| As 188.979† | 9.3 | 0.0102173 | mg/L | 0.00162501 | 0.0102173 | mg/L | 0.00162501 | 15.90% |
| Ba 233.527† | -69.4 | 0.0008492 | mg/L | 0.00013929 | 0.0008492 | mg/L | 0.00013929 | 16.40% |
| Be 313.107† | 511.7 | 0.0038128 | mg/L | 0.00002851 | 0.0038128 | mg/L | 0.00002851 | 0.75% |
| Ca 315.887† | -273.2 | 0.269584 | mg/L | 0.0007937 | 0.269584 | mg/L | 0.0007937 | 0.29% |
| Cd 228.802† | 25.6 | 0.0038187 | mg/L | 0.00018707 | 0.0038187 | mg/L | 0.00018707 | 4.90% |
| Co 228.616† | 20.6 | 0.0012250 | mg/L | 0.00094770 | 0.0012250 | mg/L | 0.00094770 | 77.36% |
| Cr 267.716† | -15.2 | 0.0015531 | mg/L | 0.00063041 | 0.0015531 | mg/L | 0.00063041 | 40.59% |
| Cu 327.393† | 38.8 | 0.0015956 | mg/L | 0.00014845 | 0.0015956 | mg/L | 0.00014845 | 9.30% |
| Fe 273.955† | -161.7 | 0.0028543 | mg/L | 0.00092913 | 0.0028543 | mg/L | 0.00092913 | 32.55% |
| K 404.721† | 328.0 | 1.90260 | mg/L | 1.004569 | 1.90260 | mg/L | 1.004569 | 52.80% |
| Mg 279.077† | -139.0 | -0.0037233 | mg/L | 0.00264695 | -0.0037233 | mg/L | 0.00264695 | 71.09% |
| Mn 257.610† | -12.1 | 0.0012993 | mg/L | 0.00007298 | 0.0012993 | mg/L | 0.00007298 | 5.62% |
| Mo 202.031† | 14.7 | 0.0030139 | mg/L | 0.00030309 | 0.0030139 | mg/L | 0.00030309 | 10.06% |
| Na 330.237† | 65.2 | 1.09833 | mg/L | 0.035240 | 1.09833 | mg/L | 0.035240 | 3.21% |
| Ni 231.604† | 56.1 | 0.0025785 | mg/L | 0.00028548 | 0.0025785 | mg/L | 0.00028548 | 11.07% |
| Pb 220.353† | 3.9 | 0.0028569 | mg/L | 0.00038994 | 0.0028569 | mg/L | 0.00038994 | 13.65% |
| Sb 206.836† | -5.4 | -0.0000600 | mg/L | 0.00189281 | -0.0000600 | mg/L | 0.00189281 | >999.9% |
| Se 196.026† | 2.9 | 0.0041123 | mg/L | 0.00811429 | 0.0041123 | mg/L | 0.00811429 | 197.32% |
| Sn 189.927† | 5.3 | 0.0012714 | mg/L | 0.00193863 | 0.0012714 | mg/L | 0.00193863 | 152.48% |
| Ti 334.940† | 138.9 | 0.0036023 | mg/L | 0.00003963 | 0.0036023 | mg/L | 0.00003963 | 1.10% |
| Tl 190.801† | 0.5 | 0.0037314 | mg/L | 0.00114424 | 0.0037314 | mg/L | 0.00114424 | 30.66% |
| V 290.880† | 23.1 | 0.0037460 | mg/L | 0.00064165 | 0.0037460 | mg/L | 0.00064165 | 17.13% |
| Zn 206.200† | 68.7 | 0.0043602 | mg/L | 0.00009541 | 0.0043602 | mg/L | 0.00009541 | 2.19% |
| Si 251.611† | 13.7 | -0.0929598 | mg/L | 0.00037163 | -0.0929598 | mg/L | 0.00037163 | 0.40% |
| B 249.772† | 1991.3 | 0.0254778 | mg/L | 0.00367140 | 0.0254778 | mg/L | 0.00367140 | 14.41% |
| Ce 413.764 | 75.9 | -0.0184344 | mg/L | 0.00272719 | -0.0184344 | mg/L | 0.00272719 | 14.79% |

Sequence No.: 11
Sample ID: ICSA V-352957
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 9/29/2021 10:46:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-352957

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 673342.2 | 83.1 | % | 0.53 | | | | 0.63% |
| Y 371.029 | 687365.9 | 80.9 | % | 0.45 | | | | 0.55% |
| Ag 328.068† | -3539.6 | -0.0068673 | mg/L | 0.00036353 | -0.0068673 | mg/L | 0.00036353 | 5.29% |
| Al 308.215† | 14982912.5 | 485.215 | mg/L | 6.1471 | 485.215 | mg/L | 6.1471 | 1.27% |
| QC value within limits for Al 308.215 Recovery = 97.04% | | | | | | | | |
| As 188.979† | 43.2 | 0.0014930 | mg/L | 0.00463947 | 0.0014930 | mg/L | 0.00463947 | 310.74% |
| Ba 233.527† | -271.3 | -0.0012411 | mg/L | 0.00010662 | -0.0012411 | mg/L | 0.00010662 | 8.59% |
| Be 313.107† | -2790.2 | 0.0028096 | mg/L | 0.00005577 | 0.0028096 | mg/L | 0.00005577 | 1.98% |
| Ca 315.887† | 67106909.1 | 486.572 | mg/L | 5.9701 | 486.572 | mg/L | 5.9701 | 1.23% |
| QC value within limits for Ca 315.887 Recovery = 97.31% | | | | | | | | |
| Cd 228.802† | -1820.6 | 0.0131343 | mg/L | 0.00033031 | 0.0131343 | mg/L | 0.00033031 | 2.51% |
| Co 228.616† | 161.5 | 0.0056282 | mg/L | 0.00050497 | 0.0056282 | mg/L | 0.00050497 | 8.97% |
| Cr 267.716† | -1606.5 | -0.0119499 | mg/L | 0.00026018 | -0.0119499 | mg/L | 0.00026018 | 2.18% |
| Cu 327.393† | -4531.9 | -0.0372862 | mg/L | 0.00152296 | -0.0372862 | mg/L | 0.00152296 | 4.08% |
| Fe 273.955† | 5715517.2 | 190.201 | mg/L | 0.1241 | 190.201 | mg/L | 0.1241 | 0.07% |
| QC value within limits for Fe 273.955 Recovery = 95.10% | | | | | | | | |
| K 404.721† | -129.9 | -1.44493 | mg/L | 1.040032 | -1.44493 | mg/L | 1.040032 | 71.98% |
| Mg 279.077† | 12354112.9 | 490.263 | mg/L | 5.7319 | 490.263 | mg/L | 5.7319 | 1.17% |
| QC value within limits for Mg 279.077 Recovery = 98.05% | | | | | | | | |
| Mn 257.610† | 1325.4 | 0.0029047 | mg/L | 0.00005410 | 0.0029047 | mg/L | 0.00005410 | 1.86% |
| Mo 202.031† | 262.9 | 0.0596092 | mg/L | 0.00061697 | 0.0596092 | mg/L | 0.00061697 | 1.04% |
| Na 330.237† | -1199.2 | 0.213789 | mg/L | 0.0874477 | 0.213789 | mg/L | 0.0874477 | 40.90% |
| Ni 231.604† | 542.3 | 0.0172937 | mg/L | 0.00071838 | 0.0172937 | mg/L | 0.00071838 | 4.15% |
| Pb 220.353† | -446.7 | 0.133898 | mg/L | 0.0038507 | 0.133898 | mg/L | 0.0038507 | 2.88% |
| Sb 206.836† | -395.7 | -0.158590 | mg/L | 0.0084738 | -0.158590 | mg/L | 0.0084738 | 5.34% |
| Se 196.026† | -110.5 | -0.169647 | mg/L | 0.0032302 | -0.169647 | mg/L | 0.0032302 | 1.90% |
| Sn 189.927† | -134.5 | -0.0327227 | mg/L | 0.00025022 | -0.0327227 | mg/L | 0.00025022 | 0.76% |
| Ti 334.940† | 4533.5 | 0.0086324 | mg/L | 0.00011864 | 0.0086324 | mg/L | 0.00011864 | 1.37% |
| Tl 190.801† | -13.3 | 0.0611263 | mg/L | 0.00871226 | 0.0611263 | mg/L | 0.00871226 | 14.25% |
| V 290.880† | -996.5 | -0.0024761 | mg/L | 0.00026914 | -0.0024761 | mg/L | 0.00026914 | 10.87% |
| Zn 206.200† | 450.8 | 0.0118881 | mg/L | 0.00011477 | 0.0118881 | mg/L | 0.00011477 | 0.97% |
| Si 251.611† | 1519.7 | 0.0262117 | mg/L | 0.00075796 | 0.0262117 | mg/L | 0.00075796 | 2.89% |
| B 249.772† | 83830.4 | 0.102775 | mg/L | 0.0164703 | 0.102775 | mg/L | 0.0164703 | 16.03% |
| Ce 413.764 | -295.8 | -0.0256797 | mg/L | 0.00118913 | -0.0256797 | mg/L | 0.00118913 | 4.63% |

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 10:52:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 749341.5 | 92.5 | % | 0.46 | | | | 0.50% |
| Y 371.029 | 771450.2 | 90.8 | % | 0.48 | | | | 0.53% |
| Ag 328.068† | 17427.9 | 0.0986764 | mg/L | 0.00063524 | 0.0986764 | mg/L | 0.00063524 | 0.64% |
| QC value within limits for Ag 328.068 Recovery = 98.68% | | | | | | | | |
| Al 308.215† | 154803.4 | 5.02332 | mg/L | 0.024570 | 5.02332 | mg/L | 0.024570 | 0.49% |
| QC value within limits for Al 308.215 Recovery = 100.47% | | | | | | | | |
| As 188.979† | 676.7 | 0.501023 | mg/L | 0.0029494 | 0.501023 | mg/L | 0.0029494 | 0.59% |
| QC value within limits for As 188.979 Recovery = 100.20% | | | | | | | | |
| Ba 233.527† | 47962.0 | 0.498113 | mg/L | 0.0023105 | 0.498113 | mg/L | 0.0023105 | 0.46% |
| QC value within limits for Ba 233.527 Recovery = 99.62% | | | | | | | | |
| Be 313.107† | 1611015.8 | 0.493108 | mg/L | 0.0014708 | 0.493108 | mg/L | 0.0014708 | 0.30% |
| QC value within limits for Be 313.107 Recovery = 98.62% | | | | | | | | |
| Ca 315.887† | 6797902.8 | 49.5336 | mg/L | 0.16029 | 49.5336 | mg/L | 0.16029 | 0.32% |
| QC value within limits for Ca 315.887 Recovery = 99.07% | | | | | | | | |
| Cd 228.802† | 24345.8 | 0.502764 | mg/L | 0.0020018 | 0.502764 | mg/L | 0.0020018 | 0.40% |
| QC value within limits for Cd 228.802 Recovery = 100.55% | | | | | | | | |
| Co 228.616† | 15933.0 | 0.500771 | mg/L | 0.0017175 | 0.500771 | mg/L | 0.0017175 | 0.34% |
| QC value within limits for Co 228.616 Recovery = 100.15% | | | | | | | | |
| Cr 267.716† | 58812.3 | 0.500740 | mg/L | 0.0033906 | 0.500740 | mg/L | 0.0033906 | 0.68% |
| QC value within limits for Cr 267.716 Recovery = 100.15% | | | | | | | | |
| Cu 327.393† | 58278.0 | 0.499403 | mg/L | 0.0025526 | 0.499403 | mg/L | 0.0025526 | 0.51% |
| QC value within limits for Cu 327.393 Recovery = 99.88% | | | | | | | | |
| Fe 273.955† | 150295.4 | 5.00956 | mg/L | 0.031170 | 5.00956 | mg/L | 0.031170 | 0.62% |
| QC value within limits for Fe 273.955 Recovery = 100.19% | | | | | | | | |
| K 404.721† | 6814.7 | 49.3214 | mg/L | 1.19561 | 49.3214 | mg/L | 1.19561 | 2.42% |
| QC value within limits for K 404.721 Recovery = 98.64% | | | | | | | | |
| Mg 279.077† | 1260126.2 | 50.0087 | mg/L | 0.12805 | 50.0087 | mg/L | 0.12805 | 0.26% |
| QC value within limits for Mg 279.077 Recovery = 100.02% | | | | | | | | |
| Mn 257.610† | 415197.1 | 0.499699 | mg/L | 0.0029228 | 0.499699 | mg/L | 0.0029228 | 0.58% |
| QC value within limits for Mn 257.610 Recovery = 99.94% | | | | | | | | |
| Mo 202.031† | 6506.8 | 0.502616 | mg/L | 0.0013442 | 0.502616 | mg/L | 0.0013442 | 0.27% |
| QC value within limits for Mo 202.031 Recovery = 100.52% | | | | | | | | |
| Na 330.237† | 66757.1 | 47.7524 | mg/L | 0.21955 | 47.7524 | mg/L | 0.21955 | 0.46% |
| QC value within limits for Na 330.237 Recovery = 95.50% | | | | | | | | |
| Ni 231.604† | 16559.9 | 0.502086 | mg/L | 0.0021825 | 0.502086 | mg/L | 0.0021825 | 0.43% |
| QC value within limits for Ni 231.604 Recovery = 100.42% | | | | | | | | |
| Pb 220.353† | 1987.6 | 0.503252 | mg/L | 0.0041387 | 0.503252 | mg/L | 0.0041387 | 0.82% |
| QC value within limits for Pb 220.353 Recovery = 100.65% | | | | | | | | |
| Sb 206.836† | 582.1 | 0.488971 | mg/L | 0.0025086 | 0.488971 | mg/L | 0.0025086 | 0.51% |
| QC value within limits for Sb 206.836 Recovery = 97.79% | | | | | | | | |
| Se 196.026† | 503.2 | 0.490576 | mg/L | 0.0105182 | 0.490576 | mg/L | 0.0105182 | 2.14% |
| QC value within limits for Se 196.026 Recovery = 98.12% | | | | | | | | |
| Sn 189.927† | 2064.9 | 0.502006 | mg/L | 0.0011545 | 0.502006 | mg/L | 0.0011545 | 0.23% |
| QC value within limits for Sn 189.927 Recovery = 100.40% | | | | | | | | |
| Ti 334.940† | 429253.9 | 0.494776 | mg/L | 0.0025318 | 0.494776 | mg/L | 0.0025318 | 0.51% |
| QC value within limits for Ti 334.940 Recovery = 98.96% | | | | | | | | |
| Tl 190.801† | 437.1 | 0.506738 | mg/L | 0.0040421 | 0.506738 | mg/L | 0.0040421 | 0.80% |
| QC value within limits for Tl 190.801 Recovery = 101.35% | | | | | | | | |
| V 290.880† | 80852.6 | 0.497047 | mg/L | 0.0026579 | 0.497047 | mg/L | 0.0026579 | 0.53% |
| QC value within limits for V 290.880 Recovery = 99.41% | | | | | | | | |
| Zn 206.200† | 24949.7 | 0.494516 | mg/L | 0.0015032 | 0.494516 | mg/L | 0.0015032 | 0.30% |
| QC value within limits for Zn 206.200 Recovery = 98.90% | | | | | | | | |
| Si 251.611† | 223322.7 | 4.87312 | mg/L | 0.028300 | 4.87312 | mg/L | 0.028300 | 0.58% |
| QC value within limits for Si 251.611 Recovery = 97.46% | | | | | | | | |
| B 249.772† | 47712.7 | 0.458204 | mg/L | 0.0081337 | 0.458204 | mg/L | 0.0081337 | 1.78% |
| QC value within limits for B 249.772 Recovery = 91.64% | | | | | | | | |
| Ce 413.764 | 26969.7 | 0.505811 | mg/L | 0.0033001 | 0.505811 | mg/L | 0.0033001 | 0.65% |
| QC value within limits for Ce 413.764 Recovery = 101.16% | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 10:56:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 774687.1 | 95.6 | % | 5.07 | | | | 5.31% |
| Y 371.029 | 817457.2 | 96.2 | % | 5.04 | | | | 5.24% |
| Ag 328.068† | 123.2 | 0.0011168 | mg/L | 0.00006562 | 0.0011168 | mg/L | 0.00006562 | 5.88% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 591.3 | 0.0293294 | mg/L | 0.02043625 | 0.0293294 | mg/L | 0.02043625 | 69.68% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 10.2 | 0.0108410 | mg/L | 0.00404042 | 0.0108410 | mg/L | 0.00404042 | 37.27% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -116.9 | 0.0003572 | mg/L | 0.00079626 | 0.0003572 | mg/L | 0.00079626 | 222.91% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 626.6 | 0.0038477 | mg/L | 0.00006462 | 0.0038477 | mg/L | 0.00006462 | 1.68% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 876.7 | 0.277917 | mg/L | 0.0017000 | 0.277917 | mg/L | 0.0017000 | 0.61% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 23.9 | 0.0038012 | mg/L | 0.00023243 | 0.0038012 | mg/L | 0.00023243 | 6.11% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 24.4 | 0.0013430 | mg/L | 0.00035482 | 0.0013430 | mg/L | 0.00035482 | 26.42% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -77.0 | 0.0010285 | mg/L | 0.00039876 | 0.0010285 | mg/L | 0.00039876 | 38.77% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -143.7 | 0.0000358 | mg/L | 0.00350043 | 0.0000358 | mg/L | 0.00350043 | >999.9% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -157.1 | 0.0030085 | mg/L | 0.00120355 | 0.0030085 | mg/L | 0.00120355 | 40.01% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 409.2 | 2.49575 | mg/L | 3.644538 | 2.49575 | mg/L | 3.644538 | 146.03% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -231.3 | -0.0073857 | mg/L | 0.00535342 | -0.0073857 | mg/L | 0.00535342 | 72.48% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 12.1 | 0.0013283 | mg/L | 0.00008785 | 0.0013283 | mg/L | 0.00008785 | 6.61% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 24.4 | 0.0037631 | mg/L | 0.00082401 | 0.0037631 | mg/L | 0.00082401 | 21.90% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | -51.9 | 1.01640 | mg/L | 0.156769 | 1.01640 | mg/L | 0.156769 | 15.42% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 116.3 | 0.0043997 | mg/L | 0.00207664 | 0.0043997 | mg/L | 0.00207664 | 47.20% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -17.3 | -0.0024315 | mg/L | 0.00604942 | -0.0024315 | mg/L | 0.00604942 | 248.80% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -21.1 | -0.0129742 | mg/L | 0.01399397 | -0.0129742 | mg/L | 0.01399397 | 107.86% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -0.4 | 0.0009022 | mg/L | 0.00396143 | 0.0009022 | mg/L | 0.00396143 | 439.08% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -1.2 | -0.0003187 | mg/L | 0.00036433 | -0.0003187 | mg/L | 0.00036433 | 114.30% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 197.4 | 0.0036693 | mg/L | 0.00016602 | 0.0036693 | mg/L | 0.00016602 | 4.52% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | 0.1 | 0.0032235 | mg/L | 0.00102657 | 0.0032235 | mg/L | 0.00102657 | 31.85% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 185.9 | 0.0047398 | mg/L | 0.00155771 | 0.0047398 | mg/L | 0.00155771 | 32.86% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 28.8 | 0.0035743 | mg/L | 0.00017232 | 0.0035743 | mg/L | 0.00017232 | 4.82% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 105.0 | -0.0909306 | mg/L | 0.00192853 | -0.0909306 | mg/L | 0.00192853 | 2.12% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -179.1 | 0.0040212 | mg/L | 0.00171711 | 0.0040212 | mg/L | 0.00171711 | 42.70% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | 0.4 | -0.0199055 | mg/L | 0.00155441 | -0.0199055 | mg/L | 0.00155441 | 7.81% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: AD26083-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 9/29/2021 11:00:24 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-002

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 688265.1 | 85.0 | % | 0.53 | | | | 0.63% |
| Y 371.029 | 699289.5 | 82.3 | % | 0.47 | | | | 0.57% |
| Ag 328.068† | 138.9 | 0.0012625 | mg/L | 0.00027830 | 0.0012625 | mg/L | 0.00027830 | 22.04% |
| Al 308.215† | 13006.5 | 0.431381 | mg/L | 0.0134672 | 0.431381 | mg/L | 0.0134672 | 3.12% |
| As 188.979† | 7.7 | 0.0090010 | mg/L | 0.00285103 | 0.0090010 | mg/L | 0.00285103 | 31.67% |
| Ba 233.527† | 27387.4 | 0.285106 | mg/L | 0.0016959 | 0.285106 | mg/L | 0.0016959 | 0.59% |
| Be 313.107† | 316.6 | 0.0037535 | mg/L | 0.00005533 | 0.0037535 | mg/L | 0.00005533 | 1.47% |
| Ca 315.887† | 26474477.3 | 192.123 | mg/L | 1.6087 | 192.123 | mg/L | 1.6087 | 0.84% |
| Cd 228.802† | 1.2 | 0.0043269 | mg/L | 0.00021910 | 0.0043269 | mg/L | 0.00021910 | 5.06% |
| Co 228.616† | 453.0 | 0.0155569 | mg/L | 0.00024060 | 0.0155569 | mg/L | 0.00024060 | 1.55% |
| Cr 267.716† | 200.7 | 0.0033850 | mg/L | 0.00027978 | 0.0033850 | mg/L | 0.00027978 | 8.27% |
| Cu 327.393† | -1449.6 | -0.0096807 | mg/L | 0.00097839 | -0.0096807 | mg/L | 0.00097839 | 10.11% |
| Fe 273.955† | 27265.5 | 0.915541 | mg/L | 0.0006440 | 0.915541 | mg/L | 0.0006440 | 0.07% |
| K 404.721† | 1385.6 | 9.63335 | mg/L | 0.840216 | 9.63335 | mg/L | 0.840216 | 8.72% |
| Mg 279.077† | 1898032.6 | 75.3233 | mg/L | 0.14427 | 75.3233 | mg/L | 0.14427 | 0.19% |
| Mn 257.610† | 4509355.5 | 5.41416 | mg/L | 0.006147 | 5.41416 | mg/L | 0.006147 | 0.11% |
| Mo 202.031† | 159.8 | 0.0142023 | mg/L | 0.00092035 | 0.0142023 | mg/L | 0.00092035 | 6.48% |
| Na 330.237† | 1367995.1 | 958.029 | mg/L | 3.6622 | 958.029 | mg/L | 3.6622 | 0.38% |
| Ni 231.604† | 2727.7 | 0.0834368 | mg/L | 0.00097581 | 0.0834368 | mg/L | 0.00097581 | 1.17% |
| Pb 220.353† | -56.3 | -0.0094110 | mg/L | 0.00024450 | -0.0094110 | mg/L | 0.00024450 | 2.60% |
| Sb 206.836† | -70.3 | -0.0532447 | mg/L | 0.00403937 | -0.0532447 | mg/L | 0.00403937 | 7.59% |
| Se 196.026† | -21.3 | -0.0194450 | mg/L | 0.00716161 | -0.0194450 | mg/L | 0.00716161 | 36.83% |
| Sn 189.927† | -5.6 | -0.0013836 | mg/L | 0.00054928 | -0.0013836 | mg/L | 0.00054928 | 39.70% |
| Ti 334.940† | 15465.8 | 0.0211457 | mg/L | 0.00147396 | 0.0211457 | mg/L | 0.00147396 | 6.97% |
| Tl 190.801† | -11.7 | 0.0029112 | mg/L | 0.00346169 | 0.0029112 | mg/L | 0.00346169 | 118.91% |
| V 290.880† | -244.6 | 0.0021124 | mg/L | 0.00065203 | 0.0021124 | mg/L | 0.00065203 | 30.87% |
| Zn 206.200† | 1559.3 | 0.0337241 | mg/L | 0.00038338 | 0.0337241 | mg/L | 0.00038338 | 1.14% |
| Si 251.611† | 637107.7 | 14.0691 | mg/L | 0.03221 | 14.0691 | mg/L | 0.03221 | 0.23% |
| B 249.772† | 95032.0 | 0.941739 | mg/L | 0.0122414 | 0.941739 | mg/L | 0.0122414 | 1.30% |
| Ce 413.764 | -169.9 | -0.0232250 | mg/L | 0.00099168 | -0.0232250 | mg/L | 0.00099168 | 4.27% |

Sequence No.: 15
Sample ID: AD26083-005
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 9/29/2021 11:04:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-005

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 804140.6 | 99.3 | % | 1.51 | | | | 1.52% |
| Y 371.029 | 846253.6 | 99.6 | % | 1.43 | | | | 1.43% |
| Ag 328.068† | 99.7 | 0.0009884 | mg/L | 0.00025869 | 0.0009884 | mg/L | 0.00025869 | 26.17% |
| Al 308.215† | 723.7 | 0.0336166 | mg/L | 0.00364517 | 0.0336166 | mg/L | 0.00364517 | 10.84% |
| As 188.979† | 3.5 | 0.0059609 | mg/L | 0.00123616 | 0.0059609 | mg/L | 0.00123616 | 20.74% |
| Ba 233.527† | -37.8 | 0.0011760 | mg/L | 0.00023272 | 0.0011760 | mg/L | 0.00023272 | 19.79% |
| Be 313.107† | 529.2 | 0.0038181 | mg/L | 0.00001494 | 0.0038181 | mg/L | 0.00001494 | 0.39% |
| Ca 315.887† | 11077.1 | 0.351836 | mg/L | 0.0039559 | 0.351836 | mg/L | 0.0039559 | 1.12% |
| Cd 228.802† | 11.0 | 0.0035338 | mg/L | 0.00018108 | 0.0035338 | mg/L | 0.00018108 | 5.12% |
| Co 228.616† | 22.9 | 0.0012983 | mg/L | 0.00005176 | 0.0012983 | mg/L | 0.00005176 | 3.99% |
| Cr 267.716† | -17.5 | 0.0015330 | mg/L | 0.00059024 | 0.0015330 | mg/L | 0.00059024 | 38.50% |
| Cu 327.393† | 87.3 | 0.0020113 | mg/L | 0.00065401 | 0.0020113 | mg/L | 0.00065401 | 32.52% |
| Fe 273.955† | 359.0 | 0.0201837 | mg/L | 0.00164865 | 0.0201837 | mg/L | 0.00164865 | 8.17% |
| K 404.721† | 420.5 | 2.57877 | mg/L | 0.970328 | 2.57877 | mg/L | 0.970328 | 37.63% |
| Mg 279.077† | 53.7 | 0.0039238 | mg/L | 0.00172501 | 0.0039238 | mg/L | 0.00172501 | 43.96% |
| Mn 257.610† | 599.8 | 0.0020337 | mg/L | 0.00005367 | 0.0020337 | mg/L | 0.00005367 | 2.64% |
| Mo 202.031† | 22.8 | 0.0036380 | mg/L | 0.00024208 | 0.0036380 | mg/L | 0.00024208 | 6.65% |
| Na 330.237† | 184.1 | 1.18148 | mg/L | 0.088512 | 1.18148 | mg/L | 0.088512 | 7.49% |
| Ni 231.604† | 82.3 | 0.0033718 | mg/L | 0.00096685 | 0.0033718 | mg/L | 0.00096685 | 28.67% |
| Pb 220.353† | -10.4 | -0.0007133 | mg/L | 0.00086850 | -0.0007133 | mg/L | 0.00086850 | 121.76% |
| Sb 206.836† | -11.4 | -0.0049624 | mg/L | 0.00349199 | -0.0049624 | mg/L | 0.00349199 | 70.37% |
| Se 196.026† | 2.5 | 0.0037189 | mg/L | 0.00389171 | 0.0037189 | mg/L | 0.00389171 | 104.65% |
| Sn 189.927† | 4.0 | 0.0009556 | mg/L | 0.00092097 | 0.0009556 | mg/L | 0.00092097 | 96.38% |
| Ti 334.940† | 552.9 | 0.0040761 | mg/L | 0.00010343 | 0.0040761 | mg/L | 0.00010343 | 2.54% |
| Tl 190.801† | -1.7 | 0.0012197 | mg/L | 0.00245447 | 0.0012197 | mg/L | 0.00245447 | 201.24% |
| V 290.880† | -72.7 | 0.0031612 | mg/L | 0.00041992 | 0.0031612 | mg/L | 0.00041992 | 13.28% |
| Zn 206.200† | 213.3 | 0.0072081 | mg/L | 0.00013971 | 0.0072081 | mg/L | 0.00013971 | 1.94% |
| Si 251.611† | 2177.8 | -0.0448481 | mg/L | 0.00213301 | -0.0448481 | mg/L | 0.00213301 | 4.76% |
| B 249.772† | 342.2 | 0.0091086 | mg/L | 0.00245744 | 0.0091086 | mg/L | 0.00245744 | 26.98% |
| Ce 413.764 | 118.3 | -0.0176073 | mg/L | 0.00043690 | -0.0176073 | mg/L | 0.00043690 | 2.48% |

Sequence No.: 16
Sample ID: AD26083-008
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 9/29/2021 11:08:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-008

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 737854.6 | 91.1 | % | 0.16 | | | | 0.17% |
| Y 371.029 | 759535.1 | 89.4 | % | 0.17 | | | | 0.19% |
| Ag 328.068† | 107.0 | 0.0011379 | mg/L | 0.00028483 | 0.0011379 | mg/L | 0.00028483 | 25.03% |
| Al 308.215† | 5800.0 | 0.198007 | mg/L | 0.0068828 | 0.198007 | mg/L | 0.0068828 | 3.48% |
| As 188.979† | 5.4 | 0.0073275 | mg/L | 0.00408600 | 0.0073275 | mg/L | 0.00408600 | 55.76% |
| Ba 233.527† | 11801.2 | 0.123744 | mg/L | 0.0005697 | 0.123744 | mg/L | 0.0005697 | 0.46% |
| Be 313.107† | 316.7 | 0.0037535 | mg/L | 0.00004828 | 0.0037535 | mg/L | 0.00004828 | 1.29% |
| Ca 315.887† | 18687825.5 | 135.696 | mg/L | 0.8956 | 135.696 | mg/L | 0.8956 | 0.66% |
| Cd 228.802† | -4.2 | 0.0036919 | mg/L | 0.00043281 | 0.0036919 | mg/L | 0.00043281 | 11.72% |
| Co 228.616† | 39.2 | 0.0021367 | mg/L | 0.00029376 | 0.0021367 | mg/L | 0.00029376 | 13.75% |
| Cr 267.716† | -187.4 | 0.0000919 | mg/L | 0.00033513 | 0.0000919 | mg/L | 0.00033513 | 364.56% |
| Cu 327.393† | -1290.3 | -0.0088252 | mg/L | 0.00026452 | -0.0088252 | mg/L | 0.00026452 | 3.00% |
| Fe 273.955† | 50852.5 | 1.70044 | mg/L | 0.006012 | 1.70044 | mg/L | 0.006012 | 0.35% |
| K 404.721† | 1583.0 | 11.0764 | mg/L | 0.44841 | 11.0764 | mg/L | 0.44841 | 4.05% |
| Mg 279.077† | 1515861.9 | 60.1573 | mg/L | 0.02226 | 60.1573 | mg/L | 0.02226 | 0.04% |
| Mn 257.610† | 360838.9 | 0.434450 | mg/L | 0.0003654 | 0.434450 | mg/L | 0.0003654 | 0.08% |
| Mo 202.031† | 90.7 | 0.0088763 | mg/L | 0.00011380 | 0.0088763 | mg/L | 0.00011380 | 1.28% |
| Na 330.237† | 55594.1 | 39.9434 | mg/L | 0.10518 | 39.9434 | mg/L | 0.10518 | 0.26% |
| Ni 231.604† | 266.0 | 0.0089306 | mg/L | 0.00031051 | 0.0089306 | mg/L | 0.00031051 | 3.48% |
| Pb 220.353† | -44.4 | -0.0070635 | mg/L | 0.00153793 | -0.0070635 | mg/L | 0.00153793 | 21.77% |
| Sb 206.836† | -43.2 | -0.0310502 | mg/L | 0.00242308 | -0.0310502 | mg/L | 0.00242308 | 7.80% |
| Se 196.026† | -14.4 | -0.0126685 | mg/L | 0.00935449 | -0.0126685 | mg/L | 0.00935449 | 73.84% |
| Sn 189.927† | -21.6 | -0.0052824 | mg/L | 0.00240850 | -0.0052824 | mg/L | 0.00240850 | 45.60% |
| Ti 334.940† | 7344.6 | 0.0118501 | mg/L | 0.00035037 | 0.0118501 | mg/L | 0.00035037 | 2.96% |
| Tl 190.801† | -16.0 | -0.0059156 | mg/L | 0.00294076 | -0.0059156 | mg/L | 0.00294076 | 49.71% |
| V 290.880† | -938.3 | -0.0021211 | mg/L | 0.00066066 | -0.0021211 | mg/L | 0.00066066 | 31.15% |
| Zn 206.200† | 1130.6 | 0.0252784 | mg/L | 0.00019271 | 0.0252784 | mg/L | 0.00019271 | 0.76% |
| Si 251.611† | 714196.8 | 15.7830 | mg/L | 0.03013 | 15.7830 | mg/L | 0.03013 | 0.19% |
| B 249.772† | 8261.7 | 0.0809348 | mg/L | 0.00050943 | 0.0809348 | mg/L | 0.00050943 | 0.63% |
| Ce 413.764 | 9.1 | -0.0197373 | mg/L | 0.00212747 | -0.0197373 | mg/L | 0.00212747 | 10.78% |

Sequence No.: 17
Sample ID: AD26083-009
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 9/29/2021 11:12:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-009

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 734570.5 | 90.7 | % | 0.53 | | | | 0.58% |
| Y 371.029 | 756050.4 | 88.9 | % | 0.60 | | | | 0.68% |
| Ag 328.068† | 98.2 | 0.0010886 | mg/L | 0.00039953 | 0.0010886 | mg/L | 0.00039953 | 36.70% |
| Al 308.215† | 3977.7 | 0.138995 | mg/L | 0.0009799 | 0.138995 | mg/L | 0.0009799 | 0.70% |
| As 188.979† | 5.0 | 0.0070468 | mg/L | 0.00162476 | 0.0070468 | mg/L | 0.00162476 | 23.06% |
| Ba 233.527† | 11780.7 | 0.123532 | mg/L | 0.0010091 | 0.123532 | mg/L | 0.0010091 | 0.82% |
| Be 313.107† | 267.3 | 0.0037385 | mg/L | 0.00003007 | 0.0037385 | mg/L | 0.00003007 | 0.80% |
| Ca 315.887† | 18585335.2 | 134.953 | mg/L | 1.5050 | 134.953 | mg/L | 1.5050 | 1.12% |
| Cd 228.802† | 0.4 | 0.0037904 | mg/L | 0.00024474 | 0.0037904 | mg/L | 0.00024474 | 6.46% |
| Co 228.616† | 24.7 | 0.0016889 | mg/L | 0.00041762 | 0.0016889 | mg/L | 0.00041762 | 24.73% |
| Cr 267.716† | -202.5 | -0.0000362 | mg/L | 0.00019638 | -0.0000362 | mg/L | 0.00019638 | 542.87% |
| Cu 327.393† | -1294.4 | -0.0088681 | mg/L | 0.00034872 | -0.0088681 | mg/L | 0.00034872 | 3.93% |
| Fe 273.955† | 50475.4 | 1.68789 | mg/L | 0.000493 | 1.68789 | mg/L | 0.000493 | 0.03% |
| K 404.721† | 1774.9 | 12.4792 | mg/L | 1.34081 | 12.4792 | mg/L | 1.34081 | 10.74% |
| Mg 279.077† | 1513415.5 | 60.0602 | mg/L | 0.11346 | 60.0602 | mg/L | 0.11346 | 0.19% |
| Mn 257.610† | 354988.1 | 0.427427 | mg/L | 0.0003947 | 0.427427 | mg/L | 0.0003947 | 0.09% |
| Mo 202.031† | 94.4 | 0.0091507 | mg/L | 0.00079998 | 0.0091507 | mg/L | 0.00079998 | 8.74% |
| Na 330.237† | 58517.3 | 41.9883 | mg/L | 0.01763 | 41.9883 | mg/L | 0.01763 | 0.04% |
| Ni 231.604† | 295.7 | 0.0098284 | mg/L | 0.00063065 | 0.0098284 | mg/L | 0.00063065 | 6.42% |
| Pb 220.353† | -43.5 | -0.0068795 | mg/L | 0.00079356 | -0.0068795 | mg/L | 0.00079356 | 11.54% |
| Sb 206.836† | -43.6 | -0.0314302 | mg/L | 0.00306087 | -0.0314302 | mg/L | 0.00306087 | 9.74% |
| Se 196.026† | -7.0 | -0.0054891 | mg/L | 0.00851425 | -0.0054891 | mg/L | 0.00851425 | 155.11% |
| Sn 189.927† | -27.8 | -0.0067826 | mg/L | 0.00220842 | -0.0067826 | mg/L | 0.00220842 | 32.56% |
| Ti 334.940† | 4839.1 | 0.0089822 | mg/L | 0.00005702 | 0.0089822 | mg/L | 0.00005702 | 0.63% |
| Tl 190.801† | -12.7 | -0.0021000 | mg/L | 0.00557480 | -0.0021000 | mg/L | 0.00557480 | 265.47% |
| V 290.880† | -904.2 | -0.0019129 | mg/L | 0.00038530 | -0.0019129 | mg/L | 0.00038530 | 20.14% |
| Zn 206.200† | 1090.5 | 0.0244902 | mg/L | 0.00024597 | 0.0244902 | mg/L | 0.00024597 | 1.00% |
| Si 251.611† | 716119.3 | 15.8258 | mg/L | 0.01678 | 15.8258 | mg/L | 0.01678 | 0.11% |
| B 249.772† | 9103.8 | 0.0893072 | mg/L | 0.00100418 | 0.0893072 | mg/L | 0.00100418 | 1.12% |
| Ce 413.764 | 24.8 | -0.0194309 | mg/L | 0.00153125 | -0.0194309 | mg/L | 0.00153125 | 7.88% |

Sequence No.: 18
Sample ID: AD26083-011
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 9/29/2021 11:17:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-011

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Calib Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 755550.7 | 93.3 | % | 0.37 | | | | 0.40% |
| Y 371.029 | 782215.6 | 92.0 | % | 0.42 | | | | 0.45% |
| Ag 328.068† | 107.7 | 0.0010468 | mg/L | 0.00041485 | 0.0010468 | mg/L | 0.00041485 | 39.63% |
| Al 308.215† | 1373.2 | 0.0546508 | mg/L | 0.00062474 | 0.0546508 | mg/L | 0.00062474 | 1.14% |
| As 188.979† | 9.9 | 0.0106692 | mg/L | 0.00094394 | 0.0106692 | mg/L | 0.00094394 | 8.85% |
| Ba 233.527† | 29275.8 | 0.304657 | mg/L | 0.0004107 | 0.304657 | mg/L | 0.0004107 | 0.13% |
| Be 313.107† | 457.5 | 0.0037963 | mg/L | 0.00001668 | 0.0037963 | mg/L | 0.00001668 | 0.44% |
| Ca 315.887† | 10677563.2 | 77.6482 | mg/L | 0.28285 | 77.6482 | mg/L | 0.28285 | 0.36% |
| Cd 228.802† | 4.2 | 0.0034775 | mg/L | 0.00007499 | 0.0034775 | mg/L | 0.00007499 | 2.16% |
| Co 228.616† | 6.9 | 0.0016544 | mg/L | 0.00007190 | 0.0016544 | mg/L | 0.00007190 | 4.35% |
| Cr 267.716† | -82.9 | 0.0009785 | mg/L | 0.00002592 | 0.0009785 | mg/L | 0.00002592 | 2.65% |
| Cu 327.393† | -764.7 | -0.0045195 | mg/L | 0.00022541 | -0.0045195 | mg/L | 0.00022541 | 4.99% |
| Fe 273.955† | 7105.3 | 0.244676 | mg/L | 0.0015776 | 0.244676 | mg/L | 0.0015776 | 0.64% |
| K 404.721† | 842.8 | 5.66590 | mg/L | 0.684913 | 5.66590 | mg/L | 0.684913 | 12.09% |
| Mg 279.077† | 397383.1 | 15.7715 | mg/L | 0.00690 | 15.7715 | mg/L | 0.00690 | 0.04% |
| Mn 257.610† | 513161.3 | 0.617291 | mg/L | 0.0004289 | 0.617291 | mg/L | 0.0004289 | 0.07% |
| Mo 202.031† | 77.9 | 0.0078793 | mg/L | 0.00015985 | 0.0078793 | mg/L | 0.00015985 | 2.03% |
| Na 330.237† | 27563.4 | 20.3346 | mg/L | 0.14569 | 20.3346 | mg/L | 0.14569 | 0.72% |
| Ni 231.604† | 170.6 | 0.0060432 | mg/L | 0.00039907 | 0.0060432 | mg/L | 0.00039907 | 6.60% |
| Pb 220.353† | -25.4 | -0.0039192 | mg/L | 0.00137087 | -0.0039192 | mg/L | 0.00137087 | 34.98% |
| Sb 206.836† | -31.4 | -0.0214112 | mg/L | 0.00350752 | -0.0214112 | mg/L | 0.00350752 | 16.38% |
| Se 196.026† | -9.2 | -0.0076838 | mg/L | 0.00796791 | -0.0076838 | mg/L | 0.00796791 | 103.70% |
| Sn 189.927† | -25.2 | -0.0061539 | mg/L | 0.00034162 | -0.0061539 | mg/L | 0.00034162 | 5.55% |
| Ti 334.940† | 1165.8 | 0.0047777 | mg/L | 0.00003291 | 0.0047777 | mg/L | 0.00003291 | 0.69% |
| Tl 190.801† | -9.5 | -0.0024213 | mg/L | 0.00432383 | -0.0024213 | mg/L | 0.00432383 | 178.58% |
| V 290.880† | -229.3 | 0.0022061 | mg/L | 0.00022246 | 0.0022061 | mg/L | 0.00022246 | 10.08% |
| Zn 206.200† | 45.6 | 0.0039056 | mg/L | 0.00010147 | 0.0039056 | mg/L | 0.00010147 | 2.60% |
| Si 251.611† | 430436.6 | 9.47481 | mg/L | 0.011544 | 9.47481 | mg/L | 0.011544 | 0.12% |
| B 249.772† | 845.3 | 0.0132188 | mg/L | 0.00051172 | 0.0132188 | mg/L | 0.00051172 | 3.87% |
| Ce 413.764 | 29.6 | -0.0193372 | mg/L | 0.00026172 | -0.0193372 | mg/L | 0.00026172 | 1.35% |

Sequence No.: 19
Sample ID: AD26083-018
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 9/29/2021 11:21:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-018

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 752464.9 | 92.9 | % | 0.49 | | | | 0.53% |
| Y 371.029 | 777259.7 | 91.4 | % | 0.46 | | | | 0.50% |
| Ag 328.068† | 143.9 | 0.0015135 | mg/L | 0.00026305 | 0.0015135 | mg/L | 0.00026305 | 17.38% |
| Al 308.215† | 49295.6 | 1.60656 | mg/L | 0.001403 | 1.60656 | mg/L | 0.001403 | 0.09% |
| As 188.979† | 19.3 | 0.0174481 | mg/L | 0.00062637 | 0.0174481 | mg/L | 0.00062637 | 3.59% |
| Ba 233.527† | 11139.7 | 0.116896 | mg/L | 0.0006904 | 0.116896 | mg/L | 0.0006904 | 0.59% |
| Be 313.107† | 1384.7 | 0.0040780 | mg/L | 0.00001872 | 0.0040780 | mg/L | 0.00001872 | 0.46% |
| Ca 315.887† | 1840108.4 | 13.6062 | mg/L | 0.01298 | 13.6062 | mg/L | 0.01298 | 0.10% |
| Cd 228.802† | -41.9 | 0.0037890 | mg/L | 0.00021452 | 0.0037890 | mg/L | 0.00021452 | 5.66% |
| Co 228.616† | 133.3 | 0.0048776 | mg/L | 0.00030968 | 0.0048776 | mg/L | 0.00030968 | 6.35% |
| Cr 267.716† | 899.7 | 0.0093166 | mg/L | 0.00057004 | 0.0093166 | mg/L | 0.00057004 | 6.12% |
| Cu 327.393† | 7939.6 | 0.0691047 | mg/L | 0.00016402 | 0.0691047 | mg/L | 0.00016402 | 0.24% |
| Fe 273.955† | 126008.8 | 4.20139 | mg/L | 0.002848 | 4.20139 | mg/L | 0.002848 | 0.07% |
| K 404.721† | 1234.6 | 8.53004 | mg/L | 0.570903 | 8.53004 | mg/L | 0.570903 | 6.69% |
| Mg 279.077† | 396558.3 | 15.7388 | mg/L | 0.03492 | 15.7388 | mg/L | 0.03492 | 0.22% |
| Mn 257.610† | 148511.1 | 0.179580 | mg/L | 0.0001759 | 0.179580 | mg/L | 0.0001759 | 0.10% |
| Mo 202.031† | 65.6 | 0.0070530 | mg/L | 0.00045040 | 0.0070530 | mg/L | 0.00045040 | 6.39% |
| Na 330.237† | 130428.8 | 92.2938 | mg/L | 0.14300 | 92.2938 | mg/L | 0.14300 | 0.15% |
| Ni 231.604† | 1121.5 | 0.0348218 | mg/L | 0.00110798 | 0.0348218 | mg/L | 0.00110798 | 3.18% |
| Pb 220.353† | 6.5 | 0.0048003 | mg/L | 0.00063782 | 0.0048003 | mg/L | 0.00063782 | 13.29% |
| Sb 206.836† | -42.0 | -0.0296571 | mg/L | 0.00666449 | -0.0296571 | mg/L | 0.00666449 | 22.47% |
| Se 196.026† | -6.4 | -0.0049426 | mg/L | 0.00292921 | -0.0049426 | mg/L | 0.00292921 | 59.26% |
| Sn 189.927† | -6.9 | -0.0016969 | mg/L | 0.00094841 | -0.0016969 | mg/L | 0.00094841 | 55.89% |
| Ti 334.940† | 73790.8 | 0.0879057 | mg/L | 0.00006330 | 0.0879057 | mg/L | 0.00006330 | 0.07% |
| Tl 190.801† | -8.5 | -0.0055434 | mg/L | 0.00010528 | -0.0055434 | mg/L | 0.00010528 | 1.90% |
| V 290.880† | 610.1 | 0.0073284 | mg/L | 0.00041555 | 0.0073284 | mg/L | 0.00041555 | 5.67% |
| Zn 206.200† | 3521.0 | 0.0723699 | mg/L | 0.00053264 | 0.0723699 | mg/L | 0.00053264 | 0.74% |
| Si 251.611† | 548318.9 | 12.0969 | mg/L | 0.01393 | 12.0969 | mg/L | 0.01393 | 0.12% |
| B 249.772† | 14771.8 | 0.135670 | mg/L | 0.0021337 | 0.135670 | mg/L | 0.0021337 | 1.57% |
| Ce 413.764 | 289.7 | -0.0142665 | mg/L | 0.00061743 | -0.0142665 | mg/L | 0.00061743 | 4.33% |

Sequence No.: 20
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 11:25:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 743710.9 | 91.8 | % | 0.46 | | | | 0.50% |
| Y 371.029 | 766794.9 | 90.2 | % | 0.48 | | | | 0.53% |
| Ag 328.068† | 17493.1 | 0.0990290 | mg/L | 0.00033321 | 0.0990290 | mg/L | 0.00033321 | 0.34% |
| QC value within limits for Ag 328.068 Recovery = 99.03% | | | | | | | | |
| Al 308.215† | 154096.8 | 5.00043 | mg/L | 0.008375 | 5.00043 | mg/L | 0.008375 | 0.17% |
| QC value within limits for Al 308.215 Recovery = 100.01% | | | | | | | | |
| As 188.979† | 681.9 | 0.504809 | mg/L | 0.0051730 | 0.504809 | mg/L | 0.0051730 | 1.02% |
| QC value within limits for As 188.979 Recovery = 100.96% | | | | | | | | |
| Ba 233.527† | 47397.3 | 0.492267 | mg/L | 0.0016542 | 0.492267 | mg/L | 0.0016542 | 0.34% |
| QC value within limits for Ba 233.527 Recovery = 98.45% | | | | | | | | |
| Be 313.107† | 1604103.2 | 0.491008 | mg/L | 0.0005750 | 0.491008 | mg/L | 0.0005750 | 0.12% |
| QC value within limits for Be 313.107 Recovery = 98.20% | | | | | | | | |
| Ca 315.887† | 6810464.0 | 49.6247 | mg/L | 0.05534 | 49.6247 | mg/L | 0.05534 | 0.11% |
| QC value within limits for Ca 315.887 Recovery = 99.25% | | | | | | | | |
| Cd 228.802† | 24351.2 | 0.502830 | mg/L | 0.0023632 | 0.502830 | mg/L | 0.0023632 | 0.47% |
| QC value within limits for Cd 228.802 Recovery = 100.57% | | | | | | | | |
| Co 228.616† | 15804.2 | 0.496725 | mg/L | 0.0031467 | 0.496725 | mg/L | 0.0031467 | 0.63% |
| QC value within limits for Co 228.616 Recovery = 99.35% | | | | | | | | |
| Cr 267.716† | 58304.9 | 0.496434 | mg/L | 0.0009258 | 0.496434 | mg/L | 0.0009258 | 0.19% |
| QC value within limits for Cr 267.716 Recovery = 99.29% | | | | | | | | |
| Cu 327.393† | 57666.9 | 0.494179 | mg/L | 0.0014792 | 0.494179 | mg/L | 0.0014792 | 0.30% |
| QC value within limits for Cu 327.393 Recovery = 98.84% | | | | | | | | |
| Fe 273.955† | 148632.1 | 4.95421 | mg/L | 0.013625 | 4.95421 | mg/L | 0.013625 | 0.28% |
| QC value within limits for Fe 273.955 Recovery = 99.08% | | | | | | | | |
| K 404.721† | 7143.5 | 51.7252 | mg/L | 1.38543 | 51.7252 | mg/L | 1.38543 | 2.68% |
| QC value within limits for K 404.721 Recovery = 103.45% | | | | | | | | |
| Mg 279.077† | 1263668.6 | 50.1492 | mg/L | 0.07160 | 50.1492 | mg/L | 0.07160 | 0.14% |
| QC value within limits for Mg 279.077 Recovery = 100.30% | | | | | | | | |
| Mn 257.610† | 410997.5 | 0.494658 | mg/L | 0.0012933 | 0.494658 | mg/L | 0.0012933 | 0.26% |
| QC value within limits for Mn 257.610 Recovery = 98.93% | | | | | | | | |
| Mo 202.031† | 6431.6 | 0.496828 | mg/L | 0.0032760 | 0.496828 | mg/L | 0.0032760 | 0.66% |
| QC value within limits for Mo 202.031 Recovery = 99.37% | | | | | | | | |
| Na 330.237† | 67499.0 | 48.2714 | mg/L | 0.17110 | 48.2714 | mg/L | 0.17110 | 0.35% |
| QC value within limits for Na 330.237 Recovery = 96.54% | | | | | | | | |
| Ni 231.604† | 16451.4 | 0.498804 | mg/L | 0.0027643 | 0.498804 | mg/L | 0.0027643 | 0.55% |
| QC value within limits for Ni 231.604 Recovery = 99.76% | | | | | | | | |
| Pb 220.353† | 1979.7 | 0.501271 | mg/L | 0.0040080 | 0.501271 | mg/L | 0.0040080 | 0.80% |
| QC value within limits for Pb 220.353 Recovery = 100.25% | | | | | | | | |
| Sb 206.836† | 567.1 | 0.476597 | mg/L | 0.0061477 | 0.476597 | mg/L | 0.0061477 | 1.29% |
| QC value within limits for Sb 206.836 Recovery = 95.32% | | | | | | | | |
| Se 196.026† | 495.5 | 0.483082 | mg/L | 0.0005619 | 0.483082 | mg/L | 0.0005619 | 0.12% |
| QC value within limits for Se 196.026 Recovery = 96.62% | | | | | | | | |
| Sn 189.927† | 2055.2 | 0.499651 | mg/L | 0.0039273 | 0.499651 | mg/L | 0.0039273 | 0.79% |
| QC value within limits for Sn 189.927 Recovery = 99.93% | | | | | | | | |
| Ti 334.940† | 424724.6 | 0.489591 | mg/L | 0.0009158 | 0.489591 | mg/L | 0.0009158 | 0.19% |
| QC value within limits for Ti 334.940 Recovery = 97.92% | | | | | | | | |
| Tl 190.801† | 435.4 | 0.504689 | mg/L | 0.0059238 | 0.504689 | mg/L | 0.0059238 | 1.17% |
| QC value within limits for Tl 190.801 Recovery = 100.94% | | | | | | | | |
| V 290.880† | 80136.1 | 0.492674 | mg/L | 0.0013038 | 0.492674 | mg/L | 0.0013038 | 0.26% |
| QC value within limits for V 290.880 Recovery = 98.53% | | | | | | | | |
| Zn 206.200† | 24800.9 | 0.491584 | mg/L | 0.0023353 | 0.491584 | mg/L | 0.0023353 | 0.48% |
| QC value within limits for Zn 206.200 Recovery = 98.32% | | | | | | | | |
| Si 251.611† | 222351.3 | 4.85151 | mg/L | 0.009426 | 4.85151 | mg/L | 0.009426 | 0.19% |
| QC value within limits for Si 251.611 Recovery = 97.03% | | | | | | | | |
| B 249.772† | 46596.9 | 0.447386 | mg/L | 0.0053758 | 0.447386 | mg/L | 0.0053758 | 1.20% |
| QC value less than the lower limit for B 249.772 Recovery = 89.48% | | | | | | | | |
| Ce 413.764 | 26389.7 | 0.494506 | mg/L | 0.0036720 | 0.494506 | mg/L | 0.0036720 | 0.74% |
| QC value within limits for Ce 413.764 Recovery = 98.90% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 21 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 11:29:16 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 790468.4 | 97.6 | % | 0.68 | | | | 0.70% |
| Y 371.029 | 835063.2 | 98.2 | % | 0.45 | | | | 0.46% |
| Ag 328.068† | 122.2 | 0.0011126 | mg/L | 0.00022920 | 0.0011126 | mg/L | 0.00022920 | 20.60% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 224.0 | 0.0174353 | mg/L | 0.00274261 | 0.0174353 | mg/L | 0.00274261 | 15.73% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 9.9 | 0.0106119 | mg/L | 0.00216722 | 0.0106119 | mg/L | 0.00216722 | 20.42% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -132.0 | 0.0002002 | mg/L | 0.00013706 | 0.0002002 | mg/L | 0.00013706 | 68.47% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 884.2 | 0.0039260 | mg/L | 0.00007545 | 0.0039260 | mg/L | 0.00007545 | 1.92% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 814.6 | 0.277467 | mg/L | 0.0005658 | 0.277467 | mg/L | 0.0005658 | 0.20% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 29.8 | 0.0039210 | mg/L | 0.00030520 | 0.0039210 | mg/L | 0.00030520 | 7.78% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 48.1 | 0.0020853 | mg/L | 0.00035111 | 0.0020853 | mg/L | 0.00035111 | 16.84% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -72.1 | 0.0010704 | mg/L | 0.00006690 | 0.0010704 | mg/L | 0.00006690 | 6.25% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -10.7 | 0.0011729 | mg/L | 0.00096615 | 0.0011729 | mg/L | 0.00096615 | 82.38% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -158.6 | 0.0029608 | mg/L | 0.00175094 | 0.0029608 | mg/L | 0.00175094 | 59.14% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 577.1 | 3.72335 | mg/L | 0.492057 | 3.72335 | mg/L | 0.492057 | 13.22% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -160.8 | -0.0045881 | mg/L | 0.00171883 | -0.0045881 | mg/L | 0.00171883 | 37.46% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 10.3 | 0.0013261 | mg/L | 0.00002606 | 0.0013261 | mg/L | 0.00002606 | 1.97% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 23.5 | 0.0036885 | mg/L | 0.00030088 | 0.0036885 | mg/L | 0.00030088 | 8.16% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | -110.1 | 0.975710 | mg/L | 0.0688928 | 0.975710 | mg/L | 0.0688928 | 7.06% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 118.2 | 0.0044569 | mg/L | 0.00029845 | 0.0044569 | mg/L | 0.00029845 | 6.70% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -17.6 | -0.0025156 | mg/L | 0.00142722 | -0.0025156 | mg/L | 0.00142722 | 56.74% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -20.7 | -0.0126636 | mg/L | 0.00261865 | -0.0126636 | mg/L | 0.00261865 | 20.68% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 4.9 | 0.0060978 | mg/L | 0.00863321 | 0.0060978 | mg/L | 0.00863321 | 141.58% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -7.1 | -0.0017398 | mg/L | 0.00124741 | -0.0017398 | mg/L | 0.00124741 | 71.70% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 77.2 | 0.0035317 | mg/L | 0.00005804 | 0.0035317 | mg/L | 0.00005804 | 1.64% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -3.0 | -0.0003327 | mg/L | 0.00216916 | -0.0003327 | mg/L | 0.00216916 | 651.99% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 5.7 | 0.0036402 | mg/L | 0.00096317 | 0.0036402 | mg/L | 0.00096317 | 26.46% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 10.5 | 0.0032131 | mg/L | 0.00003940 | 0.0032131 | mg/L | 0.00003940 | 1.23% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 289.7 | -0.0868267 | mg/L | 0.00127817 | -0.0868267 | mg/L | 0.00127817 | 1.47% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -585.6 | 0.0000032 | mg/L | 0.00135164 | 0.0000032 | mg/L | 0.00135164 | >999.9% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | 92.3 | -0.0181153 | mg/L | 0.00170602 | -0.0181153 | mg/L | 0.00170602 | 9.42% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 22
Sample ID: AD26083-026
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 9/29/2021 11:33:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-026

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 761691.4 | 94.0 | % | 0.15 | | | | 0.16% |
| Y 371.029 | 787726.2 | 92.7 | % | 0.09 | | | | 0.10% |
| Ag 328.068† | 142.3 | 0.0012366 | mg/L | 0.00071421 | 0.0012366 | mg/L | 0.00071421 | 57.76% |
| Al 308.215† | 4884.3 | 0.168353 | mg/L | 0.0018452 | 0.168353 | mg/L | 0.0018452 | 1.10% |
| As 188.979† | 8.3 | 0.0094598 | mg/L | 0.00352184 | 0.0094598 | mg/L | 0.00352184 | 37.23% |
| Ba 233.527† | 41677.6 | 0.433051 | mg/L | 0.0028794 | 0.433051 | mg/L | 0.0028794 | 0.66% |
| Be 313.107† | 729.1 | 0.0038788 | mg/L | 0.00004405 | 0.0038788 | mg/L | 0.00004405 | 1.14% |
| Ca 315.887† | 8281875.4 | 60.2875 | mg/L | 0.12368 | 60.2875 | mg/L | 0.12368 | 0.21% |
| Cd 228.802† | 35.6 | 0.0041882 | mg/L | 0.00042022 | 0.0041882 | mg/L | 0.00042022 | 10.03% |
| Co 228.616† | 6.0 | 0.0019837 | mg/L | 0.00036170 | 0.0019837 | mg/L | 0.00036170 | 18.23% |
| Cr 267.716† | -80.8 | 0.0009965 | mg/L | 0.00024823 | 0.0009965 | mg/L | 0.00024823 | 24.91% |
| Cu 327.393† | 300.7 | 0.0044069 | mg/L | 0.00034627 | 0.0044069 | mg/L | 0.00034627 | 7.86% |
| Fe 273.955† | 4728.4 | 0.165583 | mg/L | 0.0017008 | 0.165583 | mg/L | 0.0017008 | 1.03% |
| K 404.721† | 419.9 | 2.57437 | mg/L | 1.201694 | 2.57437 | mg/L | 1.201694 | 46.68% |
| Mg 279.077† | 331599.8 | 13.1610 | mg/L | 0.11309 | 13.1610 | mg/L | 0.11309 | 0.86% |
| Mn 257.610† | 63645.2 | 0.0777109 | mg/L | 0.00060579 | 0.0777109 | mg/L | 0.00060579 | 0.78% |
| Mo 202.031† | 141.8 | 0.0127978 | mg/L | 0.00011918 | 0.0127978 | mg/L | 0.00011918 | 0.93% |
| Na 330.237† | 56437.2 | 40.5332 | mg/L | 0.27438 | 40.5332 | mg/L | 0.27438 | 0.68% |
| Ni 231.604† | 495.3 | 0.0158716 | mg/L | 0.00051396 | 0.0158716 | mg/L | 0.00051396 | 3.24% |
| Pb 220.353† | -24.6 | -0.0037455 | mg/L | 0.00103824 | -0.0037455 | mg/L | 0.00103824 | 27.72% |
| Sb 206.836† | -29.8 | -0.0200002 | mg/L | 0.00290462 | -0.0200002 | mg/L | 0.00290462 | 14.52% |
| Se 196.026† | -5.0 | -0.0035559 | mg/L | 0.00473032 | -0.0035559 | mg/L | 0.00473032 | 133.03% |
| Sn 189.927† | -13.0 | -0.0031686 | mg/L | 0.00049804 | -0.0031686 | mg/L | 0.00049804 | 15.72% |
| Ti 334.940† | 3788.8 | 0.0077800 | mg/L | 0.00009545 | 0.0077800 | mg/L | 0.00009545 | 1.23% |
| Tl 190.801† | -10.6 | -0.0048494 | mg/L | 0.00084270 | -0.0048494 | mg/L | 0.00084270 | 17.38% |
| V 290.880† | -150.2 | 0.0026886 | mg/L | 0.00037983 | 0.0026886 | mg/L | 0.00037983 | 14.13% |
| Zn 206.200† | 3487.9 | 0.0717191 | mg/L | 0.00009080 | 0.0717191 | mg/L | 0.00009080 | 0.13% |
| Si 251.611† | 239541.8 | 5.23147 | mg/L | 0.041421 | 5.23147 | mg/L | 0.041421 | 0.79% |
| B 249.772† | 18924.7 | 0.192251 | mg/L | 0.0029893 | 0.192251 | mg/L | 0.0029893 | 1.55% |
| Ce 413.764 | 142.7 | -0.0171315 | mg/L | 0.00205847 | -0.0171315 | mg/L | 0.00205847 | 12.02% |

Sequence No.: 23
Sample ID: AD26083-027
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 9/29/2021 11:37:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-027

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 718006.8 | 88.6 | % | 1.35 | | | | 1.53% |
| Y 371.029 | 736811.4 | 86.7 | % | 1.18 | | | | 1.36% |
| Ag 328.068† | 236.7 | 0.0017798 | mg/L | 0.00033731 | 0.0017798 | mg/L | 0.00033731 | 18.95% |
| Al 308.215† | 5618.6 | 0.192132 | mg/L | 0.0079166 | 0.192132 | mg/L | 0.0079166 | 4.12% |
| As 188.979† | 29.6 | 0.0251375 | mg/L | 0.00193294 | 0.0251375 | mg/L | 0.00193294 | 7.69% |
| Ba 233.527† | 9101.4 | 0.0957935 | mg/L | 0.00114445 | 0.0957935 | mg/L | 0.00114445 | 1.19% |
| Be 313.107† | 1286.0 | 0.0040480 | mg/L | 0.00001890 | 0.0040480 | mg/L | 0.00001890 | 0.47% |
| Ca 315.887† | 848192.7 | 6.41813 | mg/L | 0.087719 | 6.41813 | mg/L | 0.087719 | 1.37% |
| Cd 228.802† | 14.3 | 0.0037960 | mg/L | 0.00025551 | 0.0037960 | mg/L | 0.00025551 | 6.73% |
| Co 228.616† | 39.6 | 0.0020706 | mg/L | 0.00017456 | 0.0020706 | mg/L | 0.00017456 | 8.43% |
| Cr 267.716† | 98.7 | 0.0025192 | mg/L | 0.00048599 | 0.0025192 | mg/L | 0.00048599 | 19.29% |
| Cu 327.393† | -543.8 | -0.0033899 | mg/L | 0.00045688 | -0.0033899 | mg/L | 0.00045688 | 13.48% |
| Fe 273.955† | 11899.5 | 0.404212 | mg/L | 0.0050527 | 0.404212 | mg/L | 0.0050527 | 1.25% |
| K 404.721† | 3135.2 | 22.4237 | mg/L | 1.05485 | 22.4237 | mg/L | 1.05485 | 4.70% |
| Mg 279.077† | 172807.5 | 6.85949 | mg/L | 0.097722 | 6.85949 | mg/L | 0.097722 | 1.42% |
| Mn 257.610† | 39133.0 | 0.0482874 | mg/L | 0.00068497 | 0.0482874 | mg/L | 0.00068497 | 1.42% |
| Mo 202.031† | 158.9 | 0.0141197 | mg/L | 0.00085636 | 0.0141197 | mg/L | 0.00085636 | 6.06% |
| Na 330.237† | 569980.9 | 399.781 | mg/L | 6.6158 | 399.781 | mg/L | 6.6158 | 1.65% |
| Ni 231.604† | 425.2 | 0.0137481 | mg/L | 0.00091832 | 0.0137481 | mg/L | 0.00091832 | 6.68% |
| Pb 220.353† | -59.7 | -0.0127243 | mg/L | 0.00260793 | -0.0127243 | mg/L | 0.00260793 | 20.50% |
| Sb 206.836† | -57.3 | -0.0426897 | mg/L | 0.00511948 | -0.0426897 | mg/L | 0.00511948 | 11.99% |
| Se 196.026† | -6.4 | -0.0049821 | mg/L | 0.00368047 | -0.0049821 | mg/L | 0.00368047 | 73.87% |
| Sn 189.927† | -11.0 | -0.0026917 | mg/L | 0.00067115 | -0.0026917 | mg/L | 0.00067115 | 24.93% |
| Ti 334.940† | 6952.8 | 0.0114016 | mg/L | 0.00019217 | 0.0114016 | mg/L | 0.00019217 | 1.69% |
| Tl 190.801† | -8.8 | -0.0065027 | mg/L | 0.00151284 | -0.0065027 | mg/L | 0.00151284 | 23.26% |
| V 290.880† | 845.9 | 0.0087680 | mg/L | 0.00034579 | 0.0087680 | mg/L | 0.00034579 | 3.94% |
| Zn 206.200† | 250.7 | 0.0079458 | mg/L | 0.00024845 | 0.0079458 | mg/L | 0.00024845 | 3.13% |
| Si 251.611† | 366952.0 | 8.06372 | mg/L | 0.124871 | 8.06372 | mg/L | 0.124871 | 1.55% |
| B 249.772† | 53701.2 | 0.535123 | mg/L | 0.0126997 | 0.535123 | mg/L | 0.0126997 | 2.37% |
| Ce 413.764 | 92.5 | -0.0181112 | mg/L | 0.00043992 | -0.0181112 | mg/L | 0.00043992 | 2.43% |

Sequence No.: 24
Sample ID: AD26083-032
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 9/29/2021 11:41:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-032

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 573674.8 | 70.8 | % | 0.10 | | | | 0.14% |
| Y 371.029 | 581087.2 | 68.4 | % | 0.13 | | | | 0.18% |
| Ag 328.068† | -318.3 | 0.0002928 | mg/L | 0.00044252 | 0.0002928 | mg/L | 0.00044252 | 151.15% |
| Al 308.215† | 3172.2 | 0.112909 | mg/L | 0.0013789 | 0.112909 | mg/L | 0.0013789 | 1.22% |
| As 188.979† | 21.2 | 0.0189210 | mg/L | 0.00652119 | 0.0189210 | mg/L | 0.00652119 | 34.47% |
| Ba 233.527† | 7195.7 | 0.0760637 | mg/L | 0.00130789 | 0.0760637 | mg/L | 0.00130789 | 1.72% |
| Be 313.107† | -39.9 | 0.0036452 | mg/L | 0.00003364 | 0.0036452 | mg/L | 0.00003364 | 0.92% |
| Ca 315.887† | 75482289.0 | 547.266 | mg/L | 7.1040 | 547.266 | mg/L | 7.1040 | 1.30% |
| Cd 228.802† | -203.3 | 0.0054648 | mg/L | 0.00026145 | 0.0054648 | mg/L | 0.00026145 | 4.78% |
| Co 228.616† | 48.3 | 0.0022944 | mg/L | 0.00017856 | 0.0022944 | mg/L | 0.00017856 | 7.78% |
| Cr 267.716† | -892.8 | -0.0058943 | mg/L | 0.00060254 | -0.0058943 | mg/L | 0.00060254 | 10.22% |
| Cu 327.393† | -5121.5 | -0.0424342 | mg/L | 0.00078074 | -0.0424342 | mg/L | 0.00078074 | 1.84% |
| Fe 273.955† | 753125.0 | 25.0697 | mg/L | 0.36527 | 25.0697 | mg/L | 0.36527 | 1.46% |
| K 404.721† | 12432.5 | 90.3892 | mg/L | 1.01527 | 90.3892 | mg/L | 1.01527 | 1.12% |
| Mg 279.077† | 14181765.9 | 562.791 | mg/L | 8.3284 | 562.791 | mg/L | 8.3284 | 1.48% |
| Mn 257.610† | 2411903.5 | 2.89646 | mg/L | 0.043715 | 2.89646 | mg/L | 0.043715 | 1.51% |
| Mo 202.031† | 200.9 | 0.0173389 | mg/L | 0.00164657 | 0.0173389 | mg/L | 0.00164657 | 9.50% |
| Na 330.237† | 7672162.4 | 5368.09 | mg/L | 35.120 | 5368.09 | mg/L | 35.120 | 0.65% |
| Ni 231.604† | 555.0 | 0.0176784 | mg/L | 0.00009772 | 0.0176784 | mg/L | 0.00009772 | 0.55% |
| Pb 220.353† | -111.7 | -0.0066658 | mg/L | 0.00197012 | -0.0066658 | mg/L | 0.00197012 | 29.56% |
| Sb 206.836† | -122.4 | -0.0962665 | mg/L | 0.00848937 | -0.0962665 | mg/L | 0.00848937 | 8.82% |
| Se 196.026† | -52.7 | -0.0487385 | mg/L | 0.01411874 | -0.0487385 | mg/L | 0.01411874 | 28.97% |
| Sn 189.927† | -32.3 | -0.0078633 | mg/L | 0.00302025 | -0.0078633 | mg/L | 0.00302025 | 38.41% |
| Ti 334.940† | 5146.5 | 0.0093341 | mg/L | 0.00025603 | 0.0093341 | mg/L | 0.00025603 | 2.74% |
| Tl 190.801† | -30.0 | 0.0062205 | mg/L | 0.00170050 | 0.0062205 | mg/L | 0.00170050 | 27.34% |
| V 290.880† | -2661.9 | -0.0126402 | mg/L | 0.00009641 | -0.0126402 | mg/L | 0.00009641 | 0.76% |
| Zn 206.200† | 329.9 | 0.0095049 | mg/L | 0.00018636 | 0.0095049 | mg/L | 0.00018636 | 1.96% |
| Si 251.611† | 606546.7 | 13.4007 | mg/L | 0.18874 | 13.4007 | mg/L | 0.18874 | 1.41% |
| B 249.772† | 159315.5 | 1.48430 | mg/L | 0.008987 | 1.48430 | mg/L | 0.008987 | 0.61% |
| Ce 413.764 | -238.7 | -0.0245676 | mg/L | 0.00104858 | -0.0245676 | mg/L | 0.00104858 | 4.27% |

Sequence No.: 25
Sample ID: AD26083-033
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 9/29/2021 11:47:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-033

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 813153.2 | 100 | % | 0.9 | | | | 0.92% |
| Y 371.029 | 857114.8 | 101 | % | 0.8 | | | | 0.83% |
| Ag 328.068† | 107.1 | 0.0010302 | mg/L | 0.00018382 | 0.0010302 | mg/L | 0.00018382 | 17.84% |
| Al 308.215† | 336.1 | 0.0210635 | mg/L | 0.00387291 | 0.0210635 | mg/L | 0.00387291 | 18.39% |
| As 188.979† | 10.4 | 0.0109906 | mg/L | 0.00182296 | 0.0109906 | mg/L | 0.00182296 | 16.59% |
| Ba 233.527† | -44.8 | 0.0011034 | mg/L | 0.00003958 | 0.0011034 | mg/L | 0.00003958 | 3.59% |
| Be 313.107† | 733.0 | 0.0038800 | mg/L | 0.00001191 | 0.0038800 | mg/L | 0.00001191 | 0.31% |
| Ca 315.887† | 14516.7 | 0.376761 | mg/L | 0.0136858 | 0.376761 | mg/L | 0.0136858 | 3.63% |
| Cd 228.802† | 28.2 | 0.0038865 | mg/L | 0.00004003 | 0.0038865 | mg/L | 0.00004003 | 1.03% |
| Co 228.616† | 43.9 | 0.0019572 | mg/L | 0.00033276 | 0.0019572 | mg/L | 0.00033276 | 17.00% |
| Cr 267.716† | -50.9 | 0.0012499 | mg/L | 0.00016469 | 0.0012499 | mg/L | 0.00016469 | 13.18% |
| Cu 327.393† | 239.0 | 0.0033075 | mg/L | 0.00138321 | 0.0033075 | mg/L | 0.00138321 | 41.82% |
| Fe 273.955† | 280.2 | 0.0175624 | mg/L | 0.00030819 | 0.0175624 | mg/L | 0.00030819 | 1.75% |
| K 404.721† | 441.0 | 2.72848 | mg/L | 0.588601 | 2.72848 | mg/L | 0.588601 | 21.57% |
| Mg 279.077† | 462.6 | 0.0201486 | mg/L | 0.01594361 | 0.0201486 | mg/L | 0.01594361 | 79.13% |
| Mn 257.610† | 438.7 | 0.0018404 | mg/L | 0.00005814 | 0.0018404 | mg/L | 0.00005814 | 3.16% |
| Mo 202.031† | 13.3 | 0.0029114 | mg/L | 0.00050627 | 0.0029114 | mg/L | 0.00050627 | 17.39% |
| Na 330.237† | 491.7 | 1.39669 | mg/L | 0.057797 | 1.39669 | mg/L | 0.057797 | 4.14% |
| Ni 231.604† | 94.1 | 0.0037287 | mg/L | 0.00042757 | 0.0037287 | mg/L | 0.00042757 | 11.47% |
| Pb 220.353† | -9.7 | -0.0005432 | mg/L | 0.00242067 | -0.0005432 | mg/L | 0.00242067 | 445.65% |
| Sb 206.836† | -11.5 | -0.0051291 | mg/L | 0.00117207 | -0.0051291 | mg/L | 0.00117207 | 22.85% |
| Se 196.026† | -3.6 | -0.0022321 | mg/L | 0.00506874 | -0.0022321 | mg/L | 0.00506874 | 227.09% |
| Sn 189.927† | 3.2 | 0.0007611 | mg/L | 0.00155737 | 0.0007611 | mg/L | 0.00155737 | 204.61% |
| Ti 334.940† | 371.7 | 0.0038688 | mg/L | 0.00004405 | 0.0038688 | mg/L | 0.00004405 | 1.14% |
| Tl 190.801† | -3.4 | -0.0007274 | mg/L | 0.00201050 | -0.0007274 | mg/L | 0.00201050 | 276.39% |
| V 290.880† | -141.4 | 0.0027420 | mg/L | 0.00040109 | 0.0027420 | mg/L | 0.00040109 | 14.63% |
| Zn 206.200† | 1118.4 | 0.0250394 | mg/L | 0.00019929 | 0.0250394 | mg/L | 0.00019929 | 0.80% |
| Si 251.611† | 1519.7 | -0.0594787 | mg/L | 0.00061028 | -0.0594787 | mg/L | 0.00061028 | 1.03% |
| B 249.772† | 168.3 | 0.0074001 | mg/L | 0.00188835 | 0.0074001 | mg/L | 0.00188835 | 25.52% |
| Ce 413.764 | 152.6 | -0.0169390 | mg/L | 0.00287000 | -0.0169390 | mg/L | 0.00287000 | 16.94% |

Sequence No.: 26
Sample ID: AD26083-035
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 9/29/2021 11:50:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-035

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 725540.4 | 89.6 | % | 0.88 | | | | 0.98% |
| Y 371.029 | 746162.7 | 87.8 | % | 0.70 | | | | 0.79% |
| Ag 328.068† | 191.2 | 0.0015179 | mg/L | 0.00021399 | 0.0015179 | mg/L | 0.00021399 | 14.10% |
| Al 308.215† | 3935.4 | 0.137623 | mg/L | 0.0012717 | 0.137623 | mg/L | 0.0012717 | 0.92% |
| As 188.979† | 16.3 | 0.0153182 | mg/L | 0.00593781 | 0.0153182 | mg/L | 0.00593781 | 38.76% |
| Ba 233.527† | 23322.2 | 0.243020 | mg/L | 0.0022305 | 0.243020 | mg/L | 0.0022305 | 0.92% |
| Be 313.107† | 1045.2 | 0.0039749 | mg/L | 0.00001196 | 0.0039749 | mg/L | 0.00001196 | 0.30% |
| Ca 315.887† | 2666700.2 | 19.5962 | mg/L | 0.14031 | 19.5962 | mg/L | 0.14031 | 0.72% |
| Cd 228.802† | 8.2 | 0.0036336 | mg/L | 0.00020595 | 0.0036336 | mg/L | 0.00020595 | 5.67% |
| Co 228.616† | 52.1 | 0.0028972 | mg/L | 0.00035716 | 0.0028972 | mg/L | 0.00035716 | 12.33% |
| Cr 267.716† | -91.8 | 0.0009031 | mg/L | 0.00016207 | 0.0009031 | mg/L | 0.00016207 | 17.95% |
| Cu 327.393† | 450.5 | 0.0050901 | mg/L | 0.00016823 | 0.0050901 | mg/L | 0.00016823 | 3.31% |
| Fe 273.955† | 8747.3 | 0.299318 | mg/L | 0.0023022 | 0.299318 | mg/L | 0.0023022 | 0.77% |
| K 404.721† | 4951.9 | 35.7040 | mg/L | 1.07041 | 35.7040 | mg/L | 1.07041 | 3.00% |
| Mg 279.077† | 559660.4 | 22.2114 | mg/L | 0.19111 | 22.2114 | mg/L | 0.19111 | 0.86% |
| Mn 257.610† | 8882.0 | 0.0119754 | mg/L | 0.00010068 | 0.0119754 | mg/L | 0.00010068 | 0.84% |
| Mo 202.031† | 70.6 | 0.0073226 | mg/L | 0.00041452 | 0.0073226 | mg/L | 0.00041452 | 5.66% |
| Na 330.237† | 449676.3 | 315.622 | mg/L | 1.6439 | 315.622 | mg/L | 1.6439 | 0.52% |
| Ni 231.604† | 383.6 | 0.0124902 | mg/L | 0.00057096 | 0.0124902 | mg/L | 0.00057096 | 4.57% |
| Pb 220.353† | -49.8 | -0.0097621 | mg/L | 0.00118201 | -0.0097621 | mg/L | 0.00118201 | 12.11% |
| Sb 206.836† | -47.1 | -0.0343574 | mg/L | 0.00247498 | -0.0343574 | mg/L | 0.00247498 | 7.20% |
| Se 196.026† | -11.0 | -0.0094439 | mg/L | 0.00842710 | -0.0094439 | mg/L | 0.00842710 | 89.23% |
| Sn 189.927† | -13.4 | -0.0032840 | mg/L | 0.00139625 | -0.0032840 | mg/L | 0.00139625 | 42.52% |
| Ti 334.940† | 1639.5 | 0.0053199 | mg/L | 0.00021544 | 0.0053199 | mg/L | 0.00021544 | 4.05% |
| Tl 190.801† | -10.8 | -0.0078270 | mg/L | 0.00196503 | -0.0078270 | mg/L | 0.00196503 | 25.11% |
| V 290.880† | -126.3 | 0.0028346 | mg/L | 0.00024570 | 0.0028346 | mg/L | 0.00024570 | 8.67% |
| Zn 206.200† | 1092.1 | 0.0245205 | mg/L | 0.00028174 | 0.0245205 | mg/L | 0.00028174 | 1.15% |
| Si 251.611† | 90570.0 | 1.92011 | mg/L | 0.011708 | 1.92011 | mg/L | 0.011708 | 0.61% |
| B 249.772† | 9540.7 | 0.0989686 | mg/L | 0.00106890 | 0.0989686 | mg/L | 0.00106890 | 1.08% |
| Ce 413.764 | 70.1 | -0.0185479 | mg/L | 0.00235495 | -0.0185479 | mg/L | 0.00235495 | 12.70% |

Sequence No.: 27
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 11:54:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 756166.5 | 93.3 | % | 0.85 | | | | 0.91% |
| Y 371.029 | 781852.2 | 92.0 | % | 0.78 | | | | 0.85% |
| Ag 328.068† | 17303.8 | 0.0979641 | mg/L | 0.00148415 | 0.0979641 | mg/L | 0.00148415 | 1.51% |
| QC value within limits for Ag 328.068 Recovery = 97.96% | | | | | | | | |
| Al 308.215† | 152041.8 | 4.93389 | mg/L | 0.070513 | 4.93389 | mg/L | 0.070513 | 1.43% |
| QC value within limits for Al 308.215 Recovery = 98.68% | | | | | | | | |
| As 188.979† | 674.2 | 0.499134 | mg/L | 0.0038348 | 0.499134 | mg/L | 0.0038348 | 0.77% |
| QC value within limits for As 188.979 Recovery = 99.83% | | | | | | | | |
| Ba 233.527† | 46838.8 | 0.486485 | mg/L | 0.0066164 | 0.486485 | mg/L | 0.0066164 | 1.36% |
| QC value within limits for Ba 233.527 Recovery = 97.30% | | | | | | | | |
| Be 313.107† | 1588137.8 | 0.486157 | mg/L | 0.0007706 | 0.486157 | mg/L | 0.0007706 | 0.16% |
| QC value within limits for Be 313.107 Recovery = 97.23% | | | | | | | | |
| Ca 315.887† | 6725668.8 | 49.0102 | mg/L | 0.06211 | 49.0102 | mg/L | 0.06211 | 0.13% |
| QC value within limits for Ca 315.887 Recovery = 98.02% | | | | | | | | |
| Cd 228.802† | 24197.3 | 0.499656 | mg/L | 0.0062983 | 0.499656 | mg/L | 0.0062983 | 1.26% |
| QC value within limits for Cd 228.802 Recovery = 99.93% | | | | | | | | |
| Co 228.616† | 15586.6 | 0.489891 | mg/L | 0.0060125 | 0.489891 | mg/L | 0.0060125 | 1.23% |
| QC value within limits for Co 228.616 Recovery = 97.98% | | | | | | | | |
| Cr 267.716† | 57696.9 | 0.491275 | mg/L | 0.0071474 | 0.491275 | mg/L | 0.0071474 | 1.45% |
| QC value within limits for Cr 267.716 Recovery = 98.26% | | | | | | | | |
| Cu 327.393† | 57435.2 | 0.492198 | mg/L | 0.0071843 | 0.492198 | mg/L | 0.0071843 | 1.46% |
| QC value within limits for Cu 327.393 Recovery = 98.44% | | | | | | | | |
| Fe 273.955† | 146867.4 | 4.89549 | mg/L | 0.070309 | 4.89549 | mg/L | 0.070309 | 1.44% |
| QC value within limits for Fe 273.955 Recovery = 97.91% | | | | | | | | |
| K 404.721† | 7032.1 | 50.9107 | mg/L | 1.13551 | 50.9107 | mg/L | 1.13551 | 2.23% |
| QC value within limits for K 404.721 Recovery = 101.82% | | | | | | | | |
| Mg 279.077† | 1248066.3 | 49.5301 | mg/L | 0.12099 | 49.5301 | mg/L | 0.12099 | 0.24% |
| QC value within limits for Mg 279.077 Recovery = 99.06% | | | | | | | | |
| Mn 257.610† | 406392.1 | 0.489130 | mg/L | 0.0069338 | 0.489130 | mg/L | 0.0069338 | 1.42% |
| QC value within limits for Mn 257.610 Recovery = 97.83% | | | | | | | | |
| Mo 202.031† | 6278.2 | 0.485027 | mg/L | 0.0061122 | 0.485027 | mg/L | 0.0061122 | 1.26% |
| QC value within limits for Mo 202.031 Recovery = 97.01% | | | | | | | | |
| Na 330.237† | 66933.9 | 47.8761 | mg/L | 0.66024 | 47.8761 | mg/L | 0.66024 | 1.38% |
| QC value within limits for Na 330.237 Recovery = 95.75% | | | | | | | | |
| Ni 231.604† | 16316.1 | 0.494708 | mg/L | 0.0063895 | 0.494708 | mg/L | 0.0063895 | 1.29% |
| QC value within limits for Ni 231.604 Recovery = 98.94% | | | | | | | | |
| Pb 220.353† | 1984.2 | 0.502341 | mg/L | 0.0052146 | 0.502341 | mg/L | 0.0052146 | 1.04% |
| QC value within limits for Pb 220.353 Recovery = 100.47% | | | | | | | | |
| Sb 206.836† | 564.4 | 0.474234 | mg/L | 0.0068194 | 0.474234 | mg/L | 0.0068194 | 1.44% |
| QC value within limits for Sb 206.836 Recovery = 94.85% | | | | | | | | |
| Se 196.026† | 484.6 | 0.472519 | mg/L | 0.0086215 | 0.472519 | mg/L | 0.0086215 | 1.82% |
| QC value within limits for Se 196.026 Recovery = 94.50% | | | | | | | | |
| Sn 189.927† | 2038.7 | 0.495628 | mg/L | 0.0058853 | 0.495628 | mg/L | 0.0058853 | 1.19% |
| QC value within limits for Sn 189.927 Recovery = 99.13% | | | | | | | | |
| Ti 334.940† | 420383.2 | 0.484622 | mg/L | 0.0065413 | 0.484622 | mg/L | 0.0065413 | 1.35% |
| QC value within limits for Ti 334.940 Recovery = 96.92% | | | | | | | | |
| Tl 190.801† | 435.4 | 0.504664 | mg/L | 0.0085213 | 0.504664 | mg/L | 0.0085213 | 1.69% |
| QC value within limits for Tl 190.801 Recovery = 100.93% | | | | | | | | |
| V 290.880† | 79237.6 | 0.487191 | mg/L | 0.0075619 | 0.487191 | mg/L | 0.0075619 | 1.55% |
| QC value within limits for V 290.880 Recovery = 97.44% | | | | | | | | |
| Zn 206.200† | 24487.2 | 0.485403 | mg/L | 0.0061085 | 0.485403 | mg/L | 0.0061085 | 1.26% |
| QC value within limits for Zn 206.200 Recovery = 97.08% | | | | | | | | |
| Si 251.611† | 220065.4 | 4.80067 | mg/L | 0.065800 | 4.80067 | mg/L | 0.065800 | 1.37% |
| QC value within limits for Si 251.611 Recovery = 96.01% | | | | | | | | |
| B 249.772† | 46218.5 | 0.443871 | mg/L | 0.0115443 | 0.443871 | mg/L | 0.0115443 | 2.60% |
| QC value less than the lower limit for B 249.772 Recovery = 88.77% | | | | | | | | |
| Ce 413.764 | 26283.8 | 0.492442 | mg/L | 0.0036592 | 0.492442 | mg/L | 0.0036592 | 0.74% |
| QC value within limits for Ce 413.764 Recovery = 98.49% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 28
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 11:59:03 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 804970.9 | 99.4 | % | 2.35 | | | | 2.36% |
| Y 371.029 | 852835.0 | 100 | % | 2.2 | | | | 2.24% |
| Ag 328.068† | 87.0 | 0.0009147 | mg/L | 0.00037948 | 0.0009147 | mg/L | 0.00037948 | 41.49% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 17.2 | 0.0107357 | mg/L | 0.00335399 | 0.0107357 | mg/L | 0.00335399 | 31.24% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 8.4 | 0.0095288 | mg/L | 0.00245726 | 0.0095288 | mg/L | 0.00245726 | 25.79% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -106.3 | 0.0004663 | mg/L | 0.00005033 | 0.0004663 | mg/L | 0.00005033 | 10.79% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 916.5 | 0.0039358 | mg/L | 0.00004871 | 0.0039358 | mg/L | 0.00004871 | 1.24% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 750.2 | 0.277000 | mg/L | 0.0013836 | 0.277000 | mg/L | 0.0013836 | 0.50% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 28.8 | 0.0038985 | mg/L | 0.00015428 | 0.0038985 | mg/L | 0.00015428 | 3.96% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 39.2 | 0.0018070 | mg/L | 0.00060491 | 0.0018070 | mg/L | 0.00060491 | 33.48% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -39.8 | 0.0013444 | mg/L | 0.00030331 | 0.0013444 | mg/L | 0.00030331 | 22.56% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 113.2 | 0.0022314 | mg/L | 0.00118459 | 0.0022314 | mg/L | 0.00118459 | 53.09% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -221.5 | 0.0008661 | mg/L | 0.00230233 | 0.0008661 | mg/L | 0.00230233 | 265.83% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 495.6 | 3.12738 | mg/L | 1.377503 | 3.12738 | mg/L | 1.377503 | 44.05% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -102.2 | -0.0022623 | mg/L | 0.00172240 | -0.0022623 | mg/L | 0.00172240 | 76.14% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 18.7 | 0.0013362 | mg/L | 0.00001749 | 0.0013362 | mg/L | 0.00001749 | 1.31% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 15.8 | 0.0031027 | mg/L | 0.00054217 | 0.0031027 | mg/L | 0.00054217 | 17.47% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 39.1 | 1.08004 | mg/L | 0.060944 | 1.08004 | mg/L | 0.060944 | 5.64% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 113.2 | 0.0043052 | mg/L | 0.00025576 | 0.0043052 | mg/L | 0.00025576 | 5.94% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -13.1 | -0.0014072 | mg/L | 0.00211927 | -0.0014072 | mg/L | 0.00211927 | 150.61% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -14.2 | -0.0072840 | mg/L | 0.00106224 | -0.0072840 | mg/L | 0.00106224 | 14.58% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -4.5 | -0.0031111 | mg/L | 0.00460588 | -0.0031111 | mg/L | 0.00460588 | 148.05% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -6.6 | -0.0016131 | mg/L | 0.00044244 | -0.0016131 | mg/L | 0.00044244 | 27.43% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 71.6 | 0.0035253 | mg/L | 0.00007818 | 0.0035253 | mg/L | 0.00007818 | 2.22% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -5.3 | -0.0029695 | mg/L | 0.00240108 | -0.0029695 | mg/L | 0.00240108 | 80.86% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -83.7 | 0.0030942 | mg/L | 0.00105451 | 0.0030942 | mg/L | 0.00105451 | 34.08% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 4.9 | 0.0031032 | mg/L | 0.00012966 | 0.0031032 | mg/L | 0.00012966 | 4.18% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 301.7 | -0.0865603 | mg/L | 0.00021307 | -0.0865603 | mg/L | 0.00021307 | 0.25% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -535.3 | 0.0005088 | mg/L | 0.00154890 | 0.0005088 | mg/L | 0.00154890 | 304.44% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | 10.3 | -0.0197137 | mg/L | 0.00223621 | -0.0197137 | mg/L | 0.00223621 | 11.34% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: MB 94428 (1)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 9/29/2021 12:02:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 94428 (1)

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 813036.2 | 100 | % | 0.6 | | | | 0.64% |
| Y 371.029 | 860118.8 | 101 | % | 0.6 | | | | 0.62% |
| Ag 328.068† | 64.3 | 0.0007941 | mg/L | 0.00013318 | 0.0007941 | mg/L | 0.00013318 | 16.77% |
| Al 308.215† | 375.5 | 0.0223419 | mg/L | 0.00122472 | 0.0223419 | mg/L | 0.00122472 | 5.48% |
| As 188.979† | 9.2 | 0.0101302 | mg/L | 0.00210272 | 0.0101302 | mg/L | 0.00210272 | 20.76% |
| Ba 233.527† | -56.5 | 0.0009824 | mg/L | 0.00021014 | 0.0009824 | mg/L | 0.00021014 | 21.39% |
| Be 313.107† | 747.4 | 0.0038844 | mg/L | 0.00000935 | 0.0038844 | mg/L | 0.00000935 | 0.24% |
| Ca 315.887† | 23274.0 | 0.440222 | mg/L | 0.0016630 | 0.440222 | mg/L | 0.0016630 | 0.38% |
| Cd 228.802† | 15.4 | 0.0036395 | mg/L | 0.00020072 | 0.0036395 | mg/L | 0.00020072 | 5.52% |
| Co 228.616† | 48.6 | 0.0021049 | mg/L | 0.00059500 | 0.0021049 | mg/L | 0.00059500 | 28.27% |
| Cr 267.716† | 7.8 | 0.0017480 | mg/L | 0.00043382 | 0.0017480 | mg/L | 0.00043382 | 24.82% |
| Cu 327.393† | 322.3 | 0.0040203 | mg/L | 0.00048838 | 0.0040203 | mg/L | 0.00048838 | 12.15% |
| Fe 273.955† | 1923.3 | 0.0722387 | mg/L | 0.00074443 | 0.0722387 | mg/L | 0.00074443 | 1.03% |
| K 404.721† | 452.4 | 2.81180 | mg/L | 0.490939 | 2.81180 | mg/L | 0.490939 | 17.46% |
| Mg 279.077† | -13.2 | 0.0012675 | mg/L | 0.00554623 | 0.0012675 | mg/L | 0.00554623 | 437.57% |
| Mn 257.610† | 2065.8 | 0.0037935 | mg/L | 0.00006151 | 0.0037935 | mg/L | 0.00006151 | 1.62% |
| Mo 202.031† | 5.0 | 0.0022722 | mg/L | 0.00023176 | 0.0022722 | mg/L | 0.00023176 | 10.20% |
| Na 330.237† | 438.2 | 1.35923 | mg/L | 0.081525 | 1.35923 | mg/L | 0.081525 | 6.00% |
| Ni 231.604† | 96.1 | 0.0037893 | mg/L | 0.00043240 | 0.0037893 | mg/L | 0.00043240 | 11.41% |
| Pb 220.353† | 1.5 | 0.0022542 | mg/L | 0.00139082 | 0.0022542 | mg/L | 0.00139082 | 61.70% |
| Sb 206.836† | -6.2 | -0.0007345 | mg/L | 0.00293648 | -0.0007345 | mg/L | 0.00293648 | 399.79% |
| Se 196.026† | -5.6 | -0.0041680 | mg/L | 0.00301142 | -0.0041680 | mg/L | 0.00301142 | 72.25% |
| Sn 189.927† | 7.0 | 0.0016729 | mg/L | 0.00009781 | 0.0016729 | mg/L | 0.00009781 | 5.85% |
| Ti 334.940† | 189.0 | 0.0036596 | mg/L | 0.00003014 | 0.0036596 | mg/L | 0.00003014 | 0.82% |
| Tl 190.801† | -9.3 | -0.0074226 | mg/L | 0.00134716 | -0.0074226 | mg/L | 0.00134716 | 18.15% |
| V 290.880† | -160.2 | 0.0026275 | mg/L | 0.00040065 | 0.0026275 | mg/L | 0.00040065 | 15.25% |
| Zn 206.200† | 354.8 | 0.0099962 | mg/L | 0.00007758 | 0.0099962 | mg/L | 0.00007758 | 0.78% |
| Si 251.611† | 800.7 | -0.0754364 | mg/L | 0.00071152 | -0.0754364 | mg/L | 0.00071152 | 0.94% |
| B 249.772† | -1014.1 | -0.0044992 | mg/L | 0.00051321 | -0.0044992 | mg/L | 0.00051321 | 11.41% |
| Ce 413.764 | 137.6 | -0.0172305 | mg/L | 0.00014886 | -0.0172305 | mg/L | 0.00014886 | 0.86% |

Sequence No.: 30
Sample ID: LCS 94428
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 9/29/2021 12:06:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS 94428

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 765690.1 | 94.5 | % | 0.75 | | | | 0.80% |
| Y 371.029 | 791214.6 | 93.1 | % | 0.77 | | | | 0.82% |
| Ag 328.068† | 17414.0 | 0.0986344 | mg/L | 0.00053918 | 0.0986344 | mg/L | 0.00053918 | 0.55% |
| Al 308.215† | 156188.0 | 5.06816 | mg/L | 0.048761 | 5.06816 | mg/L | 0.048761 | 0.96% |
| As 188.979† | 693.9 | 0.513647 | mg/L | 0.0059092 | 0.513647 | mg/L | 0.0059092 | 1.15% |
| Ba 233.527† | 48068.0 | 0.499210 | mg/L | 0.0042859 | 0.499210 | mg/L | 0.0042859 | 0.86% |
| Be 313.107† | 1640947.6 | 0.502202 | mg/L | 0.0001129 | 0.502202 | mg/L | 0.0001129 | 0.02% |
| Ca 315.887† | 6922917.5 | 50.4396 | mg/L | 0.03510 | 50.4396 | mg/L | 0.03510 | 0.07% |
| Cd 228.802† | 24924.5 | 0.514629 | mg/L | 0.0050385 | 0.514629 | mg/L | 0.0050385 | 0.98% |
| Co 228.616† | 16202.0 | 0.509205 | mg/L | 0.0045596 | 0.509205 | mg/L | 0.0045596 | 0.90% |
| Cr 267.716† | 59689.7 | 0.508186 | mg/L | 0.0047251 | 0.508186 | mg/L | 0.0047251 | 0.93% |
| Cu 327.393† | 59724.2 | 0.511765 | mg/L | 0.0042726 | 0.511765 | mg/L | 0.0042726 | 0.83% |
| Fe 273.955† | 152570.6 | 5.08527 | mg/L | 0.045779 | 5.08527 | mg/L | 0.045779 | 0.90% |
| K 404.721† | 7092.3 | 51.3509 | mg/L | 1.42423 | 51.3509 | mg/L | 1.42423 | 2.77% |
| Mg 279.077† | 1279834.2 | 50.7908 | mg/L | 0.05591 | 50.7908 | mg/L | 0.05591 | 0.11% |
| Mn 257.610† | 417690.0 | 0.502692 | mg/L | 0.0046085 | 0.502692 | mg/L | 0.0046085 | 0.92% |
| Mo 202.031† | 6519.6 | 0.503601 | mg/L | 0.0048191 | 0.503601 | mg/L | 0.0048191 | 0.96% |
| Na 330.237† | 68395.1 | 48.8983 | mg/L | 0.30246 | 48.8983 | mg/L | 0.30246 | 0.62% |
| Ni 231.604† | 16959.6 | 0.514184 | mg/L | 0.0049619 | 0.514184 | mg/L | 0.0049619 | 0.97% |
| Pb 220.353† | 2063.9 | 0.522377 | mg/L | 0.0037067 | 0.522377 | mg/L | 0.0037067 | 0.71% |
| Sb 206.836† | 590.4 | 0.495820 | mg/L | 0.0007466 | 0.495820 | mg/L | 0.0007466 | 0.15% |
| Se 196.026† | 493.9 | 0.481522 | mg/L | 0.0028372 | 0.481522 | mg/L | 0.0028372 | 0.59% |
| Sn 189.927† | 2077.7 | 0.505113 | mg/L | 0.0040939 | 0.505113 | mg/L | 0.0040939 | 0.81% |
| Ti 334.940† | 432916.7 | 0.498968 | mg/L | 0.0049994 | 0.498968 | mg/L | 0.0049994 | 1.00% |
| Tl 190.801† | 440.2 | 0.510460 | mg/L | 0.0022986 | 0.510460 | mg/L | 0.0022986 | 0.45% |
| V 290.880† | 81597.8 | 0.501595 | mg/L | 0.0052166 | 0.501595 | mg/L | 0.0052166 | 1.04% |
| Zn 206.200† | 25377.8 | 0.502949 | mg/L | 0.0051790 | 0.502949 | mg/L | 0.0051790 | 1.03% |
| Si 251.611† | 26052.0 | 0.488122 | mg/L | 0.0051702 | 0.488122 | mg/L | 0.0051702 | 1.06% |
| B 249.772† | 48188.3 | 0.462615 | mg/L | 0.0096139 | 0.462615 | mg/L | 0.0096139 | 2.08% |
| Ce 413.764 | 29097.5 | 0.547290 | mg/L | 0.0027578 | 0.547290 | mg/L | 0.0027578 | 0.50% |

Sequence No.: 31
Sample ID: LCS MR 94428
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 9/29/2021 12:10:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS MR 94428

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 767653.3 | 94.8 | % | 0.22 | | | | 0.23% |
| Y 371.029 | 793435.7 | 93.3 | % | 0.18 | | | | 0.19% |
| Ag 328.068† | 17373.6 | 0.0984108 | mg/L | 0.00076203 | 0.0984108 | mg/L | 0.00076203 | 0.77% |
| Al 308.215† | 155907.2 | 5.05907 | mg/L | 0.010115 | 5.05907 | mg/L | 0.010115 | 0.20% |
| As 188.979† | 684.2 | 0.506497 | mg/L | 0.0025386 | 0.506497 | mg/L | 0.0025386 | 0.50% |
| Ba 233.527† | 48192.8 | 0.500503 | mg/L | 0.0009822 | 0.500503 | mg/L | 0.0009822 | 0.20% |
| Be 313.107† | 1638258.6 | 0.501385 | mg/L | 0.0007358 | 0.501385 | mg/L | 0.0007358 | 0.15% |
| Ca 315.887† | 6902713.6 | 50.2932 | mg/L | 0.05244 | 50.2932 | mg/L | 0.05244 | 0.10% |
| Cd 228.802† | 24784.7 | 0.511763 | mg/L | 0.0031181 | 0.511763 | mg/L | 0.0031181 | 0.61% |
| Co 228.616† | 16082.3 | 0.505448 | mg/L | 0.0040322 | 0.505448 | mg/L | 0.0040322 | 0.80% |
| Cr 267.716† | 59819.8 | 0.509289 | mg/L | 0.0017039 | 0.509289 | mg/L | 0.0017039 | 0.33% |
| Cu 327.393† | 59918.7 | 0.513428 | mg/L | 0.0014222 | 0.513428 | mg/L | 0.0014222 | 0.28% |
| Fe 273.955† | 151388.0 | 5.04592 | mg/L | 0.010053 | 5.04592 | mg/L | 0.010053 | 0.20% |
| K 404.721† | 7093.8 | 51.3621 | mg/L | 0.24674 | 51.3621 | mg/L | 0.24674 | 0.48% |
| Mg 279.077† | 1276353.8 | 50.6526 | mg/L | 0.02882 | 50.6526 | mg/L | 0.02882 | 0.06% |
| Mn 257.610† | 418333.8 | 0.503464 | mg/L | 0.0012068 | 0.503464 | mg/L | 0.0012068 | 0.24% |
| Mo 202.031† | 6463.7 | 0.499300 | mg/L | 0.0027714 | 0.499300 | mg/L | 0.0027714 | 0.56% |
| Na 330.237† | 68564.3 | 49.0166 | mg/L | 0.09097 | 49.0166 | mg/L | 0.09097 | 0.19% |
| Ni 231.604† | 16883.5 | 0.511880 | mg/L | 0.0036944 | 0.511880 | mg/L | 0.0036944 | 0.72% |
| Pb 220.353† | 2046.2 | 0.517956 | mg/L | 0.0036394 | 0.517956 | mg/L | 0.0036394 | 0.70% |
| Sb 206.836† | 584.5 | 0.490951 | mg/L | 0.0028181 | 0.490951 | mg/L | 0.0028181 | 0.57% |
| Se 196.026† | 497.5 | 0.485077 | mg/L | 0.0077429 | 0.485077 | mg/L | 0.0077429 | 1.60% |
| Sn 189.927† | 2068.6 | 0.502890 | mg/L | 0.0026548 | 0.502890 | mg/L | 0.0026548 | 0.53% |
| Ti 334.940† | 433891.4 | 0.500084 | mg/L | 0.0013439 | 0.500084 | mg/L | 0.0013439 | 0.27% |
| Tl 190.801† | 444.7 | 0.515565 | mg/L | 0.0045191 | 0.515565 | mg/L | 0.0045191 | 0.88% |
| V 290.880† | 81889.1 | 0.503372 | mg/L | 0.0013863 | 0.503372 | mg/L | 0.0013863 | 0.28% |
| Zn 206.200† | 25097.3 | 0.497424 | mg/L | 0.0035948 | 0.497424 | mg/L | 0.0035948 | 0.72% |
| Si 251.611† | 25982.6 | 0.486563 | mg/L | 0.0029474 | 0.486563 | mg/L | 0.0029474 | 0.61% |
| B 249.772† | 49101.5 | 0.471794 | mg/L | 0.0046945 | 0.471794 | mg/L | 0.0046945 | 1.00% |
| Ce 413.764 | 29441.6 | 0.553997 | mg/L | 0.0038687 | 0.553997 | mg/L | 0.0038687 | 0.70% |

Sequence No.: 32
Sample ID: AD26083-040
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 9/29/2021 12:15:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 690611.1 | 85.2 | % | 0.49 | | | | 0.57% |
| Y 371.029 | 704467.1 | 82.9 | % | 0.48 | | | | 0.57% |
| Ag 328.068† | -80.4 | 0.0007500 | mg/L | 0.00011179 | 0.0007500 | mg/L | 0.00011179 | 14.91% |
| Al 308.215† | 6941.0 | 0.234955 | mg/L | 0.0032274 | 0.234955 | mg/L | 0.0032274 | 1.37% |
| As 188.979† | 17.5 | 0.0162364 | mg/L | 0.00264245 | 0.0162364 | mg/L | 0.00264245 | 16.27% |
| Ba 233.527† | 227404.6 | 2.35587 | mg/L | 0.008294 | 2.35587 | mg/L | 0.008294 | 0.35% |
| Be 313.107† | 1785.4 | 0.0041998 | mg/L | 0.00002379 | 0.0041998 | mg/L | 0.00002379 | 0.57% |
| Ca 315.887† | 13869959.4 | 100.782 | mg/L | 2.0227 | 100.782 | mg/L | 2.0227 | 2.01% |
| Cd 228.802† | -107.2 | 0.0042883 | mg/L | 0.00025752 | 0.0042883 | mg/L | 0.00025752 | 6.01% |
| Co 228.616† | 158.4 | 0.0122074 | mg/L | 0.00079937 | 0.0122074 | mg/L | 0.00079937 | 6.55% |
| Cr 267.716† | 296.9 | 0.0042010 | mg/L | 0.00035611 | 0.0042010 | mg/L | 0.00035611 | 8.48% |
| Cu 327.393† | -1354.3 | -0.0108505 | mg/L | 0.00012904 | -0.0108505 | mg/L | 0.00012904 | 1.19% |
| Fe 273.955† | 352983.4 | 11.7543 | mg/L | 0.04210 | 11.7543 | mg/L | 0.04210 | 0.36% |
| K 404.721† | 16639.7 | 121.145 | mg/L | 0.3223 | 121.145 | mg/L | 0.3223 | 0.27% |
| Mg 279.077† | 3805340.9 | 151.013 | mg/L | 0.7795 | 151.013 | mg/L | 0.7795 | 0.52% |
| Mn 257.610† | 473814.9 | 0.570061 | mg/L | 0.0019188 | 0.570061 | mg/L | 0.0019188 | 0.34% |
| Mo 202.031† | 108.9 | 0.0102746 | mg/L | 0.00028090 | 0.0102746 | mg/L | 0.00028090 | 2.73% |
| Na 330.237† | 2240885.2 | 1568.66 | mg/L | 7.202 | 1568.66 | mg/L | 7.202 | 0.46% |
| Ni 231.604† | 1028.0 | 0.0319940 | mg/L | 0.00063129 | 0.0319940 | mg/L | 0.00063129 | 1.97% |
| Pb 220.353† | -55.2 | -0.0066264 | mg/L | 0.00198683 | -0.0066264 | mg/L | 0.00198683 | 29.98% |
| Sb 206.836† | -79.4 | -0.0608672 | mg/L | 0.00325049 | -0.0608672 | mg/L | 0.00325049 | 5.34% |
| Se 196.026† | -32.1 | -0.0293899 | mg/L | 0.00327390 | -0.0293899 | mg/L | 0.00327390 | 11.14% |
| Sn 189.927† | -14.5 | -0.0035433 | mg/L | 0.00284548 | -0.0035433 | mg/L | 0.00284548 | 80.31% |
| Ti 334.940† | 10201.9 | 0.0151206 | mg/L | 0.00046130 | 0.0151206 | mg/L | 0.00046130 | 3.05% |
| Tl 190.801† | -19.5 | -0.0121996 | mg/L | 0.00218090 | -0.0121996 | mg/L | 0.00218090 | 17.88% |
| V 290.880† | 580.6 | 0.0071488 | mg/L | 0.00051409 | 0.0071488 | mg/L | 0.00051409 | 7.19% |
| Zn 206.200† | 240.9 | 0.0077529 | mg/L | 0.00001486 | 0.0077529 | mg/L | 0.00001486 | 0.19% |
| Si 251.611† | 431583.6 | 9.50550 | mg/L | 0.046149 | 9.50550 | mg/L | 0.046149 | 0.49% |
| B 249.772† | 196376.7 | 1.90190 | mg/L | 0.025038 | 1.90190 | mg/L | 0.025038 | 1.32% |
| Ce 413.764 | -58.4 | -0.0210524 | mg/L | 0.00051499 | -0.0210524 | mg/L | 0.00051499 | 2.45% |

Sequence No.: 33
Sample ID: AD26083-040 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 9/29/2021 12:19:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040 MR

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Calib Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 667648.6 | 82.4 | % | 1.76 | | | | 2.13% |
| Y 371.029 | 681883.1 | 80.2 | % | 1.70 | | | | 2.12% |
| Ag 328.068† | -99.1 | 0.0006526 | mg/L | 0.00013824 | 0.0006526 | mg/L | 0.00013824 | 21.18% |
| Al 308.215† | 6726.6 | 0.228015 | mg/L | 0.0064472 | 0.228015 | mg/L | 0.0064472 | 2.83% |
| As 188.979† | 18.9 | 0.0172724 | mg/L | 0.00478181 | 0.0172724 | mg/L | 0.00478181 | 27.68% |
| Ba 233.527† | 229975.8 | 2.38249 | mg/L | 0.004310 | 2.38249 | mg/L | 0.004310 | 0.18% |
| Be 313.107† | 2088.6 | 0.0042919 | mg/L | 0.00001975 | 0.0042919 | mg/L | 0.00001975 | 0.46% |
| Ca 315.887† | 13942926.7 | 101.311 | mg/L | 1.4308 | 101.311 | mg/L | 1.4308 | 1.41% |
| Cd 228.802† | -115.5 | 0.0041565 | mg/L | 0.00030627 | 0.0041565 | mg/L | 0.00030627 | 7.37% |
| Co 228.616† | 156.1 | 0.0122149 | mg/L | 0.00040233 | 0.0122149 | mg/L | 0.00040233 | 3.29% |
| Cr 267.716† | 232.4 | 0.0036542 | mg/L | 0.00016306 | 0.0036542 | mg/L | 0.00016306 | 4.46% |
| Cu 327.393† | -1591.0 | -0.0128826 | mg/L | 0.00088694 | -0.0128826 | mg/L | 0.00088694 | 6.88% |
| Fe 273.955† | 355854.6 | 11.8499 | mg/L | 0.02293 | 11.8499 | mg/L | 0.02293 | 0.19% |
| K 404.721† | 17230.4 | 125.463 | mg/L | 1.8538 | 125.463 | mg/L | 1.8538 | 1.48% |
| Mg 279.077† | 3838555.6 | 152.331 | mg/L | 0.6054 | 152.331 | mg/L | 0.6054 | 0.40% |
| Mn 257.610† | 478448.5 | 0.575623 | mg/L | 0.0009175 | 0.575623 | mg/L | 0.0009175 | 0.16% |
| Mo 202.031† | 116.8 | 0.0108825 | mg/L | 0.00074542 | 0.0108825 | mg/L | 0.00074542 | 6.85% |
| Na 330.237† | 2305721.8 | 1614.01 | mg/L | 7.839 | 1614.01 | mg/L | 7.839 | 0.49% |
| Ni 231.604† | 1069.2 | 0.0332412 | mg/L | 0.00140676 | 0.0332412 | mg/L | 0.00140676 | 4.23% |
| Pb 220.353† | -63.3 | -0.0086253 | mg/L | 0.00186378 | -0.0086253 | mg/L | 0.00186378 | 21.61% |
| Sb 206.836† | -91.2 | -0.0705655 | mg/L | 0.00722055 | -0.0705655 | mg/L | 0.00722055 | 10.23% |
| Se 196.026† | -36.2 | -0.0333082 | mg/L | 0.00191012 | -0.0333082 | mg/L | 0.00191012 | 5.73% |
| Sn 189.927† | -22.4 | -0.0054666 | mg/L | 0.00314719 | -0.0054666 | mg/L | 0.00314719 | 57.57% |
| Ti 334.940† | 9272.0 | 0.0140562 | mg/L | 0.00011465 | 0.0140562 | mg/L | 0.00011465 | 0.82% |
| Tl 190.801† | -18.7 | -0.0112480 | mg/L | 0.00595976 | -0.0112480 | mg/L | 0.00595976 | 52.98% |
| V 290.880† | 613.3 | 0.0073481 | mg/L | 0.00042687 | 0.0073481 | mg/L | 0.00042687 | 5.81% |
| Zn 206.200† | 316.2 | 0.0092359 | mg/L | 0.00023530 | 0.0092359 | mg/L | 0.00023530 | 2.55% |
| Si 251.611† | 434807.5 | 9.57720 | mg/L | 0.021542 | 9.57720 | mg/L | 0.021542 | 0.22% |
| B 249.772† | 198708.0 | 1.92458 | mg/L | 0.009506 | 1.92458 | mg/L | 0.009506 | 0.49% |
| Ce 413.764 | -16.7 | -0.0202390 | mg/L | 0.00257225 | -0.0202390 | mg/L | 0.00257225 | 12.71% |

Sequence No.: 34
Sample ID: AD26083-042 MS 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 9/29/2021 12:23:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-042 MS 1

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 678199.2 | 83.7 | % | 1.13 | | | | 1.35% |
| Y 371.029 | 692311.0 | 81.4 | % | 1.14 | | | | 1.40% |
| Ag 328.068† | 17996.4 | 0.102596 | mg/L | 0.0004839 | 0.102596 | mg/L | 0.0004839 | 0.47% |
| Al 308.215† | 158291.1 | 5.13626 | mg/L | 0.008433 | 5.13626 | mg/L | 0.008433 | 0.16% |
| As 188.979† | 754.9 | 0.558561 | mg/L | 0.0012677 | 0.558561 | mg/L | 0.0012677 | 0.23% |
| Ba 233.527† | 278614.0 | 2.88603 | mg/L | 0.003170 | 2.88603 | mg/L | 0.003170 | 0.11% |
| Be 313.107† | 1660536.0 | 0.508153 | mg/L | 0.0012752 | 0.508153 | mg/L | 0.0012752 | 0.25% |
| Ca 315.887† | 20754096.2 | 150.669 | mg/L | 2.3120 | 150.669 | mg/L | 2.3120 | 1.53% |
| Cd 228.802† | 26107.9 | 0.541723 | mg/L | 0.0029949 | 0.541723 | mg/L | 0.0029949 | 0.55% |
| Co 228.616† | 16465.6 | 0.524209 | mg/L | 0.0019999 | 0.524209 | mg/L | 0.0019999 | 0.38% |
| Cr 267.716† | 59217.9 | 0.504181 | mg/L | 0.0009803 | 0.504181 | mg/L | 0.0009803 | 0.19% |
| Cu 327.393† | 59879.1 | 0.512549 | mg/L | 0.0016379 | 0.512549 | mg/L | 0.0016379 | 0.32% |
| Fe 273.955† | 505720.3 | 16.8369 | mg/L | 0.04896 | 16.8369 | mg/L | 0.04896 | 0.29% |
| K 404.721† | 25564.3 | 186.386 | mg/L | 0.5148 | 186.386 | mg/L | 0.5148 | 0.28% |
| Mg 279.077† | 5081984.0 | 201.675 | mg/L | 3.1668 | 201.675 | mg/L | 3.1668 | 1.57% |
| Mn 257.610† | 891646.5 | 1.07161 | mg/L | 0.002096 | 1.07161 | mg/L | 0.002096 | 0.20% |
| Mo 202.031† | 6674.7 | 0.515530 | mg/L | 0.0017059 | 0.515530 | mg/L | 0.0017059 | 0.33% |
| Na 330.237† | 2362202.9 | 1653.52 | mg/L | 1.152 | 1653.52 | mg/L | 1.152 | 0.07% |
| Ni 231.604† | 17755.0 | 0.538258 | mg/L | 0.0023574 | 0.538258 | mg/L | 0.0023574 | 0.44% |
| Pb 220.353† | 2039.4 | 0.521464 | mg/L | 0.0032227 | 0.521464 | mg/L | 0.0032227 | 0.62% |
| Sb 206.836† | 548.0 | 0.461065 | mg/L | 0.0053774 | 0.461065 | mg/L | 0.0053774 | 1.17% |
| Se 196.026† | 514.8 | 0.502496 | mg/L | 0.0012064 | 0.502496 | mg/L | 0.0012064 | 0.24% |
| Sn 189.927† | 2152.4 | 0.523273 | mg/L | 0.0019971 | 0.523273 | mg/L | 0.0019971 | 0.38% |
| Ti 334.940† | 448642.2 | 0.516968 | mg/L | 0.0005804 | 0.516968 | mg/L | 0.0005804 | 0.11% |
| Tl 190.801† | 422.9 | 0.497235 | mg/L | 0.0023120 | 0.497235 | mg/L | 0.0023120 | 0.46% |
| V 290.880† | 83874.0 | 0.515487 | mg/L | 0.0010580 | 0.515487 | mg/L | 0.0010580 | 0.21% |
| Zn 206.200† | 26769.8 | 0.530371 | mg/L | 0.0035778 | 0.530371 | mg/L | 0.0035778 | 0.67% |
| Si 251.611† | 475563.5 | 10.4854 | mg/L | 0.03090 | 10.4854 | mg/L | 0.03090 | 0.29% |
| B 249.772† | 253498.2 | 2.44704 | mg/L | 0.028239 | 2.44704 | mg/L | 0.028239 | 1.15% |
| Ce 413.764 | 24227.9 | 0.452366 | mg/L | 0.0062352 | 0.452366 | mg/L | 0.0062352 | 1.38% |

Sequence No.: 35
Sample ID: AD26083-043 MS 2
Analyst:
Initial Sample Wt: -044 GM
Dilution:

Autosampler Location: 48
Date Collected: 9/29/2021 12:28:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-043 MS 2

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 666245.7 | 82.2 | % | 1.16 | | | | 1.41% |
| Y 371.029 | 679501.0 | 79.9 | % | 1.09 | | | | 1.36% |
| Ag 328.068† | 17884.7 | 0.101966 | mg/L | 0.0017846 | 0.101966 | mg/L | 0.0017846 | 1.75% |
| Al 308.215† | 158081.7 | 5.12948 | mg/L | 0.074098 | 5.12948 | mg/L | 0.074098 | 1.44% |
| As 188.979† | 732.9 | 0.542356 | mg/L | 0.0093503 | 0.542356 | mg/L | 0.0093503 | 1.72% |
| Ba 233.527† | 279907.1 | 2.89942 | mg/L | 0.036703 | 2.89942 | mg/L | 0.036703 | 1.27% |
| Be 313.107† | 1647159.6 | 0.504089 | mg/L | 0.0063482 | 0.504089 | mg/L | 0.0063482 | 1.26% |
| Ca 315.887† | 20970239.7 | 152.236 | mg/L | 1.2825 | 152.236 | mg/L | 1.2825 | 0.84% |
| Cd 228.802† | 25751.7 | 0.534450 | mg/L | 0.0106545 | 0.534450 | mg/L | 0.0106545 | 1.99% |
| Co 228.616† | 16235.6 | 0.517036 | mg/L | 0.0102875 | 0.517036 | mg/L | 0.0102875 | 1.99% |
| Cr 267.716† | 58874.4 | 0.501267 | mg/L | 0.0067479 | 0.501267 | mg/L | 0.0067479 | 1.35% |
| Cu 327.393† | 59380.0 | 0.508301 | mg/L | 0.0052379 | 0.508301 | mg/L | 0.0052379 | 1.03% |
| Fe 273.955† | 507143.1 | 16.8843 | mg/L | 0.21036 | 16.8843 | mg/L | 0.21036 | 1.25% |
| K 404.721† | 25964.8 | 189.313 | mg/L | 2.6179 | 189.313 | mg/L | 2.6179 | 1.38% |
| Mg 279.077† | 5085557.3 | 201.817 | mg/L | 2.5630 | 201.817 | mg/L | 2.5630 | 1.27% |
| Mn 257.610† | 892436.6 | 1.07256 | mg/L | 0.014009 | 1.07256 | mg/L | 0.014009 | 1.31% |
| Mo 202.031† | 6590.9 | 0.509091 | mg/L | 0.0105075 | 0.509091 | mg/L | 0.0105075 | 2.06% |
| Na 330.237† | 2389188.1 | 1672.40 | mg/L | 26.202 | 1672.40 | mg/L | 26.202 | 1.57% |
| Ni 231.604† | 17530.1 | 0.531452 | mg/L | 0.0106325 | 0.531452 | mg/L | 0.0106325 | 2.00% |
| Pb 220.353† | 2013.6 | 0.515031 | mg/L | 0.0074384 | 0.515031 | mg/L | 0.0074384 | 1.44% |
| Sb 206.836† | 535.1 | 0.450364 | mg/L | 0.0057286 | 0.450364 | mg/L | 0.0057286 | 1.27% |
| Se 196.026† | 493.6 | 0.481924 | mg/L | 0.0082629 | 0.481924 | mg/L | 0.0082629 | 1.71% |
| Sn 189.927† | 2142.3 | 0.520813 | mg/L | 0.0095256 | 0.520813 | mg/L | 0.0095256 | 1.83% |
| Ti 334.940† | 446670.1 | 0.514711 | mg/L | 0.0067046 | 0.514711 | mg/L | 0.0067046 | 1.30% |
| Tl 190.801† | 418.4 | 0.492168 | mg/L | 0.0177616 | 0.492168 | mg/L | 0.0177616 | 3.61% |
| V 290.880† | 83279.1 | 0.511856 | mg/L | 0.0078008 | 0.511856 | mg/L | 0.0078008 | 1.52% |
| Zn 206.200† | 26309.0 | 0.521293 | mg/L | 0.0110069 | 0.521293 | mg/L | 0.0110069 | 2.11% |
| Si 251.611† | 482029.7 | 10.6292 | mg/L | 0.15883 | 10.6292 | mg/L | 0.15883 | 1.49% |
| B 249.772† | 254927.0 | 2.46098 | mg/L | 0.039681 | 2.46098 | mg/L | 0.039681 | 1.61% |
| Ce 413.764 | 23668.4 | 0.441458 | mg/L | 0.0033512 | 0.441458 | mg/L | 0.0033512 | 0.76% |

Sequence No.: 36
Sample ID: AD26083-040 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 9/29/2021 12:32:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040 PS

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 673064.4 | 83.1 | % | 1.45 | | | | 1.75% |
| Y 371.029 | 686571.2 | 80.8 | % | 1.35 | | | | 1.67% |
| Ag 328.068† | 10583.9 | 0.0611090 | mg/L | 0.00052581 | 0.0611090 | mg/L | 0.00052581 | 0.86% |
| Al 308.215† | 171967.5 | 5.57916 | mg/L | 0.029644 | 5.57916 | mg/L | 0.029644 | 0.53% |
| As 188.979† | 817.7 | 0.604678 | mg/L | 0.0070160 | 0.604678 | mg/L | 0.0070160 | 1.16% |
| Ba 233.527† | 274309.1 | 2.84146 | mg/L | 0.012840 | 2.84146 | mg/L | 0.012840 | 0.45% |
| Be 313.107† | 1828312.4 | 0.559126 | mg/L | 0.0004527 | 0.559126 | mg/L | 0.0004527 | 0.08% |
| Ca 315.887† | 20512515.4 | 148.919 | mg/L | 1.6926 | 148.919 | mg/L | 1.6926 | 1.14% |
| Cd 228.802† | 28541.3 | 0.591477 | mg/L | 0.0128296 | 0.591477 | mg/L | 0.0128296 | 2.17% |
| Co 228.616† | 17966.8 | 0.571068 | mg/L | 0.0124254 | 0.571068 | mg/L | 0.0124254 | 2.18% |
| Cr 267.716† | 65332.6 | 0.556069 | mg/L | 0.0014922 | 0.556069 | mg/L | 0.0014922 | 0.27% |
| Cu 327.393† | 66277.7 | 0.567249 | mg/L | 0.0002764 | 0.567249 | mg/L | 0.0002764 | 0.05% |
| Fe 273.955† | 505393.1 | 16.8260 | mg/L | 0.06962 | 16.8260 | mg/L | 0.06962 | 0.41% |
| K 404.721† | 25580.1 | 186.501 | mg/L | 2.4214 | 186.501 | mg/L | 2.4214 | 1.30% |
| Mg 279.077† | 5017389.0 | 199.112 | mg/L | 1.3976 | 199.112 | mg/L | 1.3976 | 0.70% |
| Mn 257.610† | 915289.3 | 1.09999 | mg/L | 0.003625 | 1.09999 | mg/L | 0.003625 | 0.33% |
| Mo 202.031† | 7263.0 | 0.560807 | mg/L | 0.0113700 | 0.560807 | mg/L | 0.0113700 | 2.03% |
| Na 330.237† | 2288568.6 | 1602.01 | mg/L | 15.053 | 1602.01 | mg/L | 15.053 | 0.94% |
| Ni 231.604† | 19255.1 | 0.583661 | mg/L | 0.0109130 | 0.583661 | mg/L | 0.0109130 | 1.87% |
| Pb 220.353† | 2235.7 | 0.570705 | mg/L | 0.0101155 | 0.570705 | mg/L | 0.0101155 | 1.77% |
| Sb 206.836† | 600.6 | 0.504889 | mg/L | 0.0182323 | 0.504889 | mg/L | 0.0182323 | 3.61% |
| Se 196.026† | 549.7 | 0.536451 | mg/L | 0.0132081 | 0.536451 | mg/L | 0.0132081 | 2.46% |
| Sn 189.927† | 2337.0 | 0.568147 | mg/L | 0.0097758 | 0.568147 | mg/L | 0.0097758 | 1.72% |
| Ti 334.940† | 492594.1 | 0.567276 | mg/L | 0.0012145 | 0.567276 | mg/L | 0.0012145 | 0.21% |
| Tl 190.801† | 468.0 | 0.548568 | mg/L | 0.0061526 | 0.548568 | mg/L | 0.0061526 | 1.12% |
| V 290.880† | 92274.5 | 0.566755 | mg/L | 0.0017739 | 0.566755 | mg/L | 0.0017739 | 0.31% |
| Zn 206.200† | 29007.1 | 0.574446 | mg/L | 0.0113801 | 0.574446 | mg/L | 0.0113801 | 1.98% |
| Si 251.611† | 475582.2 | 10.4858 | mg/L | 0.00449 | 10.4858 | mg/L | 0.00449 | 0.04% |
| B 249.772† | 246208.8 | 2.37502 | mg/L | 0.015823 | 2.37502 | mg/L | 0.015823 | 0.67% |
| Ce 413.764 | 23799.1 | 0.444007 | mg/L | 0.0078939 | 0.444007 | mg/L | 0.0078939 | 1.78% |

Sequence No.: 37
Sample ID: AD26083-040 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 9/29/2021 12:36:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040 SD

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 730617.0 | 90.2 | % | 0.03 | | | | 0.03% |
| Y 371.029 | 753565.4 | 88.7 | % | 0.02 | | | | 0.03% |
| Ag 328.068† | 38.1 | 0.0007965 | mg/L | 0.00021731 | 0.0007965 | mg/L | 0.00021731 | 27.28% |
| Al 308.215† | 2203.9 | 0.0815504 | mg/L | 0.00201165 | 0.0815504 | mg/L | 0.00201165 | 2.47% |
| As 188.979† | 22.0 | 0.0195477 | mg/L | 0.00301881 | 0.0195477 | mg/L | 0.00301881 | 15.44% |
| Ba 233.527† | 44897.1 | 0.466383 | mg/L | 0.0015009 | 0.466383 | mg/L | 0.0015009 | 0.32% |
| Be 313.107† | 1484.6 | 0.0041084 | mg/L | 0.00002540 | 0.0041084 | mg/L | 0.00002540 | 0.62% |
| Ca 315.887† | 2786633.1 | 20.4653 | mg/L | 0.02746 | 20.4653 | mg/L | 0.02746 | 0.13% |
| Cd 228.802† | 5.6 | 0.0040932 | mg/L | 0.00027038 | 0.0040932 | mg/L | 0.00027038 | 6.61% |
| Co 228.616† | 79.1 | 0.0043794 | mg/L | 0.00057880 | 0.0043794 | mg/L | 0.00057880 | 13.22% |
| Cr 267.716† | -79.7 | 0.0010057 | mg/L | 0.00039926 | 0.0010057 | mg/L | 0.00039926 | 39.70% |
| Cu 327.393† | -559.0 | -0.0036277 | mg/L | 0.00075521 | -0.0036277 | mg/L | 0.00075521 | 20.82% |
| Fe 273.955† | 70104.6 | 2.34108 | mg/L | 0.013614 | 2.34108 | mg/L | 0.013614 | 0.58% |
| K 404.721† | 3351.4 | 24.0039 | mg/L | 0.28550 | 24.0039 | mg/L | 0.28550 | 1.19% |
| Mg 279.077† | 776577.1 | 30.8195 | mg/L | 0.02732 | 30.8195 | mg/L | 0.02732 | 0.09% |
| Mn 257.610† | 94214.3 | 0.114405 | mg/L | 0.0005668 | 0.114405 | mg/L | 0.0005668 | 0.50% |
| Mo 202.031† | 56.0 | 0.0061992 | mg/L | 0.00027687 | 0.0061992 | mg/L | 0.00027687 | 4.47% |
| Na 330.237† | 418948.9 | 294.127 | mg/L | 2.2249 | 294.127 | mg/L | 2.2249 | 0.76% |
| Ni 231.604† | 427.9 | 0.0138293 | mg/L | 0.00034002 | 0.0138293 | mg/L | 0.00034002 | 2.46% |
| Pb 220.353† | -31.2 | -0.0048252 | mg/L | 0.00265424 | -0.0048252 | mg/L | 0.00265424 | 55.01% |
| Sb 206.836† | -52.2 | -0.0385479 | mg/L | 0.00229247 | -0.0385479 | mg/L | 0.00229247 | 5.95% |
| Se 196.026† | -16.3 | -0.0144156 | mg/L | 0.00541406 | -0.0144156 | mg/L | 0.00541406 | 37.56% |
| Sn 189.927† | -13.6 | -0.0033288 | mg/L | 0.00073390 | -0.0033288 | mg/L | 0.00073390 | 22.05% |
| Ti 334.940† | 1919.4 | 0.0056402 | mg/L | 0.00017059 | 0.0056402 | mg/L | 0.00017059 | 3.02% |
| Tl 190.801† | -7.7 | -0.0042328 | mg/L | 0.00201986 | -0.0042328 | mg/L | 0.00201986 | 47.72% |
| V 290.880† | 49.5 | 0.0039073 | mg/L | 0.00017602 | 0.0039073 | mg/L | 0.00017602 | 4.50% |
| Zn 206.200† | 111.4 | 0.0052010 | mg/L | 0.00015040 | 0.0052010 | mg/L | 0.00015040 | 2.89% |
| Si 251.611† | 84471.6 | 1.78547 | mg/L | 0.009678 | 1.78547 | mg/L | 0.009678 | 0.54% |
| B 249.772† | 40255.8 | 0.394754 | mg/L | 0.0038329 | 0.394754 | mg/L | 0.0038329 | 0.97% |
| Ce 413.764 | 128.2 | -0.0174139 | mg/L | 0.00277761 | -0.0174139 | mg/L | 0.00277761 | 15.95% |

Sequence No.: 38
Sample ID: AD26083-003
Analyst:
Initial Sample Wt: .006 gm
Dilution:

Autosampler Location: 51
Date Collected: 9/29/2021 12:41:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-003

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 772924.0 | 95.4 | % | 0.63 | | | | 0.66% |
| Y 371.029 | 812097.2 | 95.5 | % | 0.21 | | | | 0.22% |
| Ag 328.068† | -65.9 | 0.0001285 | mg/L | 0.00018603 | 0.0001285 | mg/L | 0.00018603 | 144.72% |
| Al 308.215† | 18133.8 | 0.597423 | mg/L | 0.0026841 | 0.597423 | mg/L | 0.0026841 | 0.45% |
| As 188.979† | 9.6 | 0.0104209 | mg/L | 0.00172727 | 0.0104209 | mg/L | 0.00172727 | 16.58% |
| Ba 233.527† | 32395.5 | 0.336955 | mg/L | 0.0025650 | 0.336955 | mg/L | 0.0025650 | 0.76% |
| Be 313.107† | 1141.2 | 0.0040040 | mg/L | 0.00002689 | 0.0040040 | mg/L | 0.00002689 | 0.67% |
| Ca 315.887† | 8326624.4 | 60.6118 | mg/L | 0.41355 | 60.6118 | mg/L | 0.41355 | 0.68% |
| Cd 228.802† | 9.3 | 0.0038351 | mg/L | 0.00006912 | 0.0038351 | mg/L | 0.00006912 | 1.80% |
| Co 228.616† | 52.6 | 0.0031271 | mg/L | 0.00066193 | 0.0031271 | mg/L | 0.00066193 | 21.17% |
| Cr 267.716† | 266.7 | 0.0039451 | mg/L | 0.00016369 | 0.0039451 | mg/L | 0.00016369 | 4.15% |
| Cu 327.393† | -35.0 | 0.0014209 | mg/L | 0.00047433 | 0.0014209 | mg/L | 0.00047433 | 33.38% |
| Fe 273.955† | 31491.0 | 1.05615 | mg/L | 0.004119 | 1.05615 | mg/L | 0.004119 | 0.39% |
| K 404.721† | 558.7 | 3.58879 | mg/L | 1.273133 | 3.58879 | mg/L | 1.273133 | 35.48% |
| Mg 279.077† | 592966.1 | 23.5331 | mg/L | 0.03393 | 23.5331 | mg/L | 0.03393 | 0.14% |
| Mn 257.610† | 398042.1 | 0.479107 | mg/L | 0.0005153 | 0.479107 | mg/L | 0.0005153 | 0.11% |
| Mo 202.031† | 60.6 | 0.0065904 | mg/L | 0.00035696 | 0.0065904 | mg/L | 0.00035696 | 5.42% |
| Na 330.237† | 15690.6 | 12.0290 | mg/L | 0.03221 | 12.0290 | mg/L | 0.03221 | 0.27% |
| Ni 231.604† | 364.3 | 0.0119062 | mg/L | 0.00021203 | 0.0119062 | mg/L | 0.00021203 | 1.78% |
| Pb 220.353† | 0.8 | 0.0031598 | mg/L | 0.00055700 | 0.0031598 | mg/L | 0.00055700 | 17.63% |
| Sb 206.836† | -23.7 | -0.0149328 | mg/L | 0.00467060 | -0.0149328 | mg/L | 0.00467060 | 31.28% |
| Se 196.026† | -16.9 | -0.0151438 | mg/L | 0.00683622 | -0.0151438 | mg/L | 0.00683622 | 45.14% |
| Sn 189.927† | -8.5 | -0.0020762 | mg/L | 0.00125166 | -0.0020762 | mg/L | 0.00125166 | 60.28% |
| Ti 334.940† | 19680.7 | 0.0259702 | mg/L | 0.00038709 | 0.0259702 | mg/L | 0.00038709 | 1.49% |
| Tl 190.801† | -13.7 | -0.0082949 | mg/L | 0.00065774 | -0.0082949 | mg/L | 0.00065774 | 7.93% |
| V 290.880† | -161.0 | 0.0026226 | mg/L | 0.00057692 | 0.0026226 | mg/L | 0.00057692 | 22.00% |
| Zn 206.200† | 1294.6 | 0.0285100 | mg/L | 0.00025520 | 0.0285100 | mg/L | 0.00025520 | 0.90% |
| Si 251.611† | 485870.1 | 10.7074 | mg/L | 0.00646 | 10.7074 | mg/L | 0.00646 | 0.06% |
| B 249.772† | 2926.9 | 0.0306750 | mg/L | 0.00225425 | 0.0306750 | mg/L | 0.00225425 | 7.35% |
| Ce 413.764 | 27.0 | -0.0193880 | mg/L | 0.00154929 | -0.0193880 | mg/L | 0.00154929 | 7.99% |

Sequence No.: 39
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 12:45:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 772377.3 | 95.3 | % | 0.40 | | | | 0.42% |
| Y 371.029 | 800138.4 | 94.1 | % | 0.38 | | | | 0.40% |
| Ag 328.068† | 17174.0 | 0.0972407 | mg/L | 0.00145487 | 0.0972407 | mg/L | 0.00145487 | 1.50% |
| QC value within limits for Ag 328.068 Recovery = 97.24% | | | | | | | | |
| Al 308.215† | 150299.8 | 4.87748 | mg/L | 0.039617 | 4.87748 | mg/L | 0.039617 | 0.81% |
| QC value within limits for Al 308.215 Recovery = 97.55% | | | | | | | | |
| As 188.979† | 677.0 | 0.501249 | mg/L | 0.0045778 | 0.501249 | mg/L | 0.0045778 | 0.91% |
| QC value within limits for As 188.979 Recovery = 100.25% | | | | | | | | |
| Ba 233.527† | 46536.5 | 0.483355 | mg/L | 0.0041033 | 0.483355 | mg/L | 0.0041033 | 0.85% |
| QC value within limits for Ba 233.527 Recovery = 96.67% | | | | | | | | |
| Be 313.107† | 1586147.5 | 0.485553 | mg/L | 0.0010043 | 0.485553 | mg/L | 0.0010043 | 0.21% |
| QC value within limits for Be 313.107 Recovery = 97.11% | | | | | | | | |
| Ca 315.887† | 6703169.5 | 48.8471 | mg/L | 0.04141 | 48.8471 | mg/L | 0.04141 | 0.08% |
| QC value within limits for Ca 315.887 Recovery = 97.69% | | | | | | | | |
| Cd 228.802† | 24344.3 | 0.502636 | mg/L | 0.0023386 | 0.502636 | mg/L | 0.0023386 | 0.47% |
| QC value within limits for Cd 228.802 Recovery = 100.53% | | | | | | | | |
| Co 228.616† | 15617.3 | 0.490857 | mg/L | 0.0025854 | 0.490857 | mg/L | 0.0025854 | 0.53% |
| QC value within limits for Co 228.616 Recovery = 98.17% | | | | | | | | |
| Cr 267.716† | 57391.2 | 0.488681 | mg/L | 0.0054569 | 0.488681 | mg/L | 0.0054569 | 1.12% |
| QC value within limits for Cr 267.716 Recovery = 97.74% | | | | | | | | |
| Cu 327.393† | 57418.0 | 0.492050 | mg/L | 0.0055157 | 0.492050 | mg/L | 0.0055157 | 1.12% |
| QC value within limits for Cu 327.393 Recovery = 98.41% | | | | | | | | |
| Fe 273.955† | 145692.6 | 4.85639 | mg/L | 0.050300 | 4.85639 | mg/L | 0.050300 | 1.04% |
| QC value within limits for Fe 273.955 Recovery = 97.13% | | | | | | | | |
| K 404.721† | 6748.4 | 48.8371 | mg/L | 0.51936 | 48.8371 | mg/L | 0.51936 | 1.06% |
| QC value within limits for K 404.721 Recovery = 97.67% | | | | | | | | |
| Mg 279.077† | 1245750.8 | 49.4382 | mg/L | 0.09240 | 49.4382 | mg/L | 0.09240 | 0.19% |
| QC value within limits for Mg 279.077 Recovery = 98.88% | | | | | | | | |
| Mn 257.610† | 403516.6 | 0.485678 | mg/L | 0.0047571 | 0.485678 | mg/L | 0.0047571 | 0.98% |
| QC value within limits for Mn 257.610 Recovery = 97.14% | | | | | | | | |
| Mo 202.031† | 6243.6 | 0.482366 | mg/L | 0.0023324 | 0.482366 | mg/L | 0.0023324 | 0.48% |
| QC value within limits for Mo 202.031 Recovery = 96.47% | | | | | | | | |
| Na 330.237† | 65913.7 | 47.1625 | mg/L | 0.41453 | 47.1625 | mg/L | 0.41453 | 0.88% |
| QC value within limits for Na 330.237 Recovery = 94.32% | | | | | | | | |
| Ni 231.604† | 16353.5 | 0.495841 | mg/L | 0.0018320 | 0.495841 | mg/L | 0.0018320 | 0.37% |
| QC value within limits for Ni 231.604 Recovery = 99.17% | | | | | | | | |
| Pb 220.353† | 2024.5 | 0.512383 | mg/L | 0.0023219 | 0.512383 | mg/L | 0.0023219 | 0.45% |
| QC value within limits for Pb 220.353 Recovery = 102.48% | | | | | | | | |
| Sb 206.836† | 566.5 | 0.475924 | mg/L | 0.0045097 | 0.475924 | mg/L | 0.0045097 | 0.95% |
| QC value within limits for Sb 206.836 Recovery = 95.18% | | | | | | | | |
| Se 196.026† | 488.8 | 0.476639 | mg/L | 0.0055187 | 0.476639 | mg/L | 0.0055187 | 1.16% |
| QC value within limits for Se 196.026 Recovery = 95.33% | | | | | | | | |
| Sn 189.927† | 2056.4 | 0.499928 | mg/L | 0.0025310 | 0.499928 | mg/L | 0.0025310 | 0.51% |
| QC value within limits for Sn 189.927 Recovery = 99.99% | | | | | | | | |
| Ti 334.940† | 417050.9 | 0.480808 | mg/L | 0.0042098 | 0.480808 | mg/L | 0.0042098 | 0.88% |
| QC value within limits for Ti 334.940 Recovery = 96.16% | | | | | | | | |
| Tl 190.801† | 435.9 | 0.505300 | mg/L | 0.0008521 | 0.505300 | mg/L | 0.0008521 | 0.17% |
| QC value within limits for Tl 190.801 Recovery = 101.06% | | | | | | | | |
| V 290.880† | 78602.9 | 0.483317 | mg/L | 0.0053050 | 0.483317 | mg/L | 0.0053050 | 1.10% |
| QC value within limits for V 290.880 Recovery = 96.66% | | | | | | | | |
| Zn 206.200† | 24504.1 | 0.485738 | mg/L | 0.0024111 | 0.485738 | mg/L | 0.0024111 | 0.50% |
| QC value within limits for Zn 206.200 Recovery = 97.15% | | | | | | | | |
| Si 251.611† | 219184.7 | 4.78107 | mg/L | 0.043727 | 4.78107 | mg/L | 0.043727 | 0.91% |
| QC value within limits for Si 251.611 Recovery = 95.62% | | | | | | | | |
| B 249.772† | 46785.2 | 0.449624 | mg/L | 0.0100161 | 0.449624 | mg/L | 0.0100161 | 2.23% |
| QC value less than the lower limit for B 249.772 Recovery = 89.92% | | | | | | | | |
| Ce 413.764 | 26643.7 | 0.499457 | mg/L | 0.0039237 | 0.499457 | mg/L | 0.0039237 | 0.79% |
| QC value within limits for Ce 413.764 Recovery = 99.89% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 40
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 12:49:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 822436.3 | 102 | % | 0.6 | | | | 0.56% |
| Y 371.029 | 872776.7 | 103 | % | 0.6 | | | | 0.56% |
| Ag 328.068† | -73.1 | 0.0000177 | mg/L | 0.00014832 | 0.0000177 | mg/L | 0.00014832 | 839.65% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -89.3 | 0.0072894 | mg/L | 0.00337951 | 0.0072894 | mg/L | 0.00337951 | 46.36% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 11.9 | 0.0120935 | mg/L | 0.00226992 | 0.0120935 | mg/L | 0.00226992 | 18.77% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -68.9 | 0.0008541 | mg/L | 0.00014209 | 0.0008541 | mg/L | 0.00014209 | 16.64% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1072.7 | 0.0039832 | mg/L | 0.00005561 | 0.0039832 | mg/L | 0.00005561 | 1.40% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 739.2 | 0.276920 | mg/L | 0.0005005 | 0.276920 | mg/L | 0.0005005 | 0.18% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 40.2 | 0.0041283 | mg/L | 0.00021749 | 0.0041283 | mg/L | 0.00021749 | 5.27% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 60.0 | 0.0024629 | mg/L | 0.00028862 | 0.0024629 | mg/L | 0.00028862 | 11.72% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 13.6 | 0.0017971 | mg/L | 0.00018109 | 0.0017971 | mg/L | 0.00018109 | 10.08% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 386.7 | 0.0045691 | mg/L | 0.00095788 | 0.0045691 | mg/L | 0.00095788 | 20.96% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -215.3 | 0.0010732 | mg/L | 0.00100819 | 0.0010732 | mg/L | 0.00100819 | 93.94% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 322.2 | 1.86005 | mg/L | 0.495031 | 1.86005 | mg/L | 0.495031 | 26.61% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -1.9 | 0.0017181 | mg/L | 0.00174384 | 0.0017181 | mg/L | 0.00174384 | 101.50% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 26.1 | 0.0013452 | mg/L | 0.00003445 | 0.0013452 | mg/L | 0.00003445 | 2.56% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 11.7 | 0.0027806 | mg/L | 0.00061864 | 0.0027806 | mg/L | 0.00061864 | 22.25% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 71.0 | 1.10236 | mg/L | 0.065704 | 1.10236 | mg/L | 0.065704 | 5.96% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 104.4 | 0.0040384 | mg/L | 0.00020382 | 0.0040384 | mg/L | 0.00020382 | 5.05% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 21.8 | 0.0073444 | mg/L | 0.00044763 | 0.0073444 | mg/L | 0.00044763 | 6.09% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -5.2 | 0.0001098 | mg/L | 0.00444702 | 0.0001098 | mg/L | 0.00444702 | >999.9% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -6.7 | -0.0052164 | mg/L | 0.00723206 | -0.0052164 | mg/L | 0.00723206 | 138.64% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -3.5 | -0.0008620 | mg/L | 0.00159272 | -0.0008620 | mg/L | 0.00159272 | 184.78% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -38.5 | 0.0033992 | mg/L | 0.00005606 | 0.0033992 | mg/L | 0.00005606 | 1.65% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -4.0 | -0.0014888 | mg/L | 0.00361696 | -0.0014888 | mg/L | 0.00361696 | 242.95% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -8.8 | 0.0035513 | mg/L | 0.00019529 | 0.0035513 | mg/L | 0.00019529 | 5.50% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -9.4 | 0.0028219 | mg/L | 0.00007456 | 0.0028219 | mg/L | 0.00007456 | 2.64% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 590.9 | -0.0801305 | mg/L | 0.00090205 | -0.0801305 | mg/L | 0.00090205 | 1.13% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -198.8 | 0.0038339 | mg/L | 0.00186068 | 0.0038339 | mg/L | 0.00186068 | 48.53% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -60.4 | -0.0210916 | mg/L | 0.00215579 | -0.0210916 | mg/L | 0.00215579 | 10.22% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: AD26083-006
Analyst:
Initial Sample Wt: 0.2g
Dilution:

Autosampler Location: 52
Date Collected: 9/29/2021 12:53:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-006

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 800244.0 | 98.8 | % | 0.45 | | | | 0.46% |
| Y 371.029 | 839288.2 | 98.7 | % | 0.50 | | | | 0.51% |
| Ag 328.068† | -353.4 | -0.0002375 | mg/L | 0.00025344 | -0.0002375 | mg/L | 0.00025344 | 106.70% |
| Al 308.215† | 9415.2 | 0.315081 | mg/L | 0.0022032 | 0.315081 | mg/L | 0.0022032 | 0.70% |
| As 188.979† | 9.4 | 0.0102279 | mg/L | 0.00372473 | 0.0102279 | mg/L | 0.00372473 | 36.42% |
| Ba 233.527† | 10778.8 | 0.113159 | mg/L | 0.0006013 | 0.113159 | mg/L | 0.0006013 | 0.53% |
| Be 313.107† | 1038.5 | 0.0039728 | mg/L | 0.00000925 | 0.0039728 | mg/L | 0.00000925 | 0.23% |
| Ca 315.887† | 1175801.9 | 8.79220 | mg/L | 0.003198 | 8.79220 | mg/L | 0.003198 | 0.04% |
| Cd 228.802† | -131.5 | 0.0055542 | mg/L | 0.00032901 | 0.0055542 | mg/L | 0.00032901 | 5.92% |
| Co 228.616† | 77.2 | 0.0033067 | mg/L | 0.00067283 | 0.0033067 | mg/L | 0.00067283 | 20.35% |
| Cr 267.716† | 106.9 | 0.0025888 | mg/L | 0.00020783 | 0.0025888 | mg/L | 0.00020783 | 8.03% |
| Cu 327.393† | 479.8 | 0.0054003 | mg/L | 0.00061732 | 0.0054003 | mg/L | 0.00061732 | 11.43% |
| Fe 273.955† | 598121.5 | 19.9117 | mg/L | 0.01778 | 19.9117 | mg/L | 0.01778 | 0.09% |
| K 404.721† | 691.0 | 4.55623 | mg/L | 0.345473 | 4.55623 | mg/L | 0.345473 | 7.58% |
| Mg 279.077† | 145976.3 | 5.79472 | mg/L | 0.001645 | 5.79472 | mg/L | 0.001645 | 0.03% |
| Mn 257.610† | 620422.8 | 0.746043 | mg/L | 0.0007150 | 0.746043 | mg/L | 0.0007150 | 0.10% |
| Mo 202.031† | 39.1 | 0.0049157 | mg/L | 0.00030966 | 0.0049157 | mg/L | 0.00030966 | 6.30% |
| Na 330.237† | 10632.4 | 8.49058 | mg/L | 0.015852 | 8.49058 | mg/L | 0.015852 | 0.19% |
| Ni 231.604† | 203.1 | 0.0070274 | mg/L | 0.00041002 | 0.0070274 | mg/L | 0.00041002 | 5.83% |
| Pb 220.353† | 10.5 | 0.0048472 | mg/L | 0.00013222 | 0.0048472 | mg/L | 0.00013222 | 2.73% |
| Sb 206.836† | -11.2 | -0.0047438 | mg/L | 0.00316298 | -0.0047438 | mg/L | 0.00316298 | 66.68% |
| Se 196.026† | -11.5 | -0.0089433 | mg/L | 0.00291510 | -0.0089433 | mg/L | 0.00291510 | 32.60% |
| Sn 189.927† | -7.3 | -0.0017949 | mg/L | 0.00086573 | -0.0017949 | mg/L | 0.00086573 | 48.23% |
| Ti 334.940† | 5101.8 | 0.0092830 | mg/L | 0.00006070 | 0.0092830 | mg/L | 0.00006070 | 0.65% |
| Tl 190.801† | -9.5 | -0.0070640 | mg/L | 0.00342612 | -0.0070640 | mg/L | 0.00342612 | 48.50% |
| V 290.880† | 349.2 | 0.0057364 | mg/L | 0.00079432 | 0.0057364 | mg/L | 0.00079432 | 13.85% |
| Zn 206.200† | 1942.3 | 0.0412694 | mg/L | 0.00033376 | 0.0412694 | mg/L | 0.00033376 | 0.81% |
| Si 251.611† | 222903.6 | 4.87052 | mg/L | 0.003179 | 4.87052 | mg/L | 0.003179 | 0.07% |
| B 249.772† | 10383.4 | 0.0318457 | mg/L | 0.00039134 | 0.0318457 | mg/L | 0.00039134 | 1.23% |
| Ce 413.764 | 156.6 | -0.0168607 | mg/L | 0.00148082 | -0.0168607 | mg/L | 0.00148082 | 8.78% |

Sequence No.: 42
Sample ID: AD26083-012
Analyst:
Initial Sample Wt: .014 gm
Dilution:

Autosampler Location: 53
Date Collected: 9/29/2021 12:56:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-012

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 786428.0 | 97.1 | % | 0.73 | | | | 0.75% |
| Y 371.029 | 815668.4 | 96.0 | % | 0.85 | | | | 0.89% |
| Ag 328.068† | -70.8 | 0.0000896 | mg/L | 0.00015736 | 0.0000896 | mg/L | 0.00015736 | 175.60% |
| Al 308.215† | 9757.7 | 0.326173 | mg/L | 0.0029334 | 0.326173 | mg/L | 0.0029334 | 0.90% |
| As 188.979† | 30.2 | 0.0255775 | mg/L | 0.00438281 | 0.0255775 | mg/L | 0.00438281 | 17.14% |
| Ba 233.527† | 11104.0 | 0.116526 | mg/L | 0.0010332 | 0.116526 | mg/L | 0.0010332 | 0.89% |
| Be 313.107† | 1340.9 | 0.0040647 | mg/L | 0.00002670 | 0.0040647 | mg/L | 0.00002670 | 0.66% |
| Ca 315.887† | 2662180.1 | 19.5635 | mg/L | 0.05460 | 19.5635 | mg/L | 0.05460 | 0.28% |
| Cd 228.802† | 30.2 | 0.0041725 | mg/L | 0.00005210 | 0.0041725 | mg/L | 0.00005210 | 1.25% |
| Co 228.616† | 76.7 | 0.0032733 | mg/L | 0.00035556 | 0.0032733 | mg/L | 0.00035556 | 10.86% |
| Cr 267.716† | 112.7 | 0.0026383 | mg/L | 0.00001948 | 0.0026383 | mg/L | 0.00001948 | 0.74% |
| Cu 327.393† | 200.2 | 0.0030951 | mg/L | 0.00097780 | 0.0030951 | mg/L | 0.00097780 | 31.59% |
| Fe 273.955† | 25513.6 | 0.857244 | mg/L | 0.0069092 | 0.857244 | mg/L | 0.0069092 | 0.81% |
| K 404.721† | 445.7 | 2.76262 | mg/L | 1.055862 | 2.76262 | mg/L | 1.055862 | 38.22% |
| Mg 279.077† | 246067.9 | 9.76675 | mg/L | 0.078858 | 9.76675 | mg/L | 0.078858 | 0.81% |
| Mn 257.610† | 86485.2 | 0.105127 | mg/L | 0.0009318 | 0.105127 | mg/L | 0.0009318 | 0.89% |
| Mo 202.031† | 68.9 | 0.0072072 | mg/L | 0.00005006 | 0.0072072 | mg/L | 0.00005006 | 0.69% |
| Na 330.237† | 147764.3 | 104.421 | mg/L | 0.8663 | 104.421 | mg/L | 0.8663 | 0.83% |
| Ni 231.604† | 233.6 | 0.0079492 | mg/L | 0.00049085 | 0.0079492 | mg/L | 0.00049085 | 6.17% |
| Pb 220.353† | 10.3 | 0.0049376 | mg/L | 0.00132663 | 0.0049376 | mg/L | 0.00132663 | 26.87% |
| Sb 206.836† | -15.5 | -0.0082810 | mg/L | 0.00168813 | -0.0082810 | mg/L | 0.00168813 | 20.39% |
| Se 196.026† | -9.1 | -0.0075478 | mg/L | 0.00493235 | -0.0075478 | mg/L | 0.00493235 | 65.35% |
| Sn 189.927† | -5.4 | -0.0013223 | mg/L | 0.00032667 | -0.0013223 | mg/L | 0.00032667 | 24.70% |
| Ti 334.940† | 14219.6 | 0.0197194 | mg/L | 0.00055961 | 0.0197194 | mg/L | 0.00055961 | 2.84% |
| Tl 190.801† | -10.3 | -0.0072377 | mg/L | 0.00239227 | -0.0072377 | mg/L | 0.00239227 | 33.05% |
| V 290.880† | 36.2 | 0.0038262 | mg/L | 0.00025767 | 0.0038262 | mg/L | 0.00025767 | 6.73% |
| Zn 206.200† | 1212.4 | 0.0268916 | mg/L | 0.00051329 | 0.0268916 | mg/L | 0.00051329 | 1.91% |
| Si 251.611† | 363053.8 | 7.97727 | mg/L | 0.061153 | 7.97727 | mg/L | 0.061153 | 0.77% |
| B 249.772† | 3178.2 | 0.0339240 | mg/L | 0.00058030 | 0.0339240 | mg/L | 0.00058030 | 1.71% |
| Ce 413.764 | 134.4 | -0.0172948 | mg/L | 0.00232271 | -0.0172948 | mg/L | 0.00232271 | 13.43% |

Sequence No.: 43
Sample ID: AD26083-014
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 9/29/2021 1:01:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-014

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 805390.0 | 99.4 | % | 0.49 | | | | 0.50% |
| Y 371.029 | 840632.1 | 98.9 | % | 0.48 | | | | 0.49% |
| Ag 328.068† | -54.8 | 0.0001387 | mg/L | 0.00008595 | 0.0001387 | mg/L | 0.00008595 | 61.96% |
| Al 308.215† | 3368.5 | 0.119266 | mg/L | 0.0033152 | 0.119266 | mg/L | 0.0033152 | 2.78% |
| As 188.979† | 11.3 | 0.0116399 | mg/L | 0.00066275 | 0.0116399 | mg/L | 0.00066275 | 5.69% |
| Ba 233.527† | 17666.8 | 0.184469 | mg/L | 0.0018714 | 0.184469 | mg/L | 0.0018714 | 1.01% |
| Be 313.107† | 1025.7 | 0.0039689 | mg/L | 0.00001605 | 0.0039689 | mg/L | 0.00001605 | 0.40% |
| Ca 315.887† | 5729073.8 | 41.7882 | mg/L | 0.08773 | 41.7882 | mg/L | 0.08773 | 0.21% |
| Cd 228.802† | 23.9 | 0.0038841 | mg/L | 0.00038026 | 0.0038841 | mg/L | 0.00038026 | 9.79% |
| Co 228.616† | 53.6 | 0.0027706 | mg/L | 0.00006721 | 0.0027706 | mg/L | 0.00006721 | 2.43% |
| Cr 267.716† | 32.0 | 0.0019537 | mg/L | 0.00031230 | 0.0019537 | mg/L | 0.00031230 | 15.99% |
| Cu 327.393† | 201.3 | 0.0033583 | mg/L | 0.00047045 | 0.0033583 | mg/L | 0.00047045 | 14.01% |
| Fe 273.955† | 8029.7 | 0.275438 | mg/L | 0.0041759 | 0.275438 | mg/L | 0.0041759 | 1.52% |
| K 404.721† | 144.0 | 0.557229 | mg/L | 0.0920332 | 0.557229 | mg/L | 0.0920332 | 16.52% |
| Mg 279.077† | 278335.9 | 11.0473 | mg/L | 0.13220 | 11.0473 | mg/L | 0.13220 | 1.20% |
| Mn 257.610† | 216848.0 | 0.261609 | mg/L | 0.0024685 | 0.261609 | mg/L | 0.0024685 | 0.94% |
| Mo 202.031† | 71.3 | 0.0073778 | mg/L | 0.00020804 | 0.0073778 | mg/L | 0.00020804 | 2.82% |
| Na 330.237† | 18269.4 | 13.8330 | mg/L | 0.09426 | 13.8330 | mg/L | 0.09426 | 0.68% |
| Ni 231.604† | 168.7 | 0.0059868 | mg/L | 0.00019725 | 0.0059868 | mg/L | 0.00019725 | 3.29% |
| Pb 220.353† | 18.1 | 0.0068444 | mg/L | 0.00145357 | 0.0068444 | mg/L | 0.00145357 | 21.24% |
| Sb 206.836† | -10.1 | -0.0038838 | mg/L | 0.00261829 | -0.0038838 | mg/L | 0.00261829 | 67.41% |
| Se 196.026† | -6.3 | -0.0048717 | mg/L | 0.00165029 | -0.0048717 | mg/L | 0.00165029 | 33.88% |
| Sn 189.927† | -7.6 | -0.0018622 | mg/L | 0.00031830 | -0.0018622 | mg/L | 0.00031830 | 17.09% |
| Ti 334.940† | 4324.0 | 0.0083926 | mg/L | 0.00026737 | 0.0083926 | mg/L | 0.00026737 | 3.19% |
| Tl 190.801† | -12.6 | -0.0084566 | mg/L | 0.00298006 | -0.0084566 | mg/L | 0.00298006 | 35.24% |
| V 290.880† | -159.5 | 0.0026316 | mg/L | 0.00080291 | 0.0026316 | mg/L | 0.00080291 | 30.51% |
| Zn 206.200† | 743.4 | 0.0176516 | mg/L | 0.00016941 | 0.0176516 | mg/L | 0.00016941 | 0.96% |
| Si 251.611† | 342999.6 | 7.53123 | mg/L | 0.078001 | 7.53123 | mg/L | 0.078001 | 1.04% |
| B 249.772† | 2139.5 | 0.0258942 | mg/L | 0.00046351 | 0.0258942 | mg/L | 0.00046351 | 1.79% |
| Ce 413.764 | -4.1 | -0.0199943 | mg/L | 0.00257528 | -0.0199943 | mg/L | 0.00257528 | 12.88% |

Sequence No.: 44
Sample ID: AD26083-016
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 55
Date Collected: 9/29/2021 1:05:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-016

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 732528.4 | 90.4 | % | 0.39 | | | | 0.43% |
| Y 371.029 | 753239.3 | 88.6 | % | 0.38 | | | | 0.43% |
| Ag 328.068† | 32.2 | 0.0006980 | mg/L | 0.00031513 | 0.0006980 | mg/L | 0.00031513 | 45.14% |
| Al 308.215† | 8346.3 | 0.280467 | mg/L | 0.0040509 | 0.280467 | mg/L | 0.0040509 | 1.44% |
| As 188.979† | 28.1 | 0.0240199 | mg/L | 0.00093071 | 0.0240199 | mg/L | 0.00093071 | 3.87% |
| Ba 233.527† | 7504.7 | 0.0792628 | mg/L | 0.00071766 | 0.0792628 | mg/L | 0.00071766 | 0.91% |
| Be 313.107† | 1421.8 | 0.0040893 | mg/L | 0.00005203 | 0.0040893 | mg/L | 0.00005203 | 1.27% |
| Ca 315.887† | 4405737.1 | 32.1984 | mg/L | 0.02587 | 32.1984 | mg/L | 0.02587 | 0.08% |
| Cd 228.802† | 17.0 | 0.0040790 | mg/L | 0.00007594 | 0.0040790 | mg/L | 0.00007594 | 1.86% |
| Co 228.616† | 88.3 | 0.0035423 | mg/L | 0.00025892 | 0.0035423 | mg/L | 0.00025892 | 7.31% |
| Cr 267.716† | -66.3 | 0.0011190 | mg/L | 0.00015429 | 0.0011190 | mg/L | 0.00015429 | 13.79% |
| Cu 327.393† | -363.5 | -0.0019570 | mg/L | 0.00086807 | -0.0019570 | mg/L | 0.00086807 | 44.36% |
| Fe 273.955† | 41839.3 | 1.40051 | mg/L | 0.001352 | 1.40051 | mg/L | 0.001352 | 0.10% |
| K 404.721† | 4486.3 | 32.3007 | mg/L | 0.49762 | 32.3007 | mg/L | 0.49762 | 1.54% |
| Mg 279.077† | 1083932.2 | 43.0166 | mg/L | 0.02694 | 43.0166 | mg/L | 0.02694 | 0.06% |
| Mn 257.610† | 102225.3 | 0.124021 | mg/L | 0.0001288 | 0.124021 | mg/L | 0.0001288 | 0.10% |
| Mo 202.031† | 103.8 | 0.0098880 | mg/L | 0.00011475 | 0.0098880 | mg/L | 0.00011475 | 1.16% |
| Na 330.237† | 909669.1 | 637.409 | mg/L | 0.9267 | 637.409 | mg/L | 0.9267 | 0.15% |
| Ni 231.604† | 375.3 | 0.0122376 | mg/L | 0.00028796 | 0.0122376 | mg/L | 0.00028796 | 2.35% |
| Pb 220.353† | -14.1 | -0.0000400 | mg/L | 0.00023150 | -0.0000400 | mg/L | 0.00023150 | 578.38% |
| Sb 206.836† | -47.4 | -0.0345463 | mg/L | 0.00278433 | -0.0345463 | mg/L | 0.00278433 | 8.06% |
| Se 196.026† | -14.5 | -0.0127566 | mg/L | 0.00763777 | -0.0127566 | mg/L | 0.00763777 | 59.87% |
| Sn 189.927† | -16.4 | -0.0040091 | mg/L | 0.00079595 | -0.0040091 | mg/L | 0.00079595 | 19.85% |
| Ti 334.940† | 10455.8 | 0.0154112 | mg/L | 0.00051296 | 0.0154112 | mg/L | 0.00051296 | 3.33% |
| Tl 190.801† | -13.7 | -0.0102830 | mg/L | 0.00080486 | -0.0102830 | mg/L | 0.00080486 | 7.83% |
| V 290.880† | -579.2 | 0.0000703 | mg/L | 0.00053331 | 0.0000703 | mg/L | 0.00053331 | 758.47% |
| Zn 206.200† | 320.6 | 0.0093231 | mg/L | 0.00014827 | 0.0093231 | mg/L | 0.00014827 | 1.59% |
| Si 251.611† | 489834.4 | 10.7957 | mg/L | 0.01417 | 10.7957 | mg/L | 0.01417 | 0.13% |
| B 249.772† | 39935.3 | 0.395205 | mg/L | 0.0047996 | 0.395205 | mg/L | 0.0047996 | 1.21% |
| Ce 413.764 | -123.3 | -0.0223172 | mg/L | 0.00264576 | -0.0223172 | mg/L | 0.00264576 | 11.86% |

Sequence No.: 45
Sample ID: AD26083-019
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 56
Date Collected: 9/29/2021 1:09:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-019

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 804944.7 | 99.4 | % | 1.19 | | | | 1.20% |
| Y 371.029 | 840517.8 | 98.9 | % | 1.03 | | | | 1.04% |
| Ag 328.068† | -77.6 | 0.0001183 | mg/L | 0.00042686 | 0.0001183 | mg/L | 0.00042686 | 360.88% |
| Al 308.215† | 30482.4 | 0.997320 | mg/L | 0.0179564 | 0.997320 | mg/L | 0.0179564 | 1.80% |
| As 188.979† | 11.2 | 0.0115391 | mg/L | 0.00320537 | 0.0115391 | mg/L | 0.00320537 | 27.78% |
| Ba 233.527† | 19631.7 | 0.204813 | mg/L | 0.0021708 | 0.204813 | mg/L | 0.0021708 | 1.06% |
| Be 313.107† | 1340.2 | 0.0040645 | mg/L | 0.00005830 | 0.0040645 | mg/L | 0.00005830 | 1.43% |
| Ca 315.887† | 4933721.0 | 36.0245 | mg/L | 0.03529 | 36.0245 | mg/L | 0.03529 | 0.10% |
| Cd 228.802† | 12.7 | 0.0040883 | mg/L | 0.00026686 | 0.0040883 | mg/L | 0.00026686 | 6.53% |
| Co 228.616† | 92.7 | 0.0039768 | mg/L | 0.00053915 | 0.0039768 | mg/L | 0.00053915 | 13.56% |
| Cr 267.716† | 447.5 | 0.0054794 | mg/L | 0.00044212 | 0.0054794 | mg/L | 0.00044212 | 8.07% |
| Cu 327.393† | 348.7 | 0.0045416 | mg/L | 0.00034957 | 0.0045416 | mg/L | 0.00034957 | 7.70% |
| Fe 273.955† | 55497.4 | 1.85500 | mg/L | 0.018597 | 1.85500 | mg/L | 0.018597 | 1.00% |
| K 404.721† | 121.2 | 0.390384 | mg/L | 1.0687379 | 0.390384 | mg/L | 1.0687379 | 273.77% |
| Mg 279.077† | 293854.7 | 11.6631 | mg/L | 0.10712 | 11.6631 | mg/L | 0.10712 | 0.92% |
| Mn 257.610† | 197086.6 | 0.237888 | mg/L | 0.0024990 | 0.237888 | mg/L | 0.0024990 | 1.05% |
| Mo 202.031† | 91.3 | 0.0089794 | mg/L | 0.00071499 | 0.0089794 | mg/L | 0.00071499 | 7.96% |
| Na 330.237† | 27251.7 | 20.1166 | mg/L | 0.14272 | 20.1166 | mg/L | 0.14272 | 0.71% |
| Ni 231.604† | 325.0 | 0.0107147 | mg/L | 0.00036671 | 0.0107147 | mg/L | 0.00036671 | 3.42% |
| Pb 220.353† | 17.8 | 0.0071914 | mg/L | 0.00135131 | 0.0071914 | mg/L | 0.00135131 | 18.79% |
| Sb 206.836† | -15.6 | -0.0080859 | mg/L | 0.00422365 | -0.0080859 | mg/L | 0.00422365 | 52.23% |
| Se 196.026† | -10.9 | -0.0093160 | mg/L | 0.00597078 | -0.0093160 | mg/L | 0.00597078 | 64.09% |
| Sn 189.927† | 0.2 | 0.0000243 | mg/L | 0.00098855 | 0.0000243 | mg/L | 0.00098855 | >999.9% |
| Ti 334.940† | 30956.7 | 0.0388770 | mg/L | 0.00050260 | 0.0388770 | mg/L | 0.00050260 | 1.29% |
| Tl 190.801† | -11.3 | -0.0072510 | mg/L | 0.00075900 | -0.0072510 | mg/L | 0.00075900 | 10.47% |
| V 290.880† | 379.7 | 0.0059225 | mg/L | 0.00012908 | 0.0059225 | mg/L | 0.00012908 | 2.18% |
| Zn 206.200† | 1670.9 | 0.0359225 | mg/L | 0.00027653 | 0.0359225 | mg/L | 0.00027653 | 0.77% |
| Si 251.611† | 381435.2 | 8.38631 | mg/L | 0.012624 | 8.38631 | mg/L | 0.012624 | 0.15% |
| B 249.772† | 6516.1 | 0.0630832 | mg/L | 0.00041792 | 0.0630832 | mg/L | 0.00041792 | 0.66% |
| Ce 413.764 | 208.3 | -0.0158529 | mg/L | 0.00025521 | -0.0158529 | mg/L | 0.00025521 | 1.61% |

Sequence No.: 46
Sample ID: AD26083-001
Analyst:
Initial Sample Wt: -0.0239
Dilution:

Autosampler Location: 57
Date Collected: 9/29/2021 1:13:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-001

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 812743.6 | 100 | % | 1.5 | | | | 1.48% |
| Y 371.029 | 849938.6 | 100.0 | % | 1.41 | | | | 1.41% |
| Ag 328.068† | -89.8 | 0.0000422 | mg/L | 0.00011954 | 0.0000422 | mg/L | 0.00011954 | 283.50% |
| Al 308.215† | 27747.2 | 0.908744 | mg/L | 0.0046169 | 0.908744 | mg/L | 0.0046169 | 0.51% |
| As 188.979† | 8.3 | 0.0093748 | mg/L | 0.00289618 | 0.0093748 | mg/L | 0.00289618 | 30.89% |
| Ba 233.527† | 18777.7 | 0.195971 | mg/L | 0.0004515 | 0.195971 | mg/L | 0.0004515 | 0.23% |
| Be 313.107† | 1385.7 | 0.0040783 | mg/L | 0.00002466 | 0.0040783 | mg/L | 0.00002466 | 0.60% |
| Ca 315.887† | 4802333.4 | 35.0724 | mg/L | 0.09639 | 35.0724 | mg/L | 0.09639 | 0.27% |
| Cd 228.802† | 17.0 | 0.0041374 | mg/L | 0.00011154 | 0.0041374 | mg/L | 0.00011154 | 2.70% |
| Co 228.616† | 87.2 | 0.0037845 | mg/L | 0.00045688 | 0.0037845 | mg/L | 0.00045688 | 12.07% |
| Cr 267.716† | 474.9 | 0.0057121 | mg/L | 0.00022357 | 0.0057121 | mg/L | 0.00022357 | 3.91% |
| Cu 327.393† | 514.1 | 0.0059503 | mg/L | 0.00088921 | 0.0059503 | mg/L | 0.00088921 | 14.94% |
| Fe 273.955† | 51989.2 | 1.73826 | mg/L | 0.004359 | 1.73826 | mg/L | 0.004359 | 0.25% |
| K 404.721† | 394.5 | 2.38809 | mg/L | 0.868387 | 2.38809 | mg/L | 0.868387 | 36.36% |
| Mg 279.077† | 278958.8 | 11.0720 | mg/L | 0.05191 | 11.0720 | mg/L | 0.05191 | 0.47% |
| Mn 257.610† | 188799.9 | 0.227941 | mg/L | 0.0006916 | 0.227941 | mg/L | 0.0006916 | 0.30% |
| Mo 202.031† | 84.1 | 0.0084193 | mg/L | 0.00060367 | 0.0084193 | mg/L | 0.00060367 | 7.17% |
| Na 330.237† | 26018.6 | 19.2539 | mg/L | 0.04568 | 19.2539 | mg/L | 0.04568 | 0.24% |
| Ni 231.604† | 290.9 | 0.0096851 | mg/L | 0.00014780 | 0.0096851 | mg/L | 0.00014780 | 1.53% |
| Pb 220.353† | 30.1 | 0.0102098 | mg/L | 0.00203215 | 0.0102098 | mg/L | 0.00203215 | 19.90% |
| Sb 206.836† | -9.8 | -0.0033517 | mg/L | 0.00250356 | -0.0033517 | mg/L | 0.00250356 | 74.70% |
| Se 196.026† | -5.0 | -0.0036223 | mg/L | 0.01050564 | -0.0036223 | mg/L | 0.01050564 | 290.03% |
| Sn 189.927† | 4.3 | 0.0010343 | mg/L | 0.00145546 | 0.0010343 | mg/L | 0.00145546 | 140.72% |
| Ti 334.940† | 28934.3 | 0.0365621 | mg/L | 0.00017500 | 0.0365621 | mg/L | 0.00017500 | 0.48% |
| Tl 190.801† | -14.1 | -0.0105064 | mg/L | 0.00276806 | -0.0105064 | mg/L | 0.00276806 | 26.35% |
| V 290.880† | 253.4 | 0.0051518 | mg/L | 0.00045826 | 0.0051518 | mg/L | 0.00045826 | 8.90% |
| Zn 206.200† | 1953.5 | 0.0414901 | mg/L | 0.00038472 | 0.0414901 | mg/L | 0.00038472 | 0.93% |
| Si 251.611† | 368516.5 | 8.09909 | mg/L | 0.018895 | 8.09909 | mg/L | 0.018895 | 0.23% |
| B 249.772† | 5862.4 | 0.0570699 | mg/L | 0.00022434 | 0.0570699 | mg/L | 0.00022434 | 0.39% |
| Ce 413.764 | 184.3 | -0.0163212 | mg/L | 0.00037241 | -0.0163212 | mg/L | 0.00037241 | 2.28% |

Sequence No.: 47
Sample ID: AD26083-028
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 58
Date Collected: 9/29/2021 1:17:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-028

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 752866.2 | 92.9 | % | 0.52 | | | | 0.56% |
| Y 371.029 | 779949.6 | 91.8 | % | 0.49 | | | | 0.54% |
| Ag 328.068† | -396.1 | -0.0008018 | mg/L | 0.00034791 | -0.0008018 | mg/L | 0.00034791 | 43.39% |
| Al 308.215† | 243132.4 | 7.88376 | mg/L | 0.006453 | 7.88376 | mg/L | 0.006453 | 0.08% |
| As 188.979† | 11.3 | 0.0111567 | mg/L | 0.00131969 | 0.0111567 | mg/L | 0.00131969 | 11.83% |
| Ba 233.527† | 155809.9 | 1.61465 | mg/L | 0.002319 | 1.61465 | mg/L | 0.002319 | 0.14% |
| Be 313.107† | 3693.6 | 0.0047795 | mg/L | 0.00002193 | 0.0047795 | mg/L | 0.00002193 | 0.46% |
| Ca 315.887† | 32058143.7 | 232.586 | mg/L | 3.6449 | 232.586 | mg/L | 3.6449 | 1.57% |
| Cd 228.802† | -141.1 | 0.0043683 | mg/L | 0.00011754 | 0.0043683 | mg/L | 0.00011754 | 2.69% |
| Co 228.616† | 227.4 | 0.0113009 | mg/L | 0.00044859 | 0.0113009 | mg/L | 0.00044859 | 3.97% |
| Cr 267.716† | 2388.7 | 0.0219513 | mg/L | 0.00022503 | 0.0219513 | mg/L | 0.00022503 | 1.03% |
| Cu 327.393† | 678.6 | 0.0090242 | mg/L | 0.00012348 | 0.0090242 | mg/L | 0.00012348 | 1.37% |
| Fe 273.955† | 442461.5 | 14.7319 | mg/L | 0.03124 | 14.7319 | mg/L | 0.03124 | 0.21% |
| K 404.721† | 1868.3 | 13.1623 | mg/L | 0.90166 | 13.1623 | mg/L | 0.90166 | 6.85% |
| Mg 279.077† | 1843980.2 | 73.1783 | mg/L | 0.26191 | 73.1783 | mg/L | 0.26191 | 0.36% |
| Mn 257.610† | 920079.8 | 1.10574 | mg/L | 0.002543 | 1.10574 | mg/L | 0.002543 | 0.23% |
| Mo 202.031† | 136.3 | 0.0129714 | mg/L | 0.00114341 | 0.0129714 | mg/L | 0.00114341 | 8.81% |
| Na 330.237† | 313520.1 | 220.375 | mg/L | 0.2943 | 220.375 | mg/L | 0.2943 | 0.13% |
| Ni 231.604† | 1153.9 | 0.0358043 | mg/L | 0.00081552 | 0.0358043 | mg/L | 0.00081552 | 2.28% |
| Pb 220.353† | 30.2 | 0.0156394 | mg/L | 0.00034187 | 0.0156394 | mg/L | 0.00034187 | 2.19% |
| Sb 206.836† | -44.1 | -0.0292477 | mg/L | 0.00086907 | -0.0292477 | mg/L | 0.00086907 | 2.97% |
| Se 196.026† | -31.7 | -0.0300185 | mg/L | 0.00126439 | -0.0300185 | mg/L | 0.00126439 | 4.21% |
| Sn 189.927† | -15.5 | -0.0037795 | mg/L | 0.00099498 | -0.0037795 | mg/L | 0.00099498 | 26.33% |
| Ti 334.940† | 342215.0 | 0.395149 | mg/L | 0.0012776 | 0.395149 | mg/L | 0.0012776 | 0.32% |
| Tl 190.801† | -22.0 | -0.0053275 | mg/L | 0.00199223 | -0.0053275 | mg/L | 0.00199223 | 37.40% |
| V 290.880† | 2567.5 | 0.0192749 | mg/L | 0.00089357 | 0.0192749 | mg/L | 0.00089357 | 4.64% |
| Zn 206.200† | 4256.2 | 0.0868544 | mg/L | 0.00131477 | 0.0868544 | mg/L | 0.00131477 | 1.51% |
| Si 251.611† | 950156.5 | 21.0339 | mg/L | 0.04477 | 21.0339 | mg/L | 0.04477 | 0.21% |
| B 249.772† | 32462.3 | 0.270039 | mg/L | 0.0016876 | 0.270039 | mg/L | 0.0016876 | 0.62% |
| Ce 413.764 | 1203.6 | 0.0035481 | mg/L | 0.00206806 | 0.0035481 | mg/L | 0.00206806 | 58.29% |

Sequence No.: 48
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 1:21:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 781065.4 | 96.4 | % | 0.54 | | | | 0.56% |
| Y 371.029 | 813176.8 | 95.7 | % | 0.56 | | | | 0.58% |
| Ag 328.068† | 17390.6 | 0.0984587 | mg/L | 0.00037817 | 0.0984587 | mg/L | 0.00037817 | 0.38% |
| QC value within limits for Ag 328.068 Recovery = 98.46% | | | | | | | | |
| Al 308.215† | 151503.4 | 4.91645 | mg/L | 0.030890 | 4.91645 | mg/L | 0.030890 | 0.63% |
| QC value within limits for Al 308.215 Recovery = 98.33% | | | | | | | | |
| As 188.979† | 685.7 | 0.507585 | mg/L | 0.0055352 | 0.507585 | mg/L | 0.0055352 | 1.09% |
| QC value within limits for As 188.979 Recovery = 101.52% | | | | | | | | |
| Ba 233.527† | 46768.6 | 0.485758 | mg/L | 0.0036764 | 0.485758 | mg/L | 0.0036764 | 0.76% |
| QC value within limits for Ba 233.527 Recovery = 97.15% | | | | | | | | |
| Be 313.107† | 1578141.6 | 0.483120 | mg/L | 0.0009366 | 0.483120 | mg/L | 0.0009366 | 0.19% |
| QC value within limits for Be 313.107 Recovery = 96.62% | | | | | | | | |
| Ca 315.887† | 6698647.1 | 48.8144 | mg/L | 0.11189 | 48.8144 | mg/L | 0.11189 | 0.23% |
| QC value within limits for Ca 315.887 Recovery = 97.63% | | | | | | | | |
| Cd 228.802† | 24476.6 | 0.505326 | mg/L | 0.0036636 | 0.505326 | mg/L | 0.0036636 | 0.73% |
| QC value within limits for Cd 228.802 Recovery = 101.07% | | | | | | | | |
| Co 228.616† | 15585.9 | 0.489869 | mg/L | 0.0033161 | 0.489869 | mg/L | 0.0033161 | 0.68% |
| QC value within limits for Co 228.616 Recovery = 97.97% | | | | | | | | |
| Cr 267.716† | 57934.0 | 0.493287 | mg/L | 0.0043335 | 0.493287 | mg/L | 0.0043335 | 0.88% |
| QC value within limits for Cr 267.716 Recovery = 98.66% | | | | | | | | |
| Cu 327.393† | 57832.8 | 0.495597 | mg/L | 0.0028738 | 0.495597 | mg/L | 0.0028738 | 0.58% |
| QC value within limits for Cu 327.393 Recovery = 99.12% | | | | | | | | |
| Fe 273.955† | 146259.4 | 4.87526 | mg/L | 0.043222 | 4.87526 | mg/L | 0.043222 | 0.89% |
| QC value within limits for Fe 273.955 Recovery = 97.51% | | | | | | | | |
| K 404.721† | 6642.1 | 48.0597 | mg/L | 1.23122 | 48.0597 | mg/L | 1.23122 | 2.56% |
| QC value within limits for K 404.721 Recovery = 96.12% | | | | | | | | |
| Mg 279.077† | 1242846.4 | 49.3229 | mg/L | 0.17153 | 49.3229 | mg/L | 0.17153 | 0.35% |
| QC value within limits for Mg 279.077 Recovery = 98.65% | | | | | | | | |
| Mn 257.610† | 405396.6 | 0.487935 | mg/L | 0.0036741 | 0.487935 | mg/L | 0.0036741 | 0.75% |
| QC value within limits for Mn 257.610 Recovery = 97.59% | | | | | | | | |
| Mo 202.031† | 6192.7 | 0.478454 | mg/L | 0.0042597 | 0.478454 | mg/L | 0.0042597 | 0.89% |
| QC value within limits for Mo 202.031 Recovery = 95.69% | | | | | | | | |
| Na 330.237† | 67275.6 | 48.1151 | mg/L | 0.27895 | 48.1151 | mg/L | 0.27895 | 0.58% |
| QC value within limits for Na 330.237 Recovery = 96.23% | | | | | | | | |
| Ni 231.604† | 16367.5 | 0.496263 | mg/L | 0.0038737 | 0.496263 | mg/L | 0.0038737 | 0.78% |
| QC value within limits for Ni 231.604 Recovery = 99.25% | | | | | | | | |
| Pb 220.353† | 2060.2 | 0.521342 | mg/L | 0.0032292 | 0.521342 | mg/L | 0.0032292 | 0.62% |
| QC value within limits for Pb 220.353 Recovery = 104.27% | | | | | | | | |
| Sb 206.836† | 571.5 | 0.480024 | mg/L | 0.0049219 | 0.480024 | mg/L | 0.0049219 | 1.03% |
| QC value within limits for Sb 206.836 Recovery = 96.00% | | | | | | | | |
| Se 196.026† | 488.3 | 0.476143 | mg/L | 0.0066654 | 0.476143 | mg/L | 0.0066654 | 1.40% |
| QC value within limits for Se 196.026 Recovery = 95.23% | | | | | | | | |
| Sn 189.927† | 2076.4 | 0.504797 | mg/L | 0.0047863 | 0.504797 | mg/L | 0.0047863 | 0.95% |
| QC value within limits for Sn 189.927 Recovery = 100.96% | | | | | | | | |
| Ti 334.940† | 419712.8 | 0.483855 | mg/L | 0.0031276 | 0.483855 | mg/L | 0.0031276 | 0.65% |
| QC value within limits for Ti 334.940 Recovery = 96.77% | | | | | | | | |
| Tl 190.801† | 437.9 | 0.507588 | mg/L | 0.0013795 | 0.507588 | mg/L | 0.0013795 | 0.27% |
| QC value within limits for Tl 190.801 Recovery = 101.52% | | | | | | | | |
| V 290.880† | 79183.3 | 0.486859 | mg/L | 0.0036963 | 0.486859 | mg/L | 0.0036963 | 0.76% |
| QC value within limits for V 290.880 Recovery = 97.37% | | | | | | | | |
| Zn 206.200† | 24523.5 | 0.486119 | mg/L | 0.0037292 | 0.486119 | mg/L | 0.0037292 | 0.77% |
| QC value within limits for Zn 206.200 Recovery = 97.22% | | | | | | | | |
| Si 251.611† | 220626.1 | 4.81312 | mg/L | 0.036736 | 4.81312 | mg/L | 0.036736 | 0.76% |
| QC value within limits for Si 251.611 Recovery = 96.26% | | | | | | | | |
| B 249.772† | 45969.8 | 0.441491 | mg/L | 0.0079422 | 0.441491 | mg/L | 0.0079422 | 1.80% |
| QC value less than the lower limit for B 249.772 Recovery = 88.30% | | | | | | | | |
| Ce 413.764 | 26971.8 | 0.505853 | mg/L | 0.0056018 | 0.505853 | mg/L | 0.0056018 | 1.11% |
| QC value within limits for Ce 413.764 Recovery = 101.17% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 49 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 1:25:56 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 838151.9 | 103 | % | 0.7 | | | | 0.70% |
| Y 371.029 | 894065.7 | 105 | % | 0.6 | | | | 0.56% |
| Ag 328.068† | -101.2 | -0.0001395 | mg/L | 0.00043323 | -0.0001395 | mg/L | 0.00043323 | 310.56% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -367.6 | -0.0017228 | mg/L | 0.00434328 | -0.0017228 | mg/L | 0.00434328 | 252.11% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 10.2 | 0.0108777 | mg/L | 0.00141013 | 0.0108777 | mg/L | 0.00141013 | 12.96% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -60.9 | 0.0009371 | mg/L | 0.00010967 | 0.0009371 | mg/L | 0.00010967 | 11.70% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1308.0 | 0.0040547 | mg/L | 0.00004441 | 0.0040547 | mg/L | 0.00004441 | 1.10% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 1179.2 | 0.280109 | mg/L | 0.0023029 | 0.280109 | mg/L | 0.0023029 | 0.82% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 30.2 | 0.0039279 | mg/L | 0.00004385 | 0.0039279 | mg/L | 0.00004385 | 1.12% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 85.8 | 0.0032710 | mg/L | 0.00014104 | 0.0032710 | mg/L | 0.00014104 | 4.31% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 38.5 | 0.0020086 | mg/L | 0.00010557 | 0.0020086 | mg/L | 0.00010557 | 5.26% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 562.3 | 0.0060698 | mg/L | 0.00038137 | 0.0060698 | mg/L | 0.00038137 | 6.28% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -170.6 | 0.0025589 | mg/L | 0.00101366 | 0.0025589 | mg/L | 0.00101366 | 39.61% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 114.7 | 0.342980 | mg/L | 0.2726006 | 0.342980 | mg/L | 0.2726006 | 79.48% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 143.9 | 0.0075032 | mg/L | 0.00194042 | 0.0075032 | mg/L | 0.00194042 | 25.86% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 49.2 | 0.0013729 | mg/L | 0.00008598 | 0.0013729 | mg/L | 0.00008598 | 6.26% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 17.0 | 0.0031937 | mg/L | 0.00040657 | 0.0031937 | mg/L | 0.00040657 | 12.73% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 133.8 | 1.14633 | mg/L | 0.038266 | 1.14633 | mg/L | 0.038266 | 3.34% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 112.3 | 0.0042796 | mg/L | 0.00021622 | 0.0042796 | mg/L | 0.00021622 | 5.05% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 39.8 | 0.0118418 | mg/L | 0.00040455 | 0.0118418 | mg/L | 0.00040455 | 3.42% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -1.2 | 0.0033855 | mg/L | 0.00157099 | 0.0033855 | mg/L | 0.00157099 | 46.40% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -11.3 | -0.0097162 | mg/L | 0.00697319 | -0.0097162 | mg/L | 0.00697319 | 71.77% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -4.2 | -0.0010361 | mg/L | 0.00105586 | -0.0010361 | mg/L | 0.00105586 | 101.91% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 15.0 | 0.0034604 | mg/L | 0.00002220 | 0.0034604 | mg/L | 0.00002220 | 0.64% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -6.2 | -0.0040000 | mg/L | 0.00106373 | -0.0040000 | mg/L | 0.00106373 | 26.59% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 22.0 | 0.0037397 | mg/L | 0.00043540 | 0.0037397 | mg/L | 0.00043540 | 11.64% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -19.1 | 0.0026300 | mg/L | 0.00005779 | 0.0026300 | mg/L | 0.00005779 | 2.20% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 272.8 | -0.0872015 | mg/L | 0.00057462 | -0.0872015 | mg/L | 0.00057462 | 0.66% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -808.6 | -0.0021997 | mg/L | 0.00109351 | -0.0021997 | mg/L | 0.00109351 | 49.71% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -43.0 | -0.0207520 | mg/L | 0.00146722 | -0.0207520 | mg/L | 0.00146722 | 7.07% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 50
Sample ID: AD26083-030
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 59
Date Collected: 9/29/2021 1:29:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-030

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 786761.2 | 97.1 | % | 2.35 | | | | 2.42% |
| Y 371.029 | 820674.0 | 96.5 | % | 2.38 | | | | 2.46% |
| Ag 328.068† | -16.4 | 0.0003489 | mg/L | 0.00031976 | 0.0003489 | mg/L | 0.00031976 | 91.64% |
| Al 308.215† | 3545.1 | 0.124983 | mg/L | 0.0096030 | 0.124983 | mg/L | 0.0096030 | 7.68% |
| As 188.979† | 15.3 | 0.0145896 | mg/L | 0.00225251 | 0.0145896 | mg/L | 0.00225251 | 15.44% |
| Ba 233.527† | 10679.9 | 0.112135 | mg/L | 0.0020792 | 0.112135 | mg/L | 0.0020792 | 1.85% |
| Be 313.107† | 1347.2 | 0.0040666 | mg/L | 0.00003410 | 0.0040666 | mg/L | 0.00003410 | 0.84% |
| Ca 315.887† | 904936.2 | 6.82933 | mg/L | 0.153077 | 6.82933 | mg/L | 0.153077 | 2.24% |
| Cd 228.802† | 10.4 | 0.0036057 | mg/L | 0.00039959 | 0.0036057 | mg/L | 0.00039959 | 11.08% |
| Co 228.616† | 80.9 | 0.0034182 | mg/L | 0.00025915 | 0.0034182 | mg/L | 0.00025915 | 7.58% |
| Cr 267.716† | 19.4 | 0.0018469 | mg/L | 0.00058092 | 0.0018469 | mg/L | 0.00058092 | 31.45% |
| Cu 327.393† | 124.1 | 0.0023308 | mg/L | 0.00167914 | 0.0023308 | mg/L | 0.00167914 | 72.04% |
| Fe 273.955† | 5711.2 | 0.198287 | mg/L | 0.0053775 | 0.198287 | mg/L | 0.0053775 | 2.71% |
| K 404.721† | 1320.9 | 9.16094 | mg/L | 1.380796 | 9.16094 | mg/L | 1.380796 | 15.07% |
| Mg 279.077† | 159190.9 | 6.31913 | mg/L | 0.149547 | 6.31913 | mg/L | 0.149547 | 2.37% |
| Mn 257.610† | 41724.5 | 0.0513982 | mg/L | 0.00129165 | 0.0513982 | mg/L | 0.00129165 | 2.51% |
| Mo 202.031† | 44.2 | 0.0052921 | mg/L | 0.00046978 | 0.0052921 | mg/L | 0.00046978 | 8.88% |
| Na 330.237† | 123829.5 | 87.6772 | mg/L | 2.17134 | 87.6772 | mg/L | 2.17134 | 2.48% |
| Ni 231.604† | 221.2 | 0.0075738 | mg/L | 0.00046869 | 0.0075738 | mg/L | 0.00046869 | 6.19% |
| Pb 220.353† | 21.2 | 0.0074534 | mg/L | 0.00101704 | 0.0074534 | mg/L | 0.00101704 | 13.65% |
| Sb 206.836† | -16.6 | -0.0092277 | mg/L | 0.00835700 | -0.0092277 | mg/L | 0.00835700 | 90.56% |
| Se 196.026† | -5.3 | -0.0038907 | mg/L | 0.00735276 | -0.0038907 | mg/L | 0.00735276 | 188.98% |
| Sn 189.927† | -6.9 | -0.0017005 | mg/L | 0.00042452 | -0.0017005 | mg/L | 0.00042452 | 24.96% |
| Ti 334.940† | 4974.3 | 0.0091369 | mg/L | 0.00014556 | 0.0091369 | mg/L | 0.00014556 | 1.59% |
| Tl 190.801† | -8.0 | -0.0055346 | mg/L | 0.00273208 | -0.0055346 | mg/L | 0.00273208 | 49.36% |
| V 290.880† | 116.7 | 0.0043173 | mg/L | 0.00021985 | 0.0043173 | mg/L | 0.00021985 | 5.09% |
| Zn 206.200† | 556.7 | 0.0139745 | mg/L | 0.00041702 | 0.0139745 | mg/L | 0.00041702 | 2.98% |
| Si 251.611† | 260948.3 | 5.70732 | mg/L | 0.147273 | 5.70732 | mg/L | 0.147273 | 2.58% |
| B 249.772† | 10778.7 | 0.111595 | mg/L | 0.0033246 | 0.111595 | mg/L | 0.0033246 | 2.98% |
| Ce 413.764 | 7.2 | -0.0197742 | mg/L | 0.00111857 | -0.0197742 | mg/L | 0.00111857 | 5.66% |

Sequence No.: 51
Sample ID: AD26083-036
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 60
Date Collected: 9/29/2021 1:33:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-036

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 610531.7 | 75.4 | % | 0.87 | | | | 1.15% |
| Y 371.029 | 630972.9 | 74.2 | % | 0.93 | | | | 1.25% |
| Ag 328.068† | -303.6 | -0.0009532 | mg/L | 0.00055061 | -0.0009532 | mg/L | 0.00055061 | 57.77% |
| Al 308.215† | 17124.3 | 0.564731 | mg/L | 0.0038158 | 0.564731 | mg/L | 0.0038158 | 0.68% |
| As 188.979† | 24.0 | 0.0209974 | mg/L | 0.00125438 | 0.0209974 | mg/L | 0.00125438 | 5.97% |
| Ba 233.527† | 4946.5 | 0.0527781 | mg/L | 0.00044102 | 0.0527781 | mg/L | 0.00044102 | 0.84% |
| Be 313.107† | -917.2 | 0.0033787 | mg/L | 0.00001716 | 0.0033787 | mg/L | 0.00001716 | 0.51% |
| Ca 315.887† | Saturated3 | | | | | | | |
| Cd 228.802† | -0.1 | 0.0047292 | mg/L | 0.00033188 | 0.0047292 | mg/L | 0.00033188 | 7.02% |
| Co 228.616† | 342.0 | 0.0113701 | mg/L | 0.00045719 | 0.0113701 | mg/L | 0.00045719 | 4.02% |
| Cr 267.716† | -142.0 | 0.0004772 | mg/L | 0.00047703 | 0.0004772 | mg/L | 0.00047703 | 99.97% |
| Cu 327.393† | -7174.0 | -0.0641530 | mg/L | 0.00068827 | -0.0641530 | mg/L | 0.00068827 | 1.07% |
| Fe 273.955† | 148506.7 | 4.95004 | mg/L | 0.002750 | 4.95004 | mg/L | 0.002750 | 0.06% |
| K 404.721† | 7119.0 | 51.5465 | mg/L | 1.32271 | 51.5465 | mg/L | 1.32271 | 2.57% |
| Mg 279.077† | 8879361.2 | 352.370 | mg/L | 3.4116 | 352.370 | mg/L | 3.4116 | 0.97% |
| Mn 257.610† | 5594500.0 | 6.71672 | mg/L | 0.058387 | 6.71672 | mg/L | 0.058387 | 0.87% |
| Mo 202.031† | 206.0 | 0.0177693 | mg/L | 0.00121122 | 0.0177693 | mg/L | 0.00121122 | 6.82% |
| Na 330.237† | 4476241.3 | 3132.39 | mg/L | 25.964 | 3132.39 | mg/L | 25.964 | 0.83% |
| Ni 231.604† | 808.8 | 0.0253602 | mg/L | 0.00096036 | 0.0253602 | mg/L | 0.00096036 | 3.79% |
| Pb 220.353† | -52.1 | 0.0012372 | mg/L | 0.00221967 | 0.0012372 | mg/L | 0.00221967 | 179.40% |
| Sb 206.836† | -106.0 | -0.0825921 | mg/L | 0.00500869 | -0.0825921 | mg/L | 0.00500869 | 6.06% |
| Se 196.026† | -57.8 | -0.0548193 | mg/L | 0.00410287 | -0.0548193 | mg/L | 0.00410287 | 7.48% |
| Sn 189.927† | -43.7 | -0.0106508 | mg/L | 0.00232011 | -0.0106508 | mg/L | 0.00232011 | 21.78% |
| Ti 334.940† | 30939.0 | 0.0388567 | mg/L | 0.00057585 | 0.0388567 | mg/L | 0.00057585 | 1.48% |
| Tl 190.801† | -36.0 | -0.0379394 | mg/L | 0.00218613 | -0.0379394 | mg/L | 0.00218613 | 5.76% |
| V 290.880† | -1915.4 | -0.0080846 | mg/L | 0.00031721 | -0.0080846 | mg/L | 0.00031721 | 3.92% |
| Zn 206.200† | 417.2 | 0.0112253 | mg/L | 0.00005101 | 0.0112253 | mg/L | 0.00005101 | 0.45% |
| Si 251.611† | 462302.7 | 10.1853 | mg/L | 0.00688 | 10.1853 | mg/L | 0.00688 | 0.07% |
| B 249.772† | 53088.3 | 0.511575 | mg/L | 0.0036029 | 0.511575 | mg/L | 0.0036029 | 0.70% |
| Ce 413.764 | -504.4 | -0.0297458 | mg/L | 0.00170752 | -0.0297458 | mg/L | 0.00170752 | 5.74% |

Sequence No.: 52
Sample ID: AD26083-038
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 9/29/2021 1:38:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-038

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 780075.6 | 96.3 | % | 0.70 | | | | 0.73% |
| Y 371.029 | 820108.2 | 96.5 | % | 0.78 | | | | 0.81% |
| Ag 328.068† | -21.6 | 0.0003222 | mg/L | 0.00014424 | 0.0003222 | mg/L | 0.00014424 | 44.76% |
| Al 308.215† | 1189.2 | 0.0486917 | mg/L | 0.00197913 | 0.0486917 | mg/L | 0.00197913 | 4.06% |
| As 188.979† | 8.4 | 0.0095129 | mg/L | 0.00227907 | 0.0095129 | mg/L | 0.00227907 | 23.96% |
| Ba 233.527† | 5333.3 | 0.0567819 | mg/L | 0.00030024 | 0.0567819 | mg/L | 0.00030024 | 0.53% |
| Be 313.107† | 1330.5 | 0.0040616 | mg/L | 0.00001330 | 0.0040616 | mg/L | 0.00001330 | 0.33% |
| Ca 315.887† | 2678168.3 | 19.6793 | mg/L | 0.05571 | 19.6793 | mg/L | 0.05571 | 0.28% |
| Cd 228.802† | 33.9 | 0.0040993 | mg/L | 0.00022337 | 0.0040993 | mg/L | 0.00022337 | 5.45% |
| Co 228.616† | 76.5 | 0.0031362 | mg/L | 0.00042412 | 0.0031362 | mg/L | 0.00042412 | 13.52% |
| Cr 267.716† | 110.9 | 0.0026231 | mg/L | 0.00023704 | 0.0026231 | mg/L | 0.00023704 | 9.04% |
| Cu 327.393† | 378.1 | 0.0046538 | mg/L | 0.00027714 | 0.0046538 | mg/L | 0.00027714 | 5.96% |
| Fe 273.955† | 7277.7 | 0.250414 | mg/L | 0.0015422 | 0.250414 | mg/L | 0.0015422 | 0.62% |
| K 404.721† | 293.3 | 1.64834 | mg/L | 0.331909 | 1.64834 | mg/L | 0.331909 | 20.14% |
| Mg 279.077† | 166749.8 | 6.61909 | mg/L | 0.039834 | 6.61909 | mg/L | 0.039834 | 0.60% |
| Mn 257.610† | 5839.6 | 0.0083234 | mg/L | 0.00027580 | 0.0083234 | mg/L | 0.00027580 | 3.31% |
| Mo 202.031† | 59.6 | 0.0064670 | mg/L | 0.00071590 | 0.0064670 | mg/L | 0.00071590 | 11.07% |
| Na 330.237† | 23989.9 | 17.8347 | mg/L | 0.11282 | 17.8347 | mg/L | 0.11282 | 0.63% |
| Ni 231.604† | 235.4 | 0.0080037 | mg/L | 0.00035921 | 0.0080037 | mg/L | 0.00035921 | 4.49% |
| Pb 220.353† | 32.9 | 0.0103563 | mg/L | 0.00238932 | 0.0103563 | mg/L | 0.00238932 | 23.07% |
| Sb 206.836† | -5.9 | -0.0004741 | mg/L | 0.00211506 | -0.0004741 | mg/L | 0.00211506 | 446.15% |
| Se 196.026† | -8.9 | -0.0073598 | mg/L | 0.01128623 | -0.0073598 | mg/L | 0.01128623 | 153.35% |
| Sn 189.927† | -9.8 | -0.0023929 | mg/L | 0.00057263 | -0.0023929 | mg/L | 0.00057263 | 23.93% |
| Ti 334.940† | 1310.6 | 0.0049435 | mg/L | 0.00010724 | 0.0049435 | mg/L | 0.00010724 | 2.17% |
| Tl 190.801† | -10.4 | -0.0073621 | mg/L | 0.00161877 | -0.0073621 | mg/L | 0.00161877 | 21.99% |
| V 290.880† | 321.9 | 0.0055697 | mg/L | 0.00069836 | 0.0055697 | mg/L | 0.00069836 | 12.54% |
| Zn 206.200† | 352.5 | 0.0099505 | mg/L | 0.00009351 | 0.0099505 | mg/L | 0.00009351 | 0.94% |
| Si 251.611† | 115072.7 | 2.46474 | mg/L | 0.008441 | 2.46474 | mg/L | 0.008441 | 0.34% |
| B 249.772† | 874.9 | 0.0134891 | mg/L | 0.00014942 | 0.0134891 | mg/L | 0.00014942 | 1.11% |
| Ce 413.764 | -64.9 | -0.0211784 | mg/L | 0.00230376 | -0.0211784 | mg/L | 0.00230376 | 10.88% |

Sequence No.: 53
Sample ID: AD26083-046
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 62
Date Collected: 9/29/2021 1:42:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-046

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 769062.3 | 94.9 | % | 1.51 | | | | 1.59% |
| Y 371.029 | 806152.5 | 94.8 | % | 1.55 | | | | 1.63% |
| Ag 328.068† | -7.3 | 0.0004309 | mg/L | 0.00028752 | 0.0004309 | mg/L | 0.00028752 | 66.73% |
| Al 308.215† | 2241.9 | 0.0827811 | mg/L | 0.00801997 | 0.0827811 | mg/L | 0.00801997 | 9.69% |
| As 188.979† | 13.1 | 0.0130167 | mg/L | 0.00077407 | 0.0130167 | mg/L | 0.00077407 | 5.95% |
| Ba 233.527† | 4935.8 | 0.0526674 | mg/L | 0.00065325 | 0.0526674 | mg/L | 0.00065325 | 1.24% |
| Be 313.107† | 1465.1 | 0.0041024 | mg/L | 0.00003885 | 0.0041024 | mg/L | 0.00003885 | 0.95% |
| Ca 315.887† | 1597061.7 | 11.8449 | mg/L | 0.15483 | 11.8449 | mg/L | 0.15483 | 1.31% |
| Cd 228.802† | 64.5 | 0.0048159 | mg/L | 0.00038905 | 0.0048159 | mg/L | 0.00038905 | 8.08% |
| Co 228.616† | 86.6 | 0.0034377 | mg/L | 0.00004169 | 0.0034377 | mg/L | 0.00004169 | 1.21% |
| Cr 267.716† | 56.5 | 0.0021616 | mg/L | 0.00033613 | 0.0021616 | mg/L | 0.00033613 | 15.55% |
| Cu 327.393† | 512.2 | 0.0057581 | mg/L | 0.00114341 | 0.0057581 | mg/L | 0.00114341 | 19.86% |
| Fe 273.955† | 21027.5 | 0.707963 | mg/L | 0.0079974 | 0.707963 | mg/L | 0.0079974 | 1.13% |
| K 404.721† | 3421.9 | 24.5195 | mg/L | 1.73289 | 24.5195 | mg/L | 1.73289 | 7.07% |
| Mg 279.077† | 51007.2 | 2.02596 | mg/L | 0.025105 | 2.02596 | mg/L | 0.025105 | 1.24% |
| Mn 257.610† | 99739.5 | 0.121037 | mg/L | 0.0015936 | 0.121037 | mg/L | 0.0015936 | 1.32% |
| Mo 202.031† | 51.6 | 0.0058556 | mg/L | 0.00068460 | 0.0058556 | mg/L | 0.00068460 | 11.69% |
| Na 330.237† | 43872.8 | 31.7438 | mg/L | 0.34736 | 31.7438 | mg/L | 0.34736 | 1.09% |
| Ni 231.604† | 179.1 | 0.0062997 | mg/L | 0.00058161 | 0.0062997 | mg/L | 0.00058161 | 9.23% |
| Pb 220.353† | 34.8 | 0.0106819 | mg/L | 0.00059764 | 0.0106819 | mg/L | 0.00059764 | 5.59% |
| Sb 206.836† | -6.7 | -0.0011371 | mg/L | 0.00349591 | -0.0011371 | mg/L | 0.00349591 | 307.45% |
| Se 196.026† | -11.3 | -0.0096457 | mg/L | 0.00233650 | -0.0096457 | mg/L | 0.00233650 | 24.22% |
| Sn 189.927† | -8.3 | -0.0020289 | mg/L | 0.00196152 | -0.0020289 | mg/L | 0.00196152 | 96.68% |
| Ti 334.940† | 2011.7 | 0.0057459 | mg/L | 0.00012511 | 0.0057459 | mg/L | 0.00012511 | 2.18% |
| Tl 190.801† | -7.2 | -0.0042876 | mg/L | 0.00655393 | -0.0042876 | mg/L | 0.00655393 | 152.86% |
| V 290.880† | 152.1 | 0.0045337 | mg/L | 0.00061610 | 0.0045337 | mg/L | 0.00061610 | 13.59% |
| Zn 206.200† | 1549.7 | 0.0335360 | mg/L | 0.00046628 | 0.0335360 | mg/L | 0.00046628 | 1.39% |
| Si 251.611† | 165083.5 | 3.57662 | mg/L | 0.043323 | 3.57662 | mg/L | 0.043323 | 1.21% |
| B 249.772† | 1617.4 | 0.0190694 | mg/L | 0.00048462 | 0.0190694 | mg/L | 0.00048462 | 2.54% |
| Ce 413.764 | -166.2 | -0.0231529 | mg/L | 0.00116317 | -0.0231529 | mg/L | 0.00116317 | 5.02% |

Sequence No.: 54
Sample ID: AD26083-039
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 63
Date Collected: 9/29/2021 1:46:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-039

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 740898.3 | 91.5 | % | 0.10 | | | | 0.11% |
| Y 371.029 | 765574.8 | 90.1 | % | 0.58 | | | | 0.64% |
| Ag 328.068† | 309.4 | 0.0021657 | mg/L | 0.00059929 | 0.0021657 | mg/L | 0.00059929 | 27.67% |
| Al 308.215† | 1620.5 | 0.0626569 | mg/L | 0.01255985 | 0.0626569 | mg/L | 0.01255985 | 20.05% |
| As 188.979† | 59.2 | 0.0469407 | mg/L | 0.01279231 | 0.0469407 | mg/L | 0.01279231 | 27.25% |
| Ba 233.527† | 4537.3 | 0.0485418 | mg/L | 0.00114397 | 0.0485418 | mg/L | 0.00114397 | 2.36% |
| Be 313.107† | 2269.2 | 0.0043467 | mg/L | 0.00007871 | 0.0043467 | mg/L | 0.00007871 | 1.81% |
| Ca 315.887† | 2756959.8 | 20.2503 | mg/L | 0.50396 | 20.2503 | mg/L | 0.50396 | 2.49% |
| Cd 228.802† | 22.7 | 0.0040146 | mg/L | 0.00019692 | 0.0040146 | mg/L | 0.00019692 | 4.91% |
| Co 228.616† | 192.4 | 0.0067491 | mg/L | 0.00100365 | 0.0067491 | mg/L | 0.00100365 | 14.87% |
| Cr 267.716† | -530.3 | -0.0028180 | mg/L | 0.00092189 | -0.0028180 | mg/L | 0.00092189 | 32.71% |
| Cu 327.393† | -1915.0 | -0.0149452 | mg/L | 0.00569493 | -0.0149452 | mg/L | 0.00569493 | 38.11% |
| Fe 273.955† | -450.4 | -0.0067497 | mg/L | 0.00373050 | -0.0067497 | mg/L | 0.00373050 | 55.27% |
| K 404.721† | 1789.7 | 12.5878 | mg/L | 3.19683 | 12.5878 | mg/L | 3.19683 | 25.40% |
| Mg 279.077† | 178768.3 | 7.09604 | mg/L | 0.300174 | 7.09604 | mg/L | 0.300174 | 4.23% |
| Mn 257.610† | 529.0 | 0.0019488 | mg/L | 0.00007128 | 0.0019488 | mg/L | 0.00007128 | 3.66% |
| Mo 202.031† | 180.2 | 0.0157460 | mg/L | 0.00186212 | 0.0157460 | mg/L | 0.00186212 | 11.83% |
| Na 330.237† | 22486.2 | 16.7829 | mg/L | 0.16279 | 16.7829 | mg/L | 0.16279 | 0.97% |
| Ni 231.604† | 937.2 | 0.0292458 | mg/L | 0.00495753 | 0.0292458 | mg/L | 0.00495753 | 16.95% |
| Pb 220.353† | -135.6 | -0.0317719 | mg/L | 0.00928667 | -0.0317719 | mg/L | 0.00928667 | 29.23% |
| Sb 206.836† | -176.6 | -0.140887 | mg/L | 0.0205293 | -0.140887 | mg/L | 0.0205293 | 14.57% |
| Se 196.026† | -23.0 | -0.0211071 | mg/L | 0.00466409 | -0.0211071 | mg/L | 0.00466409 | 22.10% |
| Sn 189.927† | -48.0 | -0.0116939 | mg/L | 0.00169795 | -0.0116939 | mg/L | 0.00169795 | 14.52% |
| Ti 334.940† | 904.8 | 0.0044789 | mg/L | 0.00020908 | 0.0044789 | mg/L | 0.00020908 | 4.67% |
| Tl 190.801† | -13.9 | -0.0113361 | mg/L | 0.00211665 | -0.0113361 | mg/L | 0.00211665 | 18.67% |
| V 290.880† | 1211.0 | 0.0109959 | mg/L | 0.00169304 | 0.0109959 | mg/L | 0.00169304 | 15.40% |
| Zn 206.200† | 2201.9 | 0.0463836 | mg/L | 0.00169561 | 0.0463836 | mg/L | 0.00169561 | 3.66% |
| Si 251.611† | 116488.0 | 2.49609 | mg/L | 0.076555 | 2.49609 | mg/L | 0.076555 | 3.07% |
| B 249.772† | 274.6 | 0.0085439 | mg/L | 0.00230834 | 0.0085439 | mg/L | 0.00230834 | 27.02% |
| Ce 413.764 | 500.2 | -0.0101628 | mg/L | 0.00502916 | -0.0101628 | mg/L | 0.00502916 | 49.49% |

Sequence No.: 55
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 1:50:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 715743.8 | 88.3 | % | 0.93 | | | | 1.05% |
| Y 371.029 | 742066.7 | 87.3 | % | 1.06 | | | | 1.22% |
| Ag 328.068† | 17609.7 | 0.0996532 | mg/L | 0.00047318 | 0.0996532 | mg/L | 0.00047318 | 0.47% |
| QC value within limits for Ag 328.068 Recovery = 99.65% | | | | | | | | |
| Al 308.215† | 153103.5 | 4.96827 | mg/L | 0.040556 | 4.96827 | mg/L | 0.040556 | 0.82% |
| QC value within limits for Al 308.215 Recovery = 99.37% | | | | | | | | |
| As 188.979† | 725.6 | 0.536960 | mg/L | 0.0088149 | 0.536960 | mg/L | 0.0088149 | 1.64% |
| QC value within limits for As 188.979 Recovery = 107.39% | | | | | | | | |
| Ba 233.527† | 46850.5 | 0.486606 | mg/L | 0.0037413 | 0.486606 | mg/L | 0.0037413 | 0.77% |
| QC value within limits for Ba 233.527 Recovery = 97.32% | | | | | | | | |
| Be 313.107† | 1594337.2 | 0.488041 | mg/L | 0.0017875 | 0.488041 | mg/L | 0.0017875 | 0.37% |
| QC value within limits for Be 313.107 Recovery = 97.61% | | | | | | | | |
| Ca 315.887† | 6849773.8 | 49.9095 | mg/L | 0.23944 | 49.9095 | mg/L | 0.23944 | 0.48% |
| QC value within limits for Ca 315.887 Recovery = 99.82% | | | | | | | | |
| Cd 228.802† | 25046.1 | 0.517049 | mg/L | 0.0041529 | 0.517049 | mg/L | 0.0041529 | 0.80% |
| QC value within limits for Cd 228.802 Recovery = 103.41% | | | | | | | | |
| Co 228.616† | 15909.3 | 0.500025 | mg/L | 0.0040459 | 0.500025 | mg/L | 0.0040459 | 0.81% |
| QC value within limits for Co 228.616 Recovery = 100.01% | | | | | | | | |
| Cr 267.716† | 58131.4 | 0.494962 | mg/L | 0.0031924 | 0.494962 | mg/L | 0.0031924 | 0.64% |
| QC value within limits for Cr 267.716 Recovery = 98.99% | | | | | | | | |
| Cu 327.393† | 56896.3 | 0.487585 | mg/L | 0.0021719 | 0.487585 | mg/L | 0.0021719 | 0.45% |
| QC value within limits for Cu 327.393 Recovery = 97.52% | | | | | | | | |
| Fe 273.955† | 147160.6 | 4.90525 | mg/L | 0.038346 | 4.90525 | mg/L | 0.038346 | 0.78% |
| QC value within limits for Fe 273.955 Recovery = 98.10% | | | | | | | | |
| K 404.721† | 7424.3 | 53.7779 | mg/L | 0.51101 | 53.7779 | mg/L | 0.51101 | 0.95% |
| QC value within limits for K 404.721 Recovery = 107.56% | | | | | | | | |
| Mg 279.077† | 1286764.3 | 51.0658 | mg/L | 0.44459 | 51.0658 | mg/L | 0.44459 | 0.87% |
| QC value within limits for Mg 279.077 Recovery = 102.13% | | | | | | | | |
| Mn 257.610† | 408043.1 | 0.491112 | mg/L | 0.0040644 | 0.491112 | mg/L | 0.0040644 | 0.83% |
| QC value within limits for Mn 257.610 Recovery = 98.22% | | | | | | | | |
| Mo 202.031† | 6321.6 | 0.488368 | mg/L | 0.0037655 | 0.488368 | mg/L | 0.0037655 | 0.77% |
| QC value within limits for Mo 202.031 Recovery = 97.67% | | | | | | | | |
| Na 330.237† | 69357.7 | 49.5717 | mg/L | 0.49141 | 49.5717 | mg/L | 0.49141 | 0.99% |
| QC value within limits for Na 330.237 Recovery = 99.14% | | | | | | | | |
| Ni 231.604† | 16957.0 | 0.514106 | mg/L | 0.0050662 | 0.514106 | mg/L | 0.0050662 | 0.99% |
| QC value within limits for Ni 231.604 Recovery = 102.82% | | | | | | | | |
| Pb 220.353† | 2121.9 | 0.536861 | mg/L | 0.0045270 | 0.536861 | mg/L | 0.0045270 | 0.84% |
| QC value within limits for Pb 220.353 Recovery = 107.37% | | | | | | | | |
| Sb 206.836† | 515.6 | 0.434130 | mg/L | 0.0076856 | 0.434130 | mg/L | 0.0076856 | 1.77% |
| QC value less than the lower limit for Sb 206.836 Recovery = 86.83% | | | | | | | | |
| Se 196.026† | 499.5 | 0.486989 | mg/L | 0.0040618 | 0.486989 | mg/L | 0.0040618 | 0.83% |
| QC value within limits for Se 196.026 Recovery = 97.40% | | | | | | | | |
| Sn 189.927† | 2137.4 | 0.519622 | mg/L | 0.0065946 | 0.519622 | mg/L | 0.0065946 | 1.27% |
| QC value within limits for Sn 189.927 Recovery = 103.92% | | | | | | | | |
| Ti 334.940† | 418661.9 | 0.482652 | mg/L | 0.0031850 | 0.482652 | mg/L | 0.0031850 | 0.66% |
| QC value within limits for Ti 334.940 Recovery = 96.53% | | | | | | | | |
| Tl 190.801† | 455.0 | 0.526993 | mg/L | 0.0081905 | 0.526993 | mg/L | 0.0081905 | 1.55% |
| QC value within limits for Tl 190.801 Recovery = 105.40% | | | | | | | | |
| V 290.880† | 79810.7 | 0.490688 | mg/L | 0.0049647 | 0.490688 | mg/L | 0.0049647 | 1.01% |
| QC value within limits for V 290.880 Recovery = 98.14% | | | | | | | | |
| Zn 206.200† | 25677.4 | 0.508850 | mg/L | 0.0067236 | 0.508850 | mg/L | 0.0067236 | 1.32% |
| QC value within limits for Zn 206.200 Recovery = 101.77% | | | | | | | | |
| Si 251.611† | 221839.5 | 4.84011 | mg/L | 0.041847 | 4.84011 | mg/L | 0.041847 | 0.86% |
| QC value within limits for Si 251.611 Recovery = 96.80% | | | | | | | | |
| B 249.772† | 54814.3 | 0.528810 | mg/L | 0.0104499 | 0.528810 | mg/L | 0.0104499 | 1.98% |
| QC value within limits for B 249.772 Recovery = 105.76% | | | | | | | | |
| Ce 413.764 | 24662.4 | 0.460836 | mg/L | 0.0024810 | 0.460836 | mg/L | 0.0024810 | 0.54% |
| QC value within limits for Ce 413.764 Recovery = 92.17% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 56
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 1:54:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 790742.8 | 97.6 | % | 0.23 | | | | 0.24% |
| Y 371.029 | 840727.6 | 98.9 | % | 0.23 | | | | 0.24% |
| Ag 328.068† | 8.6 | 0.0004740 | mg/L | 0.00043948 | 0.0004740 | mg/L | 0.00043948 | 92.72% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -237.8 | 0.0024797 | mg/L | 0.00035209 | 0.0024797 | mg/L | 0.00035209 | 14.20% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 13.2 | 0.0130799 | mg/L | 0.00385697 | 0.0130799 | mg/L | 0.00385697 | 29.49% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -136.5 | 0.0001536 | mg/L | 0.00001735 | 0.0001536 | mg/L | 0.00001735 | 11.29% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1460.5 | 0.0041010 | mg/L | 0.00002412 | 0.0041010 | mg/L | 0.00002412 | 0.59% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 436.2 | 0.274725 | mg/L | 0.0015996 | 0.274725 | mg/L | 0.0015996 | 0.58% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 38.3 | 0.0041140 | mg/L | 0.00030306 | 0.0041140 | mg/L | 0.00030306 | 7.37% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 104.0 | 0.0038418 | mg/L | 0.00060264 | 0.0038418 | mg/L | 0.00060264 | 15.69% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -2.6 | 0.0016600 | mg/L | 0.00065982 | 0.0016600 | mg/L | 0.00065982 | 39.75% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 318.1 | 0.0039826 | mg/L | 0.00068090 | 0.0039826 | mg/L | 0.00068090 | 17.10% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -324.4 | -0.0025590 | mg/L | 0.00188430 | -0.0025590 | mg/L | 0.00188430 | 73.63% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 280.8 | 1.55737 | mg/L | 0.979717 | 1.55737 | mg/L | 0.979717 | 62.91% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -85.4 | -0.0015955 | mg/L | 0.00178381 | -0.0015955 | mg/L | 0.00178381 | 111.80% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -16.2 | 0.0012943 | mg/L | 0.00003505 | 0.0012943 | mg/L | 0.00003505 | 2.71% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 27.9 | 0.0040304 | mg/L | 0.00017185 | 0.0040304 | mg/L | 0.00017185 | 4.26% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 54.7 | 1.09097 | mg/L | 0.099898 | 1.09097 | mg/L | 0.099898 | 9.16% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 192.4 | 0.0067013 | mg/L | 0.00085461 | 0.0067013 | mg/L | 0.00085461 | 12.75% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 30.4 | 0.0094739 | mg/L | 0.00150376 | 0.0094739 | mg/L | 0.00150376 | 15.87% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -20.2 | -0.0122848 | mg/L | 0.00380670 | -0.0122848 | mg/L | 0.00380670 | 30.99% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -1.5 | -0.0001771 | mg/L | 0.00216673 | -0.0001771 | mg/L | 0.00216673 | >999.9% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.8 | -0.0007054 | mg/L | 0.00119507 | -0.0007054 | mg/L | 0.00119507 | 169.42% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 156.4 | 0.0036224 | mg/L | 0.00018966 | 0.0036224 | mg/L | 0.00018966 | 5.24% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -7.0 | -0.0049182 | mg/L | 0.00187807 | -0.0049182 | mg/L | 0.00187807 | 38.19% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 138.3 | 0.0044490 | mg/L | 0.00027139 | 0.0044490 | mg/L | 0.00027139 | 6.10% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -11.0 | 0.0027901 | mg/L | 0.00016519 | 0.0027901 | mg/L | 0.00016519 | 5.92% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 376.6 | -0.0848961 | mg/L | 0.00082213 | -0.0848961 | mg/L | 0.00082213 | 0.97% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 3897.2 | 0.0443400 | mg/L | 0.00161236 | 0.0443400 | mg/L | 0.00161236 | 3.64% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -112.4 | -0.0221042 | mg/L | 0.00068777 | -0.0221042 | mg/L | 0.00068777 | 3.11% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 57
Sample ID: MB 94429 (1)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 64
Date Collected: 9/29/2021 1:58:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 94429 (1)

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 783116.3 | 96.7 | % | 0.36 | | | | 0.37% |
| Y 371.029 | 835361.5 | 98.3 | % | 0.28 | | | | 0.28% |
| Ag 328.068† | 13.0 | 0.0004989 | mg/L | 0.00015205 | 0.0004989 | mg/L | 0.00015205 | 30.48% |
| Al 308.215† | -366.5 | -0.0016871 | mg/L | 0.00142624 | -0.0016871 | mg/L | 0.00142624 | 84.54% |
| As 188.979† | 11.7 | 0.0119736 | mg/L | 0.00076742 | 0.0119736 | mg/L | 0.00076742 | 6.41% |
| Ba 233.527† | -81.0 | 0.0007290 | mg/L | 0.00007943 | 0.0007290 | mg/L | 0.00007943 | 10.90% |
| Be 313.107† | 1345.9 | 0.0040662 | mg/L | 0.00001795 | 0.0040662 | mg/L | 0.00001795 | 0.44% |
| Ca 315.887† | 3735.3 | 0.298632 | mg/L | 0.0061687 | 0.298632 | mg/L | 0.0061687 | 2.07% |
| Cd 228.802† | 40.0 | 0.0041364 | mg/L | 0.00007709 | 0.0041364 | mg/L | 0.00007709 | 1.86% |
| Co 228.616† | 105.4 | 0.0038858 | mg/L | 0.00028029 | 0.0038858 | mg/L | 0.00028029 | 7.21% |
| Cr 267.716† | 83.9 | 0.0023942 | mg/L | 0.00028131 | 0.0023942 | mg/L | 0.00028131 | 11.75% |
| Cu 327.393† | 783.7 | 0.0079631 | mg/L | 0.00038408 | 0.0079631 | mg/L | 0.00038408 | 4.82% |
| Fe 273.955† | 148.2 | 0.0131678 | mg/L | 0.00078893 | 0.0131678 | mg/L | 0.00078893 | 5.99% |
| K 404.721† | 327.1 | 1.89586 | mg/L | 1.040790 | 1.89586 | mg/L | 1.040790 | 54.90% |
| Mg 279.077† | 74.7 | 0.0047569 | mg/L | 0.00304462 | 0.0047569 | mg/L | 0.00304462 | 64.00% |
| Mn 257.610† | 404.9 | 0.0017998 | mg/L | 0.00003385 | 0.0017998 | mg/L | 0.00003385 | 1.88% |
| Mo 202.031† | 16.1 | 0.0031229 | mg/L | 0.00048358 | 0.0031229 | mg/L | 0.00048358 | 15.48% |
| Na 330.237† | 264.9 | 1.23801 | mg/L | 0.063695 | 1.23801 | mg/L | 0.063695 | 5.14% |
| Ni 231.604† | 137.0 | 0.0050261 | mg/L | 0.00018276 | 0.0050261 | mg/L | 0.00018276 | 3.64% |
| Pb 220.353† | 45.2 | 0.0131863 | mg/L | 0.00125377 | 0.0131863 | mg/L | 0.00125377 | 9.51% |
| Sb 206.836† | -2.0 | 0.0027029 | mg/L | 0.00071403 | 0.0027029 | mg/L | 0.00071403 | 26.42% |
| Se 196.026† | -1.2 | 0.0001826 | mg/L | 0.00228741 | 0.0001826 | mg/L | 0.00228741 | >999.9% |
| Sn 189.927† | 2.4 | 0.0005751 | mg/L | 0.00139367 | 0.0005751 | mg/L | 0.00139367 | 242.31% |
| Ti 334.940† | 278.7 | 0.0037623 | mg/L | 0.00003306 | 0.0037623 | mg/L | 0.00003306 | 0.88% |
| Tl 190.801† | -8.0 | -0.0059602 | mg/L | 0.00305652 | -0.0059602 | mg/L | 0.00305652 | 51.28% |
| V 290.880† | -11.8 | 0.0035334 | mg/L | 0.00032968 | 0.0035334 | mg/L | 0.00032968 | 9.33% |
| Zn 206.200† | 151.4 | 0.0059899 | mg/L | 0.00003799 | 0.0059899 | mg/L | 0.00003799 | 0.63% |
| Si 251.611† | 856.5 | -0.0742221 | mg/L | 0.00111676 | -0.0742221 | mg/L | 0.00111676 | 1.50% |
| B 249.772† | 2619.9 | 0.0316525 | mg/L | 0.00226495 | 0.0316525 | mg/L | 0.00226495 | 7.16% |
| Ce 413.764 | -157.9 | -0.0229921 | mg/L | 0.00107383 | -0.0229921 | mg/L | 0.00107383 | 4.67% |

Sequence No.: 58
Sample ID: LCS 94429
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 65
Date Collected: 9/29/2021 2:02:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS 94429

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 730314.8 | 90.1 | % | 0.43 | | | | 0.48% |
| Y 371.029 | 760186.4 | 89.4 | % | 0.44 | | | | 0.49% |
| Ag 328.068† | 17439.2 | 0.0987297 | mg/L | 0.00088572 | 0.0987297 | mg/L | 0.00088572 | 0.90% |
| Al 308.215† | 154130.2 | 5.00152 | mg/L | 0.026923 | 5.00152 | mg/L | 0.026923 | 0.54% |
| As 188.979† | 690.5 | 0.511150 | mg/L | 0.0035102 | 0.511150 | mg/L | 0.0035102 | 0.69% |
| Ba 233.527† | 47163.0 | 0.489841 | mg/L | 0.0024963 | 0.489841 | mg/L | 0.0024963 | 0.51% |
| Be 313.107† | 1595268.7 | 0.488324 | mg/L | 0.0019387 | 0.488324 | mg/L | 0.0019387 | 0.40% |
| Ca 315.887† | 6787890.6 | 49.4611 | mg/L | 0.20012 | 49.4611 | mg/L | 0.20012 | 0.40% |
| Cd 228.802† | 24833.1 | 0.512634 | mg/L | 0.0025495 | 0.512634 | mg/L | 0.0025495 | 0.50% |
| Co 228.616† | 15797.1 | 0.496485 | mg/L | 0.0021089 | 0.496485 | mg/L | 0.0021089 | 0.42% |
| Cr 267.716† | 58736.8 | 0.500099 | mg/L | 0.0019408 | 0.500099 | mg/L | 0.0019408 | 0.39% |
| Cu 327.393† | 58664.7 | 0.502718 | mg/L | 0.0013741 | 0.502718 | mg/L | 0.0013741 | 0.27% |
| Fe 273.955† | 146859.3 | 4.89522 | mg/L | 0.025652 | 4.89522 | mg/L | 0.025652 | 0.52% |
| K 404.721† | 6789.1 | 49.1348 | mg/L | 0.47989 | 49.1348 | mg/L | 0.47989 | 0.98% |
| Mg 279.077† | 1236746.9 | 49.0809 | mg/L | 0.27813 | 49.0809 | mg/L | 0.27813 | 0.57% |
| Mn 257.610† | 408942.7 | 0.492192 | mg/L | 0.0023036 | 0.492192 | mg/L | 0.0023036 | 0.47% |
| Mo 202.031† | 6319.2 | 0.488187 | mg/L | 0.0024727 | 0.488187 | mg/L | 0.0024727 | 0.51% |
| Na 330.237† | 69075.6 | 49.3744 | mg/L | 0.18828 | 49.3744 | mg/L | 0.18828 | 0.38% |
| Ni 231.604† | 16634.8 | 0.504354 | mg/L | 0.0026290 | 0.504354 | mg/L | 0.0026290 | 0.52% |
| Pb 220.353† | 2111.6 | 0.534220 | mg/L | 0.0022949 | 0.534220 | mg/L | 0.0022949 | 0.43% |
| Sb 206.836† | 570.6 | 0.479401 | mg/L | 0.0043272 | 0.479401 | mg/L | 0.0043272 | 0.90% |
| Se 196.026† | 484.9 | 0.472759 | mg/L | 0.0118343 | 0.472759 | mg/L | 0.0118343 | 2.50% |
| Sn 189.927† | 2024.0 | 0.492053 | mg/L | 0.0020991 | 0.492053 | mg/L | 0.0020991 | 0.43% |
| Ti 334.940† | 428176.7 | 0.493543 | mg/L | 0.0020409 | 0.493543 | mg/L | 0.0020409 | 0.41% |
| Tl 190.801† | 442.3 | 0.512607 | mg/L | 0.0006780 | 0.512607 | mg/L | 0.0006780 | 0.13% |
| V 290.880† | 80652.0 | 0.495823 | mg/L | 0.0024007 | 0.495823 | mg/L | 0.0024007 | 0.48% |
| Zn 206.200† | 24661.1 | 0.488830 | mg/L | 0.0019751 | 0.488830 | mg/L | 0.0019751 | 0.40% |
| Si 251.611† | 25141.5 | 0.467798 | mg/L | 0.0052801 | 0.467798 | mg/L | 0.0052801 | 1.13% |
| B 249.772† | 48500.9 | 0.466436 | mg/L | 0.0001002 | 0.466436 | mg/L | 0.0001002 | 0.02% |
| Ce 413.764 | 26813.0 | 0.502758 | mg/L | 0.0029211 | 0.502758 | mg/L | 0.0029211 | 0.58% |

Sequence No.: 59
Sample ID: LCS MR 94429
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 66
Date Collected: 9/29/2021 2:06:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS MR 94429

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 739806.4 | 91.3 | % | 1.36 | | | | 1.49% |
| Y 371.029 | 762190.8 | 89.7 | % | 1.42 | | | | 1.59% |
| Ag 328.068† | 17143.8 | 0.0970720 | mg/L | 0.00250829 | 0.0970720 | mg/L | 0.00250829 | 2.58% |
| Al 308.215† | 151499.3 | 4.91632 | mg/L | 0.112403 | 4.91632 | mg/L | 0.112403 | 2.29% |
| As 188.979† | 669.0 | 0.495360 | mg/L | 0.0112855 | 0.495360 | mg/L | 0.0112855 | 2.28% |
| Ba 233.527† | 46516.1 | 0.483144 | mg/L | 0.0102867 | 0.483144 | mg/L | 0.0102867 | 2.13% |
| Be 313.107† | 1565015.8 | 0.479133 | mg/L | 0.0112204 | 0.479133 | mg/L | 0.0112204 | 2.34% |
| Ca 315.887† | 6658057.0 | 48.5202 | mg/L | 1.09513 | 48.5202 | mg/L | 1.09513 | 2.26% |
| Cd 228.802† | 24371.0 | 0.503148 | mg/L | 0.0099272 | 0.503148 | mg/L | 0.0099272 | 1.97% |
| Co 228.616† | 15505.1 | 0.487321 | mg/L | 0.0101320 | 0.487321 | mg/L | 0.0101320 | 2.08% |
| Cr 267.716† | 57952.5 | 0.493444 | mg/L | 0.0107644 | 0.493444 | mg/L | 0.0107644 | 2.18% |
| Cu 327.393† | 57887.1 | 0.496072 | mg/L | 0.0094765 | 0.496072 | mg/L | 0.0094765 | 1.91% |
| Fe 273.955† | 144808.6 | 4.82698 | mg/L | 0.104164 | 4.82698 | mg/L | 0.104164 | 2.16% |
| K 404.721† | 6567.0 | 47.5112 | mg/L | 1.61540 | 47.5112 | mg/L | 1.61540 | 3.40% |
| Mg 279.077† | 1211311.3 | 48.0715 | mg/L | 1.18519 | 48.0715 | mg/L | 1.18519 | 2.47% |
| Mn 257.610† | 402913.9 | 0.484955 | mg/L | 0.0108547 | 0.484955 | mg/L | 0.0108547 | 2.24% |
| Mo 202.031† | 6199.4 | 0.478964 | mg/L | 0.0090709 | 0.478964 | mg/L | 0.0090709 | 1.89% |
| Na 330.237† | 67794.6 | 48.4782 | mg/L | 1.04966 | 48.4782 | mg/L | 1.04966 | 2.17% |
| Ni 231.604† | 16280.4 | 0.493627 | mg/L | 0.0100484 | 0.493627 | mg/L | 0.0100484 | 2.04% |
| Pb 220.353† | 2075.6 | 0.525147 | mg/L | 0.0081095 | 0.525147 | mg/L | 0.0081095 | 1.54% |
| Sb 206.836† | 557.9 | 0.468868 | mg/L | 0.0053683 | 0.468868 | mg/L | 0.0053683 | 1.14% |
| Se 196.026† | 468.4 | 0.456786 | mg/L | 0.0096658 | 0.456786 | mg/L | 0.0096658 | 2.12% |
| Sn 189.927† | 1987.6 | 0.483199 | mg/L | 0.0093570 | 0.483199 | mg/L | 0.0093570 | 1.94% |
| Ti 334.940† | 421835.2 | 0.486284 | mg/L | 0.0104253 | 0.486284 | mg/L | 0.0104253 | 2.14% |
| Tl 190.801† | 439.3 | 0.509106 | mg/L | 0.0099526 | 0.509106 | mg/L | 0.0099526 | 1.95% |
| V 290.880† | 79438.1 | 0.488414 | mg/L | 0.0112465 | 0.488414 | mg/L | 0.0112465 | 2.30% |
| Zn 206.200† | 24239.2 | 0.480519 | mg/L | 0.0094553 | 0.480519 | mg/L | 0.0094553 | 1.97% |
| Si 251.611† | 24854.6 | 0.461390 | mg/L | 0.0126919 | 0.461390 | mg/L | 0.0126919 | 2.75% |
| B 249.772† | 47572.4 | 0.457520 | mg/L | 0.0093535 | 0.457520 | mg/L | 0.0093535 | 2.04% |
| Ce 413.764 | 26828.4 | 0.503057 | mg/L | 0.0054549 | 0.503057 | mg/L | 0.0054549 | 1.08% |

Sequence No.: 60
Sample ID: AD26083-041
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 67
Date Collected: 9/29/2021 2:10:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 665706.7 | 82.2 | % | 1.32 | | | | 1.61% |
| Y 371.029 | 685674.5 | 80.7 | % | 1.37 | | | | 1.70% |
| Ag 328.068† | -115.3 | 0.0003955 | mg/L | 0.00015497 | 0.0003955 | mg/L | 0.00015497 | 39.18% |
| Al 308.215† | 1895.5 | 0.0715635 | mg/L | 0.00675892 | 0.0715635 | mg/L | 0.00675892 | 9.44% |
| As 188.979† | 23.8 | 0.0208558 | mg/L | 0.00167055 | 0.0208558 | mg/L | 0.00167055 | 8.01% |
| Ba 233.527† | 188704.5 | 1.95521 | mg/L | 0.019048 | 1.95521 | mg/L | 0.019048 | 0.97% |
| Be 313.107† | 2382.5 | 0.0043812 | mg/L | 0.00006586 | 0.0043812 | mg/L | 0.00006586 | 1.50% |
| Ca 315.887† | 11412419.7 | 82.9735 | mg/L | 0.34694 | 82.9735 | mg/L | 0.34694 | 0.42% |
| Cd 228.802† | -84.5 | 0.0041306 | mg/L | 0.00009920 | 0.0041306 | mg/L | 0.00009920 | 2.40% |
| Co 228.616† | 200.1 | 0.0124006 | mg/L | 0.00077207 | 0.0124006 | mg/L | 0.00077207 | 6.23% |
| Cr 267.716† | 222.4 | 0.0035695 | mg/L | 0.00014360 | 0.0035695 | mg/L | 0.00014360 | 4.02% |
| Cu 327.393† | -1017.4 | -0.0078496 | mg/L | 0.00015375 | -0.0078496 | mg/L | 0.00015375 | 1.96% |
| Fe 273.955† | 281286.5 | 9.36851 | mg/L | 0.085457 | 9.36851 | mg/L | 0.085457 | 0.91% |
| K 404.721† | 13515.3 | 98.3049 | mg/L | 1.42259 | 98.3049 | mg/L | 1.42259 | 1.45% |
| Mg 279.077† | 3074994.8 | 122.030 | mg/L | 0.7974 | 122.030 | mg/L | 0.7974 | 0.65% |
| Mn 257.610† | 388027.0 | 0.467085 | mg/L | 0.0045360 | 0.467085 | mg/L | 0.0045360 | 0.97% |
| Mo 202.031† | 114.0 | 0.0106582 | mg/L | 0.00076397 | 0.0106582 | mg/L | 0.00076397 | 7.17% |
| Na 330.237† | 1883187.2 | 1318.43 | mg/L | 3.752 | 1318.43 | mg/L | 3.752 | 0.28% |
| Ni 231.604† | 910.4 | 0.0284340 | mg/L | 0.00072230 | 0.0284340 | mg/L | 0.00072230 | 2.54% |
| Pb 220.353† | -3.2 | 0.0052984 | mg/L | 0.00183802 | 0.0052984 | mg/L | 0.00183802 | 34.69% |
| Sb 206.836† | -67.3 | -0.0509307 | mg/L | 0.00109315 | -0.0509307 | mg/L | 0.00109315 | 2.15% |
| Se 196.026† | -29.5 | -0.0269718 | mg/L | 0.00446247 | -0.0269718 | mg/L | 0.00446247 | 16.54% |
| Sn 189.927† | -21.0 | -0.0051154 | mg/L | 0.00137442 | -0.0051154 | mg/L | 0.00137442 | 26.87% |
| Ti 334.940† | 2957.6 | 0.0068286 | mg/L | 0.00009412 | 0.0068286 | mg/L | 0.00009412 | 1.38% |
| Tl 190.801† | -21.5 | -0.0157390 | mg/L | 0.00436246 | -0.0157390 | mg/L | 0.00436246 | 27.72% |
| V 290.880† | 732.3 | 0.0080747 | mg/L | 0.00106918 | 0.0080747 | mg/L | 0.00106918 | 13.24% |
| Zn 206.200† | 195.3 | 0.0068539 | mg/L | 0.00042467 | 0.0068539 | mg/L | 0.00042467 | 6.20% |
| Si 251.611† | 345163.5 | 7.58343 | mg/L | 0.066024 | 7.58343 | mg/L | 0.066024 | 0.87% |
| B 249.772† | 159624.2 | 1.54776 | mg/L | 0.008584 | 1.54776 | mg/L | 0.008584 | 0.55% |
| Ce 413.764 | -213.6 | -0.0240784 | mg/L | 0.00095868 | -0.0240784 | mg/L | 0.00095868 | 3.98% |

Sequence No.: 61
Sample ID: AD26083-041 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 68
Date Collected: 9/29/2021 2:15:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 MR

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 669364.3 | 82.6 | % | 0.85 | | | | 1.03% |
| Y 371.029 | 695525.6 | 81.8 | % | 0.77 | | | | 0.94% |
| Ag 328.068† | -124.6 | 0.0003085 | mg/L | 0.00033558 | 0.0003085 | mg/L | 0.00033558 | 108.77% |
| Al 308.215† | 1785.5 | 0.0680026 | mg/L | 0.00456208 | 0.0680026 | mg/L | 0.00456208 | 6.71% |
| As 188.979† | 23.9 | 0.0209171 | mg/L | 0.00591108 | 0.0209171 | mg/L | 0.00591108 | 28.26% |
| Ba 233.527† | 177704.8 | 1.84133 | mg/L | 0.015403 | 1.84133 | mg/L | 0.015403 | 0.84% |
| Be 313.107† | 2275.0 | 0.0043485 | mg/L | 0.00001630 | 0.0043485 | mg/L | 0.00001630 | 0.37% |
| Ca 315.887† | 10913101.6 | 79.3551 | mg/L | 1.42611 | 79.3551 | mg/L | 1.42611 | 1.80% |
| Cd 228.802† | -79.6 | 0.0040892 | mg/L | 0.00028578 | 0.0040892 | mg/L | 0.00028578 | 6.99% |
| Co 228.616† | 200.5 | 0.0120888 | mg/L | 0.00057773 | 0.0120888 | mg/L | 0.00057773 | 4.78% |
| Cr 267.716† | 190.7 | 0.0033003 | mg/L | 0.00020335 | 0.0033003 | mg/L | 0.00020335 | 6.16% |
| Cu 327.393† | -1030.9 | -0.0079526 | mg/L | 0.00107559 | -0.0079526 | mg/L | 0.00107559 | 13.52% |
| Fe 273.955† | 265247.9 | 8.83480 | mg/L | 0.074582 | 8.83480 | mg/L | 0.074582 | 0.84% |
| K 404.721† | 12850.1 | 93.4417 | mg/L | 0.61190 | 93.4417 | mg/L | 0.61190 | 0.65% |
| Mg 279.077† | 2952748.7 | 117.179 | mg/L | 2.2495 | 117.179 | mg/L | 2.2495 | 1.92% |
| Mn 257.610† | 365483.4 | 0.440025 | mg/L | 0.0037033 | 0.440025 | mg/L | 0.0037033 | 0.84% |
| Mo 202.031† | 117.9 | 0.0109507 | mg/L | 0.00091297 | 0.0109507 | mg/L | 0.00091297 | 8.34% |
| Na 330.237† | 1804732.7 | 1263.55 | mg/L | 18.008 | 1263.55 | mg/L | 18.008 | 1.43% |
| Ni 231.604† | 878.3 | 0.0274632 | mg/L | 0.00177633 | 0.0274632 | mg/L | 0.00177633 | 6.47% |
| Pb 220.353† | -7.9 | 0.0039535 | mg/L | 0.00037443 | 0.0039535 | mg/L | 0.00037443 | 9.47% |
| Sb 206.836† | -72.7 | -0.0553833 | mg/L | 0.00913172 | -0.0553833 | mg/L | 0.00913172 | 16.49% |
| Se 196.026† | -26.8 | -0.0243678 | mg/L | 0.00920431 | -0.0243678 | mg/L | 0.00920431 | 37.77% |
| Sn 189.927† | -17.3 | -0.0042147 | mg/L | 0.00069917 | -0.0042147 | mg/L | 0.00069917 | 16.59% |
| Ti 334.940† | 3349.5 | 0.0072773 | mg/L | 0.00003075 | 0.0072773 | mg/L | 0.00003075 | 0.42% |
| Tl 190.801† | -21.0 | -0.0153933 | mg/L | 0.00342383 | -0.0153933 | mg/L | 0.00342383 | 22.24% |
| V 290.880† | 567.6 | 0.0070690 | mg/L | 0.00039194 | 0.0070690 | mg/L | 0.00039194 | 5.54% |
| Zn 206.200† | 181.6 | 0.0065843 | mg/L | 0.00011453 | 0.0065843 | mg/L | 0.00011453 | 1.74% |
| Si 251.611† | 325357.1 | 7.14292 | mg/L | 0.063325 | 7.14292 | mg/L | 0.063325 | 0.89% |
| B 249.772† | 150754.2 | 1.46212 | mg/L | 0.021860 | 1.46212 | mg/L | 0.021860 | 1.50% |
| Ce 413.764 | -191.3 | -0.0236423 | mg/L | 0.00053820 | -0.0236423 | mg/L | 0.00053820 | 2.28% |

Sequence No.: 62
Sample ID: AD26083-043 MS 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 69
Date Collected: 9/29/2021 2:19:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-043 MS 1

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 683257.1 | 84.3 | % | 0.29 | | | | 0.34% |
| Y 371.029 | 702721.1 | 82.7 | % | 0.32 | | | | 0.38% |
| Ag 328.068† | 17623.6 | 0.100235 | mg/L | 0.0004045 | 0.100235 | mg/L | 0.0004045 | 0.40% |
| Al 308.215† | 147368.3 | 4.78254 | mg/L | 0.011493 | 4.78254 | mg/L | 0.011493 | 0.24% |
| As 188.979† | 710.4 | 0.525828 | mg/L | 0.0079924 | 0.525828 | mg/L | 0.0079924 | 1.52% |
| Ba 233.527† | 209807.5 | 2.17368 | mg/L | 0.005482 | 2.17368 | mg/L | 0.005482 | 0.25% |
| Be 313.107† | 1591434.6 | 0.487159 | mg/L | 0.0007422 | 0.487159 | mg/L | 0.0007422 | 0.15% |
| Ca 315.887† | 16391376.6 | 119.054 | mg/L | 1.5488 | 119.054 | mg/L | 1.5488 | 1.30% |
| Cd 228.802† | 25115.5 | 0.520326 | mg/L | 0.0074235 | 0.520326 | mg/L | 0.0074235 | 1.43% |
| Co 228.616† | 15683.6 | 0.497704 | mg/L | 0.0068627 | 0.497704 | mg/L | 0.0068627 | 1.38% |
| Cr 267.716† | 57371.2 | 0.488511 | mg/L | 0.0003099 | 0.488511 | mg/L | 0.0003099 | 0.06% |
| Cu 327.393† | 58302.5 | 0.499235 | mg/L | 0.0006539 | 0.499235 | mg/L | 0.0006539 | 0.13% |
| Fe 273.955† | 386434.3 | 12.8675 | mg/L | 0.02920 | 12.8675 | mg/L | 0.02920 | 0.23% |
| K 404.721† | 19448.1 | 141.675 | mg/L | 0.5643 | 141.675 | mg/L | 0.5643 | 0.40% |
| Mg 279.077† | 3902062.4 | 154.851 | mg/L | 0.5502 | 154.851 | mg/L | 0.5502 | 0.36% |
| Mn 257.610† | 732136.5 | 0.880140 | mg/L | 0.0023188 | 0.880140 | mg/L | 0.0023188 | 0.26% |
| Mo 202.031† | 6287.8 | 0.485755 | mg/L | 0.0065280 | 0.485755 | mg/L | 0.0065280 | 1.34% |
| Na 330.237† | 1738454.4 | 1217.18 | mg/L | 4.578 | 1217.18 | mg/L | 4.578 | 0.38% |
| Ni 231.604† | 16689.2 | 0.506001 | mg/L | 0.0075713 | 0.506001 | mg/L | 0.0075713 | 1.50% |
| Pb 220.353† | 2044.2 | 0.520896 | mg/L | 0.0100209 | 0.520896 | mg/L | 0.0100209 | 1.92% |
| Sb 206.836† | 528.8 | 0.444887 | mg/L | 0.0078314 | 0.444887 | mg/L | 0.0078314 | 1.76% |
| Se 196.026† | 488.0 | 0.476299 | mg/L | 0.0123051 | 0.476299 | mg/L | 0.0123051 | 2.58% |
| Sn 189.927† | 2048.1 | 0.497925 | mg/L | 0.0071429 | 0.497925 | mg/L | 0.0071429 | 1.43% |
| Ti 334.940† | 428761.4 | 0.494212 | mg/L | 0.0010129 | 0.494212 | mg/L | 0.0010129 | 0.20% |
| Tl 190.801† | 418.4 | 0.489896 | mg/L | 0.0093241 | 0.489896 | mg/L | 0.0093241 | 1.90% |
| V 290.880† | 80868.4 | 0.497143 | mg/L | 0.0007148 | 0.497143 | mg/L | 0.0007148 | 0.14% |
| Zn 206.200† | 25227.8 | 0.499994 | mg/L | 0.0079578 | 0.499994 | mg/L | 0.0079578 | 1.59% |
| Si 251.611† | 330253.3 | 7.25357 | mg/L | 0.010732 | 7.25357 | mg/L | 0.010732 | 0.15% |
| B 249.772† | 188612.3 | 1.82086 | mg/L | 0.006939 | 1.82086 | mg/L | 0.006939 | 0.38% |
| Ce 413.764 | 23322.3 | 0.434712 | mg/L | 0.0022880 | 0.434712 | mg/L | 0.0022880 | 0.53% |

Sequence No.: 63
Sample ID: AD26083-045 MS 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 70
Date Collected: 9/29/2021 2:23:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-045 MS 2

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 662062.7 | 81.7 | % | 1.17 | | | | 1.44% |
| Y 371.029 | 681079.1 | 80.1 | % | 1.13 | | | | 1.41% |
| Ag 328.068† | 17745.5 | 0.100920 | mg/L | 0.0028729 | 0.100920 | mg/L | 0.0028729 | 2.85% |
| Al 308.215† | 149197.2 | 4.84177 | mg/L | 0.141101 | 4.84177 | mg/L | 0.141101 | 2.91% |
| As 188.979† | 715.6 | 0.529660 | mg/L | 0.0196434 | 0.529660 | mg/L | 0.0196434 | 3.71% |
| Ba 233.527† | 212315.9 | 2.19965 | mg/L | 0.060654 | 2.19965 | mg/L | 0.060654 | 2.76% |
| Be 313.107† | 1610536.8 | 0.492963 | mg/L | 0.0169135 | 0.492963 | mg/L | 0.0169135 | 3.43% |
| Ca 315.887† | 16712586.8 | 121.382 | mg/L | 2.2410 | 121.382 | mg/L | 2.2410 | 1.85% |
| Cd 228.802† | 25370.0 | 0.525566 | mg/L | 0.0157775 | 0.525566 | mg/L | 0.0157775 | 3.00% |
| Co 228.616† | 15817.6 | 0.501965 | mg/L | 0.0156492 | 0.501965 | mg/L | 0.0156492 | 3.12% |
| Cr 267.716† | 57844.4 | 0.492527 | mg/L | 0.0141302 | 0.492527 | mg/L | 0.0141302 | 2.87% |
| Cu 327.393† | 58838.9 | 0.503839 | mg/L | 0.0165972 | 0.503839 | mg/L | 0.0165972 | 3.29% |
| Fe 273.955† | 390559.0 | 13.0047 | mg/L | 0.36390 | 13.0047 | mg/L | 0.36390 | 2.80% |
| K 404.721† | 19673.5 | 143.323 | mg/L | 2.7838 | 143.323 | mg/L | 2.7838 | 1.94% |
| Mg 279.077† | 3919245.7 | 155.533 | mg/L | 3.6603 | 155.533 | mg/L | 3.6603 | 2.35% |
| Mn 257.610† | 740618.6 | 0.890322 | mg/L | 0.0264994 | 0.890322 | mg/L | 0.0264994 | 2.98% |
| Mo 202.031† | 6364.9 | 0.491690 | mg/L | 0.0159136 | 0.491690 | mg/L | 0.0159136 | 3.24% |
| Na 330.237† | 1762133.4 | 1233.75 | mg/L | 24.328 | 1233.75 | mg/L | 24.328 | 1.97% |
| Ni 231.604† | 16850.0 | 0.510867 | mg/L | 0.0156639 | 0.510867 | mg/L | 0.0156639 | 3.07% |
| Pb 220.353† | 2062.3 | 0.525488 | mg/L | 0.0140865 | 0.525488 | mg/L | 0.0140865 | 2.68% |
| Sb 206.836† | 526.2 | 0.442853 | mg/L | 0.0130321 | 0.442853 | mg/L | 0.0130321 | 2.94% |
| Se 196.026† | 477.3 | 0.465851 | mg/L | 0.0120256 | 0.465851 | mg/L | 0.0120256 | 2.58% |
| Sn 189.927† | 2061.9 | 0.501276 | mg/L | 0.0133782 | 0.501276 | mg/L | 0.0133782 | 2.67% |
| Ti 334.940† | 434565.5 | 0.500855 | mg/L | 0.0157940 | 0.500855 | mg/L | 0.0157940 | 3.15% |
| Tl 190.801† | 415.9 | 0.487168 | mg/L | 0.0113344 | 0.487168 | mg/L | 0.0113344 | 2.33% |
| V 290.880† | 81813.5 | 0.502911 | mg/L | 0.0156616 | 0.502911 | mg/L | 0.0156616 | 3.11% |
| Zn 206.200† | 25178.9 | 0.499031 | mg/L | 0.0141607 | 0.499031 | mg/L | 0.0141607 | 2.84% |
| Si 251.611† | 334325.2 | 7.34415 | mg/L | 0.215165 | 7.34415 | mg/L | 0.215165 | 2.93% |
| B 249.772† | 191212.1 | 1.84604 | mg/L | 0.067780 | 1.84604 | mg/L | 0.067780 | 3.67% |
| Ce 413.764 | 22906.1 | 0.426599 | mg/L | 0.0080409 | 0.426599 | mg/L | 0.0080409 | 1.88% |

Sequence No.: 64
Sample ID: AD26083-041 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 71
Date Collected: 9/29/2021 2:28:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 PS

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 669890.1 | 82.7 | % | 1.58 | | | | 1.92% |
| Y 371.029 | 688039.7 | 80.9 | % | 1.63 | | | | 2.02% |
| Ag 328.068† | 10057.7 | 0.0579692 | mg/L | 0.00083115 | 0.0579692 | mg/L | 0.00083115 | 1.43% |
| Al 308.215† | 158663.4 | 5.14832 | mg/L | 0.074018 | 5.14832 | mg/L | 0.074018 | 1.44% |
| As 188.979† | 761.2 | 0.563200 | mg/L | 0.0101268 | 0.563200 | mg/L | 0.0101268 | 1.80% |
| Ba 233.527† | 232899.8 | 2.41276 | mg/L | 0.035648 | 2.41276 | mg/L | 0.035648 | 1.48% |
| Be 313.107† | 1716323.9 | 0.525102 | mg/L | 0.0075624 | 0.525102 | mg/L | 0.0075624 | 1.44% |
| Ca 315.887† | 17961027.8 | 130.429 | mg/L | 2.5469 | 130.429 | mg/L | 2.5469 | 1.95% |
| Cd 228.802† | 27139.0 | 0.562024 | mg/L | 0.0069562 | 0.562024 | mg/L | 0.0069562 | 1.24% |
| Co 228.616† | 16910.4 | 0.536788 | mg/L | 0.0070500 | 0.536788 | mg/L | 0.0070500 | 1.31% |
| Cr 267.716† | 61577.3 | 0.524202 | mg/L | 0.0077665 | 0.524202 | mg/L | 0.0077665 | 1.48% |
| Cu 327.393† | 62475.7 | 0.534868 | mg/L | 0.0061303 | 0.534868 | mg/L | 0.0061303 | 1.15% |
| Fe 273.955† | 425073.9 | 14.1533 | mg/L | 0.22313 | 14.1533 | mg/L | 0.22313 | 1.58% |
| K 404.721† | 21390.1 | 155.872 | mg/L | 2.0426 | 155.872 | mg/L | 2.0426 | 1.31% |
| Mg 279.077† | 4280401.6 | 169.865 | mg/L | 3.1024 | 169.865 | mg/L | 3.1024 | 1.83% |
| Mn 257.610† | 802828.4 | 0.964996 | mg/L | 0.0142791 | 0.964996 | mg/L | 0.0142791 | 1.48% |
| Mo 202.031† | 6773.7 | 0.523143 | mg/L | 0.0073652 | 0.523143 | mg/L | 0.0073652 | 1.41% |
| Na 330.237† | 1938059.7 | 1356.82 | mg/L | 20.642 | 1356.82 | mg/L | 20.642 | 1.52% |
| Ni 231.604† | 17957.5 | 0.544388 | mg/L | 0.0081364 | 0.544388 | mg/L | 0.0081364 | 1.49% |
| Pb 220.353† | 2191.8 | 0.558519 | mg/L | 0.0063635 | 0.558519 | mg/L | 0.0063635 | 1.14% |
| Sb 206.836† | 570.7 | 0.479827 | mg/L | 0.0016218 | 0.479827 | mg/L | 0.0016218 | 0.34% |
| Se 196.026† | 514.5 | 0.502103 | mg/L | 0.0066182 | 0.502103 | mg/L | 0.0066182 | 1.32% |
| Sn 189.927† | 2196.9 | 0.534090 | mg/L | 0.0081696 | 0.534090 | mg/L | 0.0081696 | 1.53% |
| Ti 334.940† | 461646.8 | 0.531853 | mg/L | 0.0067858 | 0.531853 | mg/L | 0.0067858 | 1.28% |
| Tl 190.801† | 444.2 | 0.520074 | mg/L | 0.0032331 | 0.520074 | mg/L | 0.0032331 | 0.62% |
| V 290.880† | 87298.6 | 0.536387 | mg/L | 0.0081627 | 0.536387 | mg/L | 0.0081627 | 1.52% |
| Zn 206.200† | 26950.4 | 0.533929 | mg/L | 0.0063423 | 0.533929 | mg/L | 0.0063423 | 1.19% |
| Si 251.611† | 386676.3 | 8.50835 | mg/L | 0.172613 | 8.50835 | mg/L | 0.172613 | 2.03% |
| B 249.772† | 206307.1 | 1.99084 | mg/L | 0.040737 | 1.99084 | mg/L | 0.040737 | 2.05% |
| Ce 413.764 | 22478.5 | 0.418265 | mg/L | 0.0099402 | 0.418265 | mg/L | 0.0099402 | 2.38% |

Sequence No.: 65
Sample ID: AD26083-041 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 72
Date Collected: 9/29/2021 2:32:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 SD

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 729608.6 | 90.1 | % | 0.61 | | | | 0.68% |
| Y 371.029 | 758153.9 | 89.2 | % | 0.55 | | | | 0.62% |
| Ag 328.068† | -10.3 | 0.0004891 | mg/L | 0.00013968 | 0.0004891 | mg/L | 0.00013968 | 28.56% |
| Al 308.215† | 627.7 | 0.0305069 | mg/L | 0.00168636 | 0.0305069 | mg/L | 0.00168636 | 5.53% |
| As 188.979† | 19.0 | 0.0173544 | mg/L | 0.00144669 | 0.0173544 | mg/L | 0.00144669 | 8.34% |
| Ba 233.527† | 36888.2 | 0.383467 | mg/L | 0.0018897 | 0.383467 | mg/L | 0.0018897 | 0.49% |
| Be 313.107† | 1973.1 | 0.0042568 | mg/L | 0.00003239 | 0.0042568 | mg/L | 0.00003239 | 0.76% |
| Ca 315.887† | 2310987.5 | 17.0185 | mg/L | 0.10319 | 17.0185 | mg/L | 0.10319 | 0.61% |
| Cd 228.802† | 18.3 | 0.0042069 | mg/L | 0.00026171 | 0.0042069 | mg/L | 0.00026171 | 6.22% |
| Co 228.616† | 125.3 | 0.0055955 | mg/L | 0.00049633 | 0.0055955 | mg/L | 0.00049633 | 8.87% |
| Cr 267.716† | 40.6 | 0.0020267 | mg/L | 0.00032726 | 0.0020267 | mg/L | 0.00032726 | 16.15% |
| Cu 327.393† | -154.4 | -0.0001467 | mg/L | 0.00067959 | -0.0001467 | mg/L | 0.00067959 | 463.31% |
| Fe 273.955† | 55518.0 | 1.85569 | mg/L | 0.008289 | 1.85569 | mg/L | 0.008289 | 0.45% |
| K 404.721† | 2354.9 | 16.7194 | mg/L | 0.51034 | 16.7194 | mg/L | 0.51034 | 3.05% |
| Mg 279.077† | 635740.3 | 25.2305 | mg/L | 0.14726 | 25.2305 | mg/L | 0.14726 | 0.58% |
| Mn 257.610† | 76462.4 | 0.0930961 | mg/L | 0.00042266 | 0.0930961 | mg/L | 0.00042266 | 0.45% |
| Mo 202.031† | 53.9 | 0.0060335 | mg/L | 0.00027730 | 0.0060335 | mg/L | 0.00027730 | 4.60% |
| Na 330.237† | 342110.1 | 240.375 | mg/L | 1.4305 | 240.375 | mg/L | 1.4305 | 0.60% |
| Ni 231.604† | 340.0 | 0.0111690 | mg/L | 0.00090954 | 0.0111690 | mg/L | 0.00090954 | 8.14% |
| Pb 220.353† | 21.4 | 0.0081061 | mg/L | 0.00070054 | 0.0081061 | mg/L | 0.00070054 | 8.64% |
| Sb 206.836† | -33.7 | -0.0233369 | mg/L | 0.00496907 | -0.0233369 | mg/L | 0.00496907 | 21.29% |
| Se 196.026† | -13.8 | -0.0120083 | mg/L | 0.00836780 | -0.0120083 | mg/L | 0.00836780 | 69.68% |
| Sn 189.927† | -11.5 | -0.0028262 | mg/L | 0.00176774 | -0.0028262 | mg/L | 0.00176774 | 62.55% |
| Ti 334.940† | 706.3 | 0.0042518 | mg/L | 0.00007470 | 0.0042518 | mg/L | 0.00007470 | 1.76% |
| Tl 190.801† | -13.5 | -0.0111749 | mg/L | 0.00251137 | -0.0111749 | mg/L | 0.00251137 | 22.47% |
| V 290.880† | 205.2 | 0.0048576 | mg/L | 0.00043554 | 0.0048576 | mg/L | 0.00043554 | 8.97% |
| Zn 206.200† | 81.9 | 0.0046192 | mg/L | 0.00024940 | 0.0046192 | mg/L | 0.00024940 | 5.40% |
| Si 251.611† | 67328.5 | 1.40418 | mg/L | 0.003763 | 1.40418 | mg/L | 0.003763 | 0.27% |
| B 249.772† | 33375.5 | 0.328605 | mg/L | 0.0023068 | 0.328605 | mg/L | 0.0023068 | 0.70% |
| Ce 413.764 | -178.7 | -0.0233967 | mg/L | 0.00103454 | -0.0233967 | mg/L | 0.00103454 | 4.42% |

Sequence No.: 66
Sample ID: AD26083-004
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 73
Date Collected: 9/29/2021 2:36:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-004

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 762236.1 | 94.1 | % | 0.43 | | | | 0.46% |
| Y 371.029 | 799926.9 | 94.1 | % | 0.49 | | | | 0.52% |
| Ag 328.068† | -51.5 | 0.0001391 | mg/L | 0.00063222 | 0.0001391 | mg/L | 0.00063222 | 454.66% |
| Al 308.215† | 240.4 | 0.0179658 | mg/L | 0.00247570 | 0.0179658 | mg/L | 0.00247570 | 13.78% |
| As 188.979† | 11.4 | 0.0117284 | mg/L | 0.00225121 | 0.0117284 | mg/L | 0.00225121 | 19.19% |
| Ba 233.527† | 21179.7 | 0.220839 | mg/L | 0.0014899 | 0.220839 | mg/L | 0.0014899 | 0.67% |
| Be 313.107† | 1417.5 | 0.0040880 | mg/L | 0.00002330 | 0.0040880 | mg/L | 0.00002330 | 0.57% |
| Ca 315.887† | 7001247.0 | 51.0072 | mg/L | 0.28973 | 51.0072 | mg/L | 0.28973 | 0.57% |
| Cd 228.802† | 34.7 | 0.0040643 | mg/L | 0.00013009 | 0.0040643 | mg/L | 0.00013009 | 3.20% |
| Co 228.616† | 94.5 | 0.0041672 | mg/L | 0.00059153 | 0.0041672 | mg/L | 0.00059153 | 14.19% |
| Cr 267.716† | 14.5 | 0.0018054 | mg/L | 0.00027016 | 0.0018054 | mg/L | 0.00027016 | 14.96% |
| Cu 327.393† | 157.6 | 0.0029836 | mg/L | 0.00076979 | 0.0029836 | mg/L | 0.00076979 | 25.80% |
| Fe 273.955† | 1385.6 | 0.0543465 | mg/L | 0.00084518 | 0.0543465 | mg/L | 0.00084518 | 1.56% |
| K 404.721† | -228.0 | -2.16239 | mg/L | 0.642860 | -2.16239 | mg/L | 0.642860 | 29.73% |
| Mg 279.077† | 523288.3 | 20.7680 | mg/L | 0.13397 | 20.7680 | mg/L | 0.13397 | 0.65% |
| Mn 257.610† | 69138.2 | 0.0843043 | mg/L | 0.00052069 | 0.0843043 | mg/L | 0.00052069 | 0.62% |
| Mo 202.031† | 67.5 | 0.0070784 | mg/L | 0.00052209 | 0.0070784 | mg/L | 0.00052209 | 7.38% |
| Na 330.237† | 16506.1 | 12.5995 | mg/L | 0.08863 | 12.5995 | mg/L | 0.08863 | 0.70% |
| Ni 231.604† | 226.8 | 0.0077447 | mg/L | 0.00047220 | 0.0077447 | mg/L | 0.00047220 | 6.10% |
| Pb 220.353† | 42.6 | 0.0132498 | mg/L | 0.00078021 | 0.0132498 | mg/L | 0.00078021 | 5.89% |
| Sb 206.836† | -11.1 | -0.0047660 | mg/L | 0.00414743 | -0.0047660 | mg/L | 0.00414743 | 87.02% |
| Se 196.026† | -17.0 | -0.0152565 | mg/L | 0.00781568 | -0.0152565 | mg/L | 0.00781568 | 51.23% |
| Sn 189.927† | -17.8 | -0.0043569 | mg/L | 0.00149391 | -0.0043569 | mg/L | 0.00149391 | 34.29% |
| Ti 334.940† | 457.0 | 0.0039664 | mg/L | 0.00008755 | 0.0039664 | mg/L | 0.00008755 | 2.21% |
| Tl 190.801† | -16.2 | -0.0119010 | mg/L | 0.00105286 | -0.0119010 | mg/L | 0.00105286 | 8.85% |
| V 290.880† | -59.1 | 0.0032443 | mg/L | 0.00032708 | 0.0032443 | mg/L | 0.00032708 | 10.08% |
| Zn 206.200† | 897.9 | 0.0206959 | mg/L | 0.00014216 | 0.0206959 | mg/L | 0.00014216 | 0.69% |
| Si 251.611† | 399578.4 | 8.78880 | mg/L | 0.063335 | 8.78880 | mg/L | 0.063335 | 0.72% |
| B 249.772† | 3025.3 | 0.0355019 | mg/L | 0.00262326 | 0.0355019 | mg/L | 0.00262326 | 7.39% |
| Ce 413.764 | -236.7 | -0.0245272 | mg/L | 0.00039513 | -0.0245272 | mg/L | 0.00039513 | 1.61% |

Sequence No.: 67
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 2:40:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 734825.5 | 90.7 | % | 1.43 | | | | 1.57% |
| Y 371.029 | 781356.9 | 91.9 | % | 0.72 | | | | 0.78% |
| Ag 328.068† | 16833.5 | 0.0952907 | mg/L | 0.00031520 | 0.0952907 | mg/L | 0.00031520 | 0.33% |
| QC value within limits for Ag 328.068 Recovery = 95.29% | | | | | | | | |
| Al 308.215† | 145900.1 | 4.73500 | mg/L | 0.010925 | 4.73500 | mg/L | 0.010925 | 0.23% |
| QC value within limits for Al 308.215 Recovery = 94.70% | | | | | | | | |
| As 188.979† | 658.6 | 0.487674 | mg/L | 0.0016497 | 0.487674 | mg/L | 0.0016497 | 0.34% |
| QC value within limits for As 188.979 Recovery = 97.53% | | | | | | | | |
| Ba 233.527† | 45538.7 | 0.473025 | mg/L | 0.0044008 | 0.473025 | mg/L | 0.0044008 | 0.93% |
| QC value within limits for Ba 233.527 Recovery = 94.61% | | | | | | | | |
| Be 313.107† | 1537898.5 | 0.470894 | mg/L | 0.0066031 | 0.470894 | mg/L | 0.0066031 | 1.40% |
| QC value within limits for Be 313.107 Recovery = 94.18% | | | | | | | | |
| Ca 315.887† | 6533412.5 | 47.6170 | mg/L | 0.66162 | 47.6170 | mg/L | 0.66162 | 1.39% |
| QC value within limits for Ca 315.887 Recovery = 95.23% | | | | | | | | |
| Cd 228.802† | 23898.0 | 0.493352 | mg/L | 0.0044193 | 0.493352 | mg/L | 0.0044193 | 0.90% |
| QC value within limits for Cd 228.802 Recovery = 98.67% | | | | | | | | |
| Co 228.616† | 15085.1 | 0.474154 | mg/L | 0.0049909 | 0.474154 | mg/L | 0.0049909 | 1.05% |
| QC value within limits for Co 228.616 Recovery = 94.83% | | | | | | | | |
| Cr 267.716† | 55605.1 | 0.473525 | mg/L | 0.0014066 | 0.473525 | mg/L | 0.0014066 | 0.30% |
| QC value within limits for Cr 267.716 Recovery = 94.71% | | | | | | | | |
| Cu 327.393† | 55677.3 | 0.477181 | mg/L | 0.0013040 | 0.477181 | mg/L | 0.0013040 | 0.27% |
| QC value within limits for Cu 327.393 Recovery = 95.44% | | | | | | | | |
| Fe 273.955† | 139494.4 | 4.65014 | mg/L | 0.012506 | 4.65014 | mg/L | 0.012506 | 0.27% |
| QC value within limits for Fe 273.955 Recovery = 93.00% | | | | | | | | |
| K 404.721† | 6280.6 | 45.4169 | mg/L | 0.67878 | 45.4169 | mg/L | 0.67878 | 1.49% |
| QC value within limits for K 404.721 Recovery = 90.83% | | | | | | | | |
| Mg 279.077† | 1194398.3 | 47.4003 | mg/L | 0.67274 | 47.4003 | mg/L | 0.67274 | 1.42% |
| QC value within limits for Mg 279.077 Recovery = 94.80% | | | | | | | | |
| Mn 257.610† | 389023.2 | 0.468281 | mg/L | 0.0008597 | 0.468281 | mg/L | 0.0008597 | 0.18% |
| QC value within limits for Mn 257.610 Recovery = 93.66% | | | | | | | | |
| Mo 202.031† | 6021.3 | 0.465259 | mg/L | 0.0043802 | 0.465259 | mg/L | 0.0043802 | 0.94% |
| QC value within limits for Mo 202.031 Recovery = 93.05% | | | | | | | | |
| Na 330.237† | 64759.0 | 46.3547 | mg/L | 0.09384 | 46.3547 | mg/L | 0.09384 | 0.20% |
| QC value within limits for Na 330.237 Recovery = 92.71% | | | | | | | | |
| Ni 231.604† | 15709.1 | 0.476338 | mg/L | 0.0045884 | 0.476338 | mg/L | 0.0045884 | 0.96% |
| QC value within limits for Ni 231.604 Recovery = 95.27% | | | | | | | | |
| Pb 220.353† | 2027.2 | 0.512928 | mg/L | 0.0065006 | 0.512928 | mg/L | 0.0065006 | 1.27% |
| QC value within limits for Pb 220.353 Recovery = 102.59% | | | | | | | | |
| Sb 206.836† | 552.2 | 0.464041 | mg/L | 0.0050098 | 0.464041 | mg/L | 0.0050098 | 1.08% |
| QC value within limits for Sb 206.836 Recovery = 92.81% | | | | | | | | |
| Se 196.026† | 473.6 | 0.461784 | mg/L | 0.0093911 | 0.461784 | mg/L | 0.0093911 | 2.03% |
| QC value within limits for Se 196.026 Recovery = 92.36% | | | | | | | | |
| Sn 189.927† | 1982.6 | 0.481995 | mg/L | 0.0060808 | 0.481995 | mg/L | 0.0060808 | 1.26% |
| QC value within limits for Sn 189.927 Recovery = 96.40% | | | | | | | | |
| Ti 334.940† | 407114.1 | 0.469434 | mg/L | 0.0004151 | 0.469434 | mg/L | 0.0004151 | 0.09% |
| QC value within limits for Ti 334.940 Recovery = 93.89% | | | | | | | | |
| Tl 190.801† | 422.5 | 0.489724 | mg/L | 0.0030305 | 0.489724 | mg/L | 0.0030305 | 0.62% |
| QC value within limits for Tl 190.801 Recovery = 97.94% | | | | | | | | |
| V 290.880† | 76503.0 | 0.470501 | mg/L | 0.0013010 | 0.470501 | mg/L | 0.0013010 | 0.28% |
| QC value within limits for V 290.880 Recovery = 94.10% | | | | | | | | |
| Zn 206.200† | 23525.0 | 0.466449 | mg/L | 0.0046497 | 0.466449 | mg/L | 0.0046497 | 1.00% |
| QC value within limits for Zn 206.200 Recovery = 93.29% | | | | | | | | |
| Si 251.611† | 211313.2 | 4.60601 | mg/L | 0.007934 | 4.60601 | mg/L | 0.007934 | 0.17% |
| QC value within limits for Si 251.611 Recovery = 92.12% | | | | | | | | |
| B 249.772† | 44866.4 | 0.431449 | mg/L | 0.0054258 | 0.431449 | mg/L | 0.0054258 | 1.26% |
| QC value less than the lower limit for B 249.772 Recovery = 86.29% | | | | | | | | |
| Ce 413.764 | 24521.3 | 0.458085 | mg/L | 0.0088530 | 0.458085 | mg/L | 0.0088530 | 1.93% |
| QC value within limits for Ce 413.764 Recovery = 91.62% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 68
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 2:44:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 809680.9 | 99.9 | % | 0.97 | | | | 0.97% |
| Y 371.029 | 863806.4 | 102 | % | 1.1 | | | | 1.06% |
| Ag 328.068† | -49.5 | 0.0001465 | mg/L | 0.00019888 | 0.0001465 | mg/L | 0.00019888 | 135.72% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -353.1 | -0.0012548 | mg/L | 0.00115576 | -0.0012548 | mg/L | 0.00115576 | 92.11% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 12.4 | 0.0124880 | mg/L | 0.00307587 | 0.0124880 | mg/L | 0.00307587 | 24.63% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -66.4 | 0.0008794 | mg/L | 0.00010136 | 0.0008794 | mg/L | 0.00010136 | 11.53% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1654.0 | 0.0041598 | mg/L | 0.00002010 | 0.0041598 | mg/L | 0.00002010 | 0.48% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 857.5 | 0.277777 | mg/L | 0.0017230 | 0.277777 | mg/L | 0.0017230 | 0.62% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 47.3 | 0.0042716 | mg/L | 0.00031535 | 0.0042716 | mg/L | 0.00031535 | 7.38% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 107.7 | 0.0039602 | mg/L | 0.00049211 | 0.0039602 | mg/L | 0.00049211 | 12.43% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 57.0 | 0.0021659 | mg/L | 0.00020993 | 0.0021659 | mg/L | 0.00020993 | 9.69% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 579.9 | 0.0062203 | mg/L | 0.00018223 | 0.0062203 | mg/L | 0.00018223 | 2.93% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -238.2 | 0.0003101 | mg/L | 0.00132333 | 0.0003101 | mg/L | 0.00132333 | 426.73% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 18.8 | -0.357877 | mg/L | 0.8303294 | -0.357877 | mg/L | 0.8303294 | 232.02% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 145.0 | 0.0075463 | mg/L | 0.00163917 | 0.0075463 | mg/L | 0.00163917 | 21.72% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -46.1 | 0.0012584 | mg/L | 0.00006847 | 0.0012584 | mg/L | 0.00006847 | 5.44% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 25.3 | 0.0038298 | mg/L | 0.00048914 | 0.0038298 | mg/L | 0.00048914 | 12.77% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 168.3 | 1.17047 | mg/L | 0.111286 | 1.17047 | mg/L | 0.111286 | 9.51% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 107.4 | 0.0041287 | mg/L | 0.00023823 | 0.0041287 | mg/L | 0.00023823 | 5.77% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 45.6 | 0.0132913 | mg/L | 0.00278981 | 0.0132913 | mg/L | 0.00278981 | 20.99% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -1.7 | 0.0029539 | mg/L | 0.00343975 | 0.0029539 | mg/L | 0.00343975 | 116.45% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -11.2 | -0.0096229 | mg/L | 0.00437106 | -0.0096229 | mg/L | 0.00437106 | 45.42% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -0.0 | -0.0000197 | mg/L | 0.00106358 | -0.0000197 | mg/L | 0.00106358 | >999.9% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 90.3 | 0.0035467 | mg/L | 0.00003227 | 0.0035467 | mg/L | 0.00003227 | 0.91% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -6.9 | -0.0047974 | mg/L | 0.00172160 | -0.0047974 | mg/L | 0.00172160 | 35.89% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 175.5 | 0.0046761 | mg/L | 0.00048005 | 0.0046761 | mg/L | 0.00048005 | 10.27% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -15.2 | 0.0027065 | mg/L | 0.00003635 | 0.0027065 | mg/L | 0.00003635 | 1.34% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 473.8 | -0.0827344 | mg/L | 0.00058151 | -0.0827344 | mg/L | 0.00058151 | 0.70% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 263.8 | 0.0084105 | mg/L | 0.00163038 | 0.0084105 | mg/L | 0.00163038 | 19.39% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -262.5 | -0.0250307 | mg/L | 0.00115347 | -0.0250307 | mg/L | 0.00115347 | 4.61% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 69
Sample ID: AD26083-007
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 74
Date Collected: 9/29/2021 2:48:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-007

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 772369.8 | 95.3 | % | 1.17 | | | | 1.23% |
| Y 371.029 | 810937.0 | 95.4 | % | 1.19 | | | | 1.25% |
| Ag 328.068† | -69.0 | 0.0000428 | mg/L | 0.00050044 | 0.0000428 | mg/L | 0.00050044 | >999.9% |
| Al 308.215† | 532.1 | 0.0274126 | mg/L | 0.00469641 | 0.0274126 | mg/L | 0.00469641 | 17.13% |
| As 188.979† | 15.0 | 0.0143760 | mg/L | 0.00150361 | 0.0143760 | mg/L | 0.00150361 | 10.46% |
| Ba 233.527† | 24337.4 | 0.253530 | mg/L | 0.0021163 | 0.253530 | mg/L | 0.0021163 | 0.83% |
| Be 313.107† | 1472.6 | 0.0041047 | mg/L | 0.00003710 | 0.0041047 | mg/L | 0.00003710 | 0.90% |
| Ca 315.887† | 6376810.8 | 46.4821 | mg/L | 0.42304 | 46.4821 | mg/L | 0.42304 | 0.91% |
| Cd 228.802† | 44.1 | 0.0042492 | mg/L | 0.00035140 | 0.0042492 | mg/L | 0.00035140 | 8.27% |
| Co 228.616† | 110.8 | 0.0047732 | mg/L | 0.00046503 | 0.0047732 | mg/L | 0.00046503 | 9.74% |
| Cr 267.716† | 42.2 | 0.0020402 | mg/L | 0.00026104 | 0.0020402 | mg/L | 0.00026104 | 12.79% |
| Cu 327.393† | 155.0 | 0.0029412 | mg/L | 0.00019257 | 0.0029412 | mg/L | 0.00019257 | 6.55% |
| Fe 273.955† | 1826.4 | 0.0690138 | mg/L | 0.00140545 | 0.0690138 | mg/L | 0.00140545 | 2.04% |
| K 404.721† | -184.8 | -1.84616 | mg/L | 0.957898 | -1.84616 | mg/L | 0.957898 | 51.89% |
| Mg 279.077† | 448403.2 | 17.7962 | mg/L | 0.10225 | 17.7962 | mg/L | 0.10225 | 0.57% |
| Mn 257.610† | 293856.5 | 0.354047 | mg/L | 0.0022525 | 0.354047 | mg/L | 0.0022525 | 0.64% |
| Mo 202.031† | 72.6 | 0.0074661 | mg/L | 0.00060597 | 0.0074661 | mg/L | 0.00060597 | 8.12% |
| Na 330.237† | 12259.8 | 9.62900 | mg/L | 0.074003 | 9.62900 | mg/L | 0.074003 | 0.77% |
| Ni 231.604† | 190.5 | 0.0066462 | mg/L | 0.00070686 | 0.0066462 | mg/L | 0.00070686 | 10.64% |
| Pb 220.353† | 39.3 | 0.0123425 | mg/L | 0.00412665 | 0.0123425 | mg/L | 0.00412665 | 33.43% |
| Sb 206.836† | -15.0 | -0.0079180 | mg/L | 0.00473452 | -0.0079180 | mg/L | 0.00473452 | 59.79% |
| Se 196.026† | -19.8 | -0.0179896 | mg/L | 0.01096185 | -0.0179896 | mg/L | 0.01096185 | 60.93% |
| Sn 189.927† | -17.9 | -0.0043766 | mg/L | 0.00150814 | -0.0043766 | mg/L | 0.00150814 | 34.46% |
| Ti 334.940† | 518.0 | 0.0040362 | mg/L | 0.00013702 | 0.0040362 | mg/L | 0.00013702 | 3.39% |
| Tl 190.801† | -18.0 | -0.0142138 | mg/L | 0.00261868 | -0.0142138 | mg/L | 0.00261868 | 18.42% |
| V 290.880† | -122.5 | 0.0028575 | mg/L | 0.00022863 | 0.0028575 | mg/L | 0.00022863 | 8.00% |
| Zn 206.200† | 692.1 | 0.0166409 | mg/L | 0.00041085 | 0.0166409 | mg/L | 0.00041085 | 2.47% |
| Si 251.611† | 336274.9 | 7.38166 | mg/L | 0.053052 | 7.38166 | mg/L | 0.053052 | 0.72% |
| B 249.772† | 810.6 | 0.0135517 | mg/L | 0.00066700 | 0.0135517 | mg/L | 0.00066700 | 4.92% |
| Ce 413.764 | -221.4 | -0.0242297 | mg/L | 0.00101574 | -0.0242297 | mg/L | 0.00101574 | 4.19% |

Sequence No.: 70
Sample ID: AD26083-013
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 75
Date Collected: 9/29/2021 2:52:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-013

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Calib Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 799556.3 | 98.7 | % | 0.44 | | | | 0.44% |
| Y 371.029 | 842338.0 | 99.1 | % | 0.42 | | | | 0.42% |
| Ag 328.068† | -361.1 | -0.0006386 | mg/L | 0.00009103 | -0.0006386 | mg/L | 0.00009103 | 14.25% |
| Al 308.215† | 96.5 | 0.0133060 | mg/L | 0.00156758 | 0.0133060 | mg/L | 0.00156758 | 11.78% |
| As 188.979† | 10.7 | 0.0112456 | mg/L | 0.00304609 | 0.0112456 | mg/L | 0.00304609 | 27.09% |
| Ba 233.527† | 7933.8 | 0.0837053 | mg/L | 0.00131738 | 0.0837053 | mg/L | 0.00131738 | 1.57% |
| Be 313.107† | 1359.7 | 0.0040704 | mg/L | 0.00002999 | 0.0040704 | mg/L | 0.00002999 | 0.74% |
| Ca 315.887† | 968646.8 | 7.29102 | mg/L | 0.011820 | 7.29102 | mg/L | 0.011820 | 0.16% |
| Cd 228.802† | -83.4 | 0.0051983 | mg/L | 0.00025606 | 0.0051983 | mg/L | 0.00025606 | 4.93% |
| Co 228.616† | 116.6 | 0.0044734 | mg/L | 0.00042962 | 0.0044734 | mg/L | 0.00042962 | 9.60% |
| Cr 267.716† | -25.9 | 0.0014622 | mg/L | 0.00020901 | 0.0014622 | mg/L | 0.00020901 | 14.29% |
| Cu 327.393† | 382.1 | 0.0045602 | mg/L | 0.00076686 | 0.0045602 | mg/L | 0.00076686 | 16.82% |
| Fe 273.955† | 437124.7 | 14.5543 | mg/L | 0.01646 | 14.5543 | mg/L | 0.01646 | 0.11% |
| K 404.721† | 363.3 | 2.16048 | mg/L | 0.370630 | 2.16048 | mg/L | 0.370630 | 17.15% |
| Mg 279.077† | 118079.9 | 4.68768 | mg/L | 0.003159 | 4.68768 | mg/L | 0.003159 | 0.07% |
| Mn 257.610† | 476509.5 | 0.573296 | mg/L | 0.0004505 | 0.573296 | mg/L | 0.0004505 | 0.08% |
| Mo 202.031† | 43.8 | 0.0052542 | mg/L | 0.00031447 | 0.0052542 | mg/L | 0.00031447 | 5.99% |
| Na 330.237† | 8960.4 | 7.32092 | mg/L | 0.089395 | 7.32092 | mg/L | 0.089395 | 1.22% |
| Ni 231.604† | 141.8 | 0.0051702 | mg/L | 0.00048785 | 0.0051702 | mg/L | 0.00048785 | 9.44% |
| Pb 220.353† | 45.2 | 0.0133626 | mg/L | 0.00018559 | 0.0133626 | mg/L | 0.00018559 | 1.39% |
| Sb 206.836† | -11.3 | -0.0049513 | mg/L | 0.00317861 | -0.0049513 | mg/L | 0.00317861 | 64.20% |
| Se 196.026† | -13.7 | -0.0112752 | mg/L | 0.00627857 | -0.0112752 | mg/L | 0.00627857 | 55.68% |
| Sn 189.927† | 1.9 | 0.0004489 | mg/L | 0.00049848 | 0.0004489 | mg/L | 0.00049848 | 111.04% |
| Ti 334.940† | 338.5 | 0.0038307 | mg/L | 0.00008455 | 0.0038307 | mg/L | 0.00008455 | 2.21% |
| Tl 190.801† | -11.4 | -0.0093854 | mg/L | 0.00512164 | -0.0093854 | mg/L | 0.00512164 | 54.57% |
| V 290.880† | 279.9 | 0.0053137 | mg/L | 0.00033791 | 0.0053137 | mg/L | 0.00033791 | 6.36% |
| Zn 206.200† | 920.1 | 0.0211328 | mg/L | 0.00047910 | 0.0211328 | mg/L | 0.00047910 | 2.27% |
| Si 251.611† | 168172.9 | 3.65153 | mg/L | 0.005952 | 3.65153 | mg/L | 0.005952 | 0.16% |
| B 249.772† | 7668.8 | 0.0256209 | mg/L | 0.00027773 | 0.0256209 | mg/L | 0.00027773 | 1.08% |
| Ce 413.764 | -204.7 | -0.0239033 | mg/L | 0.00022282 | -0.0239033 | mg/L | 0.00022282 | 0.93% |

Sequence No.: 71
Sample ID: AD26083-015
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 76
Date Collected: 9/29/2021 2:56:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-015

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 765340.6 | 94.5 | % | 0.64 | | | | 0.68% |
| Y 371.029 | 797743.4 | 93.9 | % | 0.57 | | | | 0.61% |
| Ag 328.068† | -37.3 | 0.0002277 | mg/L | 0.00047929 | 0.0002277 | mg/L | 0.00047929 | 210.51% |
| Al 308.215† | 693.0 | 0.0326222 | mg/L | 0.00224376 | 0.0326222 | mg/L | 0.00224376 | 6.88% |
| As 188.979† | 29.0 | 0.0246778 | mg/L | 0.00171643 | 0.0246778 | mg/L | 0.00171643 | 6.96% |
| Ba 233.527† | 9204.4 | 0.0968591 | mg/L | 0.00077931 | 0.0968591 | mg/L | 0.00077931 | 0.80% |
| Be 313.107† | 1656.3 | 0.0041605 | mg/L | 0.00002356 | 0.0041605 | mg/L | 0.00002356 | 0.57% |
| Ca 315.887† | 2258219.6 | 16.6361 | mg/L | 0.04203 | 16.6361 | mg/L | 0.04203 | 0.25% |
| Cd 228.802† | 45.1 | 0.0042916 | mg/L | 0.00024493 | 0.0042916 | mg/L | 0.00024493 | 5.71% |
| Co 228.616† | 118.6 | 0.0045713 | mg/L | 0.00031597 | 0.0045713 | mg/L | 0.00031597 | 6.91% |
| Cr 267.716† | 41.8 | 0.0020366 | mg/L | 0.00066517 | 0.0020366 | mg/L | 0.00066517 | 32.66% |
| Cu 327.393† | 192.8 | 0.0030151 | mg/L | 0.00043096 | 0.0030151 | mg/L | 0.00043096 | 14.29% |
| Fe 273.955† | 4892.2 | 0.171033 | mg/L | 0.0018672 | 0.171033 | mg/L | 0.0018672 | 1.09% |
| K 404.721† | 151.2 | 0.609846 | mg/L | 0.4029786 | 0.609846 | mg/L | 0.4029786 | 66.08% |
| Mg 279.077† | 204882.0 | 8.13233 | mg/L | 0.072743 | 8.13233 | mg/L | 0.072743 | 0.89% |
| Mn 257.610† | 64413.5 | 0.0786331 | mg/L | 0.00063256 | 0.0786331 | mg/L | 0.00063256 | 0.80% |
| Mo 202.031† | 74.7 | 0.0076322 | mg/L | 0.00003911 | 0.0076322 | mg/L | 0.00003911 | 0.51% |
| Na 330.237† | 126725.6 | 89.7032 | mg/L | 0.54872 | 89.7032 | mg/L | 0.54872 | 0.61% |
| Ni 231.604† | 181.8 | 0.0063822 | mg/L | 0.00030149 | 0.0063822 | mg/L | 0.00030149 | 4.72% |
| Pb 220.353† | 39.8 | 0.0121315 | mg/L | 0.00045172 | 0.0121315 | mg/L | 0.00045172 | 3.72% |
| Sb 206.836† | -17.0 | -0.0095518 | mg/L | 0.00067519 | -0.0095518 | mg/L | 0.00067519 | 7.07% |
| Se 196.026† | -14.0 | -0.0123599 | mg/L | 0.00465605 | -0.0123599 | mg/L | 0.00465605 | 37.67% |
| Sn 189.927† | -5.8 | -0.0014268 | mg/L | 0.00081605 | -0.0014268 | mg/L | 0.00081605 | 57.20% |
| Ti 334.940† | 772.6 | 0.0043277 | mg/L | 0.00003962 | 0.0043277 | mg/L | 0.00003962 | 0.92% |
| Tl 190.801† | -11.9 | -0.0093492 | mg/L | 0.00461010 | -0.0093492 | mg/L | 0.00461010 | 49.31% |
| V 290.880† | 213.5 | 0.0049081 | mg/L | 0.00007234 | 0.0049081 | mg/L | 0.00007234 | 1.47% |
| Zn 206.200† | 976.0 | 0.0222339 | mg/L | 0.00015995 | 0.0222339 | mg/L | 0.00015995 | 0.72% |
| Si 251.611† | 288160.9 | 6.31220 | mg/L | 0.047826 | 6.31220 | mg/L | 0.047826 | 0.76% |
| B 249.772† | 2396.0 | 0.0288314 | mg/L | 0.00014370 | 0.0288314 | mg/L | 0.00014370 | 0.50% |
| Ce 413.764 | -141.4 | -0.0226705 | mg/L | 0.00114070 | -0.0226705 | mg/L | 0.00114070 | 5.03% |

Sequence No.: 72
Sample ID: AD26083-017
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 77
Date Collected: 9/29/2021 3:00:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-017

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 769411.2 | 95.0 | % | 0.53 | | | | 0.56% |
| Y 371.029 | 807901.6 | 95.0 | % | 0.50 | | | | 0.52% |
| Ag 328.068† | -53.2 | 0.0001309 | mg/L | 0.00048853 | 0.0001309 | mg/L | 0.00048853 | 373.21% |
| Al 308.215† | 416.2 | 0.0236585 | mg/L | 0.00371564 | 0.0236585 | mg/L | 0.00371564 | 15.71% |
| As 188.979† | 11.8 | 0.0120222 | mg/L | 0.00451912 | 0.0120222 | mg/L | 0.00451912 | 37.59% |
| Ba 233.527† | 14057.7 | 0.147106 | mg/L | 0.0020191 | 0.147106 | mg/L | 0.0020191 | 1.37% |
| Be 313.107† | 1589.4 | 0.0041402 | mg/L | 0.00000547 | 0.0041402 | mg/L | 0.00000547 | 0.13% |
| Ca 315.887† | 4474015.8 | 32.6932 | mg/L | 0.12715 | 32.6932 | mg/L | 0.12715 | 0.39% |
| Cd 228.802† | 39.7 | 0.0041561 | mg/L | 0.00027250 | 0.0041561 | mg/L | 0.00027250 | 6.56% |
| Co 228.616† | 115.1 | 0.0046037 | mg/L | 0.00011967 | 0.0046037 | mg/L | 0.00011967 | 2.60% |
| Cr 267.716† | 49.5 | 0.0021016 | mg/L | 0.00010588 | 0.0021016 | mg/L | 0.00010588 | 5.04% |
| Cu 327.393† | 485.1 | 0.0057022 | mg/L | 0.00055144 | 0.0057022 | mg/L | 0.00055144 | 9.67% |
| Fe 273.955† | 2137.8 | 0.0793762 | mg/L | 0.00245070 | 0.0793762 | mg/L | 0.00245070 | 3.09% |
| K 404.721† | 108.7 | 0.299266 | mg/L | 1.4931168 | 0.299266 | mg/L | 1.4931168 | 498.93% |
| Mg 279.077† | 216581.2 | 8.59660 | mg/L | 0.159700 | 8.59660 | mg/L | 0.159700 | 1.86% |
| Mn 257.610† | 121080.1 | 0.146653 | mg/L | 0.0021951 | 0.146653 | mg/L | 0.0021951 | 1.50% |
| Mo 202.031† | 77.1 | 0.0078168 | mg/L | 0.00035435 | 0.0078168 | mg/L | 0.00035435 | 4.53% |
| Na 330.237† | 14705.4 | 11.3398 | mg/L | 0.16752 | 11.3398 | mg/L | 0.16752 | 1.48% |
| Ni 231.604† | 167.8 | 0.0059575 | mg/L | 0.00036674 | 0.0059575 | mg/L | 0.00036674 | 6.16% |
| Pb 220.353† | 41.1 | 0.0124569 | mg/L | 0.00166429 | 0.0124569 | mg/L | 0.00166429 | 13.36% |
| Sb 206.836† | -9.1 | -0.0030689 | mg/L | 0.00423763 | -0.0030689 | mg/L | 0.00423763 | 138.08% |
| Se 196.026† | -11.1 | -0.0094891 | mg/L | 0.00258109 | -0.0094891 | mg/L | 0.00258109 | 27.20% |
| Sn 189.927† | -8.3 | -0.0020456 | mg/L | 0.00085908 | -0.0020456 | mg/L | 0.00085908 | 42.00% |
| Ti 334.940† | 509.7 | 0.0040267 | mg/L | 0.00009827 | 0.0040267 | mg/L | 0.00009827 | 2.44% |
| Tl 190.801† | -15.7 | -0.0126260 | mg/L | 0.00232706 | -0.0126260 | mg/L | 0.00232706 | 18.43% |
| V 290.880† | 66.0 | 0.0040081 | mg/L | 0.00011185 | 0.0040081 | mg/L | 0.00011185 | 2.79% |
| Zn 206.200† | 724.1 | 0.0172717 | mg/L | 0.00012630 | 0.0172717 | mg/L | 0.00012630 | 0.73% |
| Si 251.611† | 261085.8 | 5.71032 | mg/L | 0.092741 | 5.71032 | mg/L | 0.092741 | 1.62% |
| B 249.772† | 1506.6 | 0.0203925 | mg/L | 0.00049010 | 0.0203925 | mg/L | 0.00049010 | 2.40% |
| Ce 413.764 | -280.8 | -0.0253877 | mg/L | 0.00136221 | -0.0253877 | mg/L | 0.00136221 | 5.37% |

Sequence No.: 73
Sample ID: AD26083-020
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 78
Date Collected: 9/29/2021 3:04:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-020

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 679810.1 | 83.9 | % | 0.04 | | | | 0.05% |
| Y 371.029 | 703182.4 | 82.7 | % | 0.15 | | | | 0.18% |
| Ag 328.068† | 74.8 | 0.0008828 | mg/L | 0.00030834 | 0.0008828 | mg/L | 0.00030834 | 34.93% |
| Al 308.215† | 1911.4 | 0.0720773 | mg/L | 0.00210955 | 0.0720773 | mg/L | 0.00210955 | 2.93% |
| As 188.979† | 29.4 | 0.0249837 | mg/L | 0.00071877 | 0.0249837 | mg/L | 0.00071877 | 2.88% |
| Ba 233.527† | 6004.5 | 0.0637310 | mg/L | 0.00011403 | 0.0637310 | mg/L | 0.00011403 | 0.18% |
| Be 313.107† | 2317.9 | 0.0043615 | mg/L | 0.00005441 | 0.0043615 | mg/L | 0.00005441 | 1.25% |
| Ca 315.887† | 3642338.9 | 26.6663 | mg/L | 0.07902 | 26.6663 | mg/L | 0.07902 | 0.30% |
| Cd 228.802† | 49.7 | 0.0045348 | mg/L | 0.00038920 | 0.0045348 | mg/L | 0.00038920 | 8.58% |
| Co 228.616† | 166.9 | 0.0059952 | mg/L | 0.00034453 | 0.0059952 | mg/L | 0.00034453 | 5.75% |
| Cr 267.716† | -224.9 | -0.0002261 | mg/L | 0.00035380 | -0.0002261 | mg/L | 0.00035380 | 156.46% |
| Cu 327.393† | -743.8 | -0.0051844 | mg/L | 0.00048156 | -0.0051844 | mg/L | 0.00048156 | 9.29% |
| Fe 273.955† | 17770.9 | 0.599591 | mg/L | 0.0051686 | 0.599591 | mg/L | 0.0051686 | 0.86% |
| K 404.721† | 3652.8 | 26.2071 | mg/L | 0.52180 | 26.2071 | mg/L | 0.52180 | 1.99% |
| Mg 279.077† | 889460.7 | 35.2992 | mg/L | 0.12254 | 35.2992 | mg/L | 0.12254 | 0.35% |
| Mn 257.610† | 76825.4 | 0.0935317 | mg/L | 0.00081961 | 0.0935317 | mg/L | 0.00081961 | 0.88% |
| Mo 202.031† | 117.3 | 0.0109075 | mg/L | 0.00065983 | 0.0109075 | mg/L | 0.00065983 | 6.05% |
| Na 330.237† | 755432.7 | 529.513 | mg/L | 2.1787 | 529.513 | mg/L | 2.1787 | 0.41% |
| Ni 231.604† | 338.9 | 0.0111361 | mg/L | 0.00025562 | 0.0111361 | mg/L | 0.00025562 | 2.30% |
| Pb 220.353† | 6.2 | 0.0046826 | mg/L | 0.00102876 | 0.0046826 | mg/L | 0.00102876 | 21.97% |
| Sb 206.836† | -62.9 | -0.0473418 | mg/L | 0.00082468 | -0.0473418 | mg/L | 0.00082468 | 1.74% |
| Se 196.026† | -21.7 | -0.0197857 | mg/L | 0.00763209 | -0.0197857 | mg/L | 0.00763209 | 38.57% |
| Sn 189.927† | -21.9 | -0.0053339 | mg/L | 0.00013694 | -0.0053339 | mg/L | 0.00013694 | 2.57% |
| Ti 334.940† | 526.4 | 0.0040458 | mg/L | 0.00008700 | 0.0040458 | mg/L | 0.00008700 | 2.15% |
| Tl 190.801† | -19.4 | -0.0171789 | mg/L | 0.00090619 | -0.0171789 | mg/L | 0.00090619 | 5.28% |
| V 290.880† | 106.6 | 0.0042556 | mg/L | 0.00075211 | 0.0042556 | mg/L | 0.00075211 | 17.67% |
| Zn 206.200† | 122.1 | 0.0054111 | mg/L | 0.00024283 | 0.0054111 | mg/L | 0.00024283 | 4.49% |
| Si 251.611† | 393214.2 | 8.64757 | mg/L | 0.060559 | 8.64757 | mg/L | 0.060559 | 0.70% |
| B 249.772† | 33228.9 | 0.331988 | mg/L | 0.0046050 | 0.331988 | mg/L | 0.0046050 | 1.39% |
| Ce 413.764 | -177.1 | -0.0233669 | mg/L | 0.00122559 | -0.0233669 | mg/L | 0.00122559 | 5.24% |

Sequence No.: 74
Sample ID: AD26083-022
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 79
Date Collected: 9/29/2021 3:09:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-022

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 773354.3 | 95.5 | % | 1.09 | | | | 1.14% |
| Y 371.029 | 812525.0 | 95.6 | % | 0.90 | | | | 0.94% |
| Ag 328.068† | -5.8 | 0.0004078 | mg/L | 0.00020699 | 0.0004078 | mg/L | 0.00020699 | 50.76% |
| Al 308.215† | 400.7 | 0.0231551 | mg/L | 0.00513053 | 0.0231551 | mg/L | 0.00513053 | 22.16% |
| As 188.979† | 15.1 | 0.0145045 | mg/L | 0.00157167 | 0.0145045 | mg/L | 0.00157167 | 10.84% |
| Ba 233.527† | 15640.8 | 0.163495 | mg/L | 0.0016789 | 0.163495 | mg/L | 0.0016789 | 1.03% |
| Be 313.107† | 1586.8 | 0.0041394 | mg/L | 0.00003716 | 0.0041394 | mg/L | 0.00003716 | 0.90% |
| Ca 315.887† | 4200580.0 | 30.7117 | mg/L | 0.06219 | 30.7117 | mg/L | 0.06219 | 0.20% |
| Cd 228.802† | 38.2 | 0.0041658 | mg/L | 0.00030073 | 0.0041658 | mg/L | 0.00030073 | 7.22% |
| Co 228.616† | 114.1 | 0.0046196 | mg/L | 0.00008820 | 0.0046196 | mg/L | 0.00008820 | 1.91% |
| Cr 267.716† | 126.4 | 0.0027542 | mg/L | 0.00035266 | 0.0027542 | mg/L | 0.00035266 | 12.80% |
| Cu 327.393† | 239.9 | 0.0035741 | mg/L | 0.00136350 | 0.0035741 | mg/L | 0.00136350 | 38.15% |
| Fe 273.955† | 6930.0 | 0.238845 | mg/L | 0.0026086 | 0.238845 | mg/L | 0.0026086 | 1.09% |
| K 404.721† | 192.3 | 0.910411 | mg/L | 0.3307026 | 0.910411 | mg/L | 0.3307026 | 36.32% |
| Mg 279.077† | 235703.2 | 9.35544 | mg/L | 0.128633 | 9.35544 | mg/L | 0.128633 | 1.37% |
| Mn 257.610† | 142350.2 | 0.172185 | mg/L | 0.0021566 | 0.172185 | mg/L | 0.0021566 | 1.25% |
| Mo 202.031† | 94.3 | 0.0091382 | mg/L | 0.00039125 | 0.0091382 | mg/L | 0.00039125 | 4.28% |
| Na 330.237† | 23155.9 | 17.2513 | mg/L | 0.16747 | 17.2513 | mg/L | 0.16747 | 0.97% |
| Ni 231.604† | 171.2 | 0.0060622 | mg/L | 0.00025507 | 0.0060622 | mg/L | 0.00025507 | 4.21% |
| Pb 220.353† | 49.7 | 0.0146509 | mg/L | 0.00113215 | 0.0146509 | mg/L | 0.00113215 | 7.73% |
| Sb 206.836† | -14.0 | -0.0070942 | mg/L | 0.00146723 | -0.0070942 | mg/L | 0.00146723 | 20.68% |
| Se 196.026† | -15.4 | -0.0136599 | mg/L | 0.00292677 | -0.0136599 | mg/L | 0.00292677 | 21.43% |
| Sn 189.927† | 5.1 | 0.0012166 | mg/L | 0.00069778 | 0.0012166 | mg/L | 0.00069778 | 57.35% |
| Ti 334.940† | 508.9 | 0.0040258 | mg/L | 0.00001367 | 0.0040258 | mg/L | 0.00001367 | 0.34% |
| Tl 190.801† | -17.4 | -0.0146350 | mg/L | 0.00388035 | -0.0146350 | mg/L | 0.00388035 | 26.51% |
| V 290.880† | 51.0 | 0.0039164 | mg/L | 0.00031280 | 0.0039164 | mg/L | 0.00031280 | 7.99% |
| Zn 206.200† | 2003.6 | 0.0424778 | mg/L | 0.00038075 | 0.0424778 | mg/L | 0.00038075 | 0.90% |
| Si 251.611† | 269150.2 | 5.88965 | mg/L | 0.075103 | 5.88965 | mg/L | 0.075103 | 1.28% |
| B 249.772† | 4737.8 | 0.0517209 | mg/L | 0.00069789 | 0.0517209 | mg/L | 0.00069789 | 1.35% |
| Ce 413.764 | -210.3 | -0.0240130 | mg/L | 0.00100194 | -0.0240130 | mg/L | 0.00100194 | 4.17% |

Sequence No.: 75
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 3:13:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 734054.5 | 90.6 | % | 0.48 | | | | 0.53% |
| Y 371.029 | 765145.0 | 90.0 | % | 0.43 | | | | 0.47% |
| Ag 328.068† | 17329.9 | 0.0980909 | mg/L | 0.00129932 | 0.0980909 | mg/L | 0.00129932 | 1.32% |
| QC value within limits for Ag 328.068 Recovery = 98.09% | | | | | | | | |
| Al 308.215† | 151303.1 | 4.90997 | mg/L | 0.036125 | 4.90997 | mg/L | 0.036125 | 0.74% |
| QC value within limits for Al 308.215 Recovery = 98.20% | | | | | | | | |
| As 188.979† | 680.7 | 0.503936 | mg/L | 0.0081113 | 0.503936 | mg/L | 0.0081113 | 1.61% |
| QC value within limits for As 188.979 Recovery = 100.79% | | | | | | | | |
| Ba 233.527† | 46595.6 | 0.483967 | mg/L | 0.0032617 | 0.483967 | mg/L | 0.0032617 | 0.67% |
| QC value within limits for Ba 233.527 Recovery = 96.79% | | | | | | | | |
| Be 313.107† | 1567452.1 | 0.479873 | mg/L | 0.0009086 | 0.479873 | mg/L | 0.0009086 | 0.19% |
| QC value within limits for Be 313.107 Recovery = 95.97% | | | | | | | | |
| Ca 315.887† | 6679225.5 | 48.6736 | mg/L | 0.08614 | 48.6736 | mg/L | 0.08614 | 0.18% |
| QC value within limits for Ca 315.887 Recovery = 97.35% | | | | | | | | |
| Cd 228.802† | 24540.5 | 0.506531 | mg/L | 0.0046854 | 0.506531 | mg/L | 0.0046854 | 0.92% |
| QC value within limits for Cd 228.802 Recovery = 101.31% | | | | | | | | |
| Co 228.616† | 15530.3 | 0.488115 | mg/L | 0.0047236 | 0.488115 | mg/L | 0.0047236 | 0.97% |
| QC value within limits for Co 228.616 Recovery = 97.62% | | | | | | | | |
| Cr 267.716† | 57560.1 | 0.490114 | mg/L | 0.0041788 | 0.490114 | mg/L | 0.0041788 | 0.85% |
| QC value within limits for Cr 267.716 Recovery = 98.02% | | | | | | | | |
| Cu 327.393† | 57434.7 | 0.492202 | mg/L | 0.0048846 | 0.492202 | mg/L | 0.0048846 | 0.99% |
| QC value within limits for Cu 327.393 Recovery = 98.44% | | | | | | | | |
| Fe 273.955† | 144476.0 | 4.81591 | mg/L | 0.036991 | 4.81591 | mg/L | 0.036991 | 0.77% |
| QC value within limits for Fe 273.955 Recovery = 96.32% | | | | | | | | |
| K 404.721† | 6549.3 | 47.3812 | mg/L | 0.34819 | 47.3812 | mg/L | 0.34819 | 0.73% |
| QC value within limits for K 404.721 Recovery = 94.76% | | | | | | | | |
| Mg 279.077† | 1221240.6 | 48.4655 | mg/L | 0.10892 | 48.4655 | mg/L | 0.10892 | 0.22% |
| QC value within limits for Mg 279.077 Recovery = 96.93% | | | | | | | | |
| Mn 257.610† | 402309.4 | 0.484229 | mg/L | 0.0037569 | 0.484229 | mg/L | 0.0037569 | 0.78% |
| QC value within limits for Mn 257.610 Recovery = 96.85% | | | | | | | | |
| Mo 202.031† | 6212.5 | 0.479977 | mg/L | 0.0050974 | 0.479977 | mg/L | 0.0050974 | 1.06% |
| QC value within limits for Mo 202.031 Recovery = 96.00% | | | | | | | | |
| Na 330.237† | 67250.8 | 48.0978 | mg/L | 0.35278 | 48.0978 | mg/L | 0.35278 | 0.73% |
| QC value within limits for Na 330.237 Recovery = 96.20% | | | | | | | | |
| Ni 231.604† | 16111.3 | 0.488509 | mg/L | 0.0042178 | 0.488509 | mg/L | 0.0042178 | 0.86% |
| QC value within limits for Ni 231.604 Recovery = 97.70% | | | | | | | | |
| Pb 220.353† | 2090.2 | 0.528821 | mg/L | 0.0054876 | 0.528821 | mg/L | 0.0054876 | 1.04% |
| QC value within limits for Pb 220.353 Recovery = 105.76% | | | | | | | | |
| Sb 206.836† | 566.6 | 0.476023 | mg/L | 0.0031646 | 0.476023 | mg/L | 0.0031646 | 0.66% |
| QC value within limits for Sb 206.836 Recovery = 95.20% | | | | | | | | |
| Se 196.026† | 466.7 | 0.455143 | mg/L | 0.0114518 | 0.455143 | mg/L | 0.0114518 | 2.52% |
| QC value within limits for Se 196.026 Recovery = 91.03% | | | | | | | | |
| Sn 189.927† | 2042.3 | 0.496512 | mg/L | 0.0046721 | 0.496512 | mg/L | 0.0046721 | 0.94% |
| QC value within limits for Sn 189.927 Recovery = 99.30% | | | | | | | | |
| Ti 334.940† | 420880.2 | 0.485191 | mg/L | 0.0035500 | 0.485191 | mg/L | 0.0035500 | 0.73% |
| QC value within limits for Ti 334.940 Recovery = 97.04% | | | | | | | | |
| Tl 190.801† | 431.7 | 0.500413 | mg/L | 0.0074861 | 0.500413 | mg/L | 0.0074861 | 1.50% |
| QC value within limits for Tl 190.801 Recovery = 100.08% | | | | | | | | |
| V 290.880† | 79278.6 | 0.487441 | mg/L | 0.0033029 | 0.487441 | mg/L | 0.0033029 | 0.68% |
| QC value within limits for V 290.880 Recovery = 97.49% | | | | | | | | |
| Zn 206.200† | 24188.6 | 0.479521 | mg/L | 0.0046850 | 0.479521 | mg/L | 0.0046850 | 0.98% |
| QC value within limits for Zn 206.200 Recovery = 95.90% | | | | | | | | |
| Si 251.611† | 218650.5 | 4.76918 | mg/L | 0.044478 | 4.76918 | mg/L | 0.044478 | 0.93% |
| QC value within limits for Si 251.611 Recovery = 95.38% | | | | | | | | |
| B 249.772† | 45229.9 | 0.434405 | mg/L | 0.0033457 | 0.434405 | mg/L | 0.0033457 | 0.77% |
| QC value less than the lower limit for B 249.772 Recovery = 86.88% | | | | | | | | |
| Ce 413.764 | 25311.4 | 0.473487 | mg/L | 0.0036495 | 0.473487 | mg/L | 0.0036495 | 0.77% |
| QC value within limits for Ce 413.764 Recovery = 94.70% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 76
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 3:17:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 774434.2 | 95.6 | % | 0.37 | | | | 0.39% |
| Y 371.029 | 827274.9 | 97.3 | % | 0.31 | | | | 0.32% |
| Ag 328.068† | -65.6 | 0.0000552 | mg/L | 0.00007295 | 0.0000552 | mg/L | 0.00007295 | 132.05% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 44.1 | 0.0116078 | mg/L | 0.00266165 | 0.0116078 | mg/L | 0.00266165 | 22.93% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 12.9 | 0.0128649 | mg/L | 0.00394753 | 0.0128649 | mg/L | 0.00394753 | 30.68% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -114.8 | 0.0003786 | mg/L | 0.00012373 | 0.0003786 | mg/L | 0.00012373 | 32.68% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1900.2 | 0.0042346 | mg/L | 0.00000724 | 0.0042346 | mg/L | 0.00000724 | 0.17% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 917.4 | 0.278211 | mg/L | 0.0010648 | 0.278211 | mg/L | 0.0010648 | 0.38% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 58.3 | 0.0044995 | mg/L | 0.00011757 | 0.0044995 | mg/L | 0.00011757 | 2.61% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 144.0 | 0.0050980 | mg/L | 0.00043992 | 0.0050980 | mg/L | 0.00043992 | 8.63% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 54.0 | 0.0021400 | mg/L | 0.00036090 | 0.0021400 | mg/L | 0.00036090 | 16.86% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 330.1 | 0.0040854 | mg/L | 0.00045366 | 0.0040854 | mg/L | 0.00045366 | 11.10% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -298.8 | -0.0017076 | mg/L | 0.00061294 | -0.0017076 | mg/L | 0.00061294 | 35.89% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 279.1 | 1.54501 | mg/L | 0.241734 | 1.54501 | mg/L | 0.241734 | 15.65% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 158.0 | 0.0080617 | mg/L | 0.00157038 | 0.0080617 | mg/L | 0.00157038 | 19.48% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -25.8 | 0.0012828 | mg/L | 0.00008451 | 0.0012828 | mg/L | 0.00008451 | 6.59% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 31.3 | 0.0042945 | mg/L | 0.00026307 | 0.0042945 | mg/L | 0.00026307 | 6.13% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 165.9 | 1.16874 | mg/L | 0.072115 | 1.16874 | mg/L | 0.072115 | 6.17% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 122.3 | 0.0045804 | mg/L | 0.00063002 | 0.0045804 | mg/L | 0.00063002 | 13.75% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 58.6 | 0.0165322 | mg/L | 0.00075948 | 0.0165322 | mg/L | 0.00075948 | 4.59% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -4.9 | 0.0003530 | mg/L | 0.00397511 | 0.0003530 | mg/L | 0.00397511 | >999.9% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -12.7 | -0.0110449 | mg/L | 0.00189241 | -0.0110449 | mg/L | 0.00189241 | 17.13% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -1.2 | -0.0003058 | mg/L | 0.00111299 | -0.0003058 | mg/L | 0.00111299 | 363.97% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 120.8 | 0.0035816 | mg/L | 0.00006704 | 0.0035816 | mg/L | 0.00006704 | 1.87% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -7.8 | -0.0057776 | mg/L | 0.00301086 | -0.0057776 | mg/L | 0.00301086 | 52.11% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 216.6 | 0.0049270 | mg/L | 0.00041301 | 0.0049270 | mg/L | 0.00041301 | 8.38% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -14.7 | 0.0027161 | mg/L | 0.00010966 | 0.0027161 | mg/L | 0.00010966 | 4.04% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 334.4 | -0.0858340 | mg/L | 0.00110369 | -0.0858340 | mg/L | 0.00110369 | 1.29% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -625.9 | -0.0003772 | mg/L | 0.00142166 | -0.0003772 | mg/L | 0.00142166 | 376.91% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -354.8 | -0.0268292 | mg/L | 0.00199447 | -0.0268292 | mg/L | 0.00199447 | 7.43% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 77
Sample ID: AD26083-024
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 80
Date Collected: 9/29/2021 3:21:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-024

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 758852.8 | 93.7 | % | 1.02 | | | | 1.09% |
| Y 371.029 | 796076.3 | 93.7 | % | 1.00 | | | | 1.07% |
| Ag 328.068† | 30.0 | 0.0006030 | mg/L | 0.00034035 | 0.0006030 | mg/L | 0.00034035 | 56.45% |
| Al 308.215† | 546.0 | 0.0278628 | mg/L | 0.00458593 | 0.0278628 | mg/L | 0.00458593 | 16.46% |
| As 188.979† | 14.2 | 0.0137935 | mg/L | 0.00112369 | 0.0137935 | mg/L | 0.00112369 | 8.15% |
| Ba 233.527† | 14731.8 | 0.154085 | mg/L | 0.0009233 | 0.154085 | mg/L | 0.0009233 | 0.60% |
| Be 313.107† | 1668.6 | 0.0041643 | mg/L | 0.00001517 | 0.0041643 | mg/L | 0.00001517 | 0.36% |
| Ca 315.887† | 3946513.2 | 28.8706 | mg/L | 0.12323 | 28.8706 | mg/L | 0.12323 | 0.43% |
| Cd 228.802† | 50.5 | 0.0043976 | mg/L | 0.00027191 | 0.0043976 | mg/L | 0.00027191 | 6.18% |
| Co 228.616† | 116.9 | 0.0046808 | mg/L | 0.00097131 | 0.0046808 | mg/L | 0.00097131 | 20.75% |
| Cr 267.716† | 10.3 | 0.0017690 | mg/L | 0.00032910 | 0.0017690 | mg/L | 0.00032910 | 18.60% |
| Cu 327.393† | 103.2 | 0.0023899 | mg/L | 0.00092733 | 0.0023899 | mg/L | 0.00092733 | 38.80% |
| Fe 273.955† | 4951.4 | 0.173003 | mg/L | 0.0015931 | 0.173003 | mg/L | 0.0015931 | 0.92% |
| K 404.721† | 259.7 | 1.40276 | mg/L | 0.303098 | 1.40276 | mg/L | 0.303098 | 21.61% |
| Mg 279.077† | 221808.7 | 8.80405 | mg/L | 0.063481 | 8.80405 | mg/L | 0.063481 | 0.72% |
| Mn 257.610† | 134169.2 | 0.162365 | mg/L | 0.0011050 | 0.162365 | mg/L | 0.0011050 | 0.68% |
| Mo 202.031† | 93.1 | 0.0090453 | mg/L | 0.00035401 | 0.0090453 | mg/L | 0.00035401 | 3.91% |
| Na 330.237† | 21715.6 | 16.2438 | mg/L | 0.06647 | 16.2438 | mg/L | 0.06647 | 0.41% |
| Ni 231.604† | 172.2 | 0.0060908 | mg/L | 0.00069866 | 0.0060908 | mg/L | 0.00069866 | 11.47% |
| Pb 220.353† | 52.8 | 0.0154024 | mg/L | 0.00183629 | 0.0154024 | mg/L | 0.00183629 | 11.92% |
| Sb 206.836† | -14.2 | -0.0072568 | mg/L | 0.00361050 | -0.0072568 | mg/L | 0.00361050 | 49.75% |
| Se 196.026† | -10.7 | -0.0090798 | mg/L | 0.00995791 | -0.0090798 | mg/L | 0.00995791 | 109.67% |
| Sn 189.927† | 14.7 | 0.0035447 | mg/L | 0.00103521 | 0.0035447 | mg/L | 0.00103521 | 29.20% |
| Ti 334.940† | 429.3 | 0.0039347 | mg/L | 0.00007158 | 0.0039347 | mg/L | 0.00007158 | 1.82% |
| Tl 190.801† | -16.0 | -0.0132047 | mg/L | 0.00238968 | -0.0132047 | mg/L | 0.00238968 | 18.10% |
| V 290.880† | 115.1 | 0.0043079 | mg/L | 0.00079709 | 0.0043079 | mg/L | 0.00079709 | 18.50% |
| Zn 206.200† | 808.1 | 0.0189261 | mg/L | 0.00011306 | 0.0189261 | mg/L | 0.00011306 | 0.60% |
| Si 251.611† | 252927.3 | 5.52901 | mg/L | 0.044804 | 5.52901 | mg/L | 0.044804 | 0.81% |
| B 249.772† | 4135.4 | 0.0460191 | mg/L | 0.00030205 | 0.0460191 | mg/L | 0.00030205 | 0.66% |
| Ce 413.764 | -269.5 | -0.0251677 | mg/L | 0.00105402 | -0.0251677 | mg/L | 0.00105402 | 4.19% |

Sequence No.: 78
Sample ID: AD26083-029
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 81
Date Collected: 9/29/2021 3:25:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-029

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 697749.8 | 86.1 | % | 0.55 | | | | 0.63% |
| Y 371.029 | 722812.6 | 85.0 | % | 0.53 | | | | 0.62% |
| Ag 328.068† | -101.0 | -0.0001167 | mg/L | 0.00018993 | -0.0001167 | mg/L | 0.00018993 | 162.80% |
| Al 308.215† | 5529.9 | 0.189259 | mg/L | 0.0015564 | 0.189259 | mg/L | 0.0015564 | 0.82% |
| As 188.979† | 12.5 | 0.0125405 | mg/L | 0.00544334 | 0.0125405 | mg/L | 0.00544334 | 43.41% |
| Ba 233.527† | 128559.9 | 1.33254 | mg/L | 0.006593 | 1.33254 | mg/L | 0.006593 | 0.49% |
| Be 313.107† | 1518.7 | 0.0041187 | mg/L | 0.00001130 | 0.0041187 | mg/L | 0.00001130 | 0.27% |
| Ca 315.887† | 27464222.0 | 199.295 | mg/L | 2.3439 | 199.295 | mg/L | 2.3439 | 1.18% |
| Cd 228.802† | 43.4 | 0.0043528 | mg/L | 0.00027952 | 0.0043528 | mg/L | 0.00027952 | 6.42% |
| Co 228.616† | 47.9 | 0.0058390 | mg/L | 0.00049316 | 0.0058390 | mg/L | 0.00049316 | 8.45% |
| Cr 267.716† | -105.9 | 0.0007833 | mg/L | 0.00019154 | 0.0007833 | mg/L | 0.00019154 | 24.45% |
| Cu 327.393† | -1424.1 | -0.0091806 | mg/L | 0.00069064 | -0.0091806 | mg/L | 0.00069064 | 7.52% |
| Fe 273.955† | 12142.7 | 0.412306 | mg/L | 0.0030777 | 0.412306 | mg/L | 0.0030777 | 0.75% |
| K 404.721† | 1397.2 | 9.71876 | mg/L | 0.396912 | 9.71876 | mg/L | 0.396912 | 4.08% |
| Mg 279.077† | 1474321.6 | 58.5088 | mg/L | 0.33810 | 58.5088 | mg/L | 0.33810 | 0.58% |
| Mn 257.610† | 548504.1 | 0.659715 | mg/L | 0.0029362 | 0.659715 | mg/L | 0.0029362 | 0.45% |
| Mo 202.031† | 147.2 | 0.0132200 | mg/L | 0.00016297 | 0.0132200 | mg/L | 0.00016297 | 1.23% |
| Na 330.237† | 272659.2 | 191.791 | mg/L | 0.8187 | 191.791 | mg/L | 0.8187 | 0.43% |
| Ni 231.604† | 305.7 | 0.0101332 | mg/L | 0.00086419 | 0.0101332 | mg/L | 0.00086419 | 8.53% |
| Pb 220.353† | 25.9 | 0.0104534 | mg/L | 0.00175915 | 0.0104534 | mg/L | 0.00175915 | 16.83% |
| Sb 206.836† | -41.9 | -0.0300237 | mg/L | 0.00392550 | -0.0300237 | mg/L | 0.00392550 | 13.07% |
| Se 196.026† | -31.7 | -0.0295144 | mg/L | 0.00513941 | -0.0295144 | mg/L | 0.00513941 | 17.41% |
| Sn 189.927† | -21.1 | -0.0051594 | mg/L | 0.00096045 | -0.0051594 | mg/L | 0.00096045 | 18.62% |
| Ti 334.940† | 8337.7 | 0.0129868 | mg/L | 0.00004424 | 0.0129868 | mg/L | 0.00004424 | 0.34% |
| Tl 190.801† | -30.8 | -0.0184456 | mg/L | 0.00285233 | -0.0184456 | mg/L | 0.00285233 | 15.46% |
| V 290.880† | -466.5 | 0.0007582 | mg/L | 0.00053536 | 0.0007582 | mg/L | 0.00053536 | 70.61% |
| Zn 206.200† | 908.9 | 0.0209113 | mg/L | 0.00023504 | 0.0209113 | mg/L | 0.00023504 | 1.12% |
| Si 251.611† | 254046.6 | 5.55400 | mg/L | 0.023801 | 5.55400 | mg/L | 0.023801 | 0.43% |
| B 249.772† | 20832.8 | 0.210164 | mg/L | 0.0007437 | 0.210164 | mg/L | 0.0007437 | 0.35% |
| Ce 413.764 | -407.5 | -0.0278565 | mg/L | 0.00120293 | -0.0278565 | mg/L | 0.00120293 | 4.32% |

Sequence No.: 79
Sample ID: AD26083-031
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 82
Date Collected: 9/29/2021 3:29:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-031

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 731876.6 | 90.3 | % | 0.34 | | | | 0.38% |
| Y 371.029 | 765879.3 | 90.1 | % | 0.46 | | | | 0.51% |
| Ag 328.068† | 0.9 | 0.0004288 | mg/L | 0.00028715 | 0.0004288 | mg/L | 0.00028715 | 66.97% |
| Al 308.215† | 716.3 | 0.0333754 | mg/L | 0.00071800 | 0.0333754 | mg/L | 0.00071800 | 2.15% |
| As 188.979† | 19.0 | 0.0173695 | mg/L | 0.00256057 | 0.0173695 | mg/L | 0.00256057 | 14.74% |
| Ba 233.527† | 8255.0 | 0.0870309 | mg/L | 0.00031275 | 0.0870309 | mg/L | 0.00031275 | 0.36% |
| Be 313.107† | 2045.9 | 0.0042789 | mg/L | 0.00001742 | 0.0042789 | mg/L | 0.00001742 | 0.41% |
| Ca 315.887† | 686162.4 | 5.24395 | mg/L | 0.003385 | 5.24395 | mg/L | 0.003385 | 0.06% |
| Cd 228.802† | 52.6 | 0.0044135 | mg/L | 0.00007518 | 0.0044135 | mg/L | 0.00007518 | 1.70% |
| Co 228.616† | 125.3 | 0.0047567 | mg/L | 0.00038847 | 0.0047567 | mg/L | 0.00038847 | 8.17% |
| Cr 267.716† | -35.2 | 0.0013832 | mg/L | 0.00035174 | 0.0013832 | mg/L | 0.00035174 | 25.43% |
| Cu 327.393† | 6.3 | 0.0013214 | mg/L | 0.00015559 | 0.0013214 | mg/L | 0.00015559 | 11.77% |
| Fe 273.955† | 479.2 | 0.0241830 | mg/L | 0.00196861 | 0.0241830 | mg/L | 0.00196861 | 8.14% |
| K 404.721† | 1231.7 | 8.50843 | mg/L | 0.826529 | 8.50843 | mg/L | 0.826529 | 9.71% |
| Mg 279.077† | 123191.7 | 4.89053 | mg/L | 0.005879 | 4.89053 | mg/L | 0.005879 | 0.12% |
| Mn 257.610† | 27224.4 | 0.0339928 | mg/L | 0.00004629 | 0.0339928 | mg/L | 0.00004629 | 0.14% |
| Mo 202.031† | 63.0 | 0.0067266 | mg/L | 0.00061457 | 0.0067266 | mg/L | 0.00061457 | 9.14% |
| Na 330.237† | 97989.9 | 69.6012 | mg/L | 0.26040 | 69.6012 | mg/L | 0.26040 | 0.37% |
| Ni 231.604† | 199.8 | 0.0069262 | mg/L | 0.00036558 | 0.0069262 | mg/L | 0.00036558 | 5.28% |
| Pb 220.353† | 40.8 | 0.0122737 | mg/L | 0.00064774 | 0.0122737 | mg/L | 0.00064774 | 5.28% |
| Sb 206.836† | -21.7 | -0.0134882 | mg/L | 0.00297783 | -0.0134882 | mg/L | 0.00297783 | 22.08% |
| Se 196.026† | -12.0 | -0.0103986 | mg/L | 0.00269098 | -0.0103986 | mg/L | 0.00269098 | 25.88% |
| Sn 189.927† | -7.2 | -0.0017599 | mg/L | 0.00035741 | -0.0017599 | mg/L | 0.00035741 | 20.31% |
| Ti 334.940† | 242.6 | 0.0037210 | mg/L | 0.00004444 | 0.0037210 | mg/L | 0.00004444 | 1.19% |
| Tl 190.801† | -12.8 | -0.0111091 | mg/L | 0.00200670 | -0.0111091 | mg/L | 0.00200670 | 18.06% |
| V 290.880† | 342.1 | 0.0056933 | mg/L | 0.00029041 | 0.0056933 | mg/L | 0.00029041 | 5.10% |
| Zn 206.200† | 229.4 | 0.0075264 | mg/L | 0.00012997 | 0.0075264 | mg/L | 0.00012997 | 1.73% |
| Si 251.611† | 203052.1 | 4.42029 | mg/L | 0.014073 | 4.42029 | mg/L | 0.014073 | 0.32% |
| B 249.772† | 8176.8 | 0.0865444 | mg/L | 0.00038143 | 0.0865444 | mg/L | 0.00038143 | 0.44% |
| Ce 413.764 | -363.6 | -0.0270017 | mg/L | 0.00169960 | -0.0270017 | mg/L | 0.00169960 | 6.29% |

Sequence No.: 80
Sample ID: AD26083-037
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 83
Date Collected: 9/29/2021 3:33:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-037

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 609035.0 | 75.2 | % | 0.77 | | | | 1.03% |
| Y 371.029 | 623478.3 | 73.3 | % | 0.79 | | | | 1.08% |
| Ag 328.068† | -203.1 | -0.0005689 | mg/L | 0.00011859 | -0.0005689 | mg/L | 0.00011859 | 20.85% |
| Al 308.215† | 2439.6 | 0.0891837 | mg/L | 0.00407856 | 0.0891837 | mg/L | 0.00407856 | 4.57% |
| As 188.979† | 29.8 | 0.0253200 | mg/L | 0.00100905 | 0.0253200 | mg/L | 0.00100905 | 3.99% |
| Ba 233.527† | 3664.8 | 0.0395088 | mg/L | 0.00071968 | 0.0395088 | mg/L | 0.00071968 | 1.82% |
| Be 313.107† | 82.7 | 0.0036825 | mg/L | 0.00004072 | 0.0036825 | mg/L | 0.00004072 | 1.11% |
| Ca 315.887† | 108219329 | 784.500 | mg/L | 4.1119 | 784.500 | mg/L | 4.1119 | 0.52% |
| Cd 228.802† | 51.0 | 0.0050710 | mg/L | 0.00029729 | 0.0050710 | mg/L | 0.00029729 | 5.86% |
| Co 228.616† | 350.6 | 0.0116748 | mg/L | 0.00033405 | 0.0116748 | mg/L | 0.00033405 | 2.86% |
| Cr 267.716† | -383.7 | -0.0015737 | mg/L | 0.00008428 | -0.0015737 | mg/L | 0.00008428 | 5.36% |
| Cu 327.393† | -5934.5 | -0.0431521 | mg/L | 0.00063272 | -0.0431521 | mg/L | 0.00063272 | 1.47% |
| Fe 273.955† | 67946.9 | 2.26928 | mg/L | 0.009354 | 2.26928 | mg/L | 0.009354 | 0.41% |
| K 404.721† | 5606.2 | 40.4876 | mg/L | 0.47977 | 40.4876 | mg/L | 0.47977 | 1.18% |
| Mg 279.077† | 6892779.5 | 273.535 | mg/L | 3.0919 | 273.535 | mg/L | 3.0919 | 1.13% |
| Mn 257.610† | 4242021.3 | 5.09326 | mg/L | 0.045758 | 5.09326 | mg/L | 0.045758 | 0.90% |
| Mo 202.031† | 214.4 | 0.0183727 | mg/L | 0.00075962 | 0.0183727 | mg/L | 0.00075962 | 4.13% |
| Na 330.237† | 3565433.0 | 2495.24 | mg/L | 14.974 | 2495.24 | mg/L | 14.974 | 0.60% |
| Ni 231.604† | 684.1 | 0.0215855 | mg/L | 0.00030731 | 0.0215855 | mg/L | 0.00030731 | 1.42% |
| Pb 220.353† | -18.2 | 0.0067748 | mg/L | 0.00177013 | 0.0067748 | mg/L | 0.00177013 | 26.13% |
| Sb 206.836† | -105.9 | -0.0826711 | mg/L | 0.00523652 | -0.0826711 | mg/L | 0.00523652 | 6.33% |
| Se 196.026† | -49.4 | -0.0466775 | mg/L | 0.00772709 | -0.0466775 | mg/L | 0.00772709 | 16.55% |
| Sn 189.927† | -38.6 | -0.0094053 | mg/L | 0.00136800 | -0.0094053 | mg/L | 0.00136800 | 14.55% |
| Ti 334.940† | 6411.6 | 0.0107822 | mg/L | 0.00010724 | 0.0107822 | mg/L | 0.00010724 | 0.99% |
| Tl 190.801† | -37.6 | 0.0137134 | mg/L | 0.00397614 | 0.0137134 | mg/L | 0.00397614 | 28.99% |
| V 290.880† | -1750.0 | -0.0070748 | mg/L | 0.00086192 | -0.0070748 | mg/L | 0.00086192 | 12.18% |
| Zn 206.200† | 419.3 | 0.0112665 | mg/L | 0.00021414 | 0.0112665 | mg/L | 0.00021414 | 1.90% |
| Si 251.611† | 321222.8 | 7.04806 | mg/L | 0.030645 | 7.04806 | mg/L | 0.030645 | 0.43% |
| B 249.772† | 40086.8 | 0.393359 | mg/L | 0.0063145 | 0.393359 | mg/L | 0.0063145 | 1.61% |
| Ce 413.764 | -633.8 | -0.0322679 | mg/L | 0.00077067 | -0.0322679 | mg/L | 0.00077067 | 2.39% |

Sequence No.: 81
Sample ID: AD26083-047
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 84
Date Collected: 9/29/2021 3:39:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-047

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 752659.8 | 92.9 | % | 0.35 | | | | 0.38% |
| Y 371.029 | 789099.3 | 92.8 | % | 0.32 | | | | 0.35% |
| Ag 328.068† | -38.5 | 0.0002071 | mg/L | 0.00029921 | 0.0002071 | mg/L | 0.00029921 | 144.47% |
| Al 308.215† | 1058.2 | 0.0444494 | mg/L | 0.00049563 | 0.0444494 | mg/L | 0.00049563 | 1.12% |
| As 188.979† | 18.1 | 0.0166848 | mg/L | 0.00343269 | 0.0166848 | mg/L | 0.00343269 | 20.57% |
| Ba 233.527† | 3050.6 | 0.0331495 | mg/L | 0.00034484 | 0.0331495 | mg/L | 0.00034484 | 1.04% |
| Be 313.107† | 1965.0 | 0.0042543 | mg/L | 0.00001089 | 0.0042543 | mg/L | 0.00001089 | 0.26% |
| Ca 315.887† | 1222398.1 | 9.12986 | mg/L | 0.040671 | 9.12986 | mg/L | 0.040671 | 0.45% |
| Cd 228.802† | 54.9 | 0.0044554 | mg/L | 0.00019437 | 0.0044554 | mg/L | 0.00019437 | 4.36% |
| Co 228.616† | 142.8 | 0.0051500 | mg/L | 0.00026048 | 0.0051500 | mg/L | 0.00026048 | 5.06% |
| Cr 267.716† | -56.1 | 0.0012060 | mg/L | 0.00028816 | 0.0012060 | mg/L | 0.00028816 | 23.89% |
| Cu 327.393† | 215.5 | 0.0031951 | mg/L | 0.00067321 | 0.0031951 | mg/L | 0.00067321 | 21.07% |
| Fe 273.955† | 342.2 | 0.0196256 | mg/L | 0.00099585 | 0.0196256 | mg/L | 0.00099585 | 5.07% |
| K 404.721† | 2733.8 | 19.4890 | mg/L | 0.70283 | 19.4890 | mg/L | 0.70283 | 3.61% |
| Mg 279.077† | 39647.0 | 1.57514 | mg/L | 0.012373 | 1.57514 | mg/L | 0.012373 | 0.79% |
| Mn 257.610† | 9325.6 | 0.0125079 | mg/L | 0.00017440 | 0.0125079 | mg/L | 0.00017440 | 1.39% |
| Mo 202.031† | 79.6 | 0.0080088 | mg/L | 0.00034915 | 0.0080088 | mg/L | 0.00034915 | 4.36% |
| Na 330.237† | 34972.6 | 25.5177 | mg/L | 0.13499 | 25.5177 | mg/L | 0.13499 | 0.53% |
| Ni 231.604† | 193.9 | 0.0067474 | mg/L | 0.00025652 | 0.0067474 | mg/L | 0.00025652 | 3.80% |
| Pb 220.353† | 47.2 | 0.0137678 | mg/L | 0.00099875 | 0.0137678 | mg/L | 0.00099875 | 7.25% |
| Sb 206.836† | -19.0 | -0.0112284 | mg/L | 0.00297698 | -0.0112284 | mg/L | 0.00297698 | 26.51% |
| Se 196.026† | -14.9 | -0.0131891 | mg/L | 0.00346214 | -0.0131891 | mg/L | 0.00346214 | 26.25% |
| Sn 189.927† | 5.7 | 0.0013694 | mg/L | 0.00131848 | 0.0013694 | mg/L | 0.00131848 | 96.28% |
| Ti 334.940† | 316.7 | 0.0038059 | mg/L | 0.00007441 | 0.0038059 | mg/L | 0.00007441 | 1.96% |
| Tl 190.801† | -12.9 | -0.0110287 | mg/L | 0.00035910 | -0.0110287 | mg/L | 0.00035910 | 3.26% |
| V 290.880† | 388.6 | 0.0059769 | mg/L | 0.00025234 | 0.0059769 | mg/L | 0.00025234 | 4.22% |
| Zn 206.200† | 795.6 | 0.0186805 | mg/L | 0.00019810 | 0.0186805 | mg/L | 0.00019810 | 1.06% |
| Si 251.611† | 125526.0 | 2.69700 | mg/L | 0.002630 | 2.69700 | mg/L | 0.002630 | 0.10% |
| B 249.772† | 1039.6 | 0.0160049 | mg/L | 0.00058353 | 0.0160049 | mg/L | 0.00058353 | 3.65% |
| Ce 413.764 | -422.0 | -0.0281402 | mg/L | 0.00044682 | -0.0281402 | mg/L | 0.00044682 | 1.59% |

Sequence No.: 82
Sample ID: AD26083-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 85
Date Collected: 9/29/2021 3:43:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-003

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Calib Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | Sample RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 734574.6 | 90.7 | % | 0.58 | | | | 0.64% |
| Y 371.029 | 770866.2 | 90.7 | % | 0.55 | | | | 0.61% |
| Ag 328.068† | -97.0 | -0.0000453 | mg/L | 0.00014398 | -0.0000453 | mg/L | 0.00014398 | 317.52% |
| Al 308.215† | 15093.6 | 0.498969 | mg/L | 0.0137234 | 0.498969 | mg/L | 0.0137234 | 2.75% |
| As 188.979† | 15.2 | 0.0145022 | mg/L | 0.00146615 | 0.0145022 | mg/L | 0.00146615 | 10.11% |
| Ba 233.527† | 29391.3 | 0.305852 | mg/L | 0.0026450 | 0.305852 | mg/L | 0.0026450 | 0.86% |
| Be 313.107† | 1822.5 | 0.0042110 | mg/L | 0.00002990 | 0.0042110 | mg/L | 0.00002990 | 0.71% |
| Ca 315.887† | 9587763.3 | 69.7508 | mg/L | 0.10734 | 69.7508 | mg/L | 0.10734 | 0.15% |
| Cd 228.802† | 28.1 | 0.0042759 | mg/L | 0.00022159 | 0.0042759 | mg/L | 0.00022159 | 5.18% |
| Co 228.616† | 146.6 | 0.0059926 | mg/L | 0.00026512 | 0.0059926 | mg/L | 0.00026512 | 4.42% |
| Cr 267.716† | 166.7 | 0.0030967 | mg/L | 0.00027586 | 0.0030967 | mg/L | 0.00027586 | 8.91% |
| Cu 327.393† | 17.4 | 0.0019237 | mg/L | 0.00074306 | 0.0019237 | mg/L | 0.00074306 | 38.63% |
| Fe 273.955† | 34236.0 | 1.14750 | mg/L | 0.023881 | 1.14750 | mg/L | 0.023881 | 2.08% |
| K 404.721† | 375.9 | 2.25269 | mg/L | 0.135171 | 2.25269 | mg/L | 0.135171 | 6.00% |
| Mg 279.077† | 714089.7 | 28.3397 | mg/L | 0.66268 | 28.3397 | mg/L | 0.66268 | 2.34% |
| Mn 257.610† | 103358.0 | 0.125380 | mg/L | 0.0025386 | 0.125380 | mg/L | 0.0025386 | 2.02% |
| Mo 202.031† | 88.9 | 0.0087567 | mg/L | 0.00050489 | 0.0087567 | mg/L | 0.00050489 | 5.77% |
| Na 330.237† | 22862.6 | 17.0462 | mg/L | 0.32813 | 17.0462 | mg/L | 0.32813 | 1.92% |
| Ni 231.604† | 487.3 | 0.0156296 | mg/L | 0.00045306 | 0.0156296 | mg/L | 0.00045306 | 2.90% |
| Pb 220.353† | 45.5 | 0.0144677 | mg/L | 0.00150566 | 0.0144677 | mg/L | 0.00150566 | 10.41% |
| Sb 206.836† | -28.9 | -0.0192067 | mg/L | 0.00147003 | -0.0192067 | mg/L | 0.00147003 | 7.65% |
| Se 196.026† | -22.9 | -0.0209751 | mg/L | 0.00919634 | -0.0209751 | mg/L | 0.00919634 | 43.84% |
| Sn 189.927† | -19.7 | -0.0048099 | mg/L | 0.00131699 | -0.0048099 | mg/L | 0.00131699 | 27.38% |
| Ti 334.940† | 18468.9 | 0.0245832 | mg/L | 0.00058348 | 0.0245832 | mg/L | 0.00058348 | 2.37% |
| Tl 190.801† | -21.4 | -0.0165236 | mg/L | 0.00279413 | -0.0165236 | mg/L | 0.00279413 | 16.91% |
| V 290.880† | 341.6 | 0.0056898 | mg/L | 0.00062040 | 0.0056898 | mg/L | 0.00062040 | 10.90% |
| Zn 206.200† | 1177.6 | 0.0262058 | mg/L | 0.00039883 | 0.0262058 | mg/L | 0.00039883 | 1.52% |
| Si 251.611† | 588303.5 | 12.9844 | mg/L | 0.26468 | 12.9844 | mg/L | 0.26468 | 2.04% |
| B 249.772† | 1137.8 | 0.0126369 | mg/L | 0.00039161 | 0.0126369 | mg/L | 0.00039161 | 3.10% |
| Ce 413.764 | -363.0 | -0.0269907 | mg/L | 0.00104411 | -0.0269907 | mg/L | 0.00104411 | 3.87% |

Sequence No.: 83
Sample ID: AD26083-032 5D
Analyst:
Initial Sample Wt:
Dilution: 10D

Autosampler Location: 86
Date Collected: 9/29/2021 3:47:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-032 5D

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 705411.8 | 87.1 | % | 0.54 | | | | 0.62% |
| Y 371.029 | 729364.1 | 85.8 | % | 0.47 | | | | 0.55% |
| Ag 328.068† | 16.4 | 0.0006752 | mg/L | 0.00030946 | 0.0006752 | mg/L | 0.00030946 | 45.83% |
| Al 308.215† | 1455.9 | 0.0573271 | mg/L | 0.00481690 | 0.0573271 | mg/L | 0.00481690 | 8.40% |
| As 188.979† | 17.2 | 0.0160277 | mg/L | 0.00093463 | 0.0160277 | mg/L | 0.00093463 | 5.83% |
| Ba 233.527† | 475.8 | 0.0064934 | mg/L | 0.00004810 | 0.0064934 | mg/L | 0.00004810 | 0.74% |
| Be 313.107† | 1975.0 | 0.0042574 | mg/L | 0.00002523 | 0.0042574 | mg/L | 0.00002523 | 0.59% |
| Ca 315.887† | 7914008.0 | 57.6217 | mg/L | 0.16002 | 57.6217 | mg/L | 0.16002 | 0.28% |
| Cd 228.802† | 40.2 | 0.0047990 | mg/L | 0.00007576 | 0.0047990 | mg/L | 0.00007576 | 1.58% |
| Co 228.616† | 184.7 | 0.0063910 | mg/L | 0.00027250 | 0.0063910 | mg/L | 0.00027250 | 4.26% |
| Cr 267.716† | -253.2 | -0.0004670 | mg/L | 0.00015001 | -0.0004670 | mg/L | 0.00015001 | 32.12% |
| Cu 327.393† | -769.5 | -0.0052989 | mg/L | 0.00030921 | -0.0052989 | mg/L | 0.00030921 | 5.84% |
| Fe 273.955† | 73822.2 | 2.46479 | mg/L | 0.039899 | 2.46479 | mg/L | 0.039899 | 1.62% |
| K 404.721† | 1356.4 | 9.41980 | mg/L | 1.253376 | 9.41980 | mg/L | 1.253376 | 13.31% |
| Mg 279.077† | 1473135.4 | 58.4617 | mg/L | 0.19743 | 58.4617 | mg/L | 0.19743 | 0.34% |
| Mn 257.610† | 233196.0 | 0.281233 | mg/L | 0.0045635 | 0.281233 | mg/L | 0.0045635 | 1.62% |
| Mo 202.031† | 106.8 | 0.0101022 | mg/L | 0.00024338 | 0.0101022 | mg/L | 0.00024338 | 2.41% |
| Na 330.237† | 792155.1 | 555.202 | mg/L | 7.7343 | 555.202 | mg/L | 7.7343 | 1.39% |
| Ni 231.604† | 336.5 | 0.0110633 | mg/L | 0.00062307 | 0.0110633 | mg/L | 0.00062307 | 5.63% |
| Pb 220.353† | 25.2 | 0.0102169 | mg/L | 0.00137288 | 0.0102169 | mg/L | 0.00137288 | 13.44% |
| Sb 206.836† | -57.4 | -0.0428417 | mg/L | 0.00245381 | -0.0428417 | mg/L | 0.00245381 | 5.73% |
| Se 196.026† | -27.3 | -0.0251090 | mg/L | 0.00403671 | -0.0251090 | mg/L | 0.00403671 | 16.08% |
| Sn 189.927† | -24.4 | -0.0059495 | mg/L | 0.00113815 | -0.0059495 | mg/L | 0.00113815 | 19.13% |
| Ti 334.940† | 491.9 | 0.0040063 | mg/L | 0.00004646 | 0.0040063 | mg/L | 0.00004646 | 1.16% |
| Tl 190.801† | -24.8 | -0.0212867 | mg/L | 0.00424512 | -0.0212867 | mg/L | 0.00424512 | 19.94% |
| V 290.880† | -463.2 | 0.0007783 | mg/L | 0.00071237 | 0.0007783 | mg/L | 0.00071237 | 91.53% |
| Zn 206.200† | 15.9 | 0.0033201 | mg/L | 0.00010502 | 0.0033201 | mg/L | 0.00010502 | 3.16% |
| Si 251.611† | 56933.3 | 1.17339 | mg/L | 0.018736 | 1.17339 | mg/L | 0.018736 | 1.60% |
| B 249.772† | 13044.6 | 0.125276 | mg/L | 0.0012607 | 0.125276 | mg/L | 0.0012607 | 1.01% |
| Ce 413.764 | -432.1 | -0.0283365 | mg/L | 0.00066577 | -0.0283365 | mg/L | 0.00066577 | 2.35% |

Sequence No.: 84
Sample ID: AD26083-036 5R
Analyst:
Initial Sample Wt: 10D cfr
Dilution:

Autosampler Location: 87
Date Collected: 9/29/2021 3:51:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-036 5D

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 701551.5 | 86.6 | % | 0.87 | | | | 1.00% |
| Y 371.029 | 727774.8 | 85.6 | % | 0.77 | | | | 0.90% |
| Ag 328.068† | -8.8 | 0.0004026 | mg/L | 0.00021037 | 0.0004026 | mg/L | 0.00021037 | 52.25% |
| Al 308.215† | 3421.0 | 0.120964 | mg/L | 0.0043189 | 0.120964 | mg/L | 0.0043189 | 3.57% |
| As 188.979† | 17.5 | 0.0162255 | mg/L | 0.00036063 | 0.0162255 | mg/L | 0.00036063 | 2.22% |
| Ba 233.527† | 247.0 | 0.0041240 | mg/L | 0.00005580 | 0.0041240 | mg/L | 0.00005580 | 1.35% |
| Be 313.107† | 2095.5 | 0.0042940 | mg/L | 0.00003031 | 0.0042940 | mg/L | 0.00003031 | 0.71% |
| Ca 315.887† | 14374283.0 | 104.437 | mg/L | 0.5114 | 104.437 | mg/L | 0.5114 | 0.49% |
| Cd 228.802† | 63.2 | 0.0047756 | mg/L | 0.00010870 | 0.0047756 | mg/L | 0.00010870 | 2.28% |
| Co 228.616† | 200.9 | 0.0068818 | mg/L | 0.00031525 | 0.0068818 | mg/L | 0.00031525 | 4.58% |
| Cr 267.716† | -140.2 | 0.0004919 | mg/L | 0.00054021 | 0.0004919 | mg/L | 0.00054021 | 109.83% |
| Cu 327.393† | -906.3 | -0.0056295 | mg/L | 0.00069040 | -0.0056295 | mg/L | 0.00069040 | 12.26% |
| Fe 273.955† | 14127.6 | 0.478356 | mg/L | 0.0087964 | 0.478356 | mg/L | 0.0087964 | 1.84% |
| K 404.721† | 1093.3 | 7.49716 | mg/L | 0.522125 | 7.49716 | mg/L | 0.522125 | 6.96% |
| Mg 279.077† | 882523.2 | 35.0239 | mg/L | 0.28198 | 35.0239 | mg/L | 0.28198 | 0.81% |
| Mn 257.610† | 531797.2 | 0.639661 | mg/L | 0.0042294 | 0.639661 | mg/L | 0.0042294 | 0.66% |
| Mo 202.031† | 121.2 | 0.0112116 | mg/L | 0.00060781 | 0.0112116 | mg/L | 0.00060781 | 5.42% |
| Na 330.237† | 409003.9 | 287.170 | mg/L | 1.7234 | 287.170 | mg/L | 1.7234 | 0.60% |
| Ni 231.604† | 329.4 | 0.0108494 | mg/L | 0.00051021 | 0.0108494 | mg/L | 0.00051021 | 4.70% |
| Pb 220.353† | 33.9 | 0.0116183 | mg/L | 0.00097973 | 0.0116183 | mg/L | 0.00097973 | 8.43% |
| Sb 206.836† | -45.9 | -0.0333525 | mg/L | 0.00369589 | -0.0333525 | mg/L | 0.00369589 | 11.08% |
| Se 196.026† | -25.0 | -0.0229972 | mg/L | 0.00494778 | -0.0229972 | mg/L | 0.00494778 | 21.51% |
| Sn 189.927† | -22.5 | -0.0054895 | mg/L | 0.00244696 | -0.0054895 | mg/L | 0.00244696 | 44.57% |
| Ti 334.940† | 4180.8 | 0.0082287 | mg/L | 0.00092387 | 0.0082287 | mg/L | 0.00092387 | 11.23% |
| Tl 190.801† | -23.2 | -0.0162223 | mg/L | 0.00289117 | -0.0162223 | mg/L | 0.00289117 | 17.82% |
| V 290.880† | -28.6 | 0.0034307 | mg/L | 0.00029134 | 0.0034307 | mg/L | 0.00029134 | 8.49% |
| Zn 206.200† | 26.4 | 0.0035260 | mg/L | 0.00003225 | 0.0035260 | mg/L | 0.00003225 | 0.91% |
| Si 251.611† | 44763.7 | 0.901980 | mg/L | 0.0065148 | 0.901980 | mg/L | 0.0065148 | 0.72% |
| B 249.772† | 3481.8 | 0.0383833 | mg/L | 0.00078560 | 0.0383833 | mg/L | 0.00078560 | 2.05% |
| Ce 413.764 | -469.7 | -0.0290690 | mg/L | 0.00083964 | -0.0290690 | mg/L | 0.00083964 | 2.89% |

Sequence No.: 85
Sample ID: AD26083-037 SD
Analyst:
Initial Sample Wt:
Dilution: 100 CM

Autosampler Location: 88
Date Collected: 9/29/2021 3:55:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-037 SD

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 712531.3 | 88.0 | % | 0.76 | | | | 0.87% |
| Y 371.029 | 736718.2 | 86.7 | % | 1.01 | | | | 1.16% |
| Ag 328.068† | -31.9 | 0.0002565 | mg/L | 0.00058021 | 0.0002565 | mg/L | 0.00058021 | 226.24% |
| Al 308.215† | 1089.3 | 0.0454559 | mg/L | 0.00157477 | 0.0454559 | mg/L | 0.00157477 | 3.46% |
| As 188.979† | 17.5 | 0.0162074 | mg/L | 0.00284750 | 0.0162074 | mg/L | 0.00284750 | 17.57% |
| Ba 233.527† | 152.5 | 0.0031461 | mg/L | 0.00003699 | 0.0031461 | mg/L | 0.00003699 | 1.18% |
| Be 313.107† | 1898.7 | 0.0042342 | mg/L | 0.00003151 | 0.0042342 | mg/L | 0.00003151 | 0.74% |
| Ca 315.887† | 11370051.4 | 82.6664 | mg/L | 0.93949 | 82.6664 | mg/L | 0.93949 | 1.14% |
| Cd 228.802† | 75.2 | 0.0049481 | mg/L | 0.00018667 | 0.0049481 | mg/L | 0.00018667 | 3.77% |
| Co 228.616† | 171.7 | 0.0059717 | mg/L | 0.00015139 | 0.0059717 | mg/L | 0.00015139 | 2.54% |
| Cr 267.716† | -136.7 | 0.0005218 | mg/L | 0.00013246 | 0.0005218 | mg/L | 0.00013246 | 25.39% |
| Cu 327.393† | -812.7 | -0.0050060 | mg/L | 0.00059293 | -0.0050060 | mg/L | 0.00059293 | 11.84% |
| Fe 273.955† | 6203.3 | 0.214661 | mg/L | 0.0012112 | 0.214661 | mg/L | 0.0012112 | 0.56% |
| K 404.721† | 829.3 | 5.56659 | mg/L | 1.524303 | 5.56659 | mg/L | 1.524303 | 27.38% |
| Mg 279.077† | 694427.3 | 27.5595 | mg/L | 0.34304 | 27.5595 | mg/L | 0.34304 | 1.24% |
| Mn 257.610† | 408854.9 | 0.492086 | mg/L | 0.0049213 | 0.492086 | mg/L | 0.0049213 | 1.00% |
| Mo 202.031† | 98.5 | 0.0094643 | mg/L | 0.00028841 | 0.0094643 | mg/L | 0.00028841 | 3.05% |
| Na 330.237† | 315861.3 | 222.013 | mg/L | 2.1825 | 222.013 | mg/L | 2.1825 | 0.98% |
| Ni 231.604† | 305.1 | 0.0101129 | mg/L | 0.00047772 | 0.0101129 | mg/L | 0.00047772 | 4.72% |
| Pb 220.353† | 29.6 | 0.0102601 | mg/L | 0.00049764 | 0.0102601 | mg/L | 0.00049764 | 4.85% |
| Sb 206.836† | -39.8 | -0.0283354 | mg/L | 0.00361495 | -0.0283354 | mg/L | 0.00361495 | 12.76% |
| Se 196.026† | -20.4 | -0.0185324 | mg/L | 0.00821023 | -0.0185324 | mg/L | 0.00821023 | 44.30% |
| Sn 189.927† | -22.9 | -0.0055952 | mg/L | 0.00093457 | -0.0055952 | mg/L | 0.00093457 | 16.70% |
| Ti 334.940† | 619.1 | 0.0041519 | mg/L | 0.00010420 | 0.0041519 | mg/L | 0.00010420 | 2.51% |
| Tl 190.801† | -23.5 | -0.0180479 | mg/L | 0.00263339 | -0.0180479 | mg/L | 0.00263339 | 14.59% |
| V 290.880† | 60.6 | 0.0039752 | mg/L | 0.00027946 | 0.0039752 | mg/L | 0.00027946 | 7.03% |
| Zn 206.200† | -9.0 | 0.0028299 | mg/L | 0.00010625 | 0.0028299 | mg/L | 0.00010625 | 3.75% |
| Si 251.611† | 29886.3 | 0.571157 | mg/L | 0.0089888 | 0.571157 | mg/L | 0.0089888 | 1.57% |
| B 249.772† | 2237.5 | 0.0270975 | mg/L | 0.00009191 | 0.0270975 | mg/L | 0.00009191 | 0.34% |
| Ce 413.764 | -459.6 | -0.0288727 | mg/L | 0.00197957 | -0.0288727 | mg/L | 0.00197957 | 6.86% |

Sequence No.: 86
Sample ID: AD26174-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 104
Date Collected: 9/29/2021 3:59:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26174-001

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 984202.2 | 121 | % | 4.4 | | | | 3.61% |
| Y 371.029 | 1072786.9 | 126 | % | 4.2 | | | | 3.36% |
| Ag 328.068† | -5203.9 | -0.0096205 | mg/L | 0.00026730 | -0.0096205 | mg/L | 0.00026730 | 2.78% |
| Al 308.215† | 6659984.6 | 215.686 | mg/L | 8.1811 | 215.686 | mg/L | 8.1811 | 3.79% |
| As 188.979† | 61.4 | 0.0335870 | mg/L | 0.00289178 | 0.0335870 | mg/L | 0.00289178 | 8.61% |
| Ba 233.527† | 158167.5 | 1.63906 | mg/L | 0.076459 | 1.63906 | mg/L | 0.076459 | 4.66% |
| Be 313.107† | 53682.4 | 0.0199668 | mg/L | 0.00078633 | 0.0199668 | mg/L | 0.00078633 | 3.94% |
| Ca 315.887† | 9002497.0 | 65.5096 | mg/L | 2.50340 | 65.5096 | mg/L | 2.50340 | 3.82% |
| Cd 228.802† | -2801.6 | 0.0178037 | mg/L | 0.00042328 | 0.0178037 | mg/L | 0.00042328 | 2.38% |
| Co 228.616† | 8258.6 | 0.247664 | mg/L | 0.0100079 | 0.247664 | mg/L | 0.0100079 | 4.04% |
| Cr 267.716† | 24925.4 | 0.213189 | mg/L | 0.0091277 | 0.213189 | mg/L | 0.0091277 | 4.28% |
| Cu 327.393† | 58149.8 | 0.498506 | mg/L | 0.0194245 | 0.498506 | mg/L | 0.0194245 | 3.90% |
| Fe 273.955† | 8492707.9 | 282.617 | mg/L | 10.7065 | 282.617 | mg/L | 10.7065 | 3.79% |
| K 404.721† | 1042.2 | 7.12314 | mg/L | 1.711444 | 7.12314 | mg/L | 1.711444 | 24.03% |
| Mg 279.077† | 1247719.5 | 49.5163 | mg/L | 2.25317 | 49.5163 | mg/L | 2.25317 | 4.55% |
| Mn 257.610† | 17231602.2 | 20.6854 | mg/L | 0.78569 | 20.6854 | mg/L | 0.78569 | 3.80% |
| Mo 202.031† | 116.9 | 0.0275431 | mg/L | 0.00167696 | 0.0275431 | mg/L | 0.00167696 | 6.09% |
| Na 330.237† | 87939.5 | 62.5705 | mg/L | 2.80643 | 62.5705 | mg/L | 2.80643 | 4.49% |
| Ni 231.604† | 7088.3 | 0.215416 | mg/L | 0.0101237 | 0.215416 | mg/L | 0.0101237 | 4.70% |
| Pb 220.353† | 268.2 | 0.171562 | mg/L | 0.0034330 | 0.171562 | mg/L | 0.0034330 | 2.00% |
| Sb 206.836† | -147.0 | -0.0442445 | mg/L | 0.00789932 | -0.0442445 | mg/L | 0.00789932 | 17.85% |
| Se 196.026† | -122.5 | -0.135763 | mg/L | 0.0094613 | -0.135763 | mg/L | 0.0094613 | 6.97% |
| Sn 189.927† | -41.1 | -0.0100101 | mg/L | 0.00242261 | -0.0100101 | mg/L | 0.00242261 | 24.20% |
| Ti 334.940† | 5744610.3 | 6.57884 | mg/L | 0.317259 | 6.57884 | mg/L | 0.317259 | 4.82% |
| Tl 190.801† | -13.7 | 0.0116714 | mg/L | 0.00546468 | 0.0116714 | mg/L | 0.00546468 | 46.82% |
| V 290.880† | 102178.1 | 0.627196 | mg/L | 0.0303833 | 0.627196 | mg/L | 0.0303833 | 4.84% |
| Zn 206.200† | 35373.0 | 0.699855 | mg/L | 0.0335016 | 0.699855 | mg/L | 0.0335016 | 4.79% |
| Si 251.611† | 3376277.3 | 75.0837 | mg/L | 3.50953 | 75.0837 | mg/L | 3.50953 | 4.67% |
| B 249.772† | 173223.2 | 0.630940 | mg/L | 0.0397748 | 0.630940 | mg/L | 0.0397748 | 6.30% |
| Ce 413.764 | 32452.1 | 0.612681 | mg/L | 0.0066676 | 0.612681 | mg/L | 0.0066676 | 1.09% |

Sequence No.: 87
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 4:05:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 741175.4 | 91.5 | % | 0.31 | | | | 0.34% |
| Y 371.029 | 774470.9 | 91.1 | % | 0.33 | | | | 0.36% |
| Ag 328.068† | 17586.4 | 0.0995375 | mg/L | 0.00213140 | 0.0995375 | mg/L | 0.00213140 | 2.14% |
| QC value within limits for Ag 328.068 Recovery = 99.54% | | | | | | | | |
| Al 308.215† | 154063.4 | 4.99935 | mg/L | 0.092926 | 4.99935 | mg/L | 0.092926 | 1.86% |
| QC value within limits for Al 308.215 Recovery = 99.99% | | | | | | | | |
| As 188.979† | 687.4 | 0.508831 | mg/L | 0.0091165 | 0.508831 | mg/L | 0.0091165 | 1.79% |
| QC value within limits for As 188.979 Recovery = 101.77% | | | | | | | | |
| Ba 233.527† | 47018.9 | 0.488349 | mg/L | 0.0089304 | 0.488349 | mg/L | 0.0089304 | 1.83% |
| QC value within limits for Ba 233.527 Recovery = 97.67% | | | | | | | | |
| Be 313.107† | 1581536.3 | 0.484152 | mg/L | 0.0023697 | 0.484152 | mg/L | 0.0023697 | 0.49% |
| QC value within limits for Be 313.107 Recovery = 96.83% | | | | | | | | |
| Ca 315.887† | 6756720.8 | 49.2352 | mg/L | 0.23188 | 49.2352 | mg/L | 0.23188 | 0.47% |
| QC value within limits for Ca 315.887 Recovery = 98.47% | | | | | | | | |
| Cd 228.802† | 24818.4 | 0.512221 | mg/L | 0.0046823 | 0.512221 | mg/L | 0.0046823 | 0.91% |
| QC value within limits for Cd 228.802 Recovery = 102.44% | | | | | | | | |
| Co 228.616† | 15677.7 | 0.492739 | mg/L | 0.0042717 | 0.492739 | mg/L | 0.0042717 | 0.87% |
| QC value within limits for Co 228.616 Recovery = 98.55% | | | | | | | | |
| Cr 267.716† | 58267.6 | 0.496118 | mg/L | 0.0085695 | 0.496118 | mg/L | 0.0085695 | 1.73% |
| QC value within limits for Cr 267.716 Recovery = 99.22% | | | | | | | | |
| Cu 327.393† | 58216.7 | 0.498887 | mg/L | 0.0086843 | 0.498887 | mg/L | 0.0086843 | 1.74% |
| QC value within limits for Cu 327.393 Recovery = 99.78% | | | | | | | | |
| Fe 273.955† | 146457.0 | 4.88183 | mg/L | 0.095084 | 4.88183 | mg/L | 0.095084 | 1.95% |
| QC value within limits for Fe 273.955 Recovery = 97.64% | | | | | | | | |
| K 404.721† | 6631.6 | 47.9829 | mg/L | 1.71820 | 47.9829 | mg/L | 1.71820 | 3.58% |
| QC value within limits for K 404.721 Recovery = 95.97% | | | | | | | | |
| Mg 279.077† | 1234942.9 | 49.0093 | mg/L | 0.30379 | 49.0093 | mg/L | 0.30379 | 0.62% |
| QC value within limits for Mg 279.077 Recovery = 98.02% | | | | | | | | |
| Mn 257.610† | 406832.6 | 0.489659 | mg/L | 0.0093765 | 0.489659 | mg/L | 0.0093765 | 1.91% |
| QC value within limits for Mn 257.610 Recovery = 97.93% | | | | | | | | |
| Mo 202.031† | 6269.1 | 0.484332 | mg/L | 0.0030577 | 0.484332 | mg/L | 0.0030577 | 0.63% |
| QC value within limits for Mo 202.031 Recovery = 96.87% | | | | | | | | |
| Na 330.237† | 68360.4 | 48.8740 | mg/L | 0.74724 | 48.8740 | mg/L | 0.74724 | 1.53% |
| QC value within limits for Na 330.237 Recovery = 97.75% | | | | | | | | |
| Ni 231.604† | 16247.3 | 0.492624 | mg/L | 0.0051636 | 0.492624 | mg/L | 0.0051636 | 1.05% |
| QC value within limits for Ni 231.604 Recovery = 98.52% | | | | | | | | |
| Pb 220.353† | 2108.6 | 0.533476 | mg/L | 0.0078767 | 0.533476 | mg/L | 0.0078767 | 1.48% |
| QC value within limits for Pb 220.353 Recovery = 106.70% | | | | | | | | |
| Sb 206.836† | 569.8 | 0.478695 | mg/L | 0.0042887 | 0.478695 | mg/L | 0.0042887 | 0.90% |
| QC value within limits for Sb 206.836 Recovery = 95.74% | | | | | | | | |
| Se 196.026† | 473.4 | 0.461567 | mg/L | 0.0111342 | 0.461567 | mg/L | 0.0111342 | 2.41% |
| QC value within limits for Se 196.026 Recovery = 92.31% | | | | | | | | |
| Sn 189.927† | 2061.3 | 0.501124 | mg/L | 0.0048556 | 0.501124 | mg/L | 0.0048556 | 0.97% |
| QC value within limits for Sn 189.927 Recovery = 100.22% | | | | | | | | |
| Ti 334.940† | 426107.6 | 0.491174 | mg/L | 0.0089589 | 0.491174 | mg/L | 0.0089589 | 1.82% |
| QC value within limits for Ti 334.940 Recovery = 98.23% | | | | | | | | |
| Tl 190.801† | 430.3 | 0.498833 | mg/L | 0.0043214 | 0.498833 | mg/L | 0.0043214 | 0.87% |
| QC value within limits for Tl 190.801 Recovery = 99.77% | | | | | | | | |
| V 290.880† | 80142.0 | 0.492710 | mg/L | 0.0097460 | 0.492710 | mg/L | 0.0097460 | 1.98% |
| QC value within limits for V 290.880 Recovery = 98.54% | | | | | | | | |
| Zn 206.200† | 24313.0 | 0.481972 | mg/L | 0.0056625 | 0.481972 | mg/L | 0.0056625 | 1.17% |
| QC value within limits for Zn 206.200 Recovery = 96.39% | | | | | | | | |
| Si 251.611† | 222447.5 | 4.85361 | mg/L | 0.101346 | 4.85361 | mg/L | 0.101346 | 2.09% |
| QC value within limits for Si 251.611 Recovery = 97.07% | | | | | | | | |
| B 249.772† | 45834.5 | 0.440128 | mg/L | 0.0088438 | 0.440128 | mg/L | 0.0088438 | 2.01% |
| QC value less than the lower limit for B 249.772 Recovery = 88.03% | | | | | | | | |
| Ce 413.764 | 25793.9 | 0.482893 | mg/L | 0.0077414 | 0.482893 | mg/L | 0.0077414 | 1.60% |
| QC value within limits for Ce 413.764 Recovery = 96.58% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 88
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/29/2021 4:10:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 776160.3 | 95.8 | % | 2.75 | | | | 2.87% |
| Y 371.029 | 830950.1 | 97.8 | % | 2.71 | | | | 2.77% |
| Ag 328.068† | -18.9 | 0.0003165 | mg/L | 0.00047556 | 0.0003165 | mg/L | 0.00047556 | 150.27% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 262.3 | 0.0186755 | mg/L | 0.01317437 | 0.0186755 | mg/L | 0.01317437 | 70.54% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 15.8 | 0.0150023 | mg/L | 0.00121047 | 0.0150023 | mg/L | 0.00121047 | 8.07% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -120.2 | 0.0003226 | mg/L | 0.00042636 | 0.0003226 | mg/L | 0.00042636 | 132.15% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 2055.2 | 0.0042817 | mg/L | 0.00003404 | 0.0042817 | mg/L | 0.00003404 | 0.80% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 182.8 | 0.272888 | mg/L | 0.0014214 | 0.272888 | mg/L | 0.0014214 | 0.52% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 66.7 | 0.0046853 | mg/L | 0.00010676 | 0.0046853 | mg/L | 0.00010676 | 2.28% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 150.2 | 0.0052912 | mg/L | 0.00029261 | 0.0052912 | mg/L | 0.00029261 | 5.53% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -10.5 | 0.0015929 | mg/L | 0.00057447 | 0.0015929 | mg/L | 0.00057447 | 36.07% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 341.6 | 0.0041836 | mg/L | 0.00157456 | 0.0041836 | mg/L | 0.00157456 | 37.64% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -102.6 | 0.0048213 | mg/L | 0.00147205 | 0.0048213 | mg/L | 0.00147205 | 30.53% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 215.9 | 1.08278 | mg/L | 1.813593 | 1.08278 | mg/L | 1.813593 | 167.49% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 206.8 | 0.0099995 | mg/L | 0.00275460 | 0.0099995 | mg/L | 0.00275460 | 27.55% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 393.4 | 0.0017860 | mg/L | 0.00006833 | 0.0017860 | mg/L | 0.00006833 | 3.83% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 48.8 | 0.0056375 | mg/L | 0.00081611 | 0.0056375 | mg/L | 0.00081611 | 14.48% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 180.3 | 1.17880 | mg/L | 0.058078 | 1.17880 | mg/L | 0.058078 | 4.93% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 173.6 | 0.0061351 | mg/L | 0.00067390 | 0.0061351 | mg/L | 0.00067390 | 10.98% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 50.1 | 0.0144208 | mg/L | 0.00215080 | 0.0144208 | mg/L | 0.00215080 | 14.91% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -9.2 | -0.0031754 | mg/L | 0.00827645 | -0.0031754 | mg/L | 0.00827645 | 260.64% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -16.9 | -0.0151437 | mg/L | 0.00461927 | -0.0151437 | mg/L | 0.00461927 | 30.50% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 2.5 | 0.0005831 | mg/L | 0.00096232 | 0.0005831 | mg/L | 0.00096232 | 165.03% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 278.8 | 0.0037624 | mg/L | 0.00017417 | 0.0037624 | mg/L | 0.00017417 | 4.63% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -8.5 | -0.0065518 | mg/L | 0.00401485 | -0.0065518 | mg/L | 0.00401485 | 61.28% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 381.7 | 0.0059345 | mg/L | 0.00103183 | 0.0059345 | mg/L | 0.00103183 | 17.39% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -39.0 | 0.0022383 | mg/L | 0.00007255 | 0.0022383 | mg/L | 0.00007255 | 3.24% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 439.9 | -0.0834868 | mg/L | 0.00117766 | -0.0834868 | mg/L | 0.00117766 | 1.41% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -684.2 | -0.0009785 | mg/L | 0.00105628 | -0.0009785 | mg/L | 0.00105628 | 107.95% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -368.9 | -0.0271041 | mg/L | 0.00097628 | -0.0271041 | mg/L | 0.00097628 | 3.60% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method: PE2 4300DV SWAQ AX Page 1 Date: 9/28/2021 11:45:17 AM

SW27669A2 27669/27668

SW846 GM 9/28/21

Analysis Begun

Start Time: 9/28/2021 11:42:43 AM Plasma On Time: 9/28/2021 10:37:09 AM
Logged In Analyst: shiamala Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N1030901Autosampler Model: AS-93plus

Sample Information File: C:\pe\administrator\Sample Information\09.28.21.sif
Batch ID:
Results Data Set: SW27669A2
Results Library: C:\pe\administrator\Results\Results.mdb

10/4/21.

Method Loaded
Method Name: PE2 4300DV SWAQ AX Method Last Saved: 9/8/2021 10:41:48 AM
IEC File: IECaxSW072521A2.iec MSF File:
Method Description: 6010D (AQUEOUS)

Sequence No.: 1 Autosampler Location: 1
Sample ID: CALBLK V-352951 Date Collected: 9/28/2021 11:42:43 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CALBLK V-352951

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 591992.0 | 4951.78 | 0.84% | 100 | % |
| Y 371.029 | 680370.5 | 5342.34 | 0.79% | 100 | % |
| Ag 328.068† | -1520.2 | 60.73 | 3.99% | [0.00] | mg/L |
| Al 308.215† | 12560.8 | 17.87 | 0.14% | [0.00] | mg/L |
| As 188.979† | 35.4 | 2.40 | 6.79% | [0.00] | mg/L |
| Ba 233.527† | -1009.2 | 15.38 | 1.52% | [0.00] | mg/L |
| Be 313.107† | 938.7 | 27.75 | 2.96% | [0.00] | mg/L |
| Ca 315.887† | 8871.6 | 1259.88 | 14.20% | [0.00] | mg/L |
| Cd 228.802† | -1323.1 | 19.62 | 1.48% | [0.00] | mg/L |
| Co 228.616† | 417.9 | 6.01 | 1.44% | [0.00] | mg/L |
| Cr 267.716† | -651.3 | 38.74 | 5.95% | [0.00] | mg/L |
| Cu 327.393† | -7731.5 | 61.68 | 0.80% | [0.00] | mg/L |
| Fe 273.955† | 675.2 | 136.87 | 20.27% | [0.00] | mg/L |
| K 404.721† | 343.6 | 90.82 | 26.44% | [0.00] | mg/L |
| Mg 279.077† | -35.6 | 50.43 | 141.61% | [0.00] | mg/L |
| Mn 257.610† | 4131.8 | 173.33 | 4.20% | [0.00] | mg/L |
| Mo 202.031† | -145.1 | 1.97 | 1.36% | [0.00] | mg/L |
| Na 330.237† | -818.3 | 115.33 | 14.09% | [0.00] | mg/L |
| Ni 231.604† | -1734.9 | 28.80 | 1.66% | [0.00] | mg/L |
| Pb 220.353† | -631.5 | 10.27 | 1.63% | [0.00] | mg/L |
| Sb 206.836† | -180.2 | 2.07 | 1.15% | [0.00] | mg/L |
| Se 196.026† | 194.3 | 1.19 | 0.61% | [0.00] | mg/L |
| Sn 189.927† | -19.1 | 2.52 | 13.18% | [0.00] | mg/L |
| Ti 334.940† | -1450.9 | 87.19 | 6.01% | [0.00] | mg/L |
| Tl 190.801† | 4.7 | 2.60 | 55.09% | [0.00] | mg/L |
| V 290.880† | 3172.6 | 92.16 | 2.90% | [0.00] | mg/L |
| Zn 206.200† | 318.9 | 7.76 | 2.43% | [0.00] | mg/L |
| Si 251.611† | 880.6 | 118.97 | 13.51% | [0.00] | mg/L |
| B 249.772† | 2165.8 | 41.39 | 1.91% | [0.00] | mg/L |
| Ce 413.764 | 1350.7 | 94.99 | 7.03% | [0.00] | mg/L |

27669/94427

26083-048, 049, 050
TQC

26083-001
Reported

Al, Na K NOT Reported

Sequence No.: 2
Sample ID: CALST2 V-352961
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 9/28/2021 11:46:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-352961

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 588564.0 | 3349.24 | 0.57% | 99.4 | % |
| Y 371.029 | 671069.7 | 2813.04 | 0.42% | 98.6 | % |
| Ag 328.068† | 3611.8 | 28.22 | 0.78% | [0.02] | mg/L |
| Al 308.215† | 6299.6 | 74.06 | 1.18% | [0.2] | mg/L |
| As 188.979† | 39.8 | 6.06 | 15.23% | [0.040] | mg/L |
| Ba 233.527† | 4726.6 | 37.04 | 0.78% | [0.050] | mg/L |
| Be 313.107† | 38933.8 | 136.17 | 0.35% | [0.012] | mg/L |
| Ca 315.887† | 708923.5 | 2249.26 | 0.32% | [5] | mg/L |
| Cd 228.802† | 634.6 | 9.68 | 1.53% | [0.012] | mg/L |
| Co 228.616† | 780.8 | 12.39 | 1.59% | [0.020] | mg/L |
| Cr 267.716† | 6194.7 | 66.78 | 1.08% | [0.050] | mg/L |
| Cu 327.393† | 6325.4 | 62.40 | 0.99% | [0.050] | mg/L |
| Fe 273.955† | 9931.8 | 35.88 | 0.36% | [0.30] | mg/L |
| K 404.721† | 990.6 | 73.10 | 7.38% | [5.0] | mg/L |
| Mg 279.077† | 117833.1 | 384.09 | 0.33% | [5.0] | mg/L |
| Mn 257.610† | 36858.2 | 139.60 | 0.38% | [0.040] | mg/L |
| Mo 202.031† | 148.6 | 7.14 | 4.81% | [0.020] | mg/L |
| Na 330.237† | 6002.9 | 18.59 | 0.31% | [5.0] | mg/L |
| Ni 231.604† | 1430.7 | 10.81 | 0.76% | [0.050] | mg/L |
| Pb 220.353† | 178.6 | 3.49 | 1.96% | [0.050] | mg/L |
| Sb 206.836† | 77.3 | 4.47 | 5.79% | [0.050] | mg/L |
| Se 196.026† | 43.7 | 8.13 | 18.62% | [0.050] | mg/L |
| Sn 189.927† | 185.8 | 2.94 | 1.58% | [0.050] | mg/L |
| Ti 334.940† | 42800.4 | 28.36 | 0.07% | [0.050] | mg/L |
| Tl 190.801† | 31.9 | 1.59 | 4.97% | [0.050] | mg/L |
| V 290.880† | 7964.3 | 69.68 | 0.87% | [0.050] | mg/L |
| Zn 206.200† | 1849.2 | 11.83 | 0.64% | [0.050] | mg/L |
| Si 251.611† | 18315.7 | 26.60 | 0.15% | [0.2] | mg/L |
| B 249.772† | 17097.6 | 165.95 | 0.97% | [0.20] | mg/L |
| Ce 413.764 | 12661.5 | 53.02 | 0.42% | [0.2] | mg/L |

Sequence No.: 3
Sample ID: CALST3 V-352955
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 9/28/2021 11:50:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-352955

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 557697.8 | 6773.81 | 1.21% | 94.2 | % |
| Y 371.029 | 625144.6 | 7013.09 | 1.12% | 91.9 | % |
| Ag 328.068† | 17950.7 | 76.99 | 0.43% | [0.10] | mg/L |
| Al 308.215† | 156314.4 | 630.81 | 0.40% | [5.0] | mg/L |
| As 188.979† | 493.3 | 7.58 | 1.54% | [0.50] | mg/L |
| Ba 233.527† | 46062.9 | 180.68 | 0.39% | [0.50] | mg/L |
| Be 313.107† | 1618036.0 | 22510.08 | 1.39% | [0.50] | mg/L |
| Ca 315.887† | 6877880.1 | 86729.01 | 1.26% | [50] | mg/L |
| Cd 228.802† | 27763.3 | 261.84 | 0.94% | [0.50] | mg/L |
| Co 228.616† | 18545.8 | 222.82 | 1.20% | [0.50] | mg/L |
| Cr 267.716† | 60493.3 | 232.04 | 0.38% | [0.50] | mg/L |
| Cu 327.393† | 60589.4 | 286.62 | 0.47% | [0.50] | mg/L |
| Fe 273.955† | 159320.8 | 417.14 | 0.26% | [5.0] | mg/L |
| K 404.721† | 6510.5 | 81.07 | 1.25% | [50] | mg/L |
| Mg 279.077† | 1095726.5 | 14794.54 | 1.35% | [50] | mg/L |
| Mn 257.610† | 447507.6 | 1454.09 | 0.32% | [0.50] | mg/L |
| Mo 202.031† | 3806.8 | 41.80 | 1.10% | [0.50] | mg/L |
| Na 330.237† | 67232.1 | 303.47 | 0.45% | [50] | mg/L |
| Ni 231.604† | 13612.8 | 143.18 | 1.05% | [0.50] | mg/L |
| Pb 220.353† | 1816.4 | 6.14 | 0.34% | [0.50] | mg/L |
| Sb 206.836† | 777.7 | 2.03 | 0.26% | [0.50] | mg/L |
| Se 196.026† | 445.2 | 6.35 | 1.43% | [0.50] | mg/L |
| Sn 189.927† | 1874.8 | 14.56 | 0.78% | [0.50] | mg/L |
| Ti 334.940† | 425544.7 | 1418.97 | 0.33% | [0.50] | mg/L |
| Tl 190.801† | 328.9 | 2.46 | 0.75% | [0.50] | mg/L |
| V 290.880† | 80795.6 | 314.06 | 0.39% | [0.50] | mg/L |
| Zn 206.200† | 18281.9 | 199.52 | 1.09% | [0.50] | mg/L |
| Si 251.611† | 206965.5 | 859.15 | 0.42% | [5] | mg/L |
| B 249.772† | 43170.3 | 261.22 | 0.61% | [0.50] | mg/L |
| Ce 413.764 | 28963.1 | 357.94 | 1.24% | [0.5] | mg/L |

Sequence No.: 4
Sample ID: CALST4 V-352956
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 9/28/2021 11:54:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-352956

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 546022.5 | 4607.67 | 0.84% | 92.2 | % |
| Y 371.029 | 609732.2 | 4444.28 | 0.73% | 89.6 | % |
| Ag 328.068† | 36246.1 | 46.24 | 0.13% | [0.20] | mg/L |
| Al 308.215† | 309710.3 | 874.74 | 0.28% | [10] | mg/L |
| As 188.979† | 993.7 | 6.51 | 0.66% | [1.0] | mg/L |
| Ba 233.527† | 91476.0 | 96.45 | 0.11% | [1.0] | mg/L |
| Be 313.107† | 3245292.4 | 51897.04 | 1.60% | [1.0] | mg/L |
| Ca 315.887† | 13720400.9 | 219657.61 | 1.60% | [100] | mg/L |
| Cd 228.802† | 55990.4 | 81.17 | 0.14% | [1.0] | mg/L |
| Co 228.616† | 36965.7 | 13.32 | 0.04% | [1.0] | mg/L |
| Cr 267.716† | 120158.5 | 271.15 | 0.23% | [1.0] | mg/L |
| Cu 327.393† | 120785.3 | 168.96 | 0.14% | [1.0] | mg/L |
| Fe 273.955† | 315846.0 | 446.66 | 0.14% | [10] | mg/L |
| K 404.721† | 13686.1 | 243.52 | 1.78% | [100] | mg/L |
| Mg 279.077† | 2173551.4 | 3632.08 | 0.17% | [100] | mg/L |
| Mn 257.610† | 889676.5 | 1071.28 | 0.12% | [1.0] | mg/L |
| Mo 202.031† | 7619.8 | 67.42 | 0.88% | [1.0] | mg/L |
| Na 330.237† | 142377.0 | 367.23 | 0.26% | [100] | mg/L |
| Ni 231.604† | 27050.6 | 309.56 | 1.14% | [1.0] | mg/L |
| Pb 220.353† | 3660.7 | 41.36 | 1.13% | [1.0] | mg/L |
| Sb 206.836† | 1568.7 | 19.05 | 1.21% | [1.0] | mg/L |
| Se 196.026† | 890.8 | 11.47 | 1.29% | [1.0] | mg/L |
| Sn 189.927† | 3681.4 | 39.91 | 1.08% | [1.0] | mg/L |
| Ti 334.940† | 858171.5 | 1338.39 | 0.16% | [1.0] | mg/L |
| Tl 190.801† | 661.8 | 10.58 | 1.60% | [1.0] | mg/L |
| V 290.880† | 161562.0 | 231.09 | 0.14% | [1.0] | mg/L |
| Zn 206.200† | 36761.3 | 88.77 | 0.24% | [1.0] | mg/L |
| Si 251.611† | 410345.8 | 354.43 | 0.09% | [10] | mg/L |
| B 249.772† | 87913.2 | 818.03 | 0.93% | [1.0] | mg/L |
| Ce 413.764 | 55308.8 | 322.97 | 0.58% | [1] | mg/L |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| Ag 328.068 | 3 | Lin, Calc Int | -37.7 | 181100 | 0.00000 | 0.999987 | |
| Al 308.215 | 3 | Lin, Calc Int | 313.7 | 30990 | 0.00000 | 0.999988 | |
| As 188.979 | 3 | Lin, Calc Int | -0.6 | 993.1 | 0.00000 | 0.999993 | |
| Ba 233.527 | 3 | Lin, Calc Int | 128.3 | 91450 | 0.00000 | 0.999993 | |
| Be 313.107 | 3 | Lin, Calc Int | -843.7 | 3244000 | 0.00000 | 0.999999 | |
| Ca 315.887 | 3 | Lin, Calc Int | 13558.4 | 137100 | 0.00000 | 0.999998 | |
| Cd 228.802 | 3 | Lin, Calc Int | -59.1 | 55970 | 0.00000 | 0.999991 | |
| Co 228.616 | 3 | Lin, Calc Int | 30.3 | 36950 | 0.00000 | 0.999998 | |
| Cr 267.716 | 3 | Lin, Calc Int | 160.0 | 120100 | 0.00000 | 0.999994 | |
| Cu 327.393 | 3 | Lin, Calc Int | 165.0 | 120700 | 0.00000 | 0.999997 | |
| Fe 273.955 | 3 | Lin, Calc Int | 461.6 | 31590 | 0.00000 | 0.999990 | |
| K 404.721 | 3 | Lin, Calc Int | 77.1 | 134.7 | 0.00000 | 0.999266 | |
| Mg 279.077 | 3 | Lin, Calc Int | 5764.8 | 21700 | 0.00000 | 0.999988 | |
| Mn 257.610 | 3 | Lin, Calc Int | 1062.0 | 889500 | 0.00000 | 0.999995 | |
| Mo 202.031 | 3 | Lin, Calc Int | -2.3 | 7621 | 0.00000 | 1.000000 | |
| Na 330.237 | 3 | Lin, Calc Int | -1227.4 | 1423 | 0.00000 | 0.999604 | |
| Ni 231.604 | 3 | Lin, Calc Int | 51.3 | 27030 | 0.00000 | 0.999993 | |
| Pb 220.353 | 3 | Lin, Calc Int | -4.6 | 3661 | 0.00000 | 0.999993 | |
| Sb 206.836 | 3 | Lin, Calc Int | -1.7 | 1568 | 0.00000 | 0.999990 | |
| Se 196.026 | 3 | Lin, Calc Int | -0.4 | 891.2 | 0.00000 | 1.000000 | |
| Sn 189.927 | 3 | Lin, Calc Int | 7.0 | 3686 | 0.00000 | 0.999953 | |
| Ti 334.940 | 3 | Lin, Calc Int | -697.2 | 857600 | 0.00000 | 0.999991 | |
| Tl 190.801 | 3 | Lin, Calc Int | -0.9 | 662.1 | 0.00000 | 0.999995 | |
| V 290.880 | 3 | Lin, Calc Int | -48.6 | 161600 | 0.00000 | 1.000000 | |
| Zn 206.200 | 3 | Lin, Calc Int | -13.1 | 36740 | 0.00000 | 0.999996 | |
| Si 251.611 | 3 | Lin, Calc Int | 4909.3 | 40530 | 0.00000 | 0.999762 | |
| B 249.772 | 3 | Lin, Calc Int | -355.4 | 88000 | 0.00000 | 0.999949 | |
| Ce 413.764 | 3 | Lin, Calc Int | 923.2 | 54850 | 0.00000 | 0.999404 | |

Sequence No.: 5
Sample ID: ICV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/28/2021 11:59:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 555350.5 | 93.8 | % | 0.78 | | | | 0.83% |
| Y 371.029 | 623114.4 | 91.6 | % | 0.87 | | | | 0.95% |
| Ag 328.068† | 17974.9 | 0.100171 | mg/L | 0.0001461 | 0.100171 | mg/L | 0.0001461 | 0.15% |
| QC value within limits for Ag 328.068 Recovery = 100.17% | | | | | | | | |
| Al 308.215† | 158270.9 | 5.09681 | mg/L | 0.011365 | 5.09681 | mg/L | 0.011365 | 0.22% |
| QC value within limits for Al 308.215 Recovery = 101.94% | | | | | | | | |
| As 188.979† | 500.9 | 0.504639 | mg/L | 0.0081108 | 0.504639 | mg/L | 0.0081108 | 1.61% |
| QC value within limits for As 188.979 Recovery = 100.93% | | | | | | | | |
| Ba 233.527† | 46579.7 | 0.507926 | mg/L | 0.0006091 | 0.507926 | mg/L | 0.0006091 | 0.12% |
| QC value within limits for Ba 233.527 Recovery = 101.59% | | | | | | | | |
| Be 313.107† | 1633416.4 | 0.503706 | mg/L | 0.0065031 | 0.503706 | mg/L | 0.0065031 | 1.29% |
| QC value within limits for Be 313.107 Recovery = 100.74% | | | | | | | | |
| Ca 315.887† | 6938932.4 | 50.5074 | mg/L | 0.64342 | 50.5074 | mg/L | 0.64342 | 1.27% |
| QC value within limits for Ca 315.887 Recovery = 101.01% | | | | | | | | |
| Cd 228.802† | 27974.4 | 0.507017 | mg/L | 0.0044943 | 0.507017 | mg/L | 0.0044943 | 0.89% |
| QC value within limits for Cd 228.802 Recovery = 101.40% | | | | | | | | |
| Co 228.616† | 18677.4 | 0.504753 | mg/L | 0.0036817 | 0.504753 | mg/L | 0.0036817 | 0.73% |
| QC value within limits for Co 228.616 Recovery = 100.95% | | | | | | | | |
| Cr 267.716† | 61324.4 | 0.509138 | mg/L | 0.0016620 | 0.509138 | mg/L | 0.0016620 | 0.33% |
| QC value within limits for Cr 267.716 Recovery = 101.83% | | | | | | | | |
| Cu 327.393† | 61389.1 | 0.507387 | mg/L | 0.0017002 | 0.507387 | mg/L | 0.0017002 | 0.34% |
| QC value within limits for Cu 327.393 Recovery = 101.48% | | | | | | | | |
| Fe 273.955† | 161486.7 | 5.09813 | mg/L | 0.009025 | 5.09813 | mg/L | 0.009025 | 0.18% |
| QC value within limits for Fe 273.955 Recovery = 101.96% | | | | | | | | |
| K 404.721† | 6507.9 | 47.7411 | mg/L | 0.44236 | 47.7411 | mg/L | 0.44236 | 0.93% |
| QC value within limits for K 404.721 Recovery = 95.48% | | | | | | | | |
| Mg 279.077† | 1104141.7 | 50.6081 | mg/L | 0.69022 | 50.6081 | mg/L | 0.69022 | 1.36% |
| QC value within limits for Mg 279.077 Recovery = 101.22% | | | | | | | | |
| Mn 257.610† | 455561.4 | 0.510974 | mg/L | 0.0009393 | 0.510974 | mg/L | 0.0009393 | 0.18% |
| QC value within limits for Mn 257.610 Recovery = 102.19% | | | | | | | | |
| Mo 202.031† | 3836.2 | 0.504050 | mg/L | 0.0043881 | 0.504050 | mg/L | 0.0043881 | 0.87% |
| QC value within limits for Mo 202.031 Recovery = 100.81% | | | | | | | | |
| Na 330.237† | 67866.4 | 48.5646 | mg/L | 0.12065 | 48.5646 | mg/L | 0.12065 | 0.25% |
| QC value within limits for Na 330.237 Recovery = 97.13% | | | | | | | | |
| Ni 231.604† | 13751.3 | 0.506935 | mg/L | 0.0034257 | 0.506935 | mg/L | 0.0034257 | 0.68% |
| QC value within limits for Ni 231.604 Recovery = 101.39% | | | | | | | | |
| Pb 220.353† | 1841.3 | 0.508373 | mg/L | 0.0067589 | 0.508373 | mg/L | 0.0067589 | 1.33% |
| QC value within limits for Pb 220.353 Recovery = 101.67% | | | | | | | | |
| Sb 206.836† | 773.1 | 0.499586 | mg/L | 0.0060485 | 0.499586 | mg/L | 0.0060485 | 1.21% |
| QC value within limits for Sb 206.836 Recovery = 99.92% | | | | | | | | |
| Se 196.026† | 446.1 | 0.500587 | mg/L | 0.0073205 | 0.500587 | mg/L | 0.0073205 | 1.46% |
| QC value within limits for Se 196.026 Recovery = 100.12% | | | | | | | | |
| Sn 189.927† | 1856.3 | 0.501642 | mg/L | 0.0048891 | 0.501642 | mg/L | 0.0048891 | 0.97% |
| QC value within limits for Sn 189.927 Recovery = 100.33% | | | | | | | | |
| Ti 334.940† | 431408.7 | 0.503845 | mg/L | 0.0011613 | 0.503845 | mg/L | 0.0011613 | 0.23% |
| QC value within limits for Ti 334.940 Recovery = 100.77% | | | | | | | | |
| Tl 190.801† | 334.6 | 0.512185 | mg/L | 0.0089237 | 0.512185 | mg/L | 0.0089237 | 1.74% |
| QC value within limits for Tl 190.801 Recovery = 102.44% | | | | | | | | |
| V 290.880† | 81837.5 | 0.506648 | mg/L | 0.0019232 | 0.506648 | mg/L | 0.0019232 | 0.38% |
| QC value within limits for V 290.880 Recovery = 101.33% | | | | | | | | |
| Zn 206.200† | 18753.1 | 0.510803 | mg/L | 0.0041153 | 0.510803 | mg/L | 0.0041153 | 0.81% |
| QC value within limits for Zn 206.200 Recovery = 102.16% | | | | | | | | |
| Si 251.611† | 204595.6 | 4.92970 | mg/L | 0.001822 | 4.92970 | mg/L | 0.001822 | 0.04% |
| QC value within limits for Si 251.611 Recovery = 98.59% | | | | | | | | |
| B 249.772† | 43926.7 | 0.483583 | mg/L | 0.0043661 | 0.483583 | mg/L | 0.0043661 | 0.90% |
| QC value within limits for B 249.772 Recovery = 96.72% | | | | | | | | |
| Ce 413.764 | 29176.4 | 0.515123 | mg/L | 0.0038374 | 0.515123 | mg/L | 0.0038374 | 0.74% |
| QC value within limits for Ce 413.764 Recovery = 103.02% | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/28/2021 12:04:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Calib Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 592745.8 | 100 | % | 0.3 | | | | 0.31% |
| Y 371.029 | 682249.7 | 100 | % | 0.2 | | | | 0.20% |
| Ag 328.068† | -5.7 | 0.0001617 | mg/L | 0.00005343 | 0.0001617 | mg/L | 0.00005343 | 33.04% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -195.1 | -0.0164178 | mg/L | 0.00140307 | -0.0164178 | mg/L | 0.00140307 | 8.55% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 3.9 | 0.0045707 | mg/L | 0.00570752 | 0.0045707 | mg/L | 0.00570752 | 124.87% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -10.1 | -0.0015134 | mg/L | 0.00007932 | -0.0015134 | mg/L | 0.00007932 | 5.24% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 19.2 | 0.0002660 | mg/L | 0.00003309 | 0.0002660 | mg/L | 0.00003309 | 12.44% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -1643.9 | -0.110872 | mg/L | 0.0029689 | -0.110872 | mg/L | 0.0029689 | 2.68% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | -26.6 | 0.0005548 | mg/L | 0.00011455 | 0.0005548 | mg/L | 0.00011455 | 20.64% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 20.4 | -0.0002746 | mg/L | 0.00055288 | -0.0002746 | mg/L | 0.00055288 | 201.32% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -8.2 | -0.0014004 | mg/L | 0.00030942 | -0.0014004 | mg/L | 0.00030942 | 22.10% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -103.4 | -0.0022222 | mg/L | 0.00002260 | -0.0022222 | mg/L | 0.00002260 | 1.02% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -260.2 | -0.0228545 | mg/L | 0.00120529 | -0.0228545 | mg/L | 0.00120529 | 5.27% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 133.7 | 0.420447 | mg/L | 0.9742852 | 0.420447 | mg/L | 0.9742852 | 231.73% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -37.8 | -0.267360 | mg/L | 0.0033227 | -0.267360 | mg/L | 0.0033227 | 1.24% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -160.1 | -0.0013739 | mg/L | 0.00002690 | -0.0013739 | mg/L | 0.00002690 | 1.96% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -1.3 | 0.0001302 | mg/L | 0.00036554 | 0.0001302 | mg/L | 0.00036554 | 280.67% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | -93.3 | 0.797106 | mg/L | 0.0633052 | 0.797106 | mg/L | 0.0633052 | 7.94% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -9.6 | -0.0022512 | mg/L | 0.00026851 | -0.0022512 | mg/L | 0.00026851 | 11.93% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -11.9 | -0.0020097 | mg/L | 0.00091149 | -0.0020097 | mg/L | 0.00091149 | 45.36% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | 0.6 | 0.0014996 | mg/L | 0.00110768 | 0.0014996 | mg/L | 0.00110768 | 73.87% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 2.0 | 0.0027042 | mg/L | 0.00544306 | 0.0027042 | mg/L | 0.00544306 | 201.28% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 0.9 | -0.0016653 | mg/L | 0.00131677 | -0.0016653 | mg/L | 0.00131677 | 79.07% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -21.6 | 0.0007877 | mg/L | 0.00002142 | 0.0007877 | mg/L | 0.00002142 | 2.72% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | 0.7 | 0.0023121 | mg/L | 0.00114653 | 0.0023121 | mg/L | 0.00114653 | 49.59% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 57.0 | 0.0006538 | mg/L | 0.00001531 | 0.0006538 | mg/L | 0.00001531 | 2.34% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -12.5 | 0.0000167 | mg/L | 0.00010308 | 0.0000167 | mg/L | 0.00010308 | 616.72% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | -94.0 | -0.123470 | mg/L | 0.0006925 | -0.123470 | mg/L | 0.0006925 | 0.56% |
| QC value less than the lower limit for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 339.6 | 0.0079858 | mg/L | 0.00146246 | 0.0079858 | mg/L | 0.00146246 | 18.31% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -63.2 | -0.0179842 | mg/L | 0.00184958 | -0.0179842 | mg/L | 0.00184958 | 10.28% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 7 Autosampler Location: 5
Sample ID: LLICV V-352961 Date Collected: 9/28/2021 12:07:53 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: LLICV V-352961

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 573303.4 | 96.8 | % | 4.09 | | | | 4.22% |
| Y 371.029 | 654247.4 | 96.2 | % | 4.09 | | | | 4.26% |
| Ag 328.068† | 3784.9 | 0.0212853 | mg/L | 0.00104916 | 0.0212853 | mg/L | 0.00104916 | 4.93% |
| QC value within limits for Ag 328.068 Recovery = 106.43% | | | | | | | | |
| Al 308.215† | 6911.9 | 0.212903 | mg/L | 0.0259884 | 0.212903 | mg/L | 0.0259884 | 12.21% |
| QC value within limits for Al 308.215 Recovery = 106.45% | | | | | | | | |
| As 188.979† | 44.3 | 0.0452109 | mg/L | 0.00432022 | 0.0452109 | mg/L | 0.00432022 | 9.56% |
| QC value within limits for As 188.979 Recovery = 113.03% | | | | | | | | |
| Ba 233.527† | 4836.8 | 0.0514850 | mg/L | 0.00211018 | 0.0514850 | mg/L | 0.00211018 | 4.10% |
| QC value within limits for Ba 233.527 Recovery = 102.97% | | | | | | | | |
| Be 313.107† | 40453.4 | 0.0127285 | mg/L | 0.00052182 | 0.0127285 | mg/L | 0.00052182 | 4.10% |
| QC value within limits for Be 313.107 Recovery = 106.07% | | | | | | | | |
| Ca 315.887† | 734384.5 | 5.25706 | mg/L | 0.232848 | 5.25706 | mg/L | 0.232848 | 4.43% |
| QC value within limits for Ca 315.887 Recovery = 105.14% | | | | | | | | |
| Cd 228.802† | 606.1 | 0.0124458 | mg/L | 0.00045793 | 0.0124458 | mg/L | 0.00045793 | 3.68% |
| QC value within limits for Cd 228.802 Recovery = 103.72% | | | | | | | | |
| Co 228.616† | 827.6 | 0.0215883 | mg/L | 0.00165998 | 0.0215883 | mg/L | 0.00165998 | 7.69% |
| QC value within limits for Co 228.616 Recovery = 107.94% | | | | | | | | |
| Cr 267.716† | 6371.4 | 0.0517042 | mg/L | 0.00209354 | 0.0517042 | mg/L | 0.00209354 | 4.05% |
| QC value within limits for Cr 267.716 Recovery = 103.41% | | | | | | | | |
| Cu 327.393† | 6171.9 | 0.0497802 | mg/L | 0.00043789 | 0.0497802 | mg/L | 0.00043789 | 0.88% |
| QC value within limits for Cu 327.393 Recovery = 99.56% | | | | | | | | |
| Fe 273.955† | 10263.6 | 0.310335 | mg/L | 0.0159333 | 0.310335 | mg/L | 0.0159333 | 5.13% |
| QC value within limits for Fe 273.955 Recovery = 103.44% | | | | | | | | |
| K 404.721† | 1030.6 | 7.07878 | mg/L | 0.769267 | 7.07878 | mg/L | 0.769267 | 10.87% |
| QC value greater than the upper limit for K 404.721 Recovery = 141.58% | | | | | | | | |
| Mg 279.077† | 122056.1 | 5.35817 | mg/L | 0.229545 | 5.35817 | mg/L | 0.229545 | 4.28% |
| QC value within limits for Mg 279.077 Recovery = 107.16% | | | | | | | | |
| Mn 257.610† | 38202.7 | 0.0417557 | mg/L | 0.00210771 | 0.0417557 | mg/L | 0.00210771 | 5.05% |
| QC value within limits for Mn 257.610 Recovery = 104.39% | | | | | | | | |
| Mo 202.031† | 148.0 | 0.0197346 | mg/L | 0.00004765 | 0.0197346 | mg/L | 0.00004765 | 0.24% |
| QC value within limits for Mo 202.031 Recovery = 98.67% | | | | | | | | |
| Na 330.237† | 6091.7 | 5.14443 | mg/L | 0.182431 | 5.14443 | mg/L | 0.182431 | 3.55% |
| QC value within limits for Na 330.237 Recovery = 102.89% | | | | | | | | |
| Ni 231.604† | 1409.0 | 0.0502411 | mg/L | 0.00061062 | 0.0502411 | mg/L | 0.00061062 | 1.22% |
| QC value within limits for Ni 231.604 Recovery = 100.48% | | | | | | | | |
| Pb 220.353† | 153.6 | 0.0434853 | mg/L | 0.00447166 | 0.0434853 | mg/L | 0.00447166 | 10.28% |
| QC value within limits for Pb 220.353 Recovery = 86.97% | | | | | | | | |
| Sb 206.836† | 76.4 | 0.0500727 | mg/L | 0.00263447 | 0.0500727 | mg/L | 0.00263447 | 5.26% |
| QC value within limits for Sb 206.836 Recovery = 100.15% | | | | | | | | |
| Se 196.026† | 53.2 | 0.0602121 | mg/L | 0.01549673 | 0.0602121 | mg/L | 0.01549673 | 25.74% |
| QC value greater than the upper limit for Se 196.026 Recovery = 120.42% | | | | | | | | |
| Sn 189.927† | 193.9 | 0.0506923 | mg/L | 0.00297094 | 0.0506923 | mg/L | 0.00297094 | 5.86% |
| QC value within limits for Sn 189.927 Recovery = 101.38% | | | | | | | | |
| Ti 334.940† | 44270.8 | 0.0524337 | mg/L | 0.00220236 | 0.0524337 | mg/L | 0.00220236 | 4.20% |
| QC value within limits for Ti 334.940 Recovery = 104.87% | | | | | | | | |
| Tl 190.801† | 34.6 | 0.0545458 | mg/L | 0.00336976 | 0.0545458 | mg/L | 0.00336976 | 6.18% |
| QC value within limits for Tl 190.801 Recovery = 109.09% | | | | | | | | |
| V 290.880† | 8289.4 | 0.0515894 | mg/L | 0.00276298 | 0.0515894 | mg/L | 0.00276298 | 5.36% |
| QC value within limits for V 290.880 Recovery = 103.18% | | | | | | | | |
| Zn 206.200† | 1921.0 | 0.0526439 | mg/L | 0.00289462 | 0.0526439 | mg/L | 0.00289462 | 5.50% |
| QC value within limits for Zn 206.200 Recovery = 105.29% | | | | | | | | |
| Si 251.611† | 18946.7 | 0.346525 | mg/L | 0.0213687 | 0.346525 | mg/L | 0.0213687 | 6.17% |
| QC value greater than the upper limit for Si 251.611 Recovery = 173.26% | | | | | | | | |
| B 249.772† | 17599.7 | 0.202837 | mg/L | 0.0079138 | 0.202837 | mg/L | 0.0079138 | 3.90% |
| QC value within limits for B 249.772 Recovery = 101.42% | | | | | | | | |
| Ce 413.764 | 12656.7 | 0.213930 | mg/L | 0.0017751 | 0.213930 | mg/L | 0.0017751 | 0.83% |
| QC value within limits for Ce 413.764 Recovery = 106.96% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 8
Sample ID: LRS V-352964
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 9/28/2021 12:11:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LRS V-352964

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 514443.4 | 86.9 | % | 0.40 | | | | 0.46% |
| Y 371.029 | 532368.5 | 78.2 | % | 0.37 | | | | 0.48% |
| Ag 328.068† | 172501.6 | 0.980581 | mg/L | 0.0024865 | 0.980581 | mg/L | 0.0024865 | 0.25% |
| QC value within limits for Ag 328.068 Recovery = 98.06% | | | | | | | | |
| Al 308.215† | 13787917.1 | 444.885 | mg/L | 1.5249 | 444.885 | mg/L | 1.5249 | 0.34% |
| QC value less than the lower limit for Al 308.215 Recovery = 88.98% | | | | | | | | |
| As 188.979† | 9819.6 | 9.85776 | mg/L | 0.099573 | 9.85776 | mg/L | 0.099573 | 1.01% |
| QC value within limits for As 188.979 Recovery = 98.58% | | | | | | | | |
| Ba 233.527† | 878461.9 | 9.60421 | mg/L | 0.017126 | 9.60421 | mg/L | 0.017126 | 0.18% |
| QC value within limits for Ba 233.527 Recovery = 96.04% | | | | | | | | |
| Be 313.107† | 14732538.9 | 4.54108 | mg/L | 0.016240 | 4.54108 | mg/L | 0.016240 | 0.36% |
| QC value within limits for Be 313.107 Recovery = 90.82% | | | | | | | | |
| Ca 315.887† | 61593425.2 | 449.108 | mg/L | 1.3545 | 449.108 | mg/L | 1.3545 | 0.30% |
| QC value less than the lower limit for Ca 315.887 Recovery = 89.82% | | | | | | | | |
| Cd 228.802† | 275645.5 | 5.05944 | mg/L | 0.014929 | 5.05944 | mg/L | 0.014929 | 0.30% |
| QC value within limits for Cd 228.802 Recovery = 101.19% | | | | | | | | |
| Co 228.616† | 170082.2 | 4.60502 | mg/L | 0.016519 | 4.60502 | mg/L | 0.016519 | 0.36% |
| QC value within limits for Co 228.616 Recovery = 92.10% | | | | | | | | |
| Cr 267.716† | 1101010.0 | 9.16358 | mg/L | 0.015957 | 9.16358 | mg/L | 0.015957 | 0.17% |
| QC value within limits for Cr 267.716 Recovery = 91.64% | | | | | | | | |
| Cu 327.393† | 1168014.9 | 9.67812 | mg/L | 0.022120 | 9.67812 | mg/L | 0.022120 | 0.23% |
| QC value within limits for Cu 327.393 Recovery = 96.78% | | | | | | | | |
| Fe 273.955† | 5680873.7 | 179.845 | mg/L | 0.3633 | 179.845 | mg/L | 0.3633 | 0.20% |
| QC value less than the lower limit for Fe 273.955 Recovery = 89.92% | | | | | | | | |
| K 404.721† | 66525.2 | 493.298 | mg/L | 2.0447 | 493.298 | mg/L | 2.0447 | 0.41% |
| QC value greater than the upper limit for K 404.721 Recovery = 246.65% | | | | | | | | |
| Mg 279.077† | 9854992.1 | 453.807 | mg/L | 1.7144 | 453.807 | mg/L | 1.7144 | 0.38% |
| QC value within limits for Mg 279.077 Recovery = 90.76% | | | | | | | | |
| Mn 257.610† | 8183634.8 | 9.19931 | mg/L | 0.014615 | 9.19931 | mg/L | 0.014615 | 0.16% |
| QC value within limits for Mn 257.610 Recovery = 91.99% | | | | | | | | |
| Mo 202.031† | 69845.7 | 9.19920 | mg/L | 0.028672 | 9.19920 | mg/L | 0.028672 | 0.31% |
| QC value within limits for Mo 202.031 Recovery = 91.99% | | | | | | | | |
| Na 330.237† | 1549703.6 | 1090.12 | mg/L | 3.410 | 1090.12 | mg/L | 3.410 | 0.31% |
| QC value within limits for Na 330.237 Recovery = 109.01% | | | | | | | | |
| Ni 231.604† | 250388.1 | 9.26308 | mg/L | 0.025408 | 9.26308 | mg/L | 0.025408 | 0.27% |
| QC value within limits for Ni 231.604 Recovery = 92.63% | | | | | | | | |
| Pb 220.353† | 34194.4 | 9.56612 | mg/L | 0.094113 | 9.56612 | mg/L | 0.094113 | 0.98% |
| QC value within limits for Pb 220.353 Recovery = 95.66% | | | | | | | | |
| Sb 206.836† | 7494.4 | 4.99824 | mg/L | 0.016714 | 4.99824 | mg/L | 0.016714 | 0.33% |
| QC value within limits for Sb 206.836 Recovery = 99.96% | | | | | | | | |
| Se 196.026† | 4459.7 | 4.94670 | mg/L | 0.055309 | 4.94670 | mg/L | 0.055309 | 1.12% |
| QC value within limits for Se 196.026 Recovery = 98.93% | | | | | | | | |
| Sn 189.927† | 35118.0 | 9.52443 | mg/L | 0.052435 | 9.52443 | mg/L | 0.052435 | 0.55% |
| QC value within limits for Sn 189.927 Recovery = 95.24% | | | | | | | | |
| Ti 334.940† | 8041631.4 | 9.37754 | mg/L | 0.013031 | 9.37754 | mg/L | 0.013031 | 0.14% |
| QC value within limits for Ti 334.940 Recovery = 93.78% | | | | | | | | |
| Tl 190.801† | 2940.5 | 4.57491 | mg/L | 0.081809 | 4.57491 | mg/L | 0.081809 | 1.79% |
| QC value within limits for Tl 190.801 Recovery = 91.50% | | | | | | | | |
| V 290.880† | 1519309.7 | 9.40061 | mg/L | 0.011526 | 9.40061 | mg/L | 0.011526 | 0.12% |
| QC value within limits for V 290.880 Recovery = 94.01% | | | | | | | | |
| Zn 206.200† | 342132.8 | 9.31300 | mg/L | 0.038319 | 9.31300 | mg/L | 0.038319 | 0.41% |
| QC value within limits for Zn 206.200 Recovery = 93.13% | | | | | | | | |
| Si 251.611† | 1003228.1 | 24.7153 | mg/L | 0.03439 | 24.7153 | mg/L | 0.03439 | 0.14% |
| QC value within limits for Si 251.611 Recovery = 98.86% | | | | | | | | |
| B 249.772† | 467689.7 | 4.62669 | mg/L | 0.051935 | 4.62669 | mg/L | 0.051935 | 1.12% |
| QC value within limits for B 249.772 Recovery = 92.53% | | | | | | | | |
| Ce 413.764 | 1183172.7 | 21.5552 | mg/L | 0.06982 | 21.5552 | mg/L | 0.06982 | 0.32% |
| QC value less than the lower limit for Ce 413.764 Recovery = 86.22% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 9
Sample ID: ICS3 V-352955
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 9/28/2021 12:17:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-352955

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 556832.6 | 94.1 | % | 1.21 | | | | 1.28% |
| Y 371.029 | 625278.1 | 91.9 | % | 1.11 | | | | 1.21% |
| Ag 328.068† | 18387.9 | 0.102451 | mg/L | 0.0005052 | 0.102451 | mg/L | 0.0005052 | 0.49% |
| QC value within limits for Ag 328.068 Recovery = 102.45% | | | | | | | | |
| Al 308.215† | 158773.0 | 5.11301 | mg/L | 0.028298 | 5.11301 | mg/L | 0.028298 | 0.55% |
| QC value within limits for Al 308.215 Recovery = 102.26% | | | | | | | | |
| As 188.979† | 506.4 | 0.510190 | mg/L | 0.0037233 | 0.510190 | mg/L | 0.0037233 | 0.73% |
| QC value within limits for As 188.979 Recovery = 102.04% | | | | | | | | |
| Ba 233.527† | 46634.1 | 0.508521 | mg/L | 0.0016131 | 0.508521 | mg/L | 0.0016131 | 0.32% |
| QC value within limits for Ba 233.527 Recovery = 101.70% | | | | | | | | |
| Be 313.107† | 1624135.0 | 0.500846 | mg/L | 0.0058958 | 0.500846 | mg/L | 0.0058958 | 1.18% |
| QC value within limits for Be 313.107 Recovery = 100.17% | | | | | | | | |
| Ca 315.887† | 6911309.0 | 50.3060 | mg/L | 0.52746 | 50.3060 | mg/L | 0.52746 | 1.05% |
| QC value within limits for Ca 315.887 Recovery = 100.61% | | | | | | | | |
| Cd 228.802† | 28157.2 | 0.510315 | mg/L | 0.0044454 | 0.510315 | mg/L | 0.0044454 | 0.87% |
| QC value within limits for Cd 228.802 Recovery = 102.06% | | | | | | | | |
| Co 228.616† | 18708.8 | 0.505606 | mg/L | 0.0050988 | 0.505606 | mg/L | 0.0050988 | 1.01% |
| QC value within limits for Co 228.616 Recovery = 101.12% | | | | | | | | |
| Cr 267.716† | 61447.0 | 0.510159 | mg/L | 0.0023707 | 0.510159 | mg/L | 0.0023707 | 0.46% |
| QC value within limits for Cr 267.716 Recovery = 102.03% | | | | | | | | |
| Cu 327.393† | 61237.9 | 0.506130 | mg/L | 0.0027349 | 0.506130 | mg/L | 0.0027349 | 0.54% |
| QC value within limits for Cu 327.393 Recovery = 101.23% | | | | | | | | |
| Fe 273.955† | 161876.7 | 5.11048 | mg/L | 0.017497 | 5.11048 | mg/L | 0.017497 | 0.34% |
| QC value within limits for Fe 273.955 Recovery = 102.21% | | | | | | | | |
| K 404.721† | 6730.7 | 49.3951 | mg/L | 0.14538 | 49.3951 | mg/L | 0.14538 | 0.29% |
| QC value within limits for K 404.721 Recovery = 98.79% | | | | | | | | |
| Mg 279.077† | 1105548.6 | 50.6730 | mg/L | 0.57930 | 50.6730 | mg/L | 0.57930 | 1.14% |
| QC value within limits for Mg 279.077 Recovery = 101.35% | | | | | | | | |
| Mn 257.610† | 454131.0 | 0.509366 | mg/L | 0.0018506 | 0.509366 | mg/L | 0.0018506 | 0.36% |
| QC value within limits for Mn 257.610 Recovery = 101.87% | | | | | | | | |
| Mo 202.031† | 3828.6 | 0.503049 | mg/L | 0.0047041 | 0.503049 | mg/L | 0.0047041 | 0.94% |
| QC value within limits for Mo 202.031 Recovery = 100.61% | | | | | | | | |
| Na 330.237† | 68703.5 | 49.1530 | mg/L | 0.25783 | 49.1530 | mg/L | 0.25783 | 0.52% |
| QC value within limits for Na 330.237 Recovery = 98.31% | | | | | | | | |
| Ni 231.604† | 13832.2 | 0.509928 | mg/L | 0.0046013 | 0.509928 | mg/L | 0.0046013 | 0.90% |
| QC value within limits for Ni 231.604 Recovery = 101.99% | | | | | | | | |
| Pb 220.353† | 1863.3 | 0.514409 | mg/L | 0.0034727 | 0.514409 | mg/L | 0.0034727 | 0.68% |
| QC value within limits for Pb 220.353 Recovery = 102.88% | | | | | | | | |
| Sb 206.836† | 778.3 | 0.502895 | mg/L | 0.0032570 | 0.502895 | mg/L | 0.0032570 | 0.65% |
| QC value within limits for Sb 206.836 Recovery = 100.58% | | | | | | | | |
| Se 196.026† | 458.2 | 0.514111 | mg/L | 0.0042824 | 0.514111 | mg/L | 0.0042824 | 0.83% |
| QC value within limits for Se 196.026 Recovery = 102.82% | | | | | | | | |
| Sn 189.927† | 1931.4 | 0.522030 | mg/L | 0.0045098 | 0.522030 | mg/L | 0.0045098 | 0.86% |
| QC value within limits for Sn 189.927 Recovery = 104.41% | | | | | | | | |
| Ti 334.940† | 430359.8 | 0.502622 | mg/L | 0.0019549 | 0.502622 | mg/L | 0.0019549 | 0.39% |
| QC value within limits for Ti 334.940 Recovery = 100.52% | | | | | | | | |
| Tl 190.801† | 338.1 | 0.517373 | mg/L | 0.0070649 | 0.517373 | mg/L | 0.0070649 | 1.37% |
| QC value within limits for Tl 190.801 Recovery = 103.47% | | | | | | | | |
| V 290.880† | 82013.1 | 0.507734 | mg/L | 0.0020420 | 0.507734 | mg/L | 0.0020420 | 0.40% |
| QC value within limits for V 290.880 Recovery = 101.55% | | | | | | | | |
| Zn 206.200† | 18663.1 | 0.508353 | mg/L | 0.0049857 | 0.508353 | mg/L | 0.0049857 | 0.98% |
| QC value within limits for Zn 206.200 Recovery = 101.67% | | | | | | | | |
| Si 251.611† | 209997.0 | 5.06299 | mg/L | 0.018217 | 5.06299 | mg/L | 0.018217 | 0.36% |
| QC value within limits for Si 251.611 Recovery = 101.26% | | | | | | | | |
| B 249.772† | 48425.6 | 0.534658 | mg/L | 0.0035413 | 0.534658 | mg/L | 0.0035413 | 0.66% |
| QC value within limits for B 249.772 Recovery = 106.93% | | | | | | | | |
| Ce 413.764 | 29126.7 | 0.514218 | mg/L | 0.0041812 | 0.514218 | mg/L | 0.0041812 | 0.81% |
| QC value within limits for Ce 413.764 Recovery = 102.84% | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: RINSE
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 9/28/2021 12:21:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: RINSE

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 594587.1 | 100 | % | 0.5 | | | | 0.51% |
| Y 371.029 | 685627.0 | 101 | % | 0.4 | | | | 0.36% |
| Ag 328.068† | -26.4 | 0.0000472 | mg/L | 0.00004955 | 0.0000472 | mg/L | 0.00004955 | 104.98% |
| Al 308.215† | -119.5 | -0.0139771 | mg/L | 0.00302710 | -0.0139771 | mg/L | 0.00302710 | 21.66% |
| As 188.979† | 5.1 | 0.0058187 | mg/L | 0.00382178 | 0.0058187 | mg/L | 0.00382178 | 65.68% |
| Ba 233.527† | -19.4 | -0.0016153 | mg/L | 0.00018546 | -0.0016153 | mg/L | 0.00018546 | 11.48% |
| Be 313.107† | 133.3 | 0.0003011 | mg/L | 0.00004089 | 0.0003011 | mg/L | 0.00004089 | 13.58% |
| Ca 315.887† | -1162.1 | -0.107358 | mg/L | 0.0022214 | -0.107358 | mg/L | 0.0022214 | 2.07% |
| Cd 228.802† | -43.5 | 0.0002439 | mg/L | 0.00001818 | 0.0002439 | mg/L | 0.00001818 | 7.45% |
| Co 228.616† | 17.9 | -0.0003427 | mg/L | 0.00053227 | -0.0003427 | mg/L | 0.00053227 | 155.30% |
| Cr 267.716† | -6.2 | -0.0013834 | mg/L | 0.00023167 | -0.0013834 | mg/L | 0.00023167 | 16.75% |
| Cu 327.393† | -163.1 | -0.0027175 | mg/L | 0.00015997 | -0.0027175 | mg/L | 0.00015997 | 5.89% |
| Fe 273.955† | -190.5 | -0.0206478 | mg/L | 0.00093112 | -0.0206478 | mg/L | 0.00093112 | 4.51% |
| K 404.721† | -18.2 | -0.707563 | mg/L | 0.4639786 | -0.707563 | mg/L | 0.4639786 | 65.57% |
| Mg 279.077† | 63.4 | -0.262694 | mg/L | 0.0031754 | -0.262694 | mg/L | 0.0031754 | 1.21% |
| Mn 257.610† | 46.5 | -0.0011416 | mg/L | 0.00004885 | -0.0011416 | mg/L | 0.00004885 | 4.28% |
| Mo 202.031† | 0.9 | 0.0004176 | mg/L | 0.00032297 | 0.0004176 | mg/L | 0.00032297 | 77.35% |
| Na 330.237† | 91.8 | 0.927208 | mg/L | 0.0458559 | 0.927208 | mg/L | 0.0458559 | 4.95% |
| Ni 231.604† | -36.7 | -0.0032562 | mg/L | 0.00016653 | -0.0032562 | mg/L | 0.00016653 | 5.11% |
| Pb 220.353† | -16.3 | -0.0032277 | mg/L | 0.00107739 | -0.0032277 | mg/L | 0.00107739 | 33.38% |
| Sb 206.836† | -4.1 | -0.0015445 | mg/L | 0.00194859 | -0.0015445 | mg/L | 0.00194859 | 126.17% |
| Se 196.026† | 8.3 | 0.0097455 | mg/L | 0.00611083 | 0.0097455 | mg/L | 0.00611083 | 62.70% |
| Sn 189.927† | 17.9 | 0.0029583 | mg/L | 0.00082591 | 0.0029583 | mg/L | 0.00082591 | 27.92% |
| Ti 334.940† | 67.0 | 0.0008911 | mg/L | 0.00007133 | 0.0008911 | mg/L | 0.00007133 | 8.01% |
| Tl 190.801† | 1.6 | 0.0037486 | mg/L | 0.00199000 | 0.0037486 | mg/L | 0.00199000 | 53.09% |
| V 290.880† | 112.8 | 0.0009988 | mg/L | 0.00035841 | 0.0009988 | mg/L | 0.00035841 | 35.88% |
| Zn 206.200† | -0.2 | 0.0003501 | mg/L | 0.00019739 | 0.0003501 | mg/L | 0.00019739 | 56.38% |
| Si 251.611† | -109.6 | -0.123853 | mg/L | 0.0007161 | -0.123853 | mg/L | 0.0007161 | 0.58% |
| B 249.772† | 1957.1 | 0.0263577 | mg/L | 0.00277831 | 0.0263577 | mg/L | 0.00277831 | 10.54% |
| Ce 413.764 | -86.9 | -0.0184152 | mg/L | 0.00055932 | -0.0184152 | mg/L | 0.00055932 | 3.04% |

Sequence No.: 11
Sample ID: ICSA V-352957
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 9/28/2021 12:25:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-352957

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 494648.0 | 83.6 | % | 0.76 | | | | 0.90% |
| Y 371.029 | 552024.6 | 81.1 | % | 0.64 | | | | 0.79% |
| Ag 328.068† | -4085.1 | -0.0093510 | mg/L | 0.00023970 | -0.0093510 | mg/L | 0.00023970 | 2.56% |
| Al 308.215† | 15597401.9 | 503.271 | mg/L | 4.8351 | 503.271 | mg/L | 4.8351 | 0.96% |
| QC value within limits for Al 308.215 Recovery = 100.65% | | | | | | | | |
| As 188.979† | 32.4 | -0.0016927 | mg/L | 0.00239992 | -0.0016927 | mg/L | 0.00239992 | 141.78% |
| Ba 233.527† | -111.5 | -0.0026225 | mg/L | 0.00019430 | -0.0026225 | mg/L | 0.00019430 | 7.41% |
| Be 313.107† | -3861.1 | -0.0009300 | mg/L | 0.00001582 | -0.0009300 | mg/L | 0.00001582 | 1.70% |
| Ca 315.887† | 69831268.5 | 509.187 | mg/L | 4.9996 | 509.187 | mg/L | 4.9996 | 0.98% |
| QC value within limits for Ca 315.887 Recovery = 101.84% | | | | | | | | |
| Cd 228.802† | -3180.2 | -0.0076059 | mg/L | 0.00024300 | -0.0076059 | mg/L | 0.00024300 | 3.19% |
| Co 228.616† | 390.3 | 0.0097230 | mg/L | 0.00046120 | 0.0097230 | mg/L | 0.00046120 | 4.74% |
| Cr 267.716† | -323.7 | -0.0040264 | mg/L | 0.00031830 | -0.0040264 | mg/L | 0.00031830 | 7.91% |
| Cu 327.393† | -4604.0 | -0.0392968 | mg/L | 0.00094138 | -0.0392968 | mg/L | 0.00094138 | 2.40% |
| Fe 273.955† | 6246749.2 | 197.761 | mg/L | 2.0032 | 197.761 | mg/L | 2.0032 | 1.01% |
| QC value within limits for Fe 273.955 Recovery = 98.88% | | | | | | | | |
| K 404.721† | -700.4 | -5.77206 | mg/L | 0.035743 | -5.77206 | mg/L | 0.035743 | 0.62% |
| Mg 279.077† | 11091656.8 | 510.787 | mg/L | 5.2362 | 510.787 | mg/L | 5.2362 | 1.03% |
| QC value within limits for Mg 279.077 Recovery = 102.16% | | | | | | | | |
| Mn 257.610† | 5341.7 | 0.0048115 | mg/L | 0.00005811 | 0.0048115 | mg/L | 0.00005811 | 1.21% |
| Mo 202.031† | -218.8 | 0.0105000 | mg/L | 0.00151568 | 0.0105000 | mg/L | 0.00151568 | 14.43% |
| Na 330.237† | -815.7 | 0.289358 | mg/L | 0.0738034 | 0.289358 | mg/L | 0.0738034 | 25.51% |
| Ni 231.604† | -749.7 | -0.0296387 | mg/L | 0.00072479 | -0.0296387 | mg/L | 0.00072479 | 2.45% |
| Pb 220.353† | -894.9 | 0.0097036 | mg/L | 0.00116118 | 0.0097036 | mg/L | 0.00116118 | 11.97% |
| Sb 206.836† | -214.3 | 0.0329521 | mg/L | 0.00203326 | 0.0329521 | mg/L | 0.00203326 | 6.17% |
| Se 196.026† | 172.2 | 0.127922 | mg/L | 0.0042922 | 0.127922 | mg/L | 0.0042922 | 3.36% |
| Sn 189.927† | -143.7 | -0.0408953 | mg/L | 0.00169110 | -0.0408953 | mg/L | 0.00169110 | 4.14% |
| Ti 334.940† | 3012.0 | 0.0043250 | mg/L | 0.00020359 | 0.0043250 | mg/L | 0.00020359 | 4.71% |
| Tl 190.801† | 6.2 | 0.0868893 | mg/L | 0.00235781 | 0.0868893 | mg/L | 0.00235781 | 2.71% |
| V 290.880† | 1019.6 | 0.0066093 | mg/L | 0.00024228 | 0.0066093 | mg/L | 0.00024228 | 3.67% |
| Zn 206.200† | 445.9 | 0.0124920 | mg/L | 0.00009843 | 0.0124920 | mg/L | 0.00009843 | 0.79% |
| Si 251.611† | 1138.9 | -0.0039329 | mg/L | 0.00131379 | -0.0039329 | mg/L | 0.00131379 | 33.41% |
| B 249.772† | 75957.8 | 0.106346 | mg/L | 0.0068099 | 0.106346 | mg/L | 0.0068099 | 6.40% |
| Ce 413.764 | -500.3 | -0.0259531 | mg/L | 0.00099432 | -0.0259531 | mg/L | 0.00099432 | 3.83% |

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: AD26146-001 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 9/28/2021 12:31:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26146-001 2D

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 586085.0 | 99.0 | % | 0.10 | | | | 0.10% |
| Y 371.029 | 711733.4 | 105 | % | 0.5 | | | | 0.46% |
| Ag 328.068† | -2932.2 | -0.0069727 | mg/L | 0.00047257 | -0.0069727 | mg/L | 0.00047257 | 6.78% |
| Al 308.215† | 1817991.4 | 58.6510 | mg/L | 0.34835 | 58.6510 | mg/L | 0.34835 | 0.59% |
| As 188.979† | 19.8 | 0.0164851 | mg/L | 0.00186890 | 0.0164851 | mg/L | 0.00186890 | 11.34% |
| Ba 233.527† | 91941.2 | 1.00394 | mg/L | 0.004797 | 1.00394 | mg/L | 0.004797 | 0.48% |
| Be 313.107† | 21097.5 | 0.0067626 | mg/L | 0.00001232 | 0.0067626 | mg/L | 0.00001232 | 0.18% |
| Ca 315.887† | 42332915.9 | 308.639 | mg/L | 2.3340 | 308.639 | mg/L | 2.3340 | 0.76% |
| Cd 228.802† | -1828.9 | 0.0020946 | mg/L | 0.00041990 | 0.0020946 | mg/L | 0.00041990 | 20.05% |
| Co 228.616† | 2459.1 | 0.0638707 | mg/L | 0.00085488 | 0.0638707 | mg/L | 0.00085488 | 1.34% |
| Cr 267.716† | 18434.2 | 0.152116 | mg/L | 0.0007304 | 0.152116 | mg/L | 0.0007304 | 0.48% |
| Cu 327.393† | 11812.9 | 0.0997983 | mg/L | 0.00024737 | 0.0997983 | mg/L | 0.00024737 | 0.25% |
| Fe 273.955† | 4189797.4 | 132.636 | mg/L | 0.8861 | 132.636 | mg/L | 0.8861 | 0.67% |
| K 404.721† | 2088.2 | 14.9301 | mg/L | 0.60530 | 14.9301 | mg/L | 0.60530 | 4.05% |
| Mg 279.077† | 867398.1 | 39.7001 | mg/L | 0.28767 | 39.7001 | mg/L | 0.28767 | 0.72% |
| Mn 257.610† | 5423971.2 | 6.09674 | mg/L | 0.037463 | 6.09674 | mg/L | 0.037463 | 0.61% |
| Mo 202.031† | 55.4 | 0.0121106 | mg/L | 0.00023620 | 0.0121106 | mg/L | 0.00023620 | 1.95% |
| Na 330.237† | 27517.6 | 20.2043 | mg/L | 0.09602 | 20.2043 | mg/L | 0.09602 | 0.48% |
| Ni 231.604† | 3481.8 | 0.126938 | mg/L | 0.0012343 | 0.126938 | mg/L | 0.0012343 | 0.97% |
| Pb 220.353† | 126.9 | 0.0646964 | mg/L | 0.00086383 | 0.0646964 | mg/L | 0.00086383 | 1.34% |
| Sb 206.836† | -32.1 | 0.0003601 | mg/L | 0.00058095 | 0.0003601 | mg/L | 0.00058095 | 161.33% |
| Se 196.026† | 13.4 | 0.0135792 | mg/L | 0.00131004 | 0.0135792 | mg/L | 0.00131004 | 9.65% |
| Sn 189.927† | -50.0 | -0.0154640 | mg/L | 0.00108856 | -0.0154640 | mg/L | 0.00108856 | 7.04% |
| Ti 334.940† | 1583296.9 | 1.84697 | mg/L | 0.013811 | 1.84697 | mg/L | 0.013811 | 0.75% |
| Tl 190.801† | -0.4 | 0.0277823 | mg/L | 0.00276500 | 0.0277823 | mg/L | 0.00276500 | 9.95% |
| V 290.880† | 25959.9 | 0.160920 | mg/L | 0.0010963 | 0.160920 | mg/L | 0.0010963 | 0.68% |
| Zn 206.200† | 9750.7 | 0.265764 | mg/L | 0.0024705 | 0.265764 | mg/L | 0.0024705 | 0.93% |
| Si 251.611† | 1136513.2 | 27.9829 | mg/L | 0.17853 | 27.9829 | mg/L | 0.17853 | 0.64% |
| B 249.772† | 57708.2 | 0.149517 | mg/L | 0.0063775 | 0.149517 | mg/L | 0.0063775 | 4.27% |
| Ce 413.764 | 21402.9 | 0.373395 | mg/L | 0.0014866 | 0.373395 | mg/L | 0.0014866 | 0.40% |

Sequence No.: 13 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/28/2021 12:36:35 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 555486.3 | 93.8 | % | 0.90 | | | | 0.96% |
| Y 371.029 | 624330.4 | 91.8 | % | 0.66 | | | | 0.72% |
| Ag 328.068† | 18166.5 | 0.101234 | mg/L | 0.0008213 | 0.101234 | mg/L | 0.0008213 | 0.81% |
| QC value within limits for Ag 328.068 Recovery = 101.23% | | | | | | | | |
| Al 308.215† | 159534.1 | 5.13757 | mg/L | 0.030824 | 5.13757 | mg/L | 0.030824 | 0.60% |
| QC value within limits for Al 308.215 Recovery = 102.75% | | | | | | | | |
| As 188.979† | 509.0 | 0.512861 | mg/L | 0.0065878 | 0.512861 | mg/L | 0.0065878 | 1.28% |
| QC value within limits for As 188.979 Recovery = 102.57% | | | | | | | | |
| Ba 233.527† | 46902.4 | 0.511454 | mg/L | 0.0027459 | 0.511454 | mg/L | 0.0027459 | 0.54% |
| QC value within limits for Ba 233.527 Recovery = 102.29% | | | | | | | | |
| Be 313.107† | 1652108.6 | 0.509468 | mg/L | 0.0039711 | 0.509468 | mg/L | 0.0039711 | 0.78% |
| QC value within limits for Be 313.107 Recovery = 101.89% | | | | | | | | |
| Ca 315.887† | 7013917.4 | 51.0543 | mg/L | 0.34339 | 51.0543 | mg/L | 0.34339 | 0.67% |
| QC value within limits for Ca 315.887 Recovery = 102.11% | | | | | | | | |
| Cd 228.802† | 28224.1 | 0.511558 | mg/L | 0.0046924 | 0.511558 | mg/L | 0.0046924 | 0.92% |
| QC value within limits for Cd 228.802 Recovery = 102.31% | | | | | | | | |
| Co 228.616† | 18869.1 | 0.509940 | mg/L | 0.0047996 | 0.509940 | mg/L | 0.0047996 | 0.94% |
| QC value within limits for Co 228.616 Recovery = 101.99% | | | | | | | | |
| Cr 267.716† | 61863.8 | 0.513629 | mg/L | 0.0036012 | 0.513629 | mg/L | 0.0036012 | 0.70% |
| QC value within limits for Cr 267.716 Recovery = 102.73% | | | | | | | | |
| Cu 327.393† | 61925.7 | 0.511832 | mg/L | 0.0047503 | 0.511832 | mg/L | 0.0047503 | 0.93% |
| QC value within limits for Cu 327.393 Recovery = 102.37% | | | | | | | | |
| Fe 273.955† | 162926.4 | 5.14372 | mg/L | 0.031103 | 5.14372 | mg/L | 0.031103 | 0.60% |
| QC value within limits for Fe 273.955 Recovery = 102.87% | | | | | | | | |
| K 404.721† | 6677.5 | 49.0004 | mg/L | 0.64531 | 49.0004 | mg/L | 0.64531 | 1.32% |
| QC value within limits for K 404.721 Recovery = 98.00% | | | | | | | | |
| Mg 279.077† | 1118026.9 | 51.2479 | mg/L | 0.31695 | 51.2479 | mg/L | 0.31695 | 0.62% |
| QC value within limits for Mg 279.077 Recovery = 102.50% | | | | | | | | |
| Mn 257.610† | 459020.5 | 0.514863 | mg/L | 0.0031263 | 0.514863 | mg/L | 0.0031263 | 0.61% |
| QC value within limits for Mn 257.610 Recovery = 102.97% | | | | | | | | |
| Mo 202.031† | 3865.7 | 0.507914 | mg/L | 0.0045857 | 0.507914 | mg/L | 0.0045857 | 0.90% |
| QC value within limits for Mo 202.031 Recovery = 101.58% | | | | | | | | |
| Na 330.237† | 68325.9 | 48.8876 | mg/L | 0.30242 | 48.8876 | mg/L | 0.30242 | 0.62% |
| QC value within limits for Na 330.237 Recovery = 97.78% | | | | | | | | |
| Ni 231.604† | 13946.3 | 0.514152 | mg/L | 0.0055503 | 0.514152 | mg/L | 0.0055503 | 1.08% |
| QC value within limits for Ni 231.604 Recovery = 102.83% | | | | | | | | |
| Pb 220.353† | 1845.3 | 0.509519 | mg/L | 0.0035879 | 0.509519 | mg/L | 0.0035879 | 0.70% |
| QC value within limits for Pb 220.353 Recovery = 101.90% | | | | | | | | |
| Sb 206.836† | 779.6 | 0.503816 | mg/L | 0.0058990 | 0.503816 | mg/L | 0.0058990 | 1.17% |
| QC value within limits for Sb 206.836 Recovery = 100.76% | | | | | | | | |
| Se 196.026† | 449.7 | 0.504605 | mg/L | 0.0089602 | 0.504605 | mg/L | 0.0089602 | 1.78% |
| QC value within limits for Se 196.026 Recovery = 100.92% | | | | | | | | |
| Sn 189.927† | 1871.9 | 0.505872 | mg/L | 0.0051335 | 0.505872 | mg/L | 0.0051335 | 1.01% |
| QC value within limits for Sn 189.927 Recovery = 101.17% | | | | | | | | |
| Ti 334.940† | 434443.7 | 0.507384 | mg/L | 0.0033689 | 0.507384 | mg/L | 0.0033689 | 0.66% |
| QC value within limits for Ti 334.940 Recovery = 101.48% | | | | | | | | |
| Tl 190.801† | 338.2 | 0.517572 | mg/L | 0.0040481 | 0.517572 | mg/L | 0.0040481 | 0.78% |
| QC value within limits for Tl 190.801 Recovery = 103.51% | | | | | | | | |
| V 290.880† | 82472.1 | 0.510574 | mg/L | 0.0031245 | 0.510574 | mg/L | 0.0031245 | 0.61% |
| QC value within limits for V 290.880 Recovery = 102.11% | | | | | | | | |
| Zn 206.200† | 19006.4 | 0.517700 | mg/L | 0.0044734 | 0.517700 | mg/L | 0.0044734 | 0.86% |
| QC value within limits for Zn 206.200 Recovery = 103.54% | | | | | | | | |
| Si 251.611† | 207580.4 | 5.00338 | mg/L | 0.040693 | 5.00338 | mg/L | 0.040693 | 0.81% |
| QC value within limits for Si 251.611 Recovery = 100.07% | | | | | | | | |
| B 249.772† | 43421.8 | 0.477669 | mg/L | 0.0032739 | 0.477669 | mg/L | 0.0032739 | 0.69% |
| QC value within limits for B 249.772 Recovery = 95.53% | | | | | | | | |
| Ce 413.764 | 29376.9 | 0.518780 | mg/L | 0.0016465 | 0.518780 | mg/L | 0.0016465 | 0.32% |
| QC value within limits for Ce 413.764 Recovery = 103.76% | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/28/2021 12:40:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 594445.9 | 100 | % | 0.9 | | | | 0.89% |
| Y 371.029 | 685174.1 | 101 | % | 1.0 | | | | 0.96% |
| Ag 328.068† | -54.9 | -0.0001101 | mg/L | 0.00026517 | -0.0001101 | mg/L | 0.00026517 | 240.89% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -107.1 | -0.0135795 | mg/L | 0.00242177 | -0.0135795 | mg/L | 0.00242177 | 17.83% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 2.3 | 0.0029901 | mg/L | 0.00404131 | 0.0029901 | mg/L | 0.00404131 | 135.16% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -24.1 | -0.0016669 | mg/L | 0.00010241 | -0.0016669 | mg/L | 0.00010241 | 6.14% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | -18.9 | 0.0002542 | mg/L | 0.00002809 | 0.0002542 | mg/L | 0.00002809 | 11.05% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -718.7 | -0.104124 | mg/L | 0.0025634 | -0.104124 | mg/L | 0.0025634 | 2.46% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | -28.6 | 0.0005091 | mg/L | 0.00031440 | 0.0005091 | mg/L | 0.00031440 | 61.75% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 24.5 | -0.0001627 | mg/L | 0.00017735 | -0.0001627 | mg/L | 0.00017735 | 109.02% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 20.2 | -0.0011632 | mg/L | 0.00024633 | -0.0011632 | mg/L | 0.00024633 | 21.18% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -222.6 | -0.0032103 | mg/L | 0.00047458 | -0.0032103 | mg/L | 0.00047458 | 14.78% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -273.4 | -0.0232696 | mg/L | 0.00130739 | -0.0232696 | mg/L | 0.00130739 | 5.62% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 169.0 | 0.682203 | mg/L | 0.6019979 | 0.682203 | mg/L | 0.6019979 | 88.24% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 10.1 | -0.265150 | mg/L | 0.0032531 | -0.265150 | mg/L | 0.0032531 | 1.23% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -168.5 | -0.0013834 | mg/L | 0.00007414 | -0.0013834 | mg/L | 0.00007414 | 5.36% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -3.9 | -0.0002145 | mg/L | 0.00058492 | -0.0002145 | mg/L | 0.00058492 | 272.74% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 117.9 | 0.945611 | mg/L | 0.0158905 | 0.945611 | mg/L | 0.0158905 | 1.68% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -37.1 | -0.0032713 | mg/L | 0.00072472 | -0.0032713 | mg/L | 0.00072472 | 22.15% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -19.0 | -0.0039459 | mg/L | 0.00108088 | -0.0039459 | mg/L | 0.00108088 | 27.39% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -2.9 | -0.0007809 | mg/L | 0.00055562 | -0.0007809 | mg/L | 0.00055562 | 71.15% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 1.9 | 0.0025873 | mg/L | 0.00149814 | 0.0025873 | mg/L | 0.00149814 | 57.90% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 7.4 | 0.0001131 | mg/L | 0.00037528 | 0.0001131 | mg/L | 0.00037528 | 331.77% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 58.1 | 0.0008807 | mg/L | 0.00011072 | 0.0008807 | mg/L | 0.00011072 | 12.57% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | 1.3 | 0.0032025 | mg/L | 0.00402999 | 0.0032025 | mg/L | 0.00402999 | 125.84% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 106.8 | 0.0009616 | mg/L | 0.00029914 | 0.0009616 | mg/L | 0.00029914 | 31.11% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -21.7 | -0.0002333 | mg/L | 0.00035085 | -0.0002333 | mg/L | 0.00035085 | 150.40% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 294.8 | -0.113874 | mg/L | 0.0127337 | -0.113874 | mg/L | 0.0127337 | 11.18% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -146.9 | 0.0024592 | mg/L | 0.00172645 | 0.0024592 | mg/L | 0.00172645 | 70.20% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -79.1 | -0.0182743 | mg/L | 0.00150587 | -0.0182743 | mg/L | 0.00150587 | 8.24% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: MB 94427 (1)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 9/28/2021 12:44:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 94427 (1)

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 603567.9 | 102 | % | 0.8 | | | | 0.81% |
| Y 371.029 | 696155.4 | 102 | % | 0.8 | | | | 0.75% |
| Ag 328.068† | -56.7 | -0.0001185 | mg/L | 0.00019667 | -0.0001185 | mg/L | 0.00019667 | 165.97% |
| Al 308.215† | -82.6 | -0.0127882 | mg/L | 0.00206147 | -0.0127882 | mg/L | 0.00206147 | 16.12% |
| As 188.979† | 3.7 | 0.0044117 | mg/L | 0.00292244 | 0.0044117 | mg/L | 0.00292244 | 66.24% |
| Ba 233.527† | 16.5 | -0.0012227 | mg/L | 0.00021327 | -0.0012227 | mg/L | 0.00021327 | 17.44% |
| Be 313.107† | -87.0 | 0.0002332 | mg/L | 0.00003360 | 0.0002332 | mg/L | 0.00003360 | 14.41% |
| Ca 315.887† | 3750.9 | -0.0715268 | mg/L | 0.00078703 | -0.0715268 | mg/L | 0.00078703 | 1.10% |
| Cd 228.802† | 2.0 | 0.0010872 | mg/L | 0.00017719 | 0.0010872 | mg/L | 0.00017719 | 16.30% |
| Co 228.616† | 3.1 | -0.0007418 | mg/L | 0.00008302 | -0.0007418 | mg/L | 0.00008302 | 11.19% |
| Cr 267.716† | 0.5 | -0.0013277 | mg/L | 0.00014473 | -0.0013277 | mg/L | 0.00014473 | 10.90% |
| Cu 327.393† | 54.5 | -0.0009131 | mg/L | 0.00026649 | -0.0009131 | mg/L | 0.00026649 | 29.18% |
| Fe 273.955† | -45.1 | -0.0160431 | mg/L | 0.00037939 | -0.0160431 | mg/L | 0.00037939 | 2.36% |
| K 404.721† | 11.3 | -0.488262 | mg/L | 0.1292600 | -0.488262 | mg/L | 0.1292600 | 26.47% |
| Mg 279.077† | 37.1 | -0.263908 | mg/L | 0.0015878 | -0.263908 | mg/L | 0.0015878 | 0.60% |
| Mn 257.610† | 1150.0 | 0.0000989 | mg/L | 0.00009382 | 0.0000989 | mg/L | 0.00009382 | 94.83% |
| Mo 202.031† | -0.6 | 0.0002163 | mg/L | 0.00040614 | 0.0002163 | mg/L | 0.00040614 | 187.78% |
| Na 330.237† | -74.1 | 0.810664 | mg/L | 0.0515620 | 0.810664 | mg/L | 0.0515620 | 6.36% |
| Ni 231.604† | 49.7 | -0.0000577 | mg/L | 0.00052504 | -0.0000577 | mg/L | 0.00052504 | 910.15% |
| Pb 220.353† | -6.9 | -0.0006482 | mg/L | 0.00189849 | -0.0006482 | mg/L | 0.00189849 | 292.87% |
| Sb 206.836† | -2.1 | -0.0002287 | mg/L | 0.00361166 | -0.0002287 | mg/L | 0.00361166 | >999.9% |
| Se 196.026† | -0.1 | 0.0003546 | mg/L | 0.00633481 | 0.0003546 | mg/L | 0.00633481 | >999.9% |
| Sn 189.927† | -2.5 | -0.0025692 | mg/L | 0.00101087 | -0.0025692 | mg/L | 0.00101087 | 39.35% |
| Ti 334.940† | 73.0 | 0.0008980 | mg/L | 0.00011706 | 0.0008980 | mg/L | 0.00011706 | 13.04% |
| Tl 190.801† | 0.8 | 0.0025402 | mg/L | 0.00228125 | 0.0025402 | mg/L | 0.00228125 | 89.81% |
| V 290.880† | 116.6 | 0.0010222 | mg/L | 0.00049825 | 0.0010222 | mg/L | 0.00049825 | 48.74% |
| Zn 206.200† | 461.4 | 0.0129149 | mg/L | 0.00026212 | 0.0129149 | mg/L | 0.00026212 | 2.03% |
| Si 251.611† | 80.2 | -0.119167 | mg/L | 0.0013441 | -0.119167 | mg/L | 0.0013441 | 1.13% |
| B 249.772† | -762.3 | -0.0045616 | mg/L | 0.00021323 | -0.0045616 | mg/L | 0.00021323 | 4.67% |
| Ce 413.764 | 10.6 | -0.0166372 | mg/L | 0.00115500 | -0.0166372 | mg/L | 0.00115500 | 6.94% |

Sequence No.: 16
Sample ID: LCS 94427
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 9/28/2021 12:48:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS 94427

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 557797.5 | 94.2 | % | 0.69 | | | | 0.73% |
| Y 371.029 | 626205.0 | 92.0 | % | 0.65 | | | | 0.70% |
| Ag 328.068† | 17472.3 | 0.0974131 | mg/L | 0.00034198 | 0.0974131 | mg/L | 0.00034198 | 0.35% |
| Al 308.215† | 156467.8 | 5.03862 | mg/L | 0.018504 | 5.03862 | mg/L | 0.018504 | 0.37% |
| As 188.979† | 496.3 | 0.500042 | mg/L | 0.0097516 | 0.500042 | mg/L | 0.0097516 | 1.95% |
| Ba 233.527† | 45965.7 | 0.501212 | mg/L | 0.0017062 | 0.501212 | mg/L | 0.0017062 | 0.34% |
| Be 313.107† | 1623022.9 | 0.500503 | mg/L | 0.0043036 | 0.500503 | mg/L | 0.0043036 | 0.86% |
| Ca 315.887† | 6872063.0 | 50.0197 | mg/L | 0.39452 | 50.0197 | mg/L | 0.39452 | 0.79% |
| Cd 228.802† | 27827.9 | 0.504430 | mg/L | 0.0031100 | 0.504430 | mg/L | 0.0031100 | 0.62% |
| Co 228.616† | 18750.9 | 0.506736 | mg/L | 0.0033131 | 0.506736 | mg/L | 0.0033131 | 0.65% |
| Cr 267.716† | 61023.5 | 0.506633 | mg/L | 0.0008488 | 0.506633 | mg/L | 0.0008488 | 0.17% |
| Cu 327.393† | 61143.1 | 0.505348 | mg/L | 0.0007195 | 0.505348 | mg/L | 0.0007195 | 0.14% |
| Fe 273.955† | 159604.3 | 5.03853 | mg/L | 0.016234 | 5.03853 | mg/L | 0.016234 | 0.32% |
| K 404.721† | 6553.1 | 48.0762 | mg/L | 0.87077 | 48.0762 | mg/L | 0.87077 | 1.81% |
| Mg 279.077† | 1093195.9 | 50.1038 | mg/L | 0.36630 | 50.1038 | mg/L | 0.36630 | 0.73% |
| Mn 257.610† | 447323.5 | 0.501712 | mg/L | 0.0016971 | 0.501712 | mg/L | 0.0016971 | 0.34% |
| Mo 202.031† | 3851.5 | 0.506053 | mg/L | 0.0042612 | 0.506053 | mg/L | 0.0042612 | 0.84% |
| Na 330.237† | 67247.2 | 48.1294 | mg/L | 0.12735 | 48.1294 | mg/L | 0.12735 | 0.26% |
| Ni 231.604† | 13881.3 | 0.511747 | mg/L | 0.0030753 | 0.511747 | mg/L | 0.0030753 | 0.60% |
| Pb 220.353† | 1827.1 | 0.504441 | mg/L | 0.0046436 | 0.504441 | mg/L | 0.0046436 | 0.92% |
| Sb 206.836† | 769.3 | 0.497144 | mg/L | 0.0019509 | 0.497144 | mg/L | 0.0019509 | 0.39% |
| Se 196.026† | 437.6 | 0.490992 | mg/L | 0.0128394 | 0.490992 | mg/L | 0.0128394 | 2.61% |
| Sn 189.927† | 1845.5 | 0.498712 | mg/L | 0.0049309 | 0.498712 | mg/L | 0.0049309 | 0.99% |
| Ti 334.940† | 426941.8 | 0.498637 | mg/L | 0.0015987 | 0.498637 | mg/L | 0.0015987 | 0.32% |
| Tl 190.801† | 331.5 | 0.507439 | mg/L | 0.0041740 | 0.507439 | mg/L | 0.0041740 | 0.82% |
| V 290.880† | 81286.8 | 0.503240 | mg/L | 0.0018183 | 0.503240 | mg/L | 0.0018183 | 0.36% |
| Zn 206.200† | 18533.0 | 0.504814 | mg/L | 0.0032993 | 0.504814 | mg/L | 0.0032993 | 0.65% |
| Si 251.611† | 23339.9 | 0.457059 | mg/L | 0.0007308 | 0.457059 | mg/L | 0.0007308 | 0.16% |
| B 249.772† | 42974.7 | 0.472994 | mg/L | 0.0049362 | 0.472994 | mg/L | 0.0049362 | 1.04% |
| Ce 413.764 | 30715.8 | 0.543191 | mg/L | 0.0051239 | 0.543191 | mg/L | 0.0051239 | 0.94% |

Sequence No.: 17
Sample ID: LCS MR 94427
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 9/28/2021 12:52:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS MR 94427

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 555792.2 | 93.9 | % | 0.06 | | | | 0.07% |
| Y 371.029 | 623089.3 | 91.6 | % | 0.10 | | | | 0.11% |
| Ag 328.068† | 17911.8 | 0.0998541 | mg/L | 0.00029702 | 0.0998541 | mg/L | 0.00029702 | 0.30% |
| Al 308.215† | 160245.2 | 5.16051 | mg/L | 0.006681 | 5.16051 | mg/L | 0.006681 | 0.13% |
| As 188.979† | 504.3 | 0.508118 | mg/L | 0.0040410 | 0.508118 | mg/L | 0.0040410 | 0.80% |
| Ba 233.527† | 47067.5 | 0.513260 | mg/L | 0.0009719 | 0.513260 | mg/L | 0.0009719 | 0.19% |
| Be 313.107† | 1668112.2 | 0.514400 | mg/L | 0.0034170 | 0.514400 | mg/L | 0.0034170 | 0.66% |
| Ca 315.887† | 7072903.2 | 51.4845 | mg/L | 0.31986 | 51.4845 | mg/L | 0.31986 | 0.62% |
| Cd 228.802† | 28370.4 | 0.514259 | mg/L | 0.0023927 | 0.514259 | mg/L | 0.0023927 | 0.47% |
| Co 228.616† | 19174.5 | 0.518204 | mg/L | 0.0027474 | 0.518204 | mg/L | 0.0027474 | 0.53% |
| Cr 267.716† | 62431.0 | 0.518349 | mg/L | 0.0008772 | 0.518349 | mg/L | 0.0008772 | 0.17% |
| Cu 327.393† | 62541.9 | 0.516940 | mg/L | 0.0011430 | 0.516940 | mg/L | 0.0011430 | 0.22% |
| Fe 273.955† | 163547.0 | 5.16336 | mg/L | 0.005960 | 5.16336 | mg/L | 0.005960 | 0.12% |
| K 404.721† | 6774.7 | 49.7220 | mg/L | 0.71312 | 49.7220 | mg/L | 0.71312 | 1.43% |
| Mg 279.077† | 1126386.5 | 51.6331 | mg/L | 0.34583 | 51.6331 | mg/L | 0.34583 | 0.67% |
| Mn 257.610† | 457718.7 | 0.513399 | mg/L | 0.0008239 | 0.513399 | mg/L | 0.0008239 | 0.16% |
| Mo 202.031† | 3941.4 | 0.517856 | mg/L | 0.0026238 | 0.517856 | mg/L | 0.0026238 | 0.51% |
| Na 330.237† | 68909.3 | 49.2976 | mg/L | 0.03581 | 49.2976 | mg/L | 0.03581 | 0.07% |
| Ni 231.604† | 14172.8 | 0.522532 | mg/L | 0.0028981 | 0.522532 | mg/L | 0.0028981 | 0.55% |
| Pb 220.353† | 1863.3 | 0.514464 | mg/L | 0.0017476 | 0.514464 | mg/L | 0.0017476 | 0.34% |
| Sb 206.836† | 780.8 | 0.504629 | mg/L | 0.0049022 | 0.504629 | mg/L | 0.0049022 | 0.97% |
| Se 196.026† | 450.7 | 0.505675 | mg/L | 0.0069329 | 0.505675 | mg/L | 0.0069329 | 1.37% |
| Sn 189.927† | 1894.1 | 0.511898 | mg/L | 0.0045786 | 0.511898 | mg/L | 0.0045786 | 0.89% |
| Ti 334.940† | 436477.0 | 0.509755 | mg/L | 0.0006717 | 0.509755 | mg/L | 0.0006717 | 0.13% |
| Tl 190.801† | 344.6 | 0.527459 | mg/L | 0.0039445 | 0.527459 | mg/L | 0.0039445 | 0.75% |
| V 290.880† | 83256.2 | 0.515425 | mg/L | 0.0011126 | 0.515425 | mg/L | 0.0011126 | 0.22% |
| Zn 206.200† | 19075.6 | 0.519582 | mg/L | 0.0034311 | 0.519582 | mg/L | 0.0034311 | 0.66% |
| Si 251.611† | 23661.5 | 0.465052 | mg/L | 0.0008133 | 0.465052 | mg/L | 0.0008133 | 0.17% |
| B 249.772† | 44368.8 | 0.488356 | mg/L | 0.0038355 | 0.488356 | mg/L | 0.0038355 | 0.79% |
| Ce 413.764 | 31197.9 | 0.551981 | mg/L | 0.0011869 | 0.551981 | mg/L | 0.0011869 | 0.22% |

Sequence No.: 18
Sample ID: AD26083-048
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 9/28/2021 12:56:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-048

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 468015.8 | 79.1 | % | 0.09 | | | | 0.11% |
| Y 371.029 | 516688.4 | 75.9 | % | 0.05 | | | | 0.07% |
| Ag 328.068† | -725.9 | -0.0020138 | mg/L | 0.00024760 | -0.0020138 | mg/L | 0.00024760 | 12.29% |
| Al 308.215† | 6213.0 | 0.190353 | mg/L | 0.0159139 | 0.190353 | mg/L | 0.0159139 | 8.36% |
| As 188.979† | 23.1 | 0.0238440 | mg/L | 0.00631046 | 0.0238440 | mg/L | 0.00631046 | 26.47% |
| Ba 233.527† | 31267.6 | 0.340495 | mg/L | 0.0011260 | 0.340495 | mg/L | 0.0011260 | 0.33% |
| Be 313.107† | -843.6 | 0.0000000 | mg/L | 0.00002828 | 0.0000000 | mg/L | 0.00002828 | >999.9% |
| Ca 315.887† | 22859032.4 | 166.614 | mg/L | 0.4246 | 166.614 | mg/L | 0.4246 | 0.25% |
| Cd 228.802† | -748.8 | -0.0057724 | mg/L | 0.00045406 | -0.0057724 | mg/L | 0.00045406 | 7.87% |
| Co 228.616† | 226.6 | 0.0062587 | mg/L | 0.00014093 | 0.0062587 | mg/L | 0.00014093 | 2.25% |
| Cr 267.716† | 617.3 | 0.0038069 | mg/L | 0.00009266 | 0.0038069 | mg/L | 0.00009266 | 2.43% |
| Cu 327.393† | -2955.0 | -0.0270123 | mg/L | 0.00150688 | -0.0270123 | mg/L | 0.00150688 | 5.58% |
| Fe 273.955† | 864760.6 | 27.3641 | mg/L | 0.10495 | 27.3641 | mg/L | 0.10495 | 0.38% |
| K 404.721† | 15181.2 | 112.130 | mg/L | 0.7768 | 112.130 | mg/L | 0.7768 | 0.69% |
| Mg 279.077† | 5930999.0 | 273.007 | mg/L | 0.9402 | 273.007 | mg/L | 0.9402 | 0.34% |
| Mn 257.610† | 2197518.2 | 2.46938 | mg/L | 0.009674 | 2.46938 | mg/L | 0.009674 | 0.39% |
| Mo 202.031† | -27.3 | -0.0032644 | mg/L | 0.00137036 | -0.0032644 | mg/L | 0.00137036 | 41.98% |
| Na 330.237† | 4587582.8 | 3225.38 | mg/L | 8.152 | 3225.38 | mg/L | 8.152 | 0.25% |
| Ni 231.604† | -376.5 | -0.0158272 | mg/L | 0.00013793 | -0.0158272 | mg/L | 0.00013793 | 0.87% |
| Pb 220.353† | -219.9 | -0.0493531 | mg/L | 0.00409803 | -0.0493531 | mg/L | 0.00409803 | 8.30% |
| Sb 206.836† | -43.6 | -0.0266526 | mg/L | 0.00326607 | -0.0266526 | mg/L | 0.00326607 | 12.25% |
| Se 196.026† | 49.6 | 0.0575451 | mg/L | 0.00281777 | 0.0575451 | mg/L | 0.00281777 | 4.90% |
| Sn 189.927† | -57.3 | -0.0174418 | mg/L | 0.00032206 | -0.0174418 | mg/L | 0.00032206 | 1.85% |
| Ti 334.940† | 5939.6 | 0.0077386 | mg/L | 0.00170127 | 0.0077386 | mg/L | 0.00170127 | 21.98% |
| Tl 190.801† | -0.9 | 0.0112497 | mg/L | 0.00912030 | 0.0112497 | mg/L | 0.00912030 | 81.07% |
| V 290.880† | 313.7 | 0.0022417 | mg/L | 0.00015550 | 0.0022417 | mg/L | 0.00015550 | 6.94% |
| Zn 206.200† | 1081.3 | 0.0297875 | mg/L | 0.00035665 | 0.0297875 | mg/L | 0.00035665 | 1.20% |
| Si 251.611† | 356847.7 | 8.69667 | mg/L | 0.029925 | 8.69667 | mg/L | 0.029925 | 0.34% |
| B 249.772† | 157404.3 | 1.68741 | mg/L | 0.026342 | 1.68741 | mg/L | 0.026342 | 1.56% |
| Ce 413.764 | -147.7 | -0.0195234 | mg/L | 0.00059843 | -0.0195234 | mg/L | 0.00059843 | 3.07% |

Sequence No.: 19
Sample ID: AD26083-048 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 9/28/2021 1:02:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-048 MR

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 461742.6 | 78.0 | % | 1.32 | | | | 1.69% |
| Y 371.029 | 509686.2 | 74.9 | % | 1.17 | | | | 1.57% |
| Ag 328.068† | -767.7 | -0.0022561 | mg/L | 0.00056155 | -0.0022561 | mg/L | 0.00056155 | 24.89% |
| Al 308.215† | 5585.7 | 0.170113 | mg/L | 0.0061311 | 0.170113 | mg/L | 0.0061311 | 3.60% |
| As 188.979† | 21.8 | 0.0225787 | mg/L | 0.00304784 | 0.0225787 | mg/L | 0.00304784 | 13.50% |
| Ba 233.527† | 30720.4 | 0.334511 | mg/L | 0.0034556 | 0.334511 | mg/L | 0.0034556 | 1.03% |
| Be 313.107† | -891.8 | -0.0000148 | mg/L | 0.00004761 | -0.0000148 | mg/L | 0.00004761 | 321.07% |
| Ca 315.887† | 22935845.1 | 167.174 | mg/L | 0.7606 | 167.174 | mg/L | 0.7606 | 0.45% |
| Cd 228.802† | -783.3 | -0.0064568 | mg/L | 0.00050352 | -0.0064568 | mg/L | 0.00050352 | 7.80% |
| Co 228.616† | 217.4 | 0.0060004 | mg/L | 0.00013918 | 0.0060004 | mg/L | 0.00013918 | 2.32% |
| Cr 267.716† | 604.8 | 0.0037027 | mg/L | 0.00025109 | 0.0037027 | mg/L | 0.00025109 | 6.78% |
| Cu 327.393† | -3070.7 | -0.0279466 | mg/L | 0.00136488 | -0.0279466 | mg/L | 0.00136488 | 4.88% |
| Fe 273.955† | 858596.3 | 27.1690 | mg/L | 0.27695 | 27.1690 | mg/L | 0.27695 | 1.02% |
| K 404.721† | 15172.2 | 112.063 | mg/L | 1.5710 | 112.063 | mg/L | 1.5710 | 1.40% |
| Mg 279.077† | 5898216.2 | 271.497 | mg/L | 2.9894 | 271.497 | mg/L | 2.9894 | 1.10% |
| Mn 257.610† | 2181495.6 | 2.45137 | mg/L | 0.025843 | 2.45137 | mg/L | 0.025843 | 1.05% |
| Mo 202.031† | -30.5 | -0.0036887 | mg/L | 0.00051920 | -0.0036887 | mg/L | 0.00051920 | 14.08% |
| Na 330.237† | 4590165.6 | 3227.19 | mg/L | 7.504 | 3227.19 | mg/L | 7.504 | 0.23% |
| Ni 231.604† | -434.8 | -0.0179849 | mg/L | 0.00069830 | -0.0179849 | mg/L | 0.00069830 | 3.88% |
| Pb 220.353† | -239.6 | -0.0547865 | mg/L | 0.00428108 | -0.0547865 | mg/L | 0.00428108 | 7.81% |
| Sb 206.836† | -46.0 | -0.0282167 | mg/L | 0.00288969 | -0.0282167 | mg/L | 0.00288969 | 10.24% |
| Se 196.026† | 55.1 | 0.0637119 | mg/L | 0.01194935 | 0.0637119 | mg/L | 0.01194935 | 18.76% |
| Sn 189.927† | -66.3 | -0.0198948 | mg/L | 0.00126038 | -0.0198948 | mg/L | 0.00126038 | 6.34% |
| Ti 334.940† | 3374.6 | 0.0047478 | mg/L | 0.00006434 | 0.0047478 | mg/L | 0.00006434 | 1.36% |
| Tl 190.801† | 1.3 | 0.0147267 | mg/L | 0.00383297 | 0.0147267 | mg/L | 0.00383297 | 26.03% |
| V 290.880† | 334.5 | 0.0023702 | mg/L | 0.00044169 | 0.0023702 | mg/L | 0.00044169 | 18.63% |
| Zn 206.200† | 1115.0 | 0.0307063 | mg/L | 0.00014351 | 0.0307063 | mg/L | 0.00014351 | 0.47% |
| Si 251.611† | 351021.3 | 8.55281 | mg/L | 0.013950 | 8.55281 | mg/L | 0.013950 | 0.16% |
| B 249.772† | 157262.8 | 1.68656 | mg/L | 0.015175 | 1.68656 | mg/L | 0.015175 | 0.90% |
| Ce 413.764 | -66.3 | -0.0180409 | mg/L | 0.00129689 | -0.0180409 | mg/L | 0.00129689 | 7.19% |

Sequence No.: 20
Sample ID: AD26083-049 MS 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 9/28/2021 1:07:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-049 MS 1

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 461466.5 | 78.0 | % | 0.85 | | | | 1.09% |
| Y 371.029 | 511213.4 | 75.1 | % | 0.82 | | | | 1.09% |
| Ag 328.068† | 16237.1 | 0.0928040 | mg/L | 0.00047563 | 0.0928040 | mg/L | 0.00047563 | 0.51% |
| Al 308.215† | 692902.8 | 22.3478 | mg/L | 0.12614 | 22.3478 | mg/L | 0.12614 | 0.56% |
| As 188.979† | 536.3 | 0.539086 | mg/L | 0.0076934 | 0.539086 | mg/L | 0.0076934 | 1.43% |
| Ba 233.527† | 73284.1 | 0.799928 | mg/L | 0.0047426 | 0.799928 | mg/L | 0.0047426 | 0.59% |
| Be 313.107† | 1503083.8 | 0.463536 | mg/L | 0.0051058 | 0.463536 | mg/L | 0.0051058 | 1.10% |
| Ca 315.887† | 35843821.8 | 261.314 | mg/L | 2.0809 | 261.314 | mg/L | 2.0809 | 0.80% |
| Cd 228.802† | 26011.2 | 0.480500 | mg/L | 0.0048349 | 0.480500 | mg/L | 0.0048349 | 1.01% |
| Co 228.616† | 18086.7 | 0.488058 | mg/L | 0.0042996 | 0.488058 | mg/L | 0.0042996 | 0.88% |
| Cr 267.716† | 58245.3 | 0.483507 | mg/L | 0.0029142 | 0.483507 | mg/L | 0.0029142 | 0.60% |
| Cu 327.393† | 58362.9 | 0.481525 | mg/L | 0.0027898 | 0.481525 | mg/L | 0.0027898 | 0.58% |
| Fe 273.955† | 1268804.3 | 40.1564 | mg/L | 0.46334 | 40.1564 | mg/L | 0.46334 | 1.15% |
| K 404.721† | 22292.2 | 164.921 | mg/L | 1.6165 | 164.921 | mg/L | 1.6165 | 0.98% |
| Mg 279.077† | 7329674.6 | 337.452 | mg/L | 4.3502 | 337.452 | mg/L | 4.3502 | 1.29% |
| Mn 257.610† | 2838076.3 | 3.18953 | mg/L | 0.036486 | 3.18953 | mg/L | 0.036486 | 1.14% |
| Mo 202.031† | 3450.7 | 0.454799 | mg/L | 0.0025379 | 0.454799 | mg/L | 0.0025379 | 0.56% |
| Na 330.237† | 4636134.8 | 3259.50 | mg/L | 30.000 | 3259.50 | mg/L | 30.000 | 0.92% |
| Ni 231.604† | 13674.1 | 0.504079 | mg/L | 0.0043555 | 0.504079 | mg/L | 0.0043555 | 0.86% |
| Pb 220.353† | 1400.9 | 0.406000 | mg/L | 0.0034692 | 0.406000 | mg/L | 0.0034692 | 0.85% |
| Sb 206.836† | 662.0 | 0.434130 | mg/L | 0.0077435 | 0.434130 | mg/L | 0.0077435 | 1.78% |
| Se 196.026† | 488.5 | 0.547344 | mg/L | 0.0204975 | 0.547344 | mg/L | 0.0204975 | 3.74% |
| Sn 189.927† | 1670.6 | 0.451277 | mg/L | 0.0056308 | 0.451277 | mg/L | 0.0056308 | 1.25% |
| Ti 334.940† | 949193.6 | 1.10759 | mg/L | 0.005480 | 1.10759 | mg/L | 0.005480 | 0.49% |
| Tl 190.801† | 287.3 | 0.456106 | mg/L | 0.0060806 | 0.456106 | mg/L | 0.0060806 | 1.33% |
| V 290.880† | 81267.2 | 0.503119 | mg/L | 0.0026485 | 0.503119 | mg/L | 0.0026485 | 0.53% |
| Zn 206.200† | 21296.1 | 0.580023 | mg/L | 0.0074299 | 0.580023 | mg/L | 0.0074299 | 1.28% |
| Si 251.611† | 1685298.1 | 41.4829 | mg/L | 0.46099 | 41.4829 | mg/L | 0.46099 | 1.11% |
| B 249.772† | 192109.2 | 2.03257 | mg/L | 0.030710 | 2.03257 | mg/L | 0.030710 | 1.51% |
| Ce 413.764 | 23384.2 | 0.409518 | mg/L | 0.0027649 | 0.409518 | mg/L | 0.0027649 | 0.68% |

Sequence No.: 21
Sample ID: AD26083-050 MS 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 9/28/2021 1:13:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-050 MS 2

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 472908.3 | 79.9 | % | 0.54 | | | | 0.67% |
| Y 371.029 | 524097.2 | 77.0 | % | 0.48 | | | | 0.62% |
| Ag 328.068† | 15966.4 | 0.0921123 | mg/L | 0.00056182 | 0.0921123 | mg/L | 0.00056182 | 0.61% |
| Al 308.215† | 979641.1 | 31.6000 | mg/L | 0.83171 | 31.6000 | mg/L | 0.83171 | 2.63% |
| As 188.979† | 555.7 | 0.558036 | mg/L | 0.0094713 | 0.558036 | mg/L | 0.0094713 | 1.70% |
| Ba 233.527† | 74570.1 | 0.813990 | mg/L | 0.0001832 | 0.813990 | mg/L | 0.0001832 | 0.02% |
| Be 313.107† | 1525315.7 | 0.470388 | mg/L | 0.0137490 | 0.470388 | mg/L | 0.0137490 | 2.92% |
| Ca 315.887† | 38883433.5 | 283.482 | mg/L | 7.3826 | 283.482 | mg/L | 7.3826 | 2.60% |
| Cd 228.802† | 26220.8 | 0.487397 | mg/L | 0.0071997 | 0.487397 | mg/L | 0.0071997 | 1.48% |
| Co 228.616† | 18524.7 | 0.498998 | mg/L | 0.0071272 | 0.498998 | mg/L | 0.0071272 | 1.43% |
| Cr 267.716† | 60267.2 | 0.500338 | mg/L | 0.0013153 | 0.500338 | mg/L | 0.0013153 | 0.26% |
| Cu 327.393† | 59579.9 | 0.491721 | mg/L | 0.0019325 | 0.491721 | mg/L | 0.0019325 | 0.39% |
| Fe 273.955† | 1644365.8 | 52.0468 | mg/L | 1.57418 | 52.0468 | mg/L | 1.57418 | 3.02% |
| K 404.721† | 22060.4 | 163.200 | mg/L | 1.6107 | 163.200 | mg/L | 1.6107 | 0.99% |
| Mg 279.077† | 7624455.6 | 351.034 | mg/L | 11.3224 | 351.034 | mg/L | 11.3224 | 3.23% |
| Mn 257.610† | 3077674.2 | 3.45890 | mg/L | 0.101679 | 3.45890 | mg/L | 0.101679 | 2.94% |
| Mo 202.031† | 3469.0 | 0.457921 | mg/L | 0.0046099 | 0.457921 | mg/L | 0.0046099 | 1.01% |
| Na 330.237† | 4639565.1 | 3261.92 | mg/L | 79.657 | 3261.92 | mg/L | 79.657 | 2.44% |
| Ni 231.604† | 14344.6 | 0.528889 | mg/L | 0.0064009 | 0.528889 | mg/L | 0.0064009 | 1.21% |
| Pb 220.353† | 1445.2 | 0.422893 | mg/L | 0.0062967 | 0.422893 | mg/L | 0.0062967 | 1.49% |
| Sb 206.836† | 655.1 | 0.432871 | mg/L | 0.0062463 | 0.432871 | mg/L | 0.0062463 | 1.44% |
| Se 196.026† | 503.3 | 0.563212 | mg/L | 0.0174633 | 0.563212 | mg/L | 0.0174633 | 3.10% |
| Sn 189.927† | 1711.3 | 0.462319 | mg/L | 0.0091929 | 0.462319 | mg/L | 0.0091929 | 1.99% |
| Ti 334.940† | 1270373.1 | 1.48210 | mg/L | 0.038796 | 1.48210 | mg/L | 0.038796 | 2.62% |
| Tl 190.801† | 291.1 | 0.464325 | mg/L | 0.0129400 | 0.464325 | mg/L | 0.0129400 | 2.79% |
| V 290.880† | 84331.2 | 0.522076 | mg/L | 0.0005305 | 0.522076 | mg/L | 0.0005305 | 0.10% |
| Zn 206.200† | 22982.9 | 0.625938 | mg/L | 0.0111433 | 0.625938 | mg/L | 0.0111433 | 1.78% |
| Si 251.611† | 2377857.6 | 58.5777 | mg/L | 1.69806 | 58.5777 | mg/L | 1.69806 | 2.90% |
| B 249.772† | 191777.2 | 1.98305 | mg/L | 0.019825 | 1.98305 | mg/L | 0.019825 | 1.00% |
| Ce 413.764 | 24868.1 | 0.436572 | mg/L | 0.0027924 | 0.436572 | mg/L | 0.0027924 | 0.64% |

Sequence No.: 22
Sample ID: AD26083-048 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 9/28/2021 1:19:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-048 PS

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 454434.0 | 76.8 | % | 1.03 | | | | 1.34% |
| Y 371.029 | 501723.3 | 73.7 | % | 1.01 | | | | 1.36% |
| Ag 328.068† | 10577.0 | 0.0610281 | mg/L | 0.00031985 | 0.0610281 | mg/L | 0.00031985 | 0.52% |
| Al 308.215† | 172728.3 | 5.56330 | mg/L | 0.005024 | 5.56330 | mg/L | 0.005024 | 0.09% |
| As 188.979† | 620.3 | 0.624854 | mg/L | 0.0117549 | 0.624854 | mg/L | 0.0117549 | 1.88% |
| Ba 233.527† | 82962.3 | 0.905755 | mg/L | 0.0019716 | 0.905755 | mg/L | 0.0019716 | 0.22% |
| Be 313.107† | 1824875.9 | 0.562718 | mg/L | 0.0046983 | 0.562718 | mg/L | 0.0046983 | 0.83% |
| Ca 315.887† | 29813411.2 | 217.333 | mg/L | 3.1862 | 217.333 | mg/L | 3.1862 | 1.47% |
| Cd 228.802† | 32409.3 | 0.593408 | mg/L | 0.0046601 | 0.593408 | mg/L | 0.0046601 | 0.79% |
| Co 228.616† | 21402.2 | 0.579472 | mg/L | 0.0052620 | 0.579472 | mg/L | 0.0052620 | 0.91% |
| Cr 267.716† | 67494.6 | 0.560500 | mg/L | 0.0016385 | 0.560500 | mg/L | 0.0016385 | 0.29% |
| Cu 327.393† | 67819.2 | 0.559563 | mg/L | 0.0018595 | 0.559563 | mg/L | 0.0018595 | 0.33% |
| Fe 273.955† | 1016227.7 | 32.1597 | mg/L | 0.28095 | 32.1597 | mg/L | 0.28095 | 0.87% |
| K 404.721† | 25085.7 | 185.659 | mg/L | 0.6458 | 185.659 | mg/L | 0.6458 | 0.35% |
| Mg 279.077† | 6945793.8 | 319.765 | mg/L | 2.9327 | 319.765 | mg/L | 2.9327 | 0.92% |
| Mn 257.610† | 2633897.6 | 2.95998 | mg/L | 0.024645 | 2.95998 | mg/L | 0.024645 | 0.83% |
| Mo 202.031† | 4327.5 | 0.568541 | mg/L | 0.0059962 | 0.568541 | mg/L | 0.0059962 | 1.05% |
| Na 330.237† | 4631489.7 | 3256.24 | mg/L | 30.444 | 3256.24 | mg/L | 30.444 | 0.93% |
| Ni 231.604† | 15215.6 | 0.561117 | mg/L | 0.0040365 | 0.561117 | mg/L | 0.0040365 | 0.72% |
| Pb 220.353† | 1737.2 | 0.489414 | mg/L | 0.0026909 | 0.489414 | mg/L | 0.0026909 | 0.55% |
| Sb 206.836† | 869.6 | 0.561753 | mg/L | 0.0027897 | 0.561753 | mg/L | 0.0027897 | 0.50% |
| Se 196.026† | 594.4 | 0.668324 | mg/L | 0.0135416 | 0.668324 | mg/L | 0.0135416 | 2.03% |
| Sn 189.927† | 2064.9 | 0.558233 | mg/L | 0.0091252 | 0.558233 | mg/L | 0.0091252 | 1.63% |
| Ti 334.940† | 479441.4 | 0.559852 | mg/L | 0.0013232 | 0.559852 | mg/L | 0.0013232 | 0.24% |
| Tl 190.801† | 360.8 | 0.562839 | mg/L | 0.0099200 | 0.562839 | mg/L | 0.0099200 | 1.76% |
| V 290.880† | 91922.2 | 0.569044 | mg/L | 0.0010098 | 0.569044 | mg/L | 0.0010098 | 0.18% |
| Zn 206.200† | 22823.5 | 0.621598 | mg/L | 0.0052620 | 0.621598 | mg/L | 0.0052620 | 0.85% |
| Si 251.611† | 380972.0 | 9.29411 | mg/L | 0.010764 | 9.29411 | mg/L | 0.010764 | 0.12% |
| B 249.772† | 204816.7 | 2.20773 | mg/L | 0.006437 | 2.20773 | mg/L | 0.006437 | 0.29% |
| Ce 413.764 | 23419.8 | 0.410168 | mg/L | 0.0066897 | 0.410168 | mg/L | 0.0066897 | 1.63% |

Sequence No.: 23
Sample ID: AD26083-048 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 9/28/2021 1:25:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-048 SD

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 515978.8 | 87.2 | % | 0.59 | | | | 0.67% |
| Y 371.029 | 575910.9 | 84.6 | % | 0.56 | | | | 0.66% |
| Ag 328.068† | -240.6 | -0.0007848 | mg/L | 0.00014488 | -0.0007848 | mg/L | 0.00014488 | 18.46% |
| Al 308.215† | 2062.3 | 0.0564212 | mg/L | 0.00389235 | 0.0564212 | mg/L | 0.00389235 | 6.90% |
| As 188.979† | 13.7 | 0.0143854 | mg/L | 0.00423137 | 0.0143854 | mg/L | 0.00423137 | 29.41% |
| Ba 233.527† | 5734.6 | 0.0613020 | mg/L | 0.00056007 | 0.0613020 | mg/L | 0.00056007 | 0.91% |
| Be 313.107† | -194.2 | 0.0002002 | mg/L | 0.00003170 | 0.0002002 | mg/L | 0.00003170 | 15.83% |
| Ca 315.887† | 4460578.1 | 32.4326 | mg/L | 0.10689 | 32.4326 | mg/L | 0.10689 | 0.33% |
| Cd 228.802† | -381.2 | -0.0046012 | mg/L | 0.00033737 | -0.0046012 | mg/L | 0.00033737 | 7.33% |
| Co 228.616† | 115.4 | 0.0024740 | mg/L | 0.00026732 | 0.0024740 | mg/L | 0.00026732 | 10.80% |
| Cr 267.716† | 70.3 | -0.0007468 | mg/L | 0.00011818 | -0.0007468 | mg/L | 0.00011818 | 15.82% |
| Cu 327.393† | -1862.9 | -0.0170328 | mg/L | 0.00023808 | -0.0170328 | mg/L | 0.00023808 | 1.40% |
| Fe 273.955† | 167298.9 | 5.28215 | mg/L | 0.021233 | 5.28215 | mg/L | 0.021233 | 0.40% |
| K 404.721† | 2512.8 | 18.0824 | mg/L | 0.81438 | 18.0824 | mg/L | 0.81438 | 4.50% |
| Mg 279.077† | 1164350.9 | 53.3823 | mg/L | 0.22603 | 53.3823 | mg/L | 0.22603 | 0.42% |
| Mn 257.610† | 420663.8 | 0.471740 | mg/L | 0.0021462 | 0.471740 | mg/L | 0.0021462 | 0.45% |
| Mo 202.031† | -32.7 | -0.0039882 | mg/L | 0.00060685 | -0.0039882 | mg/L | 0.00060685 | 15.22% |
| Na 330.237† | 889090.0 | 625.785 | mg/L | 2.7604 | 625.785 | mg/L | 2.7604 | 0.44% |
| Ni 231.604† | -343.4 | -0.0146052 | mg/L | 0.00106545 | -0.0146052 | mg/L | 0.00106545 | 7.30% |
| Pb 220.353† | -210.9 | -0.0545166 | mg/L | 0.00098034 | -0.0545166 | mg/L | 0.00098034 | 1.80% |
| Sb 206.836† | -40.1 | -0.0244505 | mg/L | 0.00194452 | -0.0244505 | mg/L | 0.00194452 | 7.95% |
| Se 196.026† | 44.2 | 0.0503397 | mg/L | 0.00170045 | 0.0503397 | mg/L | 0.00170045 | 3.38% |
| Sn 189.927† | -31.4 | -0.0104217 | mg/L | 0.00116234 | -0.0104217 | mg/L | 0.00116234 | 11.15% |
| Ti 334.940† | 436.9 | 0.0013224 | mg/L | 0.00014394 | 0.0013224 | mg/L | 0.00014394 | 10.88% |
| Tl 190.801† | 1.8 | 0.0062469 | mg/L | 0.00647369 | 0.0062469 | mg/L | 0.00647369 | 103.63% |
| V 290.880† | 18.5 | 0.0004155 | mg/L | 0.00032006 | 0.0004155 | mg/L | 0.00032006 | 77.03% |
| Zn 206.200† | 287.1 | 0.0081696 | mg/L | 0.00003102 | 0.0081696 | mg/L | 0.00003102 | 0.38% |
| Si 251.611† | 66054.0 | 1.51117 | mg/L | 0.006481 | 1.51117 | mg/L | 0.006481 | 0.43% |
| B 249.772† | 30770.5 | 0.333375 | mg/L | 0.0023379 | 0.333375 | mg/L | 0.0023379 | 0.70% |
| Ce 413.764 | 21.4 | -0.0164419 | mg/L | 0.00116228 | -0.0164419 | mg/L | 0.00116228 | 7.07% |

Sequence No.: 24
Sample ID: AD26083-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 9/28/2021 1:29:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-001

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 578854.8 | 97.8 | % | 0.84 | | | | 0.85% |
| Y 371.029 | 657943.4 | 96.7 | % | 0.74 | | | | 0.77% |
| Ag 328.068† | -137.9 | -0.0004966 | mg/L | 0.00003778 | -0.0004966 | mg/L | 0.00003778 | 7.61% |
| Al 308.215† | 2958.5 | 0.0853405 | mg/L | 0.00117349 | 0.0853405 | mg/L | 0.00117349 | 1.38% |
| As 188.979† | 3.1 | 0.0037511 | mg/L | 0.00624749 | 0.0037511 | mg/L | 0.00624749 | 166.55% |
| Ba 233.527† | 1377.2 | 0.0136559 | mg/L | 0.00021497 | 0.0136559 | mg/L | 0.00021497 | 1.57% |
| Be 313.107† | -147.9 | 0.0002145 | mg/L | 0.00001669 | 0.0002145 | mg/L | 0.00001669 | 7.78% |
| Ca 315.887† | 1544343.1 | 11.1642 | mg/L | 0.02512 | 11.1642 | mg/L | 0.02512 | 0.23% |
| Cd 228.802† | -159.5 | -0.0015937 | mg/L | 0.00038178 | -0.0015937 | mg/L | 0.00038178 | 23.96% |
| Co 228.616† | 50.0 | 0.0005664 | mg/L | 0.00029012 | 0.0005664 | mg/L | 0.00029012 | 51.22% |
| Cr 267.716† | 72.1 | -0.0007319 | mg/L | 0.00030658 | -0.0007319 | mg/L | 0.00030658 | 41.89% |
| Cu 327.393† | -428.2 | -0.0047995 | mg/L | 0.00042032 | -0.0047995 | mg/L | 0.00042032 | 8.76% |
| Fe 273.955† | 32695.2 | 1.02053 | mg/L | 0.002000 | 1.02053 | mg/L | 0.002000 | 0.20% |
| K 404.721† | 510.2 | 3.21526 | mg/L | 0.138092 | 3.21526 | mg/L | 0.138092 | 4.29% |
| Mg 279.077† | 40165.8 | 1.58504 | mg/L | 0.007486 | 1.58504 | mg/L | 0.007486 | 0.47% |
| Mn 257.610† | 37959.3 | 0.0414821 | mg/L | 0.00008453 | 0.0414821 | mg/L | 0.00008453 | 0.20% |
| Mo 202.031† | -18.2 | -0.0020783 | mg/L | 0.00092100 | -0.0020783 | mg/L | 0.00092100 | 44.32% |
| Na 330.237† | 16618.9 | 12.5438 | mg/L | 0.01807 | 12.5438 | mg/L | 0.01807 | 0.14% |
| Ni 231.604† | -92.8 | -0.0053320 | mg/L | 0.00075206 | -0.0053320 | mg/L | 0.00075206 | 14.10% |
| Pb 220.353† | -126.4 | -0.0331936 | mg/L | 0.00314882 | -0.0331936 | mg/L | 0.00314882 | 9.49% |
| Sb 206.836† | -20.4 | -0.0119049 | mg/L | 0.00069421 | -0.0119049 | mg/L | 0.00069421 | 5.83% |
| Se 196.026† | 13.2 | 0.0152995 | mg/L | 0.00900124 | 0.0152995 | mg/L | 0.00900124 | 58.83% |
| Sn 189.927† | -12.5 | -0.0052789 | mg/L | 0.00209000 | -0.0052789 | mg/L | 0.00209000 | 39.59% |
| Ti 334.940† | 1182.4 | 0.0021916 | mg/L | 0.00011362 | 0.0021916 | mg/L | 0.00011362 | 5.18% |
| Tl 190.801† | 1.1 | 0.0036685 | mg/L | 0.00145554 | 0.0036685 | mg/L | 0.00145554 | 39.68% |
| V 290.880† | -27.3 | 0.0001322 | mg/L | 0.00048391 | 0.0001322 | mg/L | 0.00048391 | 366.14% |
| Zn 206.200† | 1596.7 | 0.0438174 | mg/L | 0.00047675 | 0.0438174 | mg/L | 0.00047675 | 1.09% |
| Si 251.611† | 69016.6 | 1.58236 | mg/L | 0.005948 | 1.58236 | mg/L | 0.005948 | 0.38% |
| B 249.772† | 2510.8 | 0.0286440 | mg/L | 0.00208155 | 0.0286440 | mg/L | 0.00208155 | 7.27% |
| Ce 413.764 | 180.9 | -0.0135324 | mg/L | 0.00093930 | -0.0135324 | mg/L | 0.00093930 | 6.94% |

Sequence No.: 25
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/28/2021 1:32:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 550259.3 | 93.0 | % | 0.31 | | | | 0.33% |
| Y 371.029 | 617640.3 | 90.8 | % | 0.22 | | | | 0.24% |
| Ag 328.068† | 17858.7 | 0.0995230 | mg/L | 0.00002872 | 0.0995230 | mg/L | 0.00002872 | 0.03% |
| QC value within limits for Ag 328.068 Recovery = 99.52% | | | | | | | | |
| Al 308.215† | 160241.5 | 5.16039 | mg/L | 0.017490 | 5.16039 | mg/L | 0.017490 | 0.34% |
| QC value within limits for Al 308.215 Recovery = 103.21% | | | | | | | | |
| As 188.979† | 515.3 | 0.519151 | mg/L | 0.0043060 | 0.519151 | mg/L | 0.0043060 | 0.83% |
| QC value within limits for As 188.979 Recovery = 103.83% | | | | | | | | |
| Ba 233.527† | 46464.7 | 0.506669 | mg/L | 0.0009392 | 0.506669 | mg/L | 0.0009392 | 0.19% |
| QC value within limits for Ba 233.527 Recovery = 101.33% | | | | | | | | |
| Be 313.107† | 1649864.2 | 0.508776 | mg/L | 0.0037634 | 0.508776 | mg/L | 0.0037634 | 0.74% |
| QC value within limits for Be 313.107 Recovery = 101.76% | | | | | | | | |
| Ca 315.887† | 7103204.0 | 51.7055 | mg/L | 0.42352 | 51.7055 | mg/L | 0.42352 | 0.82% |
| QC value within limits for Ca 315.887 Recovery = 103.41% | | | | | | | | |
| Cd 228.802† | 28555.4 | 0.517504 | mg/L | 0.0024396 | 0.517504 | mg/L | 0.0024396 | 0.47% |
| QC value within limits for Cd 228.802 Recovery = 103.50% | | | | | | | | |
| Co 228.616† | 19177.2 | 0.518287 | mg/L | 0.0012291 | 0.518287 | mg/L | 0.0012291 | 0.24% |
| QC value within limits for Co 228.616 Recovery = 103.66% | | | | | | | | |
| Cr 267.716† | 61367.3 | 0.509495 | mg/L | 0.0013913 | 0.509495 | mg/L | 0.0013913 | 0.27% |
| QC value within limits for Cr 267.716 Recovery = 101.90% | | | | | | | | |
| Cu 327.393† | 60726.6 | 0.501890 | mg/L | 0.0008972 | 0.501890 | mg/L | 0.0008972 | 0.18% |
| QC value within limits for Cu 327.393 Recovery = 100.38% | | | | | | | | |
| Fe 273.955† | 161667.0 | 5.10384 | mg/L | 0.016102 | 5.10384 | mg/L | 0.016102 | 0.32% |
| QC value within limits for Fe 273.955 Recovery = 102.08% | | | | | | | | |
| K 404.721† | 7028.8 | 51.6081 | mg/L | 0.71612 | 51.6081 | mg/L | 0.71612 | 1.39% |
| QC value within limits for K 404.721 Recovery = 103.22% | | | | | | | | |
| Mg 279.077† | 1143533.6 | 52.4231 | mg/L | 0.45196 | 52.4231 | mg/L | 0.45196 | 0.86% |
| QC value within limits for Mg 279.077 Recovery = 104.85% | | | | | | | | |
| Mn 257.610† | 454109.3 | 0.509341 | mg/L | 0.0012664 | 0.509341 | mg/L | 0.0012664 | 0.25% |
| QC value within limits for Mn 257.610 Recovery = 101.87% | | | | | | | | |
| Mo 202.031† | 3906.9 | 0.513327 | mg/L | 0.0021568 | 0.513327 | mg/L | 0.0021568 | 0.42% |
| QC value within limits for Mo 202.031 Recovery = 102.67% | | | | | | | | |
| Na 330.237† | 71101.3 | 50.8383 | mg/L | 0.20678 | 50.8383 | mg/L | 0.20678 | 0.41% |
| QC value within limits for Na 330.237 Recovery = 101.68% | | | | | | | | |
| Ni 231.604† | 14046.4 | 0.517855 | mg/L | 0.0016990 | 0.517855 | mg/L | 0.0016990 | 0.33% |
| QC value within limits for Ni 231.604 Recovery = 103.57% | | | | | | | | |
| Pb 220.353† | 1725.5 | 0.476827 | mg/L | 0.0038848 | 0.476827 | mg/L | 0.0038848 | 0.81% |
| QC value within limits for Pb 220.353 Recovery = 95.37% | | | | | | | | |
| Sb 206.836† | 774.3 | 0.500428 | mg/L | 0.0007742 | 0.500428 | mg/L | 0.0007742 | 0.15% |
| QC value within limits for Sb 206.836 Recovery = 100.09% | | | | | | | | |
| Se 196.026† | 479.9 | 0.538464 | mg/L | 0.0031997 | 0.538464 | mg/L | 0.0031997 | 0.59% |
| QC value within limits for Se 196.026 Recovery = 107.69% | | | | | | | | |
| Sn 189.927† | 1915.4 | 0.517676 | mg/L | 0.0011783 | 0.517676 | mg/L | 0.0011783 | 0.23% |
| QC value within limits for Sn 189.927 Recovery = 103.54% | | | | | | | | |
| Ti 334.940† | 427456.2 | 0.499236 | mg/L | 0.0012121 | 0.499236 | mg/L | 0.0012121 | 0.24% |
| QC value within limits for Ti 334.940 Recovery = 99.85% | | | | | | | | |
| Tl 190.801† | 346.0 | 0.529363 | mg/L | 0.0063298 | 0.529363 | mg/L | 0.0063298 | 1.20% |
| QC value within limits for Tl 190.801 Recovery = 105.87% | | | | | | | | |
| V 290.880† | 81432.7 | 0.504143 | mg/L | 0.0011206 | 0.504143 | mg/L | 0.0011206 | 0.22% |
| QC value within limits for V 290.880 Recovery = 100.83% | | | | | | | | |
| Zn 206.200† | 19593.8 | 0.533686 | mg/L | 0.0022108 | 0.533686 | mg/L | 0.0022108 | 0.41% |
| QC value within limits for Zn 206.200 Recovery = 106.74% | | | | | | | | |
| Si 251.611† | 206821.5 | 4.98463 | mg/L | 0.018634 | 4.98463 | mg/L | 0.018634 | 0.37% |
| QC value within limits for Si 251.611 Recovery = 99.69% | | | | | | | | |
| B 249.772† | 43631.6 | 0.480207 | mg/L | 0.0038234 | 0.480207 | mg/L | 0.0038234 | 0.80% |
| QC value within limits for B 249.772 Recovery = 96.04% | | | | | | | | |
| Ce 413.764 | 28717.6 | 0.506759 | mg/L | 0.0030735 | 0.506759 | mg/L | 0.0030735 | 0.61% |
| QC value within limits for Ce 413.764 Recovery = 101.35% | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 26
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/28/2021 1:37:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 593246.5 | 100 | % | 0.9 | | | | 0.88% |
| Y 371.029 | 683602.7 | 100 | % | 0.9 | | | | 0.88% |
| Ag 328.068† | -66.6 | -0.0001740 | mg/L | 0.00040678 | -0.0001740 | mg/L | 0.00040678 | 233.73% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -329.3 | -0.0207491 | mg/L | 0.00390899 | -0.0207491 | mg/L | 0.00390899 | 18.84% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 3.4 | 0.0040389 | mg/L | 0.00190334 | 0.0040389 | mg/L | 0.00190334 | 47.13% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -78.0 | -0.0022563 | mg/L | 0.00015436 | -0.0022563 | mg/L | 0.00015436 | 6.84% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 72.8 | 0.0002825 | mg/L | 0.00002625 | 0.0002825 | mg/L | 0.00002625 | 9.29% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -573.0 | -0.103062 | mg/L | 0.0038593 | -0.103062 | mg/L | 0.0038593 | 3.74% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | -105.5 | -0.0008950 | mg/L | 0.00035959 | -0.0008950 | mg/L | 0.00035959 | 40.18% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 47.3 | 0.0004525 | mg/L | 0.00044925 | 0.0004525 | mg/L | 0.00044925 | 99.27% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -36.6 | -0.0016364 | mg/L | 0.00017852 | -0.0016364 | mg/L | 0.00017852 | 10.91% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -620.2 | -0.0065050 | mg/L | 0.00050613 | -0.0065050 | mg/L | 0.00050613 | 7.78% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -218.2 | -0.0215240 | mg/L | 0.00208985 | -0.0215240 | mg/L | 0.00208985 | 9.71% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 183.3 | 0.788072 | mg/L | 0.1183582 | 0.788072 | mg/L | 0.1183582 | 15.02% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -38.8 | -0.267405 | mg/L | 0.0041320 | -0.267405 | mg/L | 0.0041320 | 1.55% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -57.5 | -0.0012586 | mg/L | 0.00010663 | -0.0012586 | mg/L | 0.00010663 | 8.47% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -10.7 | -0.0011035 | mg/L | 0.00033908 | -0.0011035 | mg/L | 0.00033908 | 30.73% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 52.9 | 0.899872 | mg/L | 0.0944598 | 0.899872 | mg/L | 0.0944598 | 10.50% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -121.8 | -0.0064056 | mg/L | 0.00088344 | -0.0064056 | mg/L | 0.00088344 | 13.79% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -114.9 | -0.0301601 | mg/L | 0.00142249 | -0.0301601 | mg/L | 0.00142249 | 4.72% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -16.7 | -0.0095796 | mg/L | 0.00112182 | -0.0095796 | mg/L | 0.00112182 | 11.71% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 19.1 | 0.0218745 | mg/L | 0.00138272 | 0.0218745 | mg/L | 0.00138272 | 6.32% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 2.2 | -0.0013034 | mg/L | 0.00170268 | -0.0013034 | mg/L | 0.00170268 | 130.63% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -42.3 | 0.0007636 | mg/L | 0.00013237 | 0.0007636 | mg/L | 0.00013237 | 17.34% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | 2.3 | 0.0046977 | mg/L | 0.00222266 | 0.0046977 | mg/L | 0.00222266 | 47.31% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -46.0 | 0.0000163 | mg/L | 0.00044053 | 0.0000163 | mg/L | 0.00044053 | >999.9% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -14.9 | -0.0000491 | mg/L | 0.00012485 | -0.0000491 | mg/L | 0.00012485 | 254.21% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | -71.8 | -0.122921 | mg/L | 0.0013568 | -0.122921 | mg/L | 0.0013568 | 1.10% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 301.2 | 0.0075436 | mg/L | 0.00196919 | 0.0075436 | mg/L | 0.00196919 | 26.10% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -22.6 | -0.0172433 | mg/L | 0.00259984 | -0.0172433 | mg/L | 0.00259984 | 15.08% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method: PE5 AVIO500 SW846 RD Page 1 Date: 9/28/2021 3:31:35 PM

SW27669A5 27669/94427

Analysis Begun

SW846 GM 9/29/21

Start Time: 9/28/2021 3:29:04 PM
Originator: usemet
Spectrometer: Avio 500, S/N 081S2010191
Plasma On Time: 9/28/2021 9:31:00 AM
Technique: ICP Continuous
Autosampler: S23

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\09.28.21.sifx
Results Data Set: SW27669A5
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

10/4/21

Batch ID:
Sequence No.: 1
Sample ID: CALBLK V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):
Autosampler Location: 1
Date Collected: 9/28/2021 3:29:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-352951

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 122485.7 | 355.24 | 0.29% | 100 | % |
| Y 371.029 | 44036.7 | 101.70 | 0.23% | 100 | % |
| Al 308.215† | -55.7 | 2.87 | 5.15% | [0.00] | mg/L |
| Ba 233.527† | 12.3 | 4.75 | 38.47% | [0.00] | mg/L |
| Ca 315.887† | 90.6 | 18.79 | 20.74% | [0.00] | mg/L |
| Cu 327.393† | -7.6 | 26.80 | 354.68% | [0.00] | mg/L |
| Fe 273.955† | 24.3 | 8.44 | 34.78% | [0.00] | mg/L |
| K 766.490† | 947.7 | 25.69 | 2.71% | [0.00] | mg/L |
| Mg 279.077† | -16.4 | 3.79 | 23.18% | [0.00] | mg/L |
| Mn 257.610† | 4.6 | 3.60 | 78.23% | [0.00] | mg/L |
| Mo 202.031† | 2.7 | 3.29 | 123.80% | [0.00] | mg/L |
| Na 589.592† | 6651.7 | 25.31 | 0.38% | [0.00] | mg/L |
| Ni 231.604† | 51.8 | 8.18 | 15.81% | [0.00] | mg/L |
| Se 196.026† | -9.4 | 2.94 | 31.29% | [0.00] | mg/L |
| Sn 189.927† | 2.2 | 2.53 | 114.48% | [0.00] | mg/L |
| Ti 334.940† | -457.4 | 14.92 | 3.26% | [0.00] | mg/L |
| V 290.880† | 103.5 | 9.76 | 9.43% | [0.00] | mg/L |
| Zn 206.200† | 4.5 | 3.98 | 88.71% | [0.00] | mg/L |
| Si 251.611† | 207.7 | 4.15 | 2.00% | [0.00] | mg/L |
| B 249.772† | 7.2 | 2.58 | 35.87% | [0.00] | mg/L |
| Ce 413.764† | 85.8 | 23.86 | 27.80% | [0.00] | mg/L |

27669/94427

TQC 26083-048, 049, 050

26083-001

Al, Na K ~~Ca Mg~~ Reported

TQC 26083-048, -049, 050

Na NOT Reported

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 2
Autosampler Location: 5
Sample ID: CALST2 V-352961
Date Collected: 9/28/2021 3:32:53 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST2 V-352961

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 125403.2 | 138.86 | 0.11% | 102 | % |
| Y 371.029 | 44180.6 | 129.22 | 0.29% | 100 | % |
| Al 308.215† | 153.0 | 14.51 | 9.49% | [0.2] | mg/L |
| Ba 233.527† | 211.6 | 3.50 | 1.65% | [0.050] | mg/L |
| Ca 315.887† | 22808.1 | 170.89 | 0.75% | [5] | mg/L |
| Cu 327.393† | 207.8 | 13.14 | 6.32% | [0.050] | mg/L |
| Fe 273.955† | 313.8 | 9.51 | 3.03% | [0.30] | mg/L |
| K 766.490† | 7766.6 | 66.07 | 0.85% | [5] | mg/L |
| Mg 279.077† | 2944.2 | 27.98 | 0.95% | [5.0] | mg/L |
| Mn 257.610† | 1040.5 | 12.11 | 1.16% | [0.040] | mg/L |
| Mo 202.031† | 23.1 | 4.98 | 21.56% | [0.020] | mg/L |
| Na 589.592† | 40729.1 | 181.81 | 0.45% | [5] | mg/L |
| Ni 231.604† | 77.3 | 13.30 | 17.20% | [0.050] | mg/L |
| Se 196.026† | 13.1 | 3.76 | 28.74% | [0.050] | mg/L |
| Sn 189.927† | 15.2 | 3.31 | 21.75% | [0.050] | mg/L |
| Ti 334.940† | 1954.4 | 39.23 | 2.01% | [0.050] | mg/L |
| V 290.880† | 337.5 | 4.01 | 1.19% | [0.050] | mg/L |
| Zn 206.200† | 166.7 | 2.05 | 1.23% | [0.050] | mg/L |
| Si 251.611† | 1061.5 | 2.79 | 0.26% | [0.2] | mg/L |
| B 249.772† | 1274.2 | 11.37 | 0.89% | [0.20] | mg/L |
| Ce 413.764† | 748.7 | 27.66 | 3.69% | [0.2] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 3
Autosampler Location: 3
Sample ID: CALST3 V-352955
Date Collected: 9/28/2021 3:36:40 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST3 V-352955

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 124320.5 | 235.20 | 0.19% | 101 | % |
| Y 371.029 | 42750.4 | 166.77 | 0.39% | 97.1 | % |
| Al 308.215† | 3977.4 | 14.78 | 0.37% | [5.0] | mg/L |
| Ba 233.527† | 2003.4 | 8.27 | 0.41% | [0.50] | mg/L |
| Ca 315.887† | 223098.3 | 514.28 | 0.23% | [50] | mg/L |
| Cu 327.393† | 2039.5 | 31.27 | 1.53% | [0.50] | mg/L |
| Fe 273.955† | 4969.2 | 14.65 | 0.29% | [5.0] | mg/L |
| K 766.490† | 77376.8 | 185.78 | 0.24% | [50] | mg/L |
| Mg 279.077† | 27998.0 | 94.91 | 0.34% | [50] | mg/L |
| Mn 257.610† | 12622.6 | 78.68 | 0.62% | [0.50] | mg/L |
| Mo 202.031† | 598.9 | 3.57 | 0.60% | [0.50] | mg/L |
| Na 589.592† | 397534.8 | 515.96 | 0.13% | [50] | mg/L |
| Ni 231.604† | 815.2 | 4.77 | 0.59% | [0.50] | mg/L |
| Se 196.026† | 115.7 | 5.42 | 4.68% | [0.50] | mg/L |
| Sn 189.927† | 139.5 | 3.97 | 2.85% | [0.50] | mg/L |
| Ti 334.940† | 19183.1 | 92.48 | 0.48% | [0.50] | mg/L |
| V 290.880† | 3530.3 | 36.32 | 1.03% | [0.50] | mg/L |
| Zn 206.200† | 1572.4 | 10.11 | 0.64% | [0.50] | mg/L |
| Si 251.611† | 11705.6 | 54.34 | 0.46% | [5] | mg/L |
| B 249.772† | 2934.4 | 10.51 | 0.36% | [0.50] | mg/L |
| Ce 413.764† | 1824.8 | 17.50 | 0.96% | [0.5] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 4 Autosampler Location: 4
Sample ID: CALST4 V-352956 Date Collected: 9/28/2021 3:40:44 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST4 V-352956

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 118201.1 | 1473.84 | 1.25% | 96.5 | % |
| Y 371.029 | 41872.4 | 516.26 | 1.23% | 95.1 | % |
| Al 308.215† | 8266.7 | 30.06 | 0.36% | [10] | mg/L |
| Ba 233.527† | 4186.7 | 17.83 | 0.43% | [1.0] | mg/L |
| Ca 315.887† | 462369.7 | 4765.82 | 1.03% | [100] | mg/L |
| Cu 327.393† | 4256.3 | 8.30 | 0.20% | [1.0] | mg/L |
| Fe 273.955† | 10190.8 | 23.39 | 0.23% | [10] | mg/L |
| K 766.490† | 163114.4 | 1676.62 | 1.03% | [100] | mg/L |
| Mg 279.077† | 57239.9 | 68.45 | 0.12% | [100] | mg/L |
| Mn 257.610† | 25766.7 | 25.87 | 0.10% | [1.0] | mg/L |
| Mo 202.031† | 1249.7 | 4.65 | 0.37% | [1.0] | mg/L |
| Na 589.592† | 826359.3 | 7810.97 | 0.95% | [100] | mg/L |
| Ni 231.604† | 1680.3 | 11.06 | 0.66% | [1.0] | mg/L |
| Se 196.026† | 240.1 | 0.17 | 0.07% | [1.0] | mg/L |
| Sn 189.927† | 281.9 | 4.74 | 1.68% | [1.0] | mg/L |
| Ti 334.940† | 39619.3 | 45.34 | 0.11% | [1.0] | mg/L |
| V 290.880† | 7301.9 | 16.55 | 0.23% | [1.0] | mg/L |
| Zn 206.200† | 3262.6 | 22.26 | 0.68% | [1.0] | mg/L |
| Si 251.611† | 23954.0 | 58.58 | 0.24% | [10] | mg/L |
| B 249.772† | 6144.0 | 37.27 | 0.61% | [1.0] | mg/L |
| Ce 413.764† | 3713.3 | 24.09 | 0.65% | [1] | mg/L |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| Al 308.215 | 3 | Lin, Calc Int | -34.0 | 824.5 | 0.00000 | 0.999813 | |
| Ba 233.527 | 3 | Lin, Calc Int | -15.4 | 4170 | 0.00000 | 0.999736 | |
| Ca 315.887 | 3 | Lin, Calc Int | -1620.7 | 4611 | 0.00000 | 0.999831 | |
| Cu 327.393 | 3 | Lin, Calc Int | -18.5 | 4244 | 0.00000 | 0.999762 | |
| Fe 273.955 | 3 | Lin, Calc Int | -19.4 | 1016 | 0.00000 | 0.999913 | |
| K 766.490 | 3 | Lin, Calc Int | -940.9 | 1626 | 0.00000 | 0.999645 | |
| Mg 279.077 | 3 | Lin, Calc Int | -76.8 | 570.9 | 0.00000 | 0.999928 | |
| Mn 257.610 | 3 | Lin, Calc Int | -43.2 | 25720 | 0.00000 | 0.999942 | |
| Mo 202.031 | 3 | Lin, Calc Int | -5.6 | 1246 | 0.00000 | 0.999773 | |
| Na 589.592 | 3 | Lin, Calc Int | -3130.3 | 8240 | 0.00000 | 0.999802 | |
| Ni 231.604 | 3 | Lin, Calc Int | -7.6 | 1679 | 0.00000 | 0.999887 | |
| Se 196.026 | 3 | Lin, Calc Int | -0.3 | 238.8 | 0.00000 | 0.999784 | |
| Sn 189.927 | 3 | Lin, Calc Int | 0.2 | 281.1 | 0.00000 | 0.999970 | |
| Ti 334.940 | 3 | Lin, Calc Int | -126.7 | 39520 | 0.00000 | 0.999862 | |
| V 290.880 | 3 | Lin, Calc Int | -34.5 | 7295 | 0.00000 | 0.999859 | |
| Zn 206.200 | 3 | Lin, Calc Int | -9.2 | 3251 | 0.00000 | 0.999810 | |
| Si 251.611 | 3 | Lin, Calc Int | 214.6 | 2359 | 0.00000 | 0.999598 | |
| B 249.772 | 3 | Lin, Calc Int | -7.7 | 6108 | 0.00000 | 0.999573 | |
| Ce 413.764 | 3 | Lin, Calc Int | -3.6 | 3707 | 0.00000 | 0.999945 | |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 5 Autosampler Location: 6
Sample ID: ICV V-352960 Date Collected: 9/28/2021 3:44:49 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 123352.0 | 101 | % | 0.49 | 101 | % | 0.49 | 0.48% |
| Y 371.029 | 42748.7 | 97.1 | % | 0.49 | 97.1 | % | 0.49 | 0.50% |
| Al 308.215† | 4004.2 | 4.92797 | mg/L | 0.007931 | 4.92797 | mg/L | 0.007931 | 0.16% |
| QC value within limits for Al 308.215 Recovery = 98.56% | | | | | | | | |
| Ba 233.527† | 2018.5 | 0.485006 | mg/L | 0.0036630 | 0.485006 | mg/L | 0.0036630 | 0.76% |
| QC value within limits for Ba 233.527 Recovery = 97.00% | | | | | | | | |
| Ca 315.887† | 222924.2 | 48.6940 | mg/L | 0.11986 | 48.6940 | mg/L | 0.11986 | 0.25% |
| QC value within limits for Ca 315.887 Recovery = 97.39% | | | | | | | | |
| Cu 327.393† | 2099.5 | 0.521736 | mg/L | 0.0010000 | 0.521736 | mg/L | 0.0010000 | 0.19% |
| QC value within limits for Cu 327.393 Recovery = 104.35% | | | | | | | | |
| Fe 273.955† | 5004.5 | 4.94268 | mg/L | 0.016387 | 4.94268 | mg/L | 0.016387 | 0.33% |
| QC value within limits for Fe 273.955 Recovery = 98.85% | | | | | | | | |
| K 766.490† | 77326.7 | 48.1367 | mg/L | 0.08428 | 48.1367 | mg/L | 0.08428 | 0.18% |
| QC value within limits for K 766.490 Recovery = 96.27% | | | | | | | | |
| Mg 279.077† | 28021.3 | 49.2174 | mg/L | 0.28976 | 49.2174 | mg/L | 0.28976 | 0.59% |
| QC value within limits for Mg 279.077 Recovery = 98.43% | | | | | | | | |
| Mn 257.610† | 12681.8 | 0.504087 | mg/L | 0.0019894 | 0.504087 | mg/L | 0.0019894 | 0.39% |
| QC value within limits for Mn 257.610 Recovery = 100.82% | | | | | | | | |
| Mo 202.031† | 605.6 | 0.490467 | mg/L | 0.0015322 | 0.490467 | mg/L | 0.0015322 | 0.31% |
| QC value within limits for Mo 202.031 Recovery = 98.09% | | | | | | | | |
| Na 589.592† | 397090.4 | 48.5726 | mg/L | 0.16494 | 48.5726 | mg/L | 0.16494 | 0.34% |
| QC value within limits for Na 589.592 Recovery = 97.15% | | | | | | | | |
| Ni 231.604† | 819.5 | 0.493617 | mg/L | 0.0041897 | 0.493617 | mg/L | 0.0041897 | 0.85% |
| QC value within limits for Ni 231.604 Recovery = 98.72% | | | | | | | | |
| Se 196.026† | 115.3 | 0.489020 | mg/L | 0.0155895 | 0.489020 | mg/L | 0.0155895 | 3.19% |
| QC value within limits for Se 196.026 Recovery = 97.80% | | | | | | | | |
| Sn 189.927† | 135.5 | 0.494013 | mg/L | 0.0145464 | 0.494013 | mg/L | 0.0145464 | 2.94% |
| QC value within limits for Sn 189.927 Recovery = 98.80% | | | | | | | | |
| Ti 334.940† | 19342.5 | 0.500495 | mg/L | 0.0019491 | 0.500495 | mg/L | 0.0019491 | 0.39% |
| QC value within limits for Ti 334.940 Recovery = 100.10% | | | | | | | | |
| V 290.880† | 3604.3 | 0.478972 | mg/L | 0.0061569 | 0.478972 | mg/L | 0.0061569 | 1.29% |
| QC value within limits for V 290.880 Recovery = 95.79% | | | | | | | | |
| Zn 206.200† | 1584.4 | 0.490222 | mg/L | 0.0044485 | 0.490222 | mg/L | 0.0044485 | 0.91% |
| QC value within limits for Zn 206.200 Recovery = 98.04% | | | | | | | | |
| Si 251.611† | 11581.8 | 4.81786 | mg/L | 0.022973 | 4.81786 | mg/L | 0.022973 | 0.48% |
| QC value within limits for Si 251.611 Recovery = 96.36% | | | | | | | | |
| B 249.772† | 2949.0 | 0.464097 | mg/L | 0.0020740 | 0.464097 | mg/L | 0.0020740 | 0.45% |
| QC value within limits for B 249.772 Recovery = 92.82% | | | | | | | | |
| Ce 413.764† | 1829.4 | 0.494533 | mg/L | 0.0029883 | 0.494533 | mg/L | 0.0029883 | 0.60% |
| QC value within limits for Ce 413.764 Recovery = 98.91% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 6 Autosampler Location: 1
Sample ID: ICB V-352951 Date Collected: 9/28/2021 3:48:59 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 122534.3 | 100 | % | 0.55 | 100 | % | 0.55 | 0.55% |
| Y 371.029 | 44482.0 | 101 | % | 0.71 | 101 | % | 0.71 | 0.71% |
| Al 308.215† | -7.1 | 0.0329860 | mg/L | 0.00647135 | 0.0329860 | mg/L | 0.00647135 | 19.62% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -2.9 | 0.0030020 | mg/L | 0.00140536 | 0.0030020 | mg/L | 0.00140536 | 46.81% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 9.5 | 0.353521 | mg/L | 0.0028310 | 0.353521 | mg/L | 0.0028310 | 0.80% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 10.3 | 0.0069619 | mg/L | 0.00109238 | 0.0069619 | mg/L | 0.00109238 | 15.69% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -5.1 | 0.0140199 | mg/L | 0.00724375 | 0.0140199 | mg/L | 0.00724375 | 51.67% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | 7.0 | 0.582966 | mg/L | 0.0118573 | 0.582966 | mg/L | 0.0118573 | 2.03% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 4.6 | 0.142629 | mg/L | 0.0157046 | 0.142629 | mg/L | 0.0157046 | 11.01% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 3.0 | 0.0018251 | mg/L | 0.00002243 | 0.0018251 | mg/L | 0.00002243 | 1.23% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 0.1 | 0.0045996 | mg/L | 0.00555152 | 0.0045996 | mg/L | 0.00555152 | 120.70% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -704.5 | 0.294413 | mg/L | 0.0067889 | 0.294413 | mg/L | 0.0067889 | 2.31% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -10.8 | -0.0019337 | mg/L | 0.00256204 | -0.0019337 | mg/L | 0.00256204 | 132.50% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 1.2 | 0.0063775 | mg/L | 0.02935584 | 0.0063775 | mg/L | 0.02935584 | 460.30% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 0.1 | -0.0002913 | mg/L | 0.00320117 | -0.0002913 | mg/L | 0.00320117 | >999.9% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -14.5 | 0.0028969 | mg/L | 0.00047917 | 0.0028969 | mg/L | 0.00047917 | 16.54% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 6.2 | 0.0055264 | mg/L | 0.00036561 | 0.0055264 | mg/L | 0.00036561 | 6.62% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -7.8 | 0.0004067 | mg/L | 0.00222513 | 0.0004067 | mg/L | 0.00222513 | 547.11% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 6.8 | -0.0880674 | mg/L | 0.00107144 | -0.0880674 | mg/L | 0.00107144 | 1.22% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 8.3 | 0.0025552 | mg/L | 0.00048501 | 0.0025552 | mg/L | 0.00048501 | 18.98% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 53.2 | 0.0153404 | mg/L | 0.00572272 | 0.0153404 | mg/L | 0.00572272 | 37.30% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 7 Autosampler Location: 10
Sample ID: LRS V-352964 Date Collected: 9/28/2021 3:52:51 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LRS V-352964

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 117957.2 | 96.3 | % | 0.50 | 96.3 | % | 0.50 | 0.52% |
| Y 371.029 | 38849.6 | 88.2 | % | 0.34 | 88.2 | % | 0.34 | 0.38% |
| Al 308.215† | 409742.0 | 497.350 | mg/L | 0.3590 | 497.350 | mg/L | 0.3590 | 0.07% |
| QC value within limits for Al 308.215 Recovery = 99.47% | | | | | | | | |
| Ba 233.527† | 42011.6 | 9.87713 | mg/L | 0.027569 | 9.87713 | mg/L | 0.027569 | 0.28% |
| QC value within limits for Ba 233.527 Recovery = 98.77% | | | | | | | | |
| Ca 315.887† | 2164398.1 | 469.715 | mg/L | 3.9272 | 469.715 | mg/L | 3.9272 | 0.84% |
| QC value within limits for Ca 315.887 Recovery = 93.94% | | | | | | | | |
| Cu 327.393† | 42927.9 | 10.3385 | mg/L | 0.01356 | 10.3385 | mg/L | 0.01356 | 0.13% |
| QC value within limits for Cu 327.393 Recovery = 103.38% | | | | | | | | |
| Fe 273.955† | 368559.4 | 362.623 | mg/L | 1.0145 | 362.623 | mg/L | 1.0145 | 0.28% |
| QC value within limits for Fe 273.955 Recovery = 90.66% | | | | | | | | |
| K 766.490† | 345526.1 | 213.087 | mg/L | 1.3433 | 213.087 | mg/L | 1.3433 | 0.63% |
| QC value within limits for K 766.490 Recovery = 106.54% | | | | | | | | |
| Mg 279.077† | 276249.5 | 484.019 | mg/L | 0.9710 | 484.019 | mg/L | 0.9710 | 0.20% |
| QC value within limits for Mg 279.077 Recovery = 96.80% | | | | | | | | |
| Mn 257.610† | 238911.7 | 9.38312 | mg/L | 0.034150 | 9.38312 | mg/L | 0.034150 | 0.36% |
| QC value within limits for Mn 257.610 Recovery = 93.83% | | | | | | | | |
| Mo 202.031† | 11457.8 | 9.19925 | mg/L | 0.081483 | 9.19925 | mg/L | 0.081483 | 0.89% |
| QC value within limits for Mo 202.031 Recovery = 91.99% | | | | | | | | |
| Na 589.592† | 8151669.3 | 989.703 | mg/L | 3.4035 | 989.703 | mg/L | 3.4035 | 0.34% |
| QC value within limits for Na 589.592 Recovery = 98.97% | | | | | | | | |
| Ni 231.604† | 15381.8 | 9.22590 | mg/L | 0.037108 | 9.22590 | mg/L | 0.037108 | 0.40% |
| QC value within limits for Ni 231.604 Recovery = 92.26% | | | | | | | | |
| Se 196.026† | 1109.3 | 4.99017 | mg/L | 0.002913 | 4.99017 | mg/L | 0.002913 | 0.06% |
| QC value within limits for Se 196.026 Recovery = 99.80% | | | | | | | | |
| Sn 189.927† | 2837.9 | 10.2209 | mg/L | 0.08347 | 10.2209 | mg/L | 0.08347 | 0.82% |
| QC value within limits for Sn 189.927 Recovery = 102.21% | | | | | | | | |
| Ti 334.940† | 379971.9 | 9.69302 | mg/L | 0.022431 | 9.69302 | mg/L | 0.022431 | 0.23% |
| QC value within limits for Ti 334.940 Recovery = 96.93% | | | | | | | | |
| V 290.880† | 64442.5 | 8.64322 | mg/L | 0.014538 | 8.64322 | mg/L | 0.014538 | 0.17% |
| QC value less than the lower limit for V 290.880 Recovery = 86.43% | | | | | | | | |
| Zn 206.200† | 28744.7 | 8.84568 | mg/L | 0.038411 | 8.84568 | mg/L | 0.038411 | 0.43% |
| QC value less than the lower limit for Zn 206.200 Recovery = 88.46% | | | | | | | | |
| Si 251.611† | 60342.7 | 25.4846 | mg/L | 0.05521 | 25.4846 | mg/L | 0.05521 | 0.22% |
| QC value within limits for Si 251.611 Recovery = 101.94% | | | | | | | | |
| B 249.772† | 34178.5 | 4.13143 | mg/L | 0.013477 | 4.13143 | mg/L | 0.013477 | 0.33% |
| QC value less than the lower limit for B 249.772 Recovery = 82.63% | | | | | | | | |
| Ce 413.764† | 88696.3 | 23.9297 | mg/L | 0.03963 | 23.9297 | mg/L | 0.03963 | 0.17% |
| QC value within limits for Ce 413.764 Recovery = 95.72% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 8 Autosampler Location: 3
Sample ID: ICS3 V-352955 Date Collected: 9/28/2021 3:58:37 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: ICS3 V-352955

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 122903.0 | 100 | % | 0.96 | 100 | % | 0.96 | 0.96% |
| Y 371.029 | 42457.2 | 96.4 | % | 0.74 | 96.4 | % | 0.74 | 0.77% |
| Al 308.215† | 4024.1 | 4.95196 | mg/L | 0.017102 | 4.95196 | mg/L | 0.017102 | 0.35% |
| QC value within limits for Al 308.215 Recovery = 99.04% | | | | | | | | |
| Ba 233.527† | 2012.2 | 0.483514 | mg/L | 0.0047990 | 0.483514 | mg/L | 0.0047990 | 0.99% |
| QC value within limits for Ba 233.527 Recovery = 96.70% | | | | | | | | |
| Ca 315.887† | 222446.6 | 48.5904 | mg/L | 0.03896 | 48.5904 | mg/L | 0.03896 | 0.08% |
| QC value within limits for Ca 315.887 Recovery = 97.18% | | | | | | | | |
| Cu 327.393† | 2093.6 | 0.520288 | mg/L | 0.0040353 | 0.520288 | mg/L | 0.0040353 | 0.78% |
| QC value within limits for Cu 327.393 Recovery = 104.06% | | | | | | | | |
| Fe 273.955† | 4985.9 | 4.92439 | mg/L | 0.036171 | 4.92439 | mg/L | 0.036171 | 0.73% |
| QC value within limits for Fe 273.955 Recovery = 98.49% | | | | | | | | |
| K 766.490† | 78012.5 | 48.5585 | mg/L | 0.10388 | 48.5585 | mg/L | 0.10388 | 0.21% |
| QC value within limits for K 766.490 Recovery = 97.12% | | | | | | | | |
| Mg 279.077† | 28019.5 | 49.2141 | mg/L | 0.23018 | 49.2141 | mg/L | 0.23018 | 0.47% |
| QC value within limits for Mg 279.077 Recovery = 98.43% | | | | | | | | |
| Mn 257.610† | 12635.1 | 0.502271 | mg/L | 0.0026239 | 0.502271 | mg/L | 0.0026239 | 0.52% |
| QC value within limits for Mn 257.610 Recovery = 100.45% | | | | | | | | |
| Mo 202.031† | 602.9 | 0.488278 | mg/L | 0.0018253 | 0.488278 | mg/L | 0.0018253 | 0.37% |
| QC value within limits for Mo 202.031 Recovery = 97.66% | | | | | | | | |
| Na 589.592† | 401831.6 | 49.1480 | mg/L | 0.06826 | 49.1480 | mg/L | 0.06826 | 0.14% |
| QC value within limits for Na 589.592 Recovery = 98.30% | | | | | | | | |
| Ni 231.604† | 809.3 | 0.487539 | mg/L | 0.0069258 | 0.487539 | mg/L | 0.0069258 | 1.42% |
| QC value within limits for Ni 231.604 Recovery = 97.51% | | | | | | | | |
| Se 196.026† | 112.4 | 0.476654 | mg/L | 0.0162717 | 0.476654 | mg/L | 0.0162717 | 3.41% |
| QC value within limits for Se 196.026 Recovery = 95.33% | | | | | | | | |
| Sn 189.927† | 137.7 | 0.501951 | mg/L | 0.0043325 | 0.501951 | mg/L | 0.0043325 | 0.86% |
| QC value within limits for Sn 189.927 Recovery = 100.39% | | | | | | | | |
| Ti 334.940† | 19306.2 | 0.499559 | mg/L | 0.0009789 | 0.499559 | mg/L | 0.0009789 | 0.20% |
| QC value within limits for Ti 334.940 Recovery = 99.91% | | | | | | | | |
| V 290.880† | 3587.9 | 0.476729 | mg/L | 0.0021217 | 0.476729 | mg/L | 0.0021217 | 0.45% |
| QC value within limits for V 290.880 Recovery = 95.35% | | | | | | | | |
| Zn 206.200† | 1581.6 | 0.489382 | mg/L | 0.0049832 | 0.489382 | mg/L | 0.0049832 | 1.02% |
| QC value within limits for Zn 206.200 Recovery = 97.88% | | | | | | | | |
| Si 251.611† | 11735.6 | 4.88303 | mg/L | 0.008686 | 4.88303 | mg/L | 0.008686 | 0.18% |
| QC value within limits for Si 251.611 Recovery = 97.66% | | | | | | | | |
| B 249.772† | 2984.8 | 0.470036 | mg/L | 0.0027397 | 0.470036 | mg/L | 0.0027397 | 0.58% |
| QC value within limits for B 249.772 Recovery = 94.01% | | | | | | | | |
| Ce 413.764† | 1861.0 | 0.503036 | mg/L | 0.0051820 | 0.503036 | mg/L | 0.0051820 | 1.03% |
| QC value within limits for Ce 413.764 Recovery = 100.61% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 9 Autosampler Location: 14
Sample ID: RINSE Date Collected: 9/28/2021 4:02:45 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: RINSE

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 121200.5 | 99.0 | % | 0.61 | 99.0 | % | 0.61 | 0.62% |
| Y 371.029 | 43593.7 | 99.0 | % | 0.67 | 99.0 | % | 0.67 | 0.68% |
| Al 308.215† | -9.2 | 0.0303134 | mg/L | 0.00989359 | 0.0303134 | mg/L | 0.00989359 | 32.64% |
| Ba 233.527† | -2.3 | 0.0031428 | mg/L | 0.00010128 | 0.0031428 | mg/L | 0.00010128 | 3.22% |
| Ca 315.887† | 2.2 | 0.351949 | mg/L | 0.0055196 | 0.351949 | mg/L | 0.0055196 | 1.57% |
| Cu 327.393† | -8.8 | 0.0024545 | mg/L | 0.00636702 | 0.0024545 | mg/L | 0.00636702 | 259.41% |
| Fe 273.955† | 11.8 | 0.0306690 | mg/L | 0.00607757 | 0.0306690 | mg/L | 0.00607757 | 19.82% |
| K 766.490† | 74.5 | 0.624510 | mg/L | 0.0158363 | 0.624510 | mg/L | 0.0158363 | 2.54% |
| Mg 279.077† | 5.0 | 0.143247 | mg/L | 0.0287849 | 0.143247 | mg/L | 0.0287849 | 20.09% |
| Mn 257.610† | 2.4 | 0.0018027 | mg/L | 0.00026247 | 0.0018027 | mg/L | 0.00026247 | 14.56% |
| Mo 202.031† | 6.1 | 0.0093607 | mg/L | 0.00302780 | 0.0093607 | mg/L | 0.00302780 | 32.35% |
| Na 589.592† | -475.8 | 0.322170 | mg/L | 0.0143208 | 0.322170 | mg/L | 0.0143208 | 4.45% |
| Ni 231.604† | -9.3 | -0.0009987 | mg/L | 0.00359192 | -0.0009987 | mg/L | 0.00359192 | 359.67% |
| Se 196.026† | -3.8 | -0.0146559 | mg/L | 0.04142766 | -0.0146559 | mg/L | 0.04142766 | 282.67% |
| Sn 189.927† | -0.2 | -0.0013481 | mg/L | 0.00325952 | -0.0013481 | mg/L | 0.00325952 | 241.79% |
| Ti 334.940† | 0.8 | 0.0032832 | mg/L | 0.00127317 | 0.0032832 | mg/L | 0.00127317 | 38.78% |
| V 290.880† | 1.9 | 0.0049394 | mg/L | 0.00096746 | 0.0049394 | mg/L | 0.00096746 | 19.59% |
| Zn 206.200† | 6.8 | 0.0049230 | mg/L | 0.00235478 | 0.0049230 | mg/L | 0.00235478 | 47.83% |
| Si 251.611† | 16.2 | -0.0841006 | mg/L | 0.00119379 | -0.0841006 | mg/L | 0.00119379 | 1.42% |
| B 249.772† | 18.8 | 0.0042135 | mg/L | 0.00155706 | 0.0042135 | mg/L | 0.00155706 | 36.95% |
| Ce 413.764† | 29.8 | 0.0090257 | mg/L | 0.00510320 | 0.0090257 | mg/L | 0.00510320 | 56.54% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 10 Autosampler Location: 5
Sample ID: LLICV V-352961 Date Collected: 9/28/2021 4:06:37 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LLICV V-352961

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 123317.9 | 101 | % | 0.31 | 101 | % | 0.31 | 0.31% |
| Y 371.029 | 43452.8 | 98.7 | % | 0.55 | 98.7 | % | 0.55 | 0.56% |
| Al 308.215† | 158.4 | 0.235570 | mg/L | 0.0072413 | 0.235570 | mg/L | 0.0072413 | 3.07% |
| QC value within limits for Al 308.215 Recovery = 117.78% | | | | | | | | |
| Ba 233.527† | 210.9 | 0.0540933 | mg/L | 0.00087209 | 0.0540933 | mg/L | 0.00087209 | 1.61% |
| QC value within limits for Ba 233.527 Recovery = 108.19% | | | | | | | | |
| Ca 315.887† | 22728.7 | 5.28033 | mg/L | 0.006790 | 5.28033 | mg/L | 0.006790 | 0.13% |
| QC value within limits for Ca 315.887 Recovery = 105.61% | | | | | | | | |
| Cu 327.393† | 227.8 | 0.0604834 | mg/L | 0.00217084 | 0.0604834 | mg/L | 0.00217084 | 3.59% |
| QC value greater than the upper limit for Cu 327.393 Recovery = 120.97% | | | | | | | | |
| Fe 273.955† | 313.8 | 0.327783 | mg/L | 0.0062523 | 0.327783 | mg/L | 0.0062523 | 1.91% |
| QC value within limits for Fe 273.955 Recovery = 109.26% | | | | | | | | |
| K 766.490† | 7978.1 | 5.48545 | mg/L | 0.008302 | 5.48545 | mg/L | 0.008302 | 0.15% |
| QC value within limits for K 766.490 Recovery = 109.71% | | | | | | | | |
| Mg 279.077† | 2917.5 | 5.24489 | mg/L | 0.027572 | 5.24489 | mg/L | 0.027572 | 0.53% |
| QC value within limits for Mg 279.077 Recovery = 104.90% | | | | | | | | |
| Mn 257.610† | 1036.2 | 0.0429627 | mg/L | 0.00005843 | 0.0429627 | mg/L | 0.00005843 | 0.14% |
| QC value within limits for Mn 257.610 Recovery = 107.41% | | | | | | | | |
| Mo 202.031† | 25.1 | 0.0246456 | mg/L | 0.00221075 | 0.0246456 | mg/L | 0.00221075 | 8.97% |
| QC value greater than the upper limit for Mo 202.031 Recovery = 123.23% | | | | | | | | |
| Na 589.592† | 40856.5 | 5.33844 | mg/L | 0.016028 | 5.33844 | mg/L | 0.016028 | 0.30% |
| QC value within limits for Na 589.592 Recovery = 106.77% | | | | | | | | |
| Ni 231.604† | 74.7 | 0.0490899 | mg/L | 0.00517724 | 0.0490899 | mg/L | 0.00517724 | 10.55% |
| QC value within limits for Ni 231.604 Recovery = 98.18% | | | | | | | | |
| Se 196.026† | 11.2 | 0.0482896 | mg/L | 0.02183133 | 0.0482896 | mg/L | 0.02183133 | 45.21% |
| QC value within limits for Se 196.026 Recovery = 96.58% | | | | | | | | |
| Sn 189.927† | 13.7 | 0.0492771 | mg/L | 0.02185403 | 0.0492771 | mg/L | 0.02185403 | 44.35% |
| QC value within limits for Sn 189.927 Recovery = 98.55% | | | | | | | | |
| Ti 334.940† | 1940.6 | 0.0531629 | mg/L | 0.00109156 | 0.0531629 | mg/L | 0.00109156 | 2.05% |
| QC value within limits for Ti 334.940 Recovery = 106.33% | | | | | | | | |
| V 290.880† | 348.1 | 0.0503383 | mg/L | 0.00205722 | 0.0503383 | mg/L | 0.00205722 | 4.09% |
| QC value within limits for V 290.880 Recovery = 100.68% | | | | | | | | |
| Zn 206.200† | 167.1 | 0.0542113 | mg/L | 0.00078638 | 0.0542113 | mg/L | 0.00078638 | 1.45% |
| QC value within limits for Zn 206.200 Recovery = 108.42% | | | | | | | | |
| Si 251.611† | 1070.1 | 0.362587 | mg/L | 0.0054007 | 0.362587 | mg/L | 0.0054007 | 1.49% |
| QC value greater than the upper limit for Si 251.611 Recovery = 181.29% | | | | | | | | |
| B 249.772† | 1279.9 | 0.209489 | mg/L | 0.0010139 | 0.209489 | mg/L | 0.0010139 | 0.48% |
| QC value within limits for B 249.772 Recovery = 104.74% | | | | | | | | |
| Ce 413.764† | 796.7 | 0.215924 | mg/L | 0.0073659 | 0.215924 | mg/L | 0.0073659 | 3.41% |
| QC value within limits for Ce 413.764 Recovery = 107.96% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 11 Autosampler Location: 7
Sample ID: ICSA V-352957 Date Collected: 9/28/2021 4:10:31 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICSA V-352957

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 115172.0 | 94.0 | % | 0.16 | 94.0 | % | 0.16 | 0.17% |
| Y 371.029 | 40016.8 | 90.9 | % | 0.23 | 90.9 | % | 0.23 | 0.25% |
| Al 308.215† | 424873.3 | 515.361 | mg/L | 0.4978 | 515.361 | mg/L | 0.4978 | 0.10% |
| QC value within limits for Al 308.215 Recovery = 103.07% | | | | | | | | |
| Ba 233.527† | 1134.5 | 0.170727 | mg/L | 0.0020017 | 0.170727 | mg/L | 0.0020017 | 1.17% |
| Ca 315.887† | 2252740.4 | 488.872 | mg/L | 0.3831 | 488.872 | mg/L | 0.3831 | 0.08% |
| QC value within limits for Ca 315.887 Recovery = 97.77% | | | | | | | | |
| Cu 327.393† | -774.5 | 0.0489541 | mg/L | 0.00289974 | 0.0489541 | mg/L | 0.00289974 | 5.92% |
| Fe 273.955† | 192293.5 | 189.206 | mg/L | 0.3469 | 189.206 | mg/L | 0.3469 | 0.18% |
| QC value within limits for Fe 273.955 Recovery = 94.60% | | | | | | | | |
| K 766.490† | 340.9 | 0.788353 | mg/L | 0.0127489 | 0.788353 | mg/L | 0.0127489 | 1.62% |
| Mg 279.077† | 280079.8 | 490.728 | mg/L | 0.5519 | 490.728 | mg/L | 0.5519 | 0.11% |
| QC value within limits for Mg 279.077 Recovery = 98.15% | | | | | | | | |
| Mn 257.610† | 66.5 | 0.0965890 | mg/L | 0.00116654 | 0.0965890 | mg/L | 0.00116654 | 1.21% |
| Mo 202.031† | -30.2 | -0.0197669 | mg/L | 0.00986360 | -0.0197669 | mg/L | 0.00986360 | 49.90% |
| Na 589.592† | 2321.2 | 0.661620 | mg/L | 0.0489156 | 0.661620 | mg/L | 0.0489156 | 7.39% |
| Ni 231.604† | 82.0 | 0.0478380 | mg/L | 0.00584380 | 0.0478380 | mg/L | 0.00584380 | 12.22% |
| Se 196.026† | -35.6 | 0.0312423 | mg/L | 0.03740236 | 0.0312423 | mg/L | 0.03740236 | 119.72% |
| Sn 189.927† | -109.1 | -0.260675 | mg/L | 0.0166368 | -0.260675 | mg/L | 0.0166368 | 6.38% |
| Ti 334.940† | -3523.8 | -0.0064864 | mg/L | 0.00072278 | -0.0064864 | mg/L | 0.00072278 | 11.14% |
| V 290.880† | 3062.0 | 0.226890 | mg/L | 0.0109642 | 0.226890 | mg/L | 0.0109642 | 4.83% |
| Zn 206.200† | 96.9 | 0.0326315 | mg/L | 0.00196047 | 0.0326315 | mg/L | 0.00196047 | 6.01% |
| Si 251.611† | -12.7 | -0.0963334 | mg/L | 0.00349400 | -0.0963334 | mg/L | 0.00349400 | 3.63% |
| B 249.772† | 3113.0 | -0.253826 | mg/L | 0.0041702 | -0.253826 | mg/L | 0.0041702 | 1.64% |
| Ce 413.764† | -361.9 | -0.0966623 | mg/L | 0.00162940 | -0.0966623 | mg/L | 0.00162940 | 1.69% |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 12 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/28/2021 4:15:53 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 121986.9 | 99.6 | % | 0.54 | 99.6 | % | 0.54 | 0.54% |
| Y 371.029 | 41455.0 | 94.1 | % | 1.00 | 94.1 | % | 1.00 | 1.06% |
| Al 308.215† | 4002.9 | 4.92564 | mg/L | 0.019496 | 4.92564 | mg/L | 0.019496 | 0.40% |
| QC value within limits for Al 308.215 Recovery = 98.51% | | | | | | | | |
| Ba 233.527† | 2000.2 | 0.480670 | mg/L | 0.0039640 | 0.480670 | mg/L | 0.0039640 | 0.82% |
| QC value within limits for Ba 233.527 Recovery = 96.13% | | | | | | | | |
| Ca 315.887† | 221700.1 | 48.4285 | mg/L | 0.18462 | 48.4285 | mg/L | 0.18462 | 0.38% |
| QC value within limits for Ca 315.887 Recovery = 96.86% | | | | | | | | |
| Cu 327.393† | 2073.3 | 0.515433 | mg/L | 0.0050557 | 0.515433 | mg/L | 0.0050557 | 0.98% |
| QC value within limits for Cu 327.393 Recovery = 103.09% | | | | | | | | |
| Fe 273.955† | 4920.0 | 4.85958 | mg/L | 0.025371 | 4.85958 | mg/L | 0.025371 | 0.52% |
| QC value within limits for Fe 273.955 Recovery = 97.19% | | | | | | | | |
| K 766.490† | 78258.1 | 48.7095 | mg/L | 0.16880 | 48.7095 | mg/L | 0.16880 | 0.35% |
| QC value within limits for K 766.490 Recovery = 97.42% | | | | | | | | |
| Mg 279.077† | 27561.9 | 48.4126 | mg/L | 0.38618 | 48.4126 | mg/L | 0.38618 | 0.80% |
| QC value within limits for Mg 279.077 Recovery = 96.83% | | | | | | | | |
| Mn 257.610† | 12535.6 | 0.498250 | mg/L | 0.0045598 | 0.498250 | mg/L | 0.0045598 | 0.92% |
| QC value within limits for Mn 257.610 Recovery = 99.65% | | | | | | | | |
| Mo 202.031† | 595.5 | 0.482338 | mg/L | 0.0030426 | 0.482338 | mg/L | 0.0030426 | 0.63% |
| QC value within limits for Mo 202.031 Recovery = 96.47% | | | | | | | | |
| Na 589.592† | 405208.8 | 49.5579 | mg/L | 0.13525 | 49.5579 | mg/L | 0.13525 | 0.27% |
| QC value within limits for Na 589.592 Recovery = 99.12% | | | | | | | | |
| Ni 231.604† | 806.1 | 0.485612 | mg/L | 0.0035260 | 0.485612 | mg/L | 0.0035260 | 0.73% |
| QC value within limits for Ni 231.604 Recovery = 97.12% | | | | | | | | |
| Se 196.026† | 116.2 | 0.492689 | mg/L | 0.0373057 | 0.492689 | mg/L | 0.0373057 | 7.57% |
| QC value within limits for Se 196.026 Recovery = 98.54% | | | | | | | | |
| Sn 189.927† | 131.3 | 0.479083 | mg/L | 0.0048894 | 0.479083 | mg/L | 0.0048894 | 1.02% |
| QC value within limits for Sn 189.927 Recovery = 95.82% | | | | | | | | |
| Ti 334.940† | 19076.7 | 0.493728 | mg/L | 0.0031118 | 0.493728 | mg/L | 0.0031118 | 0.63% |
| QC value within limits for Ti 334.940 Recovery = 98.75% | | | | | | | | |
| V 290.880† | 3524.7 | 0.468379 | mg/L | 0.0025895 | 0.468379 | mg/L | 0.0025895 | 0.55% |
| QC value within limits for V 290.880 Recovery = 93.68% | | | | | | | | |
| Zn 206.200† | 1561.5 | 0.483185 | mg/L | 0.0032800 | 0.483185 | mg/L | 0.0032800 | 0.68% |
| QC value within limits for Zn 206.200 Recovery = 96.64% | | | | | | | | |
| Si 251.611† | 11430.1 | 4.75357 | mg/L | 0.040573 | 4.75357 | mg/L | 0.040573 | 0.85% |
| QC value within limits for Si 251.611 Recovery = 95.07% | | | | | | | | |
| B 249.772† | 2894.9 | 0.455583 | mg/L | 0.0059331 | 0.455583 | mg/L | 0.0059331 | 1.30% |
| QC value within limits for B 249.772 Recovery = 91.12% | | | | | | | | |
| Ce 413.764† | 1844.1 | 0.498476 | mg/L | 0.0128333 | 0.498476 | mg/L | 0.0128333 | 2.57% |
| QC value within limits for Ce 413.764 Recovery = 99.70% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 13 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/28/2021 4:20:01 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 121129.7 | 98.9 | % | 0.79 | 98.9 | % | 0.79 | 0.79% |
| Y 371.029 | 43433.1 | 98.6 | % | 0.80 | 98.6 | % | 0.80 | 0.81% |
| Al 308.215† | 1.7 | 0.0435940 | mg/L | 0.01755597 | 0.0435940 | mg/L | 0.01755597 | 40.27% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 2.3 | 0.0042446 | mg/L | 0.00085528 | 0.0042446 | mg/L | 0.00085528 | 20.15% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -51.8 | 0.340238 | mg/L | 0.0021632 | 0.340238 | mg/L | 0.0021632 | 0.64% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -6.1 | 0.0030721 | mg/L | 0.00763530 | 0.0030721 | mg/L | 0.00763530 | 248.54% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -0.5 | 0.0186112 | mg/L | 0.00586118 | 0.0186112 | mg/L | 0.00586118 | 31.49% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -10.1 | 0.572481 | mg/L | 0.0248542 | 0.572481 | mg/L | 0.0248542 | 4.34% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 7.7 | 0.148062 | mg/L | 0.0046095 | 0.148062 | mg/L | 0.0046095 | 3.11% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -0.8 | 0.0016773 | mg/L | 0.00012582 | 0.0016773 | mg/L | 0.00012582 | 7.50% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -3.7 | 0.0015157 | mg/L | 0.00405547 | 0.0015157 | mg/L | 0.00405547 | 267.56% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -1505.1 | 0.197240 | mg/L | 0.0055291 | 0.197240 | mg/L | 0.0055291 | 2.80% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -7.8 | -0.0001139 | mg/L | 0.00436835 | -0.0001139 | mg/L | 0.00436835 | >999.9% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 0.3 | 0.0026183 | mg/L | 0.02173437 | 0.0026183 | mg/L | 0.02173437 | 830.10% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 3.0 | 0.0098669 | mg/L | 0.00847905 | 0.0098669 | mg/L | 0.00847905 | 85.93% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -25.3 | 0.0026203 | mg/L | 0.00047732 | 0.0026203 | mg/L | 0.00047732 | 18.22% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -3.4 | 0.0042103 | mg/L | 0.00129175 | 0.0042103 | mg/L | 0.00129175 | 30.68% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -0.7 | 0.0026145 | mg/L | 0.00208898 | 0.0026145 | mg/L | 0.00208898 | 79.90% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 82.6 | -0.0559414 | mg/L | 0.05687614 | -0.0559414 | mg/L | 0.05687614 | 101.67% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 4.0 | 0.0018425 | mg/L | 0.00192295 | 0.0018425 | mg/L | 0.00192295 | 104.37% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 55.5 | 0.0159571 | mg/L | 0.00739387 | 0.0159571 | mg/L | 0.00739387 | 46.34% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 14
Autosampler Location: 39
Sample ID: MB 94427 (1)
Date Collected: 9/28/2021 4:23:53 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: MB 94427 (1)

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 121477.2 | 99.2 | % | 0.31 | 99.2 | % | 0.31 | 0.31% |
| Y 371.029 | 43710.4 | 99.3 | % | 0.52 | 99.3 | % | 0.52 | 0.52% |
| Al 308.215† | -5.4 | 0.0350101 | mg/L | 0.00577065 | 0.0350101 | mg/L | 0.00577065 | 16.48% |
| Ba 233.527† | -6.8 | 0.0020501 | mg/L | 0.00066984 | 0.0020501 | mg/L | 0.00066984 | 32.67% |
| Ca 315.887† | 112.2 | 0.375801 | mg/L | 0.0038818 | 0.375801 | mg/L | 0.0038818 | 1.03% |
| Cu 327.393† | 7.2 | 0.0062327 | mg/L | 0.00169395 | 0.0062327 | mg/L | 0.00169395 | 27.18% |
| Fe 273.955† | 1.9 | 0.0209551 | mg/L | 0.00542394 | 0.0209551 | mg/L | 0.00542394 | 25.88% |
| K 766.490† | 86.0 | 0.631546 | mg/L | 0.0149635 | 0.631546 | mg/L | 0.0149635 | 2.37% |
| Mg 279.077† | 3.8 | 0.141198 | mg/L | 0.0046272 | 0.141198 | mg/L | 0.0046272 | 3.28% |
| Mn 257.610† | 34.7 | 0.0030552 | mg/L | 0.00004801 | 0.0030552 | mg/L | 0.00004801 | 1.57% |
| Mo 202.031† | -1.5 | 0.0033160 | mg/L | 0.00088588 | 0.0033160 | mg/L | 0.00088588 | 26.72% |
| Na 589.592† | -242.4 | 0.350489 | mg/L | 0.0128467 | 0.350489 | mg/L | 0.0128467 | 3.67% |
| Ni 231.604† | -10.1 | -0.0015325 | mg/L | 0.00353934 | -0.0015325 | mg/L | 0.00353934 | 230.95% |
| Se 196.026† | 2.2 | 0.0102779 | mg/L | 0.00850036 | 0.0102779 | mg/L | 0.00850036 | 82.71% |
| Sn 189.927† | -0.2 | -0.0015239 | mg/L | 0.01395736 | -0.0015239 | mg/L | 0.01395736 | 915.88% |
| Ti 334.940† | -34.9 | 0.0023838 | mg/L | 0.00099226 | 0.0023838 | mg/L | 0.00099226 | 41.63% |
| V 290.880† | -0.7 | 0.0045855 | mg/L | 0.00202917 | 0.0045855 | mg/L | 0.00202917 | 44.25% |
| Zn 206.200† | 38.0 | 0.0145028 | mg/L | 0.00200506 | 0.0145028 | mg/L | 0.00200506 | 13.83% |
| Si 251.611† | 21.2 | -0.0819438 | mg/L | 0.00559212 | -0.0819438 | mg/L | 0.00559212 | 6.82% |
| B 249.772† | 2.2 | 0.0015361 | mg/L | 0.00174545 | 0.0015361 | mg/L | 0.00174545 | 113.63% |
| Ce 413.764† | 33.1 | 0.0099023 | mg/L | 0.00886111 | 0.0099023 | mg/L | 0.00886111 | 89.49% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 15
Autosampler Location: 40
Sample ID: LCS 94427
Date Collected: 9/28/2021 4:27:46 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LCS 94427

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 121862.7 | 99.5 | % | 0.37 | 99.5 | % | 0.37 | 0.38% |
| Y 371.029 | 41589.3 | 94.4 | % | 0.76 | 94.4 | % | 0.76 | 0.81% |
| Al 308.215† | 4012.6 | 4.93777 | mg/L | 0.032779 | 4.93777 | mg/L | 0.032779 | 0.66% |
| Ba 233.527† | 2012.9 | 0.483692 | mg/L | 0.0043484 | 0.483692 | mg/L | 0.0043484 | 0.90% |
| Ca 315.887† | 222977.9 | 48.7056 | mg/L | 0.10596 | 48.7056 | mg/L | 0.10596 | 0.22% |
| Cu 327.393† | 2067.8 | 0.514257 | mg/L | 0.0075821 | 0.514257 | mg/L | 0.0075821 | 1.47% |
| Fe 273.955† | 4973.2 | 4.91190 | mg/L | 0.071979 | 4.91190 | mg/L | 0.071979 | 1.47% |
| K 766.490† | 78308.6 | 48.7406 | mg/L | 0.09649 | 48.7406 | mg/L | 0.09649 | 0.20% |
| Mg 279.077† | 27710.5 | 48.6728 | mg/L | 0.50638 | 48.6728 | mg/L | 0.50638 | 1.04% |
| Mn 257.610† | 12578.4 | 0.499965 | mg/L | 0.0043253 | 0.499965 | mg/L | 0.0043253 | 0.87% |
| Mo 202.031† | 605.3 | 0.490256 | mg/L | 0.0056206 | 0.490256 | mg/L | 0.0056206 | 1.15% |
| Na 589.592† | 405107.1 | 49.5455 | mg/L | 0.02780 | 49.5455 | mg/L | 0.02780 | 0.06% |
| Ni 231.604† | 825.5 | 0.497145 | mg/L | 0.0065831 | 0.497145 | mg/L | 0.0065831 | 1.32% |
| Se 196.026† | 114.4 | 0.484999 | mg/L | 0.0029225 | 0.484999 | mg/L | 0.0029225 | 0.60% |
| Sn 189.927† | 134.9 | 0.491786 | mg/L | 0.0130172 | 0.491786 | mg/L | 0.0130172 | 2.65% |
| Ti 334.940† | 19307.2 | 0.499604 | mg/L | 0.0050584 | 0.499604 | mg/L | 0.0050584 | 1.01% |
| V 290.880† | 3611.7 | 0.480210 | mg/L | 0.0088022 | 0.480210 | mg/L | 0.0088022 | 1.83% |
| Zn 206.200† | 1578.0 | 0.488253 | mg/L | 0.0033017 | 0.488253 | mg/L | 0.0033017 | 0.68% |
| Si 251.611† | 1273.2 | 0.448669 | mg/L | 0.0029369 | 0.448669 | mg/L | 0.0029369 | 0.65% |
| B 249.772† | 2989.3 | 0.470824 | mg/L | 0.0045408 | 0.470824 | mg/L | 0.0045408 | 0.96% |
| Ce 413.764† | 2007.3 | 0.542516 | mg/L | 0.0183782 | 0.542516 | mg/L | 0.0183782 | 3.39% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 16
Autosampler Location: 41
Sample ID: LCS MR 94427
Date Collected: 9/28/2021 4:31:54 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LCS MR 94427

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 121804.8 | 99.4 | % | 1.26 | 99.4 | % | 1.26 | 1.27% |
| Y 371.029 | 41986.4 | 95.3 | % | 0.14 | 95.3 | % | 0.14 | 0.15% |
| Al 308.215† | 4079.5 | 5.01873 | mg/L | 0.065416 | 5.01873 | mg/L | 0.065416 | 1.30% |
| Ba 233.527† | 2018.7 | 0.485042 | mg/L | 0.0078716 | 0.485042 | mg/L | 0.0078716 | 1.62% |
| Ca 315.887† | 224311.2 | 48.9948 | mg/L | 0.02900 | 48.9948 | mg/L | 0.02900 | 0.06% |
| Cu 327.393† | 2105.6 | 0.523309 | mg/L | 0.0046589 | 0.523309 | mg/L | 0.0046589 | 0.89% |
| Fe 273.955† | 5054.4 | 4.99177 | mg/L | 0.046199 | 4.99177 | mg/L | 0.046199 | 0.93% |
| K 766.490† | 78844.4 | 49.0701 | mg/L | 0.19067 | 49.0701 | mg/L | 0.19067 | 0.39% |
| Mg 279.077† | 28066.4 | 49.2963 | mg/L | 0.57493 | 49.2963 | mg/L | 0.57493 | 1.17% |
| Mn 257.610† | 12765.2 | 0.507347 | mg/L | 0.0052927 | 0.507347 | mg/L | 0.0052927 | 1.04% |
| Mo 202.031† | 603.1 | 0.488483 | mg/L | 0.0063607 | 0.488483 | mg/L | 0.0063607 | 1.30% |
| Na 589.592† | 408230.1 | 49.9245 | mg/L | 0.17992 | 49.9245 | mg/L | 0.17992 | 0.36% |
| Ni 231.604† | 823.8 | 0.496194 | mg/L | 0.0041218 | 0.496194 | mg/L | 0.0041218 | 0.83% |
| Se 196.026† | 112.0 | 0.475007 | mg/L | 0.0083013 | 0.475007 | mg/L | 0.0083013 | 1.75% |
| Sn 189.927† | 136.2 | 0.496732 | mg/L | 0.0115919 | 0.496732 | mg/L | 0.0115919 | 2.33% |
| Ti 334.940† | 19571.5 | 0.506337 | mg/L | 0.0066755 | 0.506337 | mg/L | 0.0066755 | 1.32% |
| V 290.880† | 3601.3 | 0.478528 | mg/L | 0.0063709 | 0.478528 | mg/L | 0.0063709 | 1.33% |
| Zn 206.200† | 1586.9 | 0.491017 | mg/L | 0.0106718 | 0.491017 | mg/L | 0.0106718 | 2.17% |
| Si 251.611† | 1273.5 | 0.448817 | mg/L | 0.0100087 | 0.448817 | mg/L | 0.0100087 | 2.23% |
| B 249.772† | 3012.7 | 0.474337 | mg/L | 0.0062224 | 0.474337 | mg/L | 0.0062224 | 1.31% |
| Ce 413.764† | 2056.1 | 0.555676 | mg/L | 0.0128920 | 0.555676 | mg/L | 0.0128920 | 2.32% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 17
Autosampler Location: 42
Sample ID: AD26083-048
Date Collected: 9/28/2021 4:36:03 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-048

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 108484.5 | 88.6 | % | 1.15 | 88.6 | % | 1.15 | 1.30% |
| Y 371.029 | 37560.2 | 85.3 | % | 1.22 | 85.3 | % | 1.22 | 1.43% |
| Al 308.215† | 78.7 | 0.162251 | mg/L | 0.0088117 | 0.162251 | mg/L | 0.0088117 | 5.43% |
| Ba 233.527† | 1470.6 | 0.342069 | mg/L | 0.0057804 | 0.342069 | mg/L | 0.0057804 | 1.69% |
| Ca 315.887† | 716989.0 | 155.835 | mg/L | 0.4981 | 155.835 | mg/L | 0.4981 | 0.32% |
| Cu 327.393† | -220.4 | 0.0248150 | mg/L | 0.00351690 | 0.0248150 | mg/L | 0.00351690 | 14.17% |
| Fe 273.955† | 26176.0 | 25.7721 | mg/L | 0.05089 | 25.7721 | mg/L | 0.05089 | 0.20% |
| K 766.490† | 174573.3 | 107.946 | mg/L | 0.3764 | 107.946 | mg/L | 0.3764 | 0.35% |
| Mg 279.077† | 150069.5 | 263.000 | mg/L | 0.5641 | 263.000 | mg/L | 0.5641 | 0.21% |
| Mn 257.610† | 59690.2 | 2.37229 | mg/L | 0.006154 | 2.37229 | mg/L | 0.006154 | 0.26% |
| Mo 202.031† | -3.7 | 0.0014827 | mg/L | 0.00102541 | 0.0014827 | mg/L | 0.00102541 | 69.16% |
| Na 589.592† | 22638018.6 | 2747.83 | mg/L | 24.567 | 2747.83 | mg/L | 24.567 | 0.89% |
| Ni 231.604† | -7.0 | 0.0100365 | mg/L | 0.00328435 | 0.0100365 | mg/L | 0.00328435 | 32.72% |
| Se 196.026† | -2.0 | 0.0173645 | mg/L | 0.01925004 | 0.0173645 | mg/L | 0.01925004 | 110.86% |
| Sn 189.927† | -69.1 | -0.189349 | mg/L | 0.0343944 | -0.189349 | mg/L | 0.0343944 | 18.16% |
| Ti 334.940† | -927.8 | 0.0050615 | mg/L | 0.00048178 | 0.0050615 | mg/L | 0.00048178 | 9.52% |
| V 290.880† | 2002.0 | 0.173273 | mg/L | 0.0117862 | 0.173273 | mg/L | 0.0117862 | 6.80% |
| Zn 206.200† | 101.5 | 0.0340327 | mg/L | 0.00212425 | 0.0340327 | mg/L | 0.00212425 | 6.24% |
| Si 251.611† | 19345.5 | 8.10842 | mg/L | 0.011962 | 8.10842 | mg/L | 0.011962 | 0.15% |
| B 249.772† | 9490.4 | 1.45090 | mg/L | 0.005786 | 1.45090 | mg/L | 0.005786 | 0.40% |
| Ce 413.764† | -2.6 | 0.0002677 | mg/L | 0.01058653 | 0.0002677 | mg/L | 0.01058653 | >999.9% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 18
Autosampler Location: 43
Sample ID: AD26083-048 MR
Date Collected: 9/28/2021 4:41:40 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-048 MR

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 111753.5 | 91.2 | % | 0.83 | 91.2 | % | 0.83 | 0.91% |
| Y 371.029 | 38746.5 | 88.0 | % | 0.80 | 88.0 | % | 0.80 | 0.91% |
| Al 308.215† | 76.3 | 0.158286 | mg/L | 0.0111837 | 0.158286 | mg/L | 0.0111837 | 7.07% |
| Ba 233.527† | 1484.6 | 0.345476 | mg/L | 0.0032299 | 0.345476 | mg/L | 0.0032299 | 0.93% |
| Ca 315.887† | 713436.3 | 155.065 | mg/L | 0.2756 | 155.065 | mg/L | 0.2756 | 0.18% |
| Cu 327.393† | -224.0 | 0.0236079 | mg/L | 0.00295710 | 0.0236079 | mg/L | 0.00295710 | 12.53% |
| Fe 273.955† | 26073.1 | 25.6709 | mg/L | 0.06773 | 25.6709 | mg/L | 0.06773 | 0.26% |
| K 766.490† | 175336.0 | 108.415 | mg/L | 0.3964 | 108.415 | mg/L | 0.3964 | 0.37% |
| Mg 279.077† | 149192.2 | 261.463 | mg/L | 0.4708 | 261.463 | mg/L | 0.4708 | 0.18% |
| Mn 257.610† | 59239.0 | 2.35445 | mg/L | 0.008712 | 2.35445 | mg/L | 0.008712 | 0.37% |
| Mo 202.031† | -3.8 | 0.0014187 | mg/L | 0.00251675 | 0.0014187 | mg/L | 0.00251675 | 177.40% |
| Na 589.592† | 22089862.4 | 2681.30 | mg/L | 10.869 | 2681.30 | mg/L | 10.869 | 0.41% |
| Ni 231.604† | -5.4 | 0.0109279 | mg/L | 0.00291233 | 0.0109279 | mg/L | 0.00291233 | 26.65% |
| Se 196.026† | -9.7 | -0.0150114 | mg/L | 0.01236173 | -0.0150114 | mg/L | 0.01236173 | 82.35% |
| Sn 189.927† | -79.9 | -0.227952 | mg/L | 0.0457374 | -0.227952 | mg/L | 0.0457374 | 20.06% |
| Ti 334.940† | -951.5 | 0.0043361 | mg/L | 0.00055925 | 0.0043361 | mg/L | 0.00055925 | 12.90% |
| V 290.880† | 1912.8 | 0.161667 | mg/L | 0.0060913 | 0.161667 | mg/L | 0.0060913 | 3.77% |
| Zn 206.200† | 101.9 | 0.0341710 | mg/L | 0.00169344 | 0.0341710 | mg/L | 0.00169344 | 4.96% |
| Si 251.611† | 19086.6 | 7.99868 | mg/L | 0.009988 | 7.99868 | mg/L | 0.009988 | 0.12% |
| B 249.772† | 9431.3 | 1.44163 | mg/L | 0.002037 | 1.44163 | mg/L | 0.002037 | 0.14% |
| Ce 413.764† | -57.2 | -0.0144476 | mg/L | 0.00781446 | -0.0144476 | mg/L | 0.00781446 | 54.09% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 19
Autosampler Location: 44
Sample ID: AD26083-049 MS 1
Date Collected: 9/28/2021 4:47:18 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-049 MS 1

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 113720.1 | 92.8 | % | 0.01 | 92.8 | % | 0.01 | 0.01% |
| Y 371.029 | 40526.2 | 92.0 | % | 0.01 | 92.0 | % | 0.01 | 0.02% |
| Al 308.215† | 18970.3 | 23.1025 | mg/L | 0.06084 | 23.1025 | mg/L | 0.06084 | 0.26% |
| Ba 233.527† | 3389.2 | 0.794902 | mg/L | 0.0083912 | 0.794902 | mg/L | 0.0083912 | 1.06% |
| Ca 315.887† | 1165809.0 | 253.165 | mg/L | 1.4410 | 253.165 | mg/L | 1.4410 | 0.57% |
| Cu 327.393† | 1729.3 | 0.529475 | mg/L | 0.0047376 | 0.529475 | mg/L | 0.0047376 | 0.89% |
| Fe 273.955† | 39452.5 | 38.8341 | mg/L | 0.11260 | 38.8341 | mg/L | 0.11260 | 0.29% |
| K 766.490† | 253323.7 | 156.380 | mg/L | 1.0426 | 156.380 | mg/L | 1.0426 | 0.67% |
| Mg 279.077† | 191131.1 | 334.924 | mg/L | 1.9204 | 334.924 | mg/L | 1.9204 | 0.57% |
| Mn 257.610† | 79093.1 | 3.14032 | mg/L | 0.011162 | 3.14032 | mg/L | 0.011162 | 0.36% |
| Mo 202.031† | 536.0 | 0.434628 | mg/L | 0.0076518 | 0.434628 | mg/L | 0.0076518 | 1.76% |
| Na 589.592† | 23039438.5 | 2796.55 | mg/L | 10.805 | 2796.55 | mg/L | 10.805 | 0.39% |
| Ni 231.604† | 812.0 | 0.499156 | mg/L | 0.0036960 | 0.499156 | mg/L | 0.0036960 | 0.74% |
| Se 196.026† | 94.0 | 0.431813 | mg/L | 0.0414184 | 0.431813 | mg/L | 0.0414184 | 9.59% |
| Sn 189.927† | 55.6 | 0.276009 | mg/L | 0.0178415 | 0.276009 | mg/L | 0.0178415 | 6.46% |
| Ti 334.940† | 42320.4 | 1.11508 | mg/L | 0.002311 | 1.11508 | mg/L | 0.002311 | 0.21% |
| V 290.880† | 5442.0 | 0.615852 | mg/L | 0.0087162 | 0.615852 | mg/L | 0.0087162 | 1.42% |
| Zn 206.200† | 1690.5 | 0.522876 | mg/L | 0.0079137 | 0.522876 | mg/L | 0.0079137 | 1.51% |
| Si 251.611† | 93404.3 | 39.4974 | mg/L | 0.13569 | 39.4974 | mg/L | 0.13569 | 0.34% |
| B 249.772† | 11955.9 | 1.80178 | mg/L | 0.003046 | 1.80178 | mg/L | 0.003046 | 0.17% |
| Ce 413.764† | 1987.2 | 0.537085 | mg/L | 0.0166118 | 0.537085 | mg/L | 0.0166118 | 3.09% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 20
Autosampler Location: 45
Sample ID: AD26083-050 MS 2
Date Collected: 9/28/2021 4:53:10 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-050 MS 2

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 117844.5 | 96.2 | % | 3.11 | 96.2 | % | 3.11 | 3.23% |
| Y 371.029 | 42223.9 | 95.9 | % | 3.13 | 95.9 | % | 3.13 | 3.26% |
| Al 308.215† | 26634.6 | 32.3995 | mg/L | 0.22271 | 32.3995 | mg/L | 0.22271 | 0.69% |
| Ba 233.527† | 3504.6 | 0.816742 | mg/L | 0.0104903 | 0.816742 | mg/L | 0.0104903 | 1.28% |
| Ca 315.887† | 1242645.5 | 269.827 | mg/L | 4.0310 | 269.827 | mg/L | 4.0310 | 1.49% |
| Cu 327.393† | 1708.1 | 0.532225 | mg/L | 0.0026855 | 0.532225 | mg/L | 0.0026855 | 0.50% |
| Fe 273.955† | 50141.9 | 49.3508 | mg/L | 0.13768 | 49.3508 | mg/L | 0.13768 | 0.28% |
| K 766.490† | 244005.0 | 150.648 | mg/L | 1.8618 | 150.648 | mg/L | 1.8618 | 1.24% |
| Mg 279.077† | 191655.7 | 335.843 | mg/L | 4.7389 | 335.843 | mg/L | 4.7389 | 1.41% |
| Mn 257.610† | 84425.9 | 3.34787 | mg/L | 0.007697 | 3.34787 | mg/L | 0.007697 | 0.23% |
| Mo 202.031† | 531.9 | 0.431333 | mg/L | 0.0033247 | 0.431333 | mg/L | 0.0033247 | 0.77% |
| Na 589.592† | 22553983.2 | 2737.63 | mg/L | 44.739 | 2737.63 | mg/L | 44.739 | 1.63% |
| Ni 231.604† | 847.9 | 0.523096 | mg/L | 0.0062435 | 0.523096 | mg/L | 0.0062435 | 1.19% |
| Se 196.026† | 100.6 | 0.469184 | mg/L | 0.0251841 | 0.469184 | mg/L | 0.0251841 | 5.37% |
| Sn 189.927† | 60.4 | 0.295099 | mg/L | 0.0283940 | 0.295099 | mg/L | 0.0283940 | 9.62% |
| Ti 334.940† | 55870.8 | 1.46062 | mg/L | 0.003264 | 1.46062 | mg/L | 0.003264 | 0.22% |
| V 290.880† | 5590.9 | 0.635892 | mg/L | 0.0047303 | 0.635892 | mg/L | 0.0047303 | 0.74% |
| Zn 206.200† | 1803.0 | 0.557494 | mg/L | 0.0093179 | 0.557494 | mg/L | 0.0093179 | 1.67% |
| Si 251.611† | 128215.0 | 54.2515 | mg/L | 0.28144 | 54.2515 | mg/L | 0.28144 | 0.52% |
| B 249.772† | 11775.5 | 1.72972 | mg/L | 0.010199 | 1.72972 | mg/L | 0.010199 | 0.59% |
| Ce 413.764† | 2009.1 | 0.543006 | mg/L | 0.0166225 | 0.543006 | mg/L | 0.0166225 | 3.06% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 21
Autosampler Location: 46
Sample ID: AD26083-048 PS
Date Collected: 9/28/2021 4:59:03 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-048 PS

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 124669.9 | 102 | % | 2.12 | 102 | % | 2.12 | 2.08% |
| Y 371.029 | 43627.8 | 99.1 | % | 2.01 | 99.1 | % | 2.01 | 2.03% |
| Al 308.215† | 4488.5 | 5.53876 | mg/L | 0.076624 | 5.53876 | mg/L | 0.076624 | 1.38% |
| Ba 233.527† | 3793.2 | 0.895948 | mg/L | 0.0088792 | 0.895948 | mg/L | 0.0088792 | 0.99% |
| Ca 315.887† | 962494.7 | 209.075 | mg/L | 8.7897 | 209.075 | mg/L | 8.7897 | 4.20% |
| Cu 327.393† | 2172.8 | 0.613505 | mg/L | 0.0044578 | 0.613505 | mg/L | 0.0044578 | 0.73% |
| Fe 273.955† | 31845.9 | 31.3504 | mg/L | 0.06533 | 31.3504 | mg/L | 0.06533 | 0.21% |
| K 766.490† | 279617.9 | 172.551 | mg/L | 6.9060 | 172.551 | mg/L | 6.9060 | 4.00% |
| Mg 279.077† | 178070.9 | 312.047 | mg/L | 0.9441 | 312.047 | mg/L | 0.9441 | 0.30% |
| Mn 257.610† | 74493.3 | 2.95715 | mg/L | 0.013483 | 2.95715 | mg/L | 0.013483 | 0.46% |
| Mo 202.031† | 683.8 | 0.553249 | mg/L | 0.0034121 | 0.553249 | mg/L | 0.0034121 | 0.62% |
| Na 589.592† | 22339125.3 | 2711.56 | mg/L | 62.434 | 2711.56 | mg/L | 62.434 | 2.30% |
| Ni 231.604† | 928.0 | 0.568057 | mg/L | 0.0015960 | 0.568057 | mg/L | 0.0015960 | 0.28% |
| Se 196.026† | 135.5 | 0.598596 | mg/L | 0.0242935 | 0.598596 | mg/L | 0.0242935 | 4.06% |
| Sn 189.927† | 91.6 | 0.395610 | mg/L | 0.0101678 | 0.395610 | mg/L | 0.0101678 | 2.57% |
| Ti 334.940† | 20703.8 | 0.561005 | mg/L | 0.0014090 | 0.561005 | mg/L | 0.0014090 | 0.25% |
| V 290.880† | 5602.0 | 0.646993 | mg/L | 0.0084767 | 0.646993 | mg/L | 0.0084767 | 1.31% |
| Zn 206.200† | 1893.9 | 0.585436 | mg/L | 0.0050058 | 0.585436 | mg/L | 0.0050058 | 0.86% |
| Si 251.611† | 20731.9 | 8.69604 | mg/L | 0.050669 | 8.69604 | mg/L | 0.050669 | 0.58% |
| B 249.772† | 12680.8 | 1.95071 | mg/L | 0.005007 | 1.95071 | mg/L | 0.005007 | 0.26% |
| Ce 413.764† | 1969.2 | 0.532235 | mg/L | 0.0139708 | 0.532235 | mg/L | 0.0139708 | 2.62% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 22
Sample ID: AD26083-048 SD
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 150
Autosampler Location: 47
Date Collected: 9/28/2021 5:04:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-048 SD

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 136166.1 | 111 | % | 0.61 | 111 | % | 0.61 | 0.55% |
| Y 371.029 | 46914.0 | 107 | % | 0.46 | 107 | % | 0.46 | 0.43% |
| Al 308.215† | 14.0 | 0.0641362 | mg/L | 0.00603795 | 0.0641362 | mg/L | 0.00603795 | 9.41% |
| Ba 233.527† | 302.0 | 0.0731606 | mg/L | 0.00009626 | 0.0731606 | mg/L | 0.00009626 | 0.13% |
| Ca 315.887† | 152127.8 | 33.3413 | mg/L | 0.04540 | 33.3413 | mg/L | 0.04540 | 0.14% |
| Cu 327.393† | -29.9 | 0.0127935 | mg/L | 0.00338282 | 0.0127935 | mg/L | 0.00338282 | 26.44% |
| Fe 273.955† | 5409.2 | 5.34088 | mg/L | 0.010350 | 5.34088 | mg/L | 0.010350 | 0.19% |
| K 766.490† | 32895.2 | 20.8101 | mg/L | 0.02201 | 20.8101 | mg/L | 0.02201 | 0.11% |
| Mg 279.077† | 30802.2 | 54.0884 | mg/L | 0.18344 | 54.0884 | mg/L | 0.18344 | 0.34% |
| Mn 257.610† | 12476.7 | 0.497028 | mg/L | 0.0018466 | 0.497028 | mg/L | 0.0018466 | 0.37% |
| Mo 202.031† | -3.6 | 0.0016256 | mg/L | 0.00272249 | 0.0016256 | mg/L | 0.00272249 | 167.48% |
| Na 589.592† | 4553947.9 | 553.067 | mg/L | 1.9775 | 553.067 | mg/L | 1.9775 | 0.36% |
| Ni 231.604† | -8.8 | 0.0012506 | mg/L | 0.00473342 | 0.0012506 | mg/L | 0.00473342 | 378.48% |
| Se 196.026† | 1.9 | 0.0141198 | mg/L | 0.01289622 | 0.0141198 | mg/L | 0.01289622 | 91.33% |
| Sn 189.927† | -14.8 | -0.0413643 | mg/L | 0.01155589 | -0.0413643 | mg/L | 0.01155589 | 27.94% |
| Ti 334.940† | -184.1 | 0.0039690 | mg/L | 0.00085499 | 0.0039690 | mg/L | 0.00085499 | 21.54% |
| V 290.880† | 444.6 | 0.0438946 | mg/L | 0.00201157 | 0.0438946 | mg/L | 0.00201157 | 4.58% |
| Zn 206.200† | 29.3 | 0.0118206 | mg/L | 0.00172328 | 0.0118206 | mg/L | 0.00172328 | 14.58% |
| Si 251.611† | 3770.6 | 1.50717 | mg/L | 0.006151 | 1.50717 | mg/L | 0.006151 | 0.41% |
| B 249.772† | 1962.1 | 0.300909 | mg/L | 0.0031093 | 0.300909 | mg/L | 0.0031093 | 1.03% |
| Ce 413.764† | 31.0 | 0.0093378 | mg/L | 0.00602571 | 0.0093378 | mg/L | 0.00602571 | 64.53% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 23 Autosampler Location: 48
Sample ID: AD26083-001 Date Collected: 9/28/2021 5:09:08 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-001

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 144835.1 | 118 | % | 0.27 | 118 | % | 0.27 | 0.23% |
| Y 371.029 | 49012.0 | 111 | % | 0.46 | 111 | % | 0.46 | 0.41% |
| Al 308.215† | 77.8 | 0.136010 | mg/L | 0.0080599 | 0.136010 | mg/L | 0.0080599 | 5.93% |
| Ba 233.527† | 72.8 | 0.0205871 | mg/L | 0.00089415 | 0.0205871 | mg/L | 0.00089415 | 4.34% |
| Ca 315.887† | 49893.9 | 11.1713 | mg/L | 0.03795 | 11.1713 | mg/L | 0.03795 | 0.34% |
| Cu 327.393† | -23.6 | 0.0039907 | mg/L | 0.00538261 | 0.0039907 | mg/L | 0.00538261 | 134.88% |
| Fe 273.955† | 1012.7 | 1.01540 | mg/L | 0.004422 | 1.01540 | mg/L | 0.004422 | 0.44% |
| K 766.490† | 3383.5 | 2.65965 | mg/L | 0.028035 | 2.65965 | mg/L | 0.028035 | 1.05% |
| Mg 279.077† | 987.1 | 1.86360 | mg/L | 0.009697 | 1.86360 | mg/L | 0.009697 | 0.52% |
| Mn 257.610† | 1095.6 | 0.0446359 | mg/L | 0.00024520 | 0.0446359 | mg/L | 0.00024520 | 0.55% |
| Mo 202.031† | 2.3 | 0.0063440 | mg/L | 0.00048153 | 0.0063440 | mg/L | 0.00048153 | 7.59% |
| Na 589.592† | 114791.9 | 14.3116 | mg/L | 0.13125 | 14.3116 | mg/L | 0.13125 | 0.92% |
| Ni 231.604† | -10.0 | -0.0010890 | mg/L | 0.00188638 | -0.0010890 | mg/L | 0.00188638 | 173.22% |
| Se 196.026† | 1.7 | 0.0093606 | mg/L | 0.01711588 | 0.0093606 | mg/L | 0.01711588 | 182.85% |
| Sn 189.927† | -1.5 | -0.0045627 | mg/L | 0.00894539 | -0.0045627 | mg/L | 0.00894539 | 196.06% |
| Ti 334.940† | -4.1 | 0.0049190 | mg/L | 0.00060979 | 0.0049190 | mg/L | 0.00060979 | 12.40% |
| V 290.880† | 12.1 | 0.0056411 | mg/L | 0.00028795 | 0.0056411 | mg/L | 0.00028795 | 5.10% |
| Zn 206.200† | 142.3 | 0.0466061 | mg/L | 0.00120943 | 0.0466061 | mg/L | 0.00120943 | 2.60% |
| Si 251.611† | 4064.6 | 1.63178 | mg/L | 0.008182 | 1.63178 | mg/L | 0.008182 | 0.50% |
| B 249.772† | 105.8 | 0.0144803 | mg/L | 0.00199979 | 0.0144803 | mg/L | 0.00199979 | 13.81% |
| Ce 413.764† | 0.8 | 0.0012096 | mg/L | 0.00285079 | 0.0012096 | mg/L | 0.00285079 | 235.68% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 24 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/28/2021 5:13:16 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 143396.3 | 117 | % | 0.49 | 117 | % | 0.49 | 0.42% |
| Y 371.029 | 48197.8 | 109 | % | 0.66 | 109 | % | 0.66 | 0.60% |
| Al 308.215† | 3923.3 | 4.82913 | mg/L | 0.055775 | 4.82913 | mg/L | 0.055775 | 1.15% |
| QC value within limits for Al 308.215 Recovery = 96.58% | | | | | | | | |
| Ba 233.527† | 2017.4 | 0.484727 | mg/L | 0.0051092 | 0.484727 | mg/L | 0.0051092 | 1.05% |
| QC value within limits for Ba 233.527 Recovery = 96.95% | | | | | | | | |
| Ca 315.887† | 227492.7 | 49.6847 | mg/L | 0.10211 | 49.6847 | mg/L | 0.10211 | 0.21% |
| QC value within limits for Ca 315.887 Recovery = 99.37% | | | | | | | | |
| Cu 327.393† | 1959.2 | 0.489131 | mg/L | 0.0093429 | 0.489131 | mg/L | 0.0093429 | 1.91% |
| QC value within limits for Cu 327.393 Recovery = 97.83% | | | | | | | | |
| Fe 273.955† | 5041.0 | 4.97861 | mg/L | 0.043876 | 4.97861 | mg/L | 0.043876 | 0.88% |
| QC value within limits for Fe 273.955 Recovery = 99.57% | | | | | | | | |
| K 766.490† | 79351.7 | 49.3821 | mg/L | 0.08239 | 49.3821 | mg/L | 0.08239 | 0.17% |
| QC value within limits for K 766.490 Recovery = 98.76% | | | | | | | | |
| Mg 279.077† | 28090.2 | 49.3379 | mg/L | 0.44109 | 49.3379 | mg/L | 0.44109 | 0.89% |
| QC value within limits for Mg 279.077 Recovery = 98.68% | | | | | | | | |
| Mn 257.610† | 13034.9 | 0.517839 | mg/L | 0.0048276 | 0.517839 | mg/L | 0.0048276 | 0.93% |
| QC value within limits for Mn 257.610 Recovery = 103.57% | | | | | | | | |
| Mo 202.031† | 617.9 | 0.500351 | mg/L | 0.0022139 | 0.500351 | mg/L | 0.0022139 | 0.44% |
| QC value within limits for Mo 202.031 Recovery = 100.07% | | | | | | | | |
| Na 589.592† | 418245.0 | 51.1400 | mg/L | 0.05490 | 51.1400 | mg/L | 0.05490 | 0.11% |
| QC value within limits for Na 589.592 Recovery = 102.28% | | | | | | | | |
| Ni 231.604† | 835.4 | 0.503111 | mg/L | 0.0016811 | 0.503111 | mg/L | 0.0016811 | 0.33% |
| QC value within limits for Ni 231.604 Recovery = 100.62% | | | | | | | | |
| Se 196.026† | 119.1 | 0.504885 | mg/L | 0.0117684 | 0.504885 | mg/L | 0.0117684 | 2.33% |
| QC value within limits for Se 196.026 Recovery = 100.98% | | | | | | | | |
| Sn 189.927† | 146.3 | 0.532762 | mg/L | 0.0106372 | 0.532762 | mg/L | 0.0106372 | 2.00% |
| QC value within limits for Sn 189.927 Recovery = 106.55% | | | | | | | | |
| Ti 334.940† | 19399.9 | 0.502108 | mg/L | 0.0053602 | 0.502108 | mg/L | 0.0053602 | 1.07% |
| QC value within limits for Ti 334.940 Recovery = 100.42% | | | | | | | | |
| V 290.880† | 3586.9 | 0.476541 | mg/L | 0.0031535 | 0.476541 | mg/L | 0.0031535 | 0.66% |
| QC value within limits for V 290.880 Recovery = 95.31% | | | | | | | | |
| Zn 206.200† | 1643.5 | 0.508409 | mg/L | 0.0039405 | 0.508409 | mg/L | 0.0039405 | 0.78% |
| QC value within limits for Zn 206.200 Recovery = 101.68% | | | | | | | | |
| Si 251.611† | 11492.1 | 4.77984 | mg/L | 0.043575 | 4.77984 | mg/L | 0.043575 | 0.91% |
| QC value within limits for Si 251.611 Recovery = 95.60% | | | | | | | | |
| B 249.772† | 2976.3 | 0.468432 | mg/L | 0.0063500 | 0.468432 | mg/L | 0.0063500 | 1.36% |
| QC value within limits for B 249.772 Recovery = 93.69% | | | | | | | | |
| Ce 413.764† | 1946.4 | 0.526098 | mg/L | 0.0033541 | 0.526098 | mg/L | 0.0033541 | 0.64% |
| QC value within limits for Ce 413.764 Recovery = 105.22% | | | | | | | | |

All analyte(s) passed QC.

Method: PE5 AVIO500 SW846 RD Page 1 Date: 9/28/2021 5:23:48 PM

SW27669B5 27669/27670

SW846 9a 9/29/2

Analysis Begun

Start Time: 9/28/2021 5:21:13 PM
Originator: usemet
Spectrometer: Avio 500, S/N 081S2010191
Plasma On Time: 9/28/2021 9:31:00 AM
Technique: ICP Continuous
Autosampler: S23

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\09.28.21.sifx
Results Data Set: SW27669B5
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

10/4/21

Batch ID:
Sequence No.: 1
Sample ID: CALBLK V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):
Autosampler Location: 1
Date Collected: 9/28/2021 5:21:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-352951

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 44675.5 | 1581.79 | 3.54% | 100 | % |
| Y 371.029 | 13489.5 | 516.03 | 3.83% | 100 | % |
| Al 308.215† | -41.1 | 11.19 | 27.20% | [0.00] | mg/L |
| Ba 233.527† | 8.2 | 3.88 | 47.51% | [0.00] | mg/L |
| Ca 315.887† | 72.2 | 30.30 | 41.96% | [0.00] | mg/L |
| Cu 327.393† | -11.3 | 26.01 | 229.83% | [0.00] | mg/L |
| Fe 273.955† | 21.5 | 2.95 | 13.69% | [0.00] | mg/L |
| K 766.490† | 1175.2 | 62.76 | 5.34% | [0.00] | mg/L |
| Mg 279.077† | -2.9 | 15.40 | 536.94% | [0.00] | mg/L |
| Mn 257.610† | -4.7 | 4.39 | 94.19% | [0.00] | mg/L |
| Mo 202.031† | -0.5 | 3.25 | 635.57% | [0.00] | mg/L |
| Na 589.592† | 12128.2 | 256.71 | 2.12% | [0.00] | mg/L |
| Ni 231.604† | 45.9 | 6.63 | 14.43% | [0.00] | mg/L |
| Se 196.026† | -13.7 | 6.92 | 50.43% | [0.00] | mg/L |
| Sn 189.927† | 5.1 | 1.83 | 35.68% | [0.00] | mg/L |
| Ti 334.940† | -490.1 | 39.11 | 7.98% | [0.00] | mg/L |
| V 290.880† | 105.8 | 13.85 | 13.09% | [0.00] | mg/L |
| Zn 206.200† | 4.7 | 2.33 | 49.27% | [0.00] | mg/L |
| Si 251.611† | 218.3 | 8.31 | 3.81% | [0.00] | mg/L |
| B 249.772† | 15.1 | 7.24 | 47.85% | [0.00] | mg/L |
| Ce 413.764† | 136.5 | 14.61 | 10.70% | [0.00] | mg/L |

27669/94427

Al, Na K Reported

26083-032 Na NOT Reported.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 2
Sample ID: CALST2 V-352961
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 5
Date Collected: 9/28/2021 5:25:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-352961

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 46400.2 | 231.76 | 0.50% | 104 | % |
| Y 371.029 | 13795.6 | 76.74 | 0.56% | 102 | % |
| Al 308.215† | 178.2 | 7.62 | 4.28% | [0.2] | mg/L |
| Ba 233.527† | 247.6 | 2.83 | 1.14% | [0.050] | mg/L |
| Ca 315.887† | 26659.6 | 36.05 | 0.14% | [5] | mg/L |
| Cu 327.393† | 232.6 | 27.24 | 11.71% | [0.050] | mg/L |
| Fe 273.955† | 363.5 | 7.74 | 2.13% | [0.30] | mg/L |
| K 766.490† | 9061.6 | 50.81 | 0.56% | [5] | mg/L |
| Mg 279.077† | 3390.9 | 19.41 | 0.57% | [5.0] | mg/L |
| Mn 257.610† | 1218.0 | 10.08 | 0.83% | [0.040] | mg/L |
| Mo 202.031† | 29.5 | 1.16 | 3.92% | [0.020] | mg/L |
| Na 589.592† | 47130.8 | 189.08 | 0.40% | [5] | mg/L |
| Ni 231.604† | 102.8 | 4.26 | 4.15% | [0.050] | mg/L |
| Se 196.026† | 18.6 | 0.21 | 1.11% | [0.050] | mg/L |
| Sn 189.927† | 13.5 | 4.60 | 34.00% | [0.050] | mg/L |
| Ti 334.940† | 2266.5 | 10.19 | 0.45% | [0.050] | mg/L |
| V 290.880† | 383.5 | 5.53 | 1.44% | [0.050] | mg/L |
| Zn 206.200† | 190.4 | 6.42 | 3.37% | [0.050] | mg/L |
| Si 251.611† | 1178.1 | 16.62 | 1.41% | [0.2] | mg/L |
| B 249.772† | 1445.8 | 10.76 | 0.74% | [0.20] | mg/L |
| Ce 413.764† | 874.3 | 31.65 | 3.62% | [0.2] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 3
Sample ID: CALST3 V-352955
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 3
Date Collected: 9/28/2021 5:29:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-352955

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 44821.6 | 292.36 | 0.65% | 100 | % |
| Y 371.029 | 13349.3 | 58.73 | 0.44% | 99.0 | % |
| Al 308.215† | 4612.8 | 14.91 | 0.32% | [5.0] | mg/L |
| Ba 233.527† | 2362.7 | 26.66 | 1.13% | [0.50] | mg/L |
| Ca 315.887† | 266143.0 | 2045.43 | 0.77% | [50] | mg/L |
| Cu 327.393† | 2308.4 | 8.41 | 0.36% | [0.50] | mg/L |
| Fe 273.955† | 5933.0 | 27.84 | 0.47% | [5.0] | mg/L |
| K 766.490† | 91717.7 | 786.19 | 0.86% | [50] | mg/L |
| Mg 279.077† | 32959.8 | 32.78 | 0.10% | [50] | mg/L |
| Mn 257.610† | 15196.9 | 45.91 | 0.30% | [0.50] | mg/L |
| Mo 202.031† | 724.4 | 6.50 | 0.90% | [0.50] | mg/L |
| Na 589.592† | 473907.1 | 4788.38 | 1.01% | [50] | mg/L |
| Ni 231.604† | 999.3 | 5.15 | 0.52% | [0.50] | mg/L |
| Se 196.026† | 143.5 | 7.31 | 5.10% | [0.50] | mg/L |
| Sn 189.927† | 166.9 | 3.69 | 2.21% | [0.50] | mg/L |
| Ti 334.940† | 22627.2 | 111.89 | 0.49% | [0.50] | mg/L |
| V 290.880† | 4255.3 | 19.85 | 0.47% | [0.50] | mg/L |
| Zn 206.200† | 1917.3 | 16.90 | 0.88% | [0.50] | mg/L |
| Si 251.611† | 13635.7 | 50.22 | 0.37% | [5] | mg/L |
| B 249.772† | 3509.9 | 26.58 | 0.76% | [0.50] | mg/L |
| Ce 413.764† | 2255.8 | 5.69 | 0.25% | [0.5] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 4 Autosampler Location: 4
Sample ID: CALST4 V-352956 Date Collected: 9/28/2021 5:33:08 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST4 V-352956

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 44967.6 | 40.15 | 0.09% | 101 | % |
| Y 371.029 | 13080.6 | 42.32 | 0.32% | 97.0 | % |
| Al 308.215† | 9109.3 | 34.17 | 0.38% | [10] | mg/L |
| Ba 233.527† | 4679.4 | 29.12 | 0.62% | [1.0] | mg/L |
| Ca 315.887† | 525824.2 | 2124.14 | 0.40% | [100] | mg/L |
| Cu 327.393† | 4550.0 | 9.75 | 0.21% | [1.0] | mg/L |
| Fe 273.955† | 11632.4 | 49.81 | 0.43% | [10] | mg/L |
| K 766.490† | 184199.3 | 580.73 | 0.32% | [100] | mg/L |
| Mg 279.077† | 65070.0 | 131.09 | 0.20% | [100] | mg/L |
| Mn 257.610† | 29762.5 | 60.95 | 0.20% | [1.0] | mg/L |
| Mo 202.031† | 1427.3 | 2.69 | 0.19% | [1.0] | mg/L |
| Na 589.592† | 936756.0 | 3203.65 | 0.34% | [100] | mg/L |
| Ni 231.604† | 1944.8 | 6.06 | 0.31% | [1.0] | mg/L |
| Se 196.026† | 287.2 | 3.13 | 1.09% | [1.0] | mg/L |
| Sn 189.927† | 329.2 | 3.60 | 1.09% | [1.0] | mg/L |
| Ti 334.940† | 44774.3 | 85.54 | 0.19% | [1.0] | mg/L |
| V 290.880† | 8216.8 | 36.89 | 0.45% | [1.0] | mg/L |
| Zn 206.200† | 3765.9 | 13.72 | 0.36% | [1.0] | mg/L |
| Si 251.611† | 26753.5 | 65.19 | 0.24% | [10] | mg/L |
| B 249.772† | 6936.9 | 18.46 | 0.27% | [1.0] | mg/L |
| Ce 413.764† | 4319.7 | 6.29 | 0.15% | [1] | mg/L |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| Al 308.215 | 3 | Lin, Calc Int | 8.8 | 912.2 | 0.00000 | 0.999977 | |
| Ba 233.527 | 3 | Lin, Calc Int | 10.4 | 4676 | 0.00000 | 0.999987 | |
| Ca 315.887 | 3 | Lin, Calc Int | 757.6 | 5262 | 0.00000 | 0.999980 | |
| Cu 327.393 | 3 | Lin, Calc Int | 8.4 | 4553 | 0.00000 | 0.999972 | |
| Fe 273.955 | 3 | Lin, Calc Int | 27.9 | 1165 | 0.00000 | 0.999948 | |
| K 766.490 | 3 | Lin, Calc Int | -136.8 | 1842 | 0.00000 | 0.999998 | |
| Mg 279.077 | 3 | Lin, Calc Int | 139.7 | 650.7 | 0.00000 | 0.999978 | |
| Mn 257.610 | 3 | Lin, Calc Int | 70.1 | 29800 | 0.00000 | 0.999940 | |
| Mo 202.031 | 3 | Lin, Calc Int | 2.4 | 1429 | 0.00000 | 0.999971 | |
| Na 589.592 | 3 | Lin, Calc Int | 1144.6 | 9376 | 0.00000 | 0.999981 | |
| Ni 231.604 | 3 | Lin, Calc Int | 7.4 | 1947 | 0.00000 | 0.999901 | |
| Se 196.026 | 3 | Lin, Calc Int | 1.9 | 285.0 | 0.00000 | 0.999901 | |
| Sn 189.927 | 3 | Lin, Calc Int | -0.9 | 331.1 | 0.00000 | 0.999920 | |
| Ti 334.940 | 3 | Lin, Calc Int | 56.5 | 44800 | 0.00000 | 0.999985 | |
| V 290.880 | 3 | Lin, Calc Int | 14.6 | 8256 | 0.00000 | 0.999801 | |
| Zn 206.200 | 3 | Lin, Calc Int | 7.3 | 3771 | 0.00000 | 0.999955 | |
| Si 251.611 | 3 | Lin, Calc Int | 338.7 | 2646 | 0.00000 | 0.999769 | |
| B 249.772 | 3 | Lin, Calc Int | 32.5 | 6919 | 0.00000 | 0.999955 | |
| Ce 413.764 | 3 | Lin, Calc Int | 22.9 | 4328 | 0.00000 | 0.999697 | |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 5
Sample ID: ICV V-352960
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 6
Date Collected: 9/28/2021 5:37:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 45070.5 | 101 | % | 0.94 | 101 | % | 0.94 | 0.93% |
| Y 371.029 | 13349.5 | 99.0 | % | 1.20 | 99.0 | % | 1.20 | 1.21% |
| Al 308.215† | 4494.4 | 4.94812 | mg/L | 0.067828 | 4.94812 | mg/L | 0.067828 | 1.37% |
| QC value within limits for Al 308.215 Recovery = 98.96% | | | | | | | | |
| Ba 233.527† | 2398.5 | 0.507968 | mg/L | 0.0068631 | 0.507968 | mg/L | 0.0068631 | 1.35% |
| QC value within limits for Ba 233.527 Recovery = 101.59% | | | | | | | | |
| Ca 315.887† | 263024.0 | 49.8424 | mg/L | 0.46880 | 49.8424 | mg/L | 0.46880 | 0.94% |
| QC value within limits for Ca 315.887 Recovery = 99.68% | | | | | | | | |
| Cu 327.393† | 2326.2 | 0.532204 | mg/L | 0.0057210 | 0.532204 | mg/L | 0.0057210 | 1.07% |
| QC value within limits for Cu 327.393 Recovery = 106.44% | | | | | | | | |
| Fe 273.955† | 5730.1 | 4.89655 | mg/L | 0.067423 | 4.89655 | mg/L | 0.067423 | 1.38% |
| QC value within limits for Fe 273.955 Recovery = 97.93% | | | | | | | | |
| K 766.490† | 90190.5 | 49.0349 | mg/L | 0.49111 | 49.0349 | mg/L | 0.49111 | 1.00% |
| QC value within limits for K 766.490 Recovery = 98.07% | | | | | | | | |
| Mg 279.077† | 32805.2 | 50.1990 | mg/L | 0.11789 | 50.1990 | mg/L | 0.11789 | 0.23% |
| QC value within limits for Mg 279.077 Recovery = 100.40% | | | | | | | | |
| Mn 257.610† | 15152.1 | 0.515495 | mg/L | 0.0020346 | 0.515495 | mg/L | 0.0020346 | 0.39% |
| QC value within limits for Mn 257.610 Recovery = 103.10% | | | | | | | | |
| Mo 202.031† | 717.1 | 0.500226 | mg/L | 0.0065225 | 0.500226 | mg/L | 0.0065225 | 1.30% |
| QC value within limits for Mo 202.031 Recovery = 100.05% | | | | | | | | |
| Na 589.592† | 463300.2 | 49.2935 | mg/L | 0.48002 | 49.2935 | mg/L | 0.48002 | 0.97% |
| QC value within limits for Na 589.592 Recovery = 98.59% | | | | | | | | |
| Ni 231.604† | 988.1 | 0.504911 | mg/L | 0.0054426 | 0.504911 | mg/L | 0.0054426 | 1.08% |
| QC value within limits for Ni 231.604 Recovery = 100.98% | | | | | | | | |
| Se 196.026† | 142.2 | 0.497019 | mg/L | 0.0144148 | 0.497019 | mg/L | 0.0144148 | 2.90% |
| QC value within limits for Se 196.026 Recovery = 99.40% | | | | | | | | |
| Sn 189.927† | 163.0 | 0.508098 | mg/L | 0.0137173 | 0.508098 | mg/L | 0.0137173 | 2.70% |
| QC value within limits for Sn 189.927 Recovery = 101.62% | | | | | | | | |
| Ti 334.940† | 22641.4 | 0.512213 | mg/L | 0.0007795 | 0.512213 | mg/L | 0.0007795 | 0.15% |
| QC value within limits for Ti 334.940 Recovery = 102.44% | | | | | | | | |
| V 290.880† | 4175.1 | 0.483704 | mg/L | 0.0016674 | 0.483704 | mg/L | 0.0016674 | 0.34% |
| QC value within limits for V 290.880 Recovery = 96.74% | | | | | | | | |
| Zn 206.200† | 1928.0 | 0.509382 | mg/L | 0.0052256 | 0.509382 | mg/L | 0.0052256 | 1.03% |
| QC value within limits for Zn 206.200 Recovery = 101.88% | | | | | | | | |
| Si 251.611† | 13367.6 | 4.92481 | mg/L | 0.018817 | 4.92481 | mg/L | 0.018817 | 0.38% |
| QC value within limits for Si 251.611 Recovery = 98.50% | | | | | | | | |
| B 249.772† | 3504.0 | 0.481934 | mg/L | 0.0061130 | 0.481934 | mg/L | 0.0061130 | 1.27% |
| QC value within limits for B 249.772 Recovery = 96.39% | | | | | | | | |
| Ce 413.764† | 2215.7 | 0.506624 | mg/L | 0.0093505 | 0.506624 | mg/L | 0.0093505 | 1.85% |
| QC value within limits for Ce 413.764 Recovery = 101.32% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 6
Sample ID: ICB V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 1
Date Collected: 9/28/2021 5:41:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 45213.2 | 101 | % | 0.71 | 101 | % | 0.71 | 0.70% |
| Y 371.029 | 13753.0 | 102 | % | 0.50 | 102 | % | 0.50 | 0.49% |
| Al 308.215† | -12.4 | -0.0232500 | mg/L | 0.00995852 | -0.0232500 | mg/L | 0.00995852 | 42.83% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 4.4 | -0.0012603 | mg/L | 0.00132631 | -0.0012603 | mg/L | 0.00132631 | 105.24% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 26.0 | -0.139056 | mg/L | 0.0100218 | -0.139056 | mg/L | 0.0100218 | 7.21% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 22.3 | 0.0029742 | mg/L | 0.00429001 | 0.0029742 | mg/L | 0.00429001 | 144.24% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 5.6 | -0.0191584 | mg/L | 0.00383101 | -0.0191584 | mg/L | 0.00383101 | 20.00% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -110.0 | 0.0145651 | mg/L | 0.00617549 | 0.0145651 | mg/L | 0.00617549 | 42.40% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -10.4 | -0.230636 | mg/L | 0.0126036 | -0.230636 | mg/L | 0.0126036 | 5.46% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 9.3 | -0.0020859 | mg/L | 0.00002711 | -0.0020859 | mg/L | 0.00002711 | 1.30% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 3.3 | 0.0006311 | mg/L | 0.00212511 | 0.0006311 | mg/L | 0.00212511 | 336.71% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -2982.4 | -0.440178 | mg/L | 0.0123228 | -0.440178 | mg/L | 0.0123228 | 2.80% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -1.7 | -0.0046815 | mg/L | 0.00229044 | -0.0046815 | mg/L | 0.00229044 | 48.93% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 3.9 | 0.0071958 | mg/L | 0.01134102 | 0.0071958 | mg/L | 0.01134102 | 157.61% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -3.0 | -0.0063987 | mg/L | 0.00398882 | -0.0063987 | mg/L | 0.00398882 | 62.34% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 22.4 | -0.0007831 | mg/L | 0.00034844 | -0.0007831 | mg/L | 0.00034844 | 44.50% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 2.7 | -0.0013522 | mg/L | 0.00140536 | -0.0013522 | mg/L | 0.00140536 | 103.93% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 6.1 | -0.0002957 | mg/L | 0.00028691 | -0.0002957 | mg/L | 0.00028691 | 97.01% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | -2.9 | -0.129124 | mg/L | 0.0011941 | -0.129124 | mg/L | 0.0011941 | 0.92% |
| QC value less than the lower limit for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 6.0 | -0.0037505 | mg/L | 0.00139185 | -0.0037505 | mg/L | 0.00139185 | 37.11% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -10.4 | -0.0076931 | mg/L | 0.01239273 | -0.0076931 | mg/L | 0.01239273 | 161.09% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 7 Autosampler Location: 10
Sample ID: LRS V-352964 Date Collected: 9/28/2021 5:45:17 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LRS V-352964

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 45215.6 | 101 | % | 0.76 | 101 | % | 0.76 | 0.75% |
| Y 371.029 | 10915.5 | 80.9 | % | 0.44 | 80.9 | % | 0.44 | 0.55% |
| Al 308.215† | 420296.8 | 461.101 | mg/L | 0.7721 | 461.101 | mg/L | 0.7721 | 0.17% |
| QC value within limits for Al 308.215 Recovery = 92.22% | | | | | | | | |
| Ba 233.527† | 44055.0 | 9.23477 | mg/L | 0.026031 | 9.23477 | mg/L | 0.026031 | 0.28% |
| QC value within limits for Ba 233.527 Recovery = 92.35% | | | | | | | | |
| Ca 315.887† | 2292556.4 | 435.545 | mg/L | 3.7999 | 435.545 | mg/L | 3.7999 | 0.87% |
| QC value less than the lower limit for Ca 315.887 Recovery = 87.11% | | | | | | | | |
| Cu 327.393† | 43874.1 | 9.83657 | mg/L | 0.024329 | 9.83657 | mg/L | 0.024329 | 0.25% |
| QC value within limits for Cu 327.393 Recovery = 98.37% | | | | | | | | |
| Fe 273.955† | 385722.3 | 331.201 | mg/L | 0.9850 | 331.201 | mg/L | 0.9850 | 0.30% |
| QC value less than the lower limit for Fe 273.955 Recovery = 82.80% | | | | | | | | |
| K 766.490† | 367378.8 | 199.509 | mg/L | 1.9301 | 199.509 | mg/L | 1.9301 | 0.97% |
| QC value within limits for K 766.490 Recovery = 99.75% | | | | | | | | |
| Mg 279.077† | 289032.5 | 443.958 | mg/L | 1.6164 | 443.958 | mg/L | 1.6164 | 0.36% |
| QC value less than the lower limit for Mg 279.077 Recovery = 88.79% | | | | | | | | |
| Mn 257.610† | 253119.3 | 8.57420 | mg/L | 0.025477 | 8.57420 | mg/L | 0.025477 | 0.30% |
| QC value less than the lower limit for Mn 257.610 Recovery = 85.74% | | | | | | | | |
| Mo 202.031† | 11988.7 | 8.38934 | mg/L | 0.031890 | 8.38934 | mg/L | 0.031890 | 0.38% |
| QC value less than the lower limit for Mo 202.031 Recovery = 83.89% | | | | | | | | |
| Na 589.592† | 8510811.9 | 907.641 | mg/L | 9.9586 | 907.641 | mg/L | 9.9586 | 1.10% |
| QC value within limits for Na 589.592 Recovery = 90.76% | | | | | | | | |
| Ni 231.604† | 16340.8 | 8.44677 | mg/L | 0.044460 | 8.44677 | mg/L | 0.044460 | 0.53% |
| QC value less than the lower limit for Ni 231.604 Recovery = 84.47% | | | | | | | | |
| Se 196.026† | 1170.8 | 4.41476 | mg/L | 0.020252 | 4.41476 | mg/L | 0.020252 | 0.46% |
| QC value less than the lower limit for Se 196.026 Recovery = 88.30% | | | | | | | | |
| Sn 189.927† | 3012.8 | 9.21766 | mg/L | 0.060242 | 9.21766 | mg/L | 0.060242 | 0.65% |
| QC value within limits for Sn 189.927 Recovery = 92.18% | | | | | | | | |
| Ti 334.940† | 405186.0 | 9.11359 | mg/L | 0.071172 | 9.11359 | mg/L | 0.071172 | 0.78% |
| QC value within limits for Ti 334.940 Recovery = 91.14% | | | | | | | | |
| V 290.880† | 67192.7 | 7.95784 | mg/L | 0.022256 | 7.95784 | mg/L | 0.022256 | 0.28% |
| QC value less than the lower limit for V 290.880 Recovery = 79.58% | | | | | | | | |
| Zn 206.200† | 30817.4 | 8.17091 | mg/L | 0.033868 | 8.17091 | mg/L | 0.033868 | 0.41% |
| QC value less than the lower limit for Zn 206.200 Recovery = 81.71% | | | | | | | | |
| Si 251.611† | 62665.8 | 23.5591 | mg/L | 0.07761 | 23.5591 | mg/L | 0.07761 | 0.33% |
| QC value within limits for Si 251.611 Recovery = 94.24% | | | | | | | | |
| B 249.772† | 36241.5 | 3.89438 | mg/L | 0.017801 | 3.89438 | mg/L | 0.017801 | 0.46% |
| QC value less than the lower limit for B 249.772 Recovery = 77.89% | | | | | | | | |
| Ce 413.764† | 96079.6 | 22.1925 | mg/L | 0.06634 | 22.1925 | mg/L | 0.06634 | 0.30% |
| QC value less than the lower limit for Ce 413.764 Recovery = 88.77% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 8
Sample ID: ICS3 V-352955
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 150
Autosampler Location: 3
Date Collected: 9/28/2021 5:51:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-352955

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42511.2 | 95.2 | % | 0.89 | 95.2 | % | 0.89 | 0.93% |
| Y 371.029 | 12911.3 | 95.7 | % | 1.26 | 95.7 | % | 1.26 | 1.31% |
| Al 308.215† | 4563.7 | 5.02400 | mg/L | 0.040411 | 5.02400 | mg/L | 0.040411 | 0.80% |
| QC value within limits for Al 308.215 Recovery = 100.48% | | | | | | | | |
| Ba 233.527† | 2346.8 | 0.496876 | mg/L | 0.0046314 | 0.496876 | mg/L | 0.0046314 | 0.93% |
| QC value within limits for Ba 233.527 Recovery = 99.38% | | | | | | | | |
| Ca 315.887† | 260775.4 | 49.4151 | mg/L | 0.52993 | 49.4151 | mg/L | 0.52993 | 1.07% |
| QC value within limits for Ca 315.887 Recovery = 98.83% | | | | | | | | |
| Cu 327.393† | 2383.1 | 0.544509 | mg/L | 0.0032484 | 0.544509 | mg/L | 0.0032484 | 0.60% |
| QC value within limits for Cu 327.393 Recovery = 108.90% | | | | | | | | |
| Fe 273.955† | 5801.8 | 4.95814 | mg/L | 0.012341 | 4.95814 | mg/L | 0.012341 | 0.25% |
| QC value within limits for Fe 273.955 Recovery = 99.16% | | | | | | | | |
| K 766.490† | 90324.0 | 49.1074 | mg/L | 0.46903 | 49.1074 | mg/L | 0.46903 | 0.96% |
| QC value within limits for K 766.490 Recovery = 98.21% | | | | | | | | |
| Mg 279.077† | 32460.8 | 49.6697 | mg/L | 0.04049 | 49.6697 | mg/L | 0.04049 | 0.08% |
| QC value within limits for Mg 279.077 Recovery = 99.34% | | | | | | | | |
| Mn 257.610† | 14679.0 | 0.499523 | mg/L | 0.0003134 | 0.499523 | mg/L | 0.0003134 | 0.06% |
| QC value within limits for Mn 257.610 Recovery = 99.90% | | | | | | | | |
| Mo 202.031† | 716.6 | 0.499894 | mg/L | 0.0084887 | 0.499894 | mg/L | 0.0084887 | 1.70% |
| QC value within limits for Mo 202.031 Recovery = 99.98% | | | | | | | | |
| Na 589.592† | 462203.0 | 49.1765 | mg/L | 0.36972 | 49.1765 | mg/L | 0.36972 | 0.75% |
| QC value within limits for Na 589.592 Recovery = 98.35% | | | | | | | | |
| Ni 231.604† | 969.5 | 0.495326 | mg/L | 0.0102004 | 0.495326 | mg/L | 0.0102004 | 2.06% |
| QC value within limits for Ni 231.604 Recovery = 99.07% | | | | | | | | |
| Se 196.026† | 138.4 | 0.483666 | mg/L | 0.0207948 | 0.483666 | mg/L | 0.0207948 | 4.30% |
| QC value within limits for Se 196.026 Recovery = 96.73% | | | | | | | | |
| Sn 189.927† | 161.2 | 0.502620 | mg/L | 0.0081437 | 0.502620 | mg/L | 0.0081437 | 1.62% |
| QC value within limits for Sn 189.927 Recovery = 100.52% | | | | | | | | |
| Ti 334.940† | 22231.6 | 0.502996 | mg/L | 0.0016050 | 0.502996 | mg/L | 0.0016050 | 0.32% |
| QC value within limits for Ti 334.940 Recovery = 100.60% | | | | | | | | |
| V 290.880† | 4151.4 | 0.481047 | mg/L | 0.0003959 | 0.481047 | mg/L | 0.0003959 | 0.08% |
| QC value within limits for V 290.880 Recovery = 96.21% | | | | | | | | |
| Zn 206.200† | 1867.6 | 0.493381 | mg/L | 0.0044838 | 0.493381 | mg/L | 0.0044838 | 0.91% |
| QC value within limits for Zn 206.200 Recovery = 98.68% | | | | | | | | |
| Si 251.611† | 13492.3 | 4.97194 | mg/L | 0.014716 | 4.97194 | mg/L | 0.014716 | 0.30% |
| QC value within limits for Si 251.611 Recovery = 99.44% | | | | | | | | |
| B 249.772† | 3448.4 | 0.473646 | mg/L | 0.0028919 | 0.473646 | mg/L | 0.0028919 | 0.61% |
| QC value within limits for B 249.772 Recovery = 94.73% | | | | | | | | |
| Ce 413.764† | 2133.4 | 0.487608 | mg/L | 0.0057639 | 0.487608 | mg/L | 0.0057639 | 1.18% |
| QC value within limits for Ce 413.764 Recovery = 97.52% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 9
Sample ID: RINSE
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 14
Date Collected: 9/28/2021 5:55:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: RINSE

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 54023.9 | 121 | % | 16.38 | 121 | % | 16.38 | 13.54% |
| Y 371.029 | 16504.1 | 122 | % | 16.22 | 122 | % | 16.22 | 13.26% |
| Al 308.215† | -13.6 | -0.0251197 | mg/L | 0.01037967 | -0.0251197 | mg/L | 0.01037967 | 41.32% |
| Ba 233.527† | -0.1 | -0.0022107 | mg/L | 0.00082746 | -0.0022107 | mg/L | 0.00082746 | 37.43% |
| Ca 315.887† | -44.7 | -0.152489 | mg/L | 0.0179507 | -0.152489 | mg/L | 0.0179507 | 11.77% |
| Cu 327.393† | 1.7 | -0.0015462 | mg/L | 0.00448963 | -0.0015462 | mg/L | 0.00448963 | 290.36% |
| Fe 273.955† | -12.7 | -0.0348222 | mg/L | 0.00579240 | -0.0348222 | mg/L | 0.00579240 | 16.63% |
| K 766.490† | -352.8 | -0.117266 | mg/L | 0.1433142 | -0.117266 | mg/L | 0.1433142 | 122.21% |
| Mg 279.077† | -7.1 | -0.225615 | mg/L | 0.0143962 | -0.225615 | mg/L | 0.0143962 | 6.38% |
| Mn 257.610† | -0.7 | -0.0024176 | mg/L | 0.00007944 | -0.0024176 | mg/L | 0.00007944 | 3.29% |
| Mo 202.031† | 6.5 | 0.0028834 | mg/L | 0.00222603 | 0.0028834 | mg/L | 0.00222603 | 77.20% |
| Na 589.592† | -6975.7 | -0.866109 | mg/L | 0.2957343 | -0.866109 | mg/L | 0.2957343 | 34.15% |
| Ni 231.604† | -7.6 | -0.0077191 | mg/L | 0.00125590 | -0.0077191 | mg/L | 0.00125590 | 16.27% |
| Se 196.026† | 6.5 | 0.0163502 | mg/L | 0.02881526 | 0.0163502 | mg/L | 0.02881526 | 176.24% |
| Sn 189.927† | -4.0 | -0.0094900 | mg/L | 0.00470718 | -0.0094900 | mg/L | 0.00470718 | 49.60% |
| Ti 334.940† | 169.9 | 0.0025067 | mg/L | 0.00264261 | 0.0025067 | mg/L | 0.00264261 | 105.42% |
| V 290.880† | -37.5 | -0.0062195 | mg/L | 0.00106195 | -0.0062195 | mg/L | 0.00106195 | 17.07% |
| Zn 206.200† | -4.5 | -0.0031165 | mg/L | 0.00071293 | -0.0031165 | mg/L | 0.00071293 | 22.88% |
| Si 251.611† | -55.9 | -0.149133 | mg/L | 0.0126356 | -0.149133 | mg/L | 0.0126356 | 8.47% |
| B 249.772† | -2.8 | -0.0049619 | mg/L | 0.00070680 | -0.0049619 | mg/L | 0.00070680 | 14.24% |
| Ce 413.764† | 15.6 | -0.0016824 | mg/L | 0.00345334 | -0.0016824 | mg/L | 0.00345334 | 205.26% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 10 Autosampler Location: 5
Sample ID: LLICV V-352961 Date Collected: 9/28/2021 5:59:05 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LLICV V-352961

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43712.2 | 97.8 | % | 0.78 | 97.8 | % | 0.78 | 0.80% |
| Y 371.029 | 13166.7 | 97.6 | % | 0.78 | 97.6 | % | 0.78 | 0.80% |
| Al 308.215† | 178.3 | 0.187745 | mg/L | 0.0176458 | 0.187745 | mg/L | 0.0176458 | 9.40% |
| QC value within limits for Al 308.215 Recovery = 93.87% | | | | | | | | |
| Ba 233.527† | 247.8 | 0.0506100 | mg/L | 0.00092094 | 0.0506100 | mg/L | 0.00092094 | 1.82% |
| QC value within limits for Ba 233.527 Recovery = 101.22% | | | | | | | | |
| Ca 315.887† | 26425.0 | 4.87795 | mg/L | 0.020628 | 4.87795 | mg/L | 0.020628 | 0.42% |
| QC value within limits for Ca 315.887 Recovery = 97.56% | | | | | | | | |
| Cu 327.393† | 249.6 | 0.0552369 | mg/L | 0.00531456 | 0.0552369 | mg/L | 0.00531456 | 9.62% |
| QC value within limits for Cu 327.393 Recovery = 110.47% | | | | | | | | |
| Fe 273.955† | 366.4 | 0.290688 | mg/L | 0.0055484 | 0.290688 | mg/L | 0.0055484 | 1.91% |
| QC value within limits for Fe 273.955 Recovery = 96.90% | | | | | | | | |
| K 766.490† | 9096.9 | 5.01258 | mg/L | 0.009101 | 5.01258 | mg/L | 0.009101 | 0.18% |
| QC value within limits for K 766.490 Recovery = 100.25% | | | | | | | | |
| Mg 279.077† | 3366.0 | 4.95802 | mg/L | 0.012566 | 4.95802 | mg/L | 0.012566 | 0.25% |
| QC value within limits for Mg 279.077 Recovery = 99.16% | | | | | | | | |
| Mn 257.610† | 1216.3 | 0.0393918 | mg/L | 0.00023014 | 0.0393918 | mg/L | 0.00023014 | 0.58% |
| QC value within limits for Mn 257.610 Recovery = 98.48% | | | | | | | | |
| Mo 202.031† | 31.2 | 0.0201820 | mg/L | 0.00282195 | 0.0201820 | mg/L | 0.00282195 | 13.98% |
| QC value within limits for Mo 202.031 Recovery = 100.91% | | | | | | | | |
| Na 589.592† | 43982.5 | 4.56910 | mg/L | 0.015116 | 4.56910 | mg/L | 0.015116 | 0.33% |
| QC value within limits for Na 589.592 Recovery = 91.38% | | | | | | | | |
| Ni 231.604† | 107.8 | 0.0516387 | mg/L | 0.00318533 | 0.0516387 | mg/L | 0.00318533 | 6.17% |
| QC value within limits for Ni 231.604 Recovery = 103.28% | | | | | | | | |
| Se 196.026† | 15.7 | 0.0486259 | mg/L | 0.01941332 | 0.0486259 | mg/L | 0.01941332 | 39.92% |
| QC value within limits for Se 196.026 Recovery = 97.25% | | | | | | | | |
| Sn 189.927† | 13.2 | 0.0438946 | mg/L | 0.00311737 | 0.0438946 | mg/L | 0.00311737 | 7.10% |
| QC value within limits for Sn 189.927 Recovery = 87.79% | | | | | | | | |
| Ti 334.940† | 2254.4 | 0.0498522 | mg/L | 0.00041416 | 0.0498522 | mg/L | 0.00041416 | 0.83% |
| QC value within limits for Ti 334.940 Recovery = 99.70% | | | | | | | | |
| V 290.880† | 405.9 | 0.0454041 | mg/L | 0.00103383 | 0.0454041 | mg/L | 0.00103383 | 2.28% |
| QC value within limits for V 290.880 Recovery = 90.81% | | | | | | | | |
| Zn 206.200† | 196.9 | 0.0502833 | mg/L | 0.00174415 | 0.0502833 | mg/L | 0.00174415 | 3.47% |
| QC value within limits for Zn 206.200 Recovery = 100.57% | | | | | | | | |
| Si 251.611† | 1212.4 | 0.330266 | mg/L | 0.0071459 | 0.330266 | mg/L | 0.0071459 | 2.16% |
| QC value greater than the upper limit for Si 251.611 Recovery = 165.13% | | | | | | | | |
| B 249.772† | 1464.9 | 0.205843 | mg/L | 0.0029033 | 0.205843 | mg/L | 0.0029033 | 1.41% |
| QC value within limits for B 249.772 Recovery = 102.92% | | | | | | | | |
| Ce 413.764† | 906.6 | 0.204172 | mg/L | 0.0175598 | 0.204172 | mg/L | 0.0175598 | 8.60% |
| QC value within limits for Ce 413.764 Recovery = 102.09% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 11 Autosampler Location: 7
Sample ID: ICSA V-352957 Date Collected: 9/28/2021 6:02:58 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICSA V-352957

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42561.2 | 95.3 | % | 0.42 | 95.3 | % | 0.42 | 0.44% |
| Y 371.029 | 12016.5 | 89.1 | % | 0.52 | 89.1 | % | 0.52 | 0.59% |
| Al 308.215† | 455868.8 | 499.783 | mg/L | 3.4134 | 499.783 | mg/L | 3.4134 | 0.68% |
| QC value within limits for Al 308.215 Recovery = 99.96% | | | | | | | | |
| Ba 233.527† | 1302.6 | 0.176158 | mg/L | 0.0017984 | 0.176158 | mg/L | 0.0017984 | 1.02% |
| Ca 315.887† | 2476248.8 | 470.455 | mg/L | 3.3605 | 470.455 | mg/L | 3.3605 | 0.71% |
| QC value within limits for Ca 315.887 Recovery = 94.09% | | | | | | | | |
| Cu 327.393† | -862.5 | 0.0272632 | mg/L | 0.00191089 | 0.0272632 | mg/L | 0.00191089 | 7.01% |
| Fe 273.955† | 210122.0 | 180.411 | mg/L | 1.2752 | 180.411 | mg/L | 1.2752 | 0.71% |
| QC value within limits for Fe 273.955 Recovery = 90.21% | | | | | | | | |
| K 766.490† | 423.5 | 0.304199 | mg/L | 0.0318210 | 0.304199 | mg/L | 0.0318210 | 10.46% |
| Mg 279.077† | 305703.6 | 469.577 | mg/L | 3.0863 | 469.577 | mg/L | 3.0863 | 0.66% |
| QC value within limits for Mg 279.077 Recovery = 93.92% | | | | | | | | |
| Mn 257.610† | 48.0 | 0.0875982 | mg/L | 0.00062413 | 0.0875982 | mg/L | 0.00062413 | 0.71% |
| Mo 202.031† | -29.0 | -0.0219872 | mg/L | 0.00101417 | -0.0219872 | mg/L | 0.00101417 | 4.61% |
| Na 589.592† | 1430.5 | 0.0304959 | mg/L | 0.05572093 | 0.0304959 | mg/L | 0.05572093 | 182.72% |
| Ni 231.604† | 93.9 | 0.0378922 | mg/L | 0.00360559 | 0.0378922 | mg/L | 0.00360559 | 9.52% |
| Se 196.026† | -37.8 | 0.0314624 | mg/L | 0.02614718 | 0.0314624 | mg/L | 0.02614718 | 83.11% |
| Sn 189.927† | -116.7 | -0.226764 | mg/L | 0.0531013 | -0.226764 | mg/L | 0.0531013 | 23.42% |
| Ti 334.940† | -3708.8 | -0.0075767 | mg/L | 0.00116918 | -0.0075767 | mg/L | 0.00116918 | 15.43% |
| V 290.880† | 3084.6 | 0.182787 | mg/L | 0.0075384 | 0.182787 | mg/L | 0.0075384 | 4.12% |
| Zn 206.200† | 122.5 | 0.0305626 | mg/L | 0.00227666 | 0.0305626 | mg/L | 0.00227666 | 7.45% |
| Si 251.611† | -17.2 | -0.134529 | mg/L | 0.0012922 | -0.134529 | mg/L | 0.0012922 | 0.96% |
| B 249.772† | 3493.1 | -0.229061 | mg/L | 0.0009311 | -0.229061 | mg/L | 0.0009311 | 0.41% |
| Ce 413.764† | -459.5 | -0.111464 | mg/L | 0.0047381 | -0.111464 | mg/L | 0.0047381 | 4.25% |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 12 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/28/2021 6:08:22 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42491.1 | 95.1 | % | 0.34 | 95.1 | % | 0.34 | 0.35% |
| Y 371.029 | 12745.8 | 94.5 | % | 0.35 | 94.5 | % | 0.35 | 0.37% |
| Al 308.215† | 4561.1 | 5.02113 | mg/L | 0.011691 | 5.02113 | mg/L | 0.011691 | 0.23% |
| QC value within limits for Al 308.215 Recovery = 100.42% | | | | | | | | |
| Ba 233.527† | 2337.7 | 0.494931 | mg/L | 0.0022225 | 0.494931 | mg/L | 0.0022225 | 0.45% |
| QC value within limits for Ba 233.527 Recovery = 98.99% | | | | | | | | |
| Ca 315.887† | 261983.9 | 49.6447 | mg/L | 0.29406 | 49.6447 | mg/L | 0.29406 | 0.59% |
| QC value within limits for Ca 315.887 Recovery = 99.29% | | | | | | | | |
| Cu 327.393† | 2373.2 | 0.542440 | mg/L | 0.0058705 | 0.542440 | mg/L | 0.0058705 | 1.08% |
| QC value within limits for Cu 327.393 Recovery = 108.49% | | | | | | | | |
| Fe 273.955† | 5808.2 | 4.96366 | mg/L | 0.026046 | 4.96366 | mg/L | 0.026046 | 0.52% |
| QC value within limits for Fe 273.955 Recovery = 99.27% | | | | | | | | |
| K 766.490† | 91237.0 | 49.6030 | mg/L | 0.20702 | 49.6030 | mg/L | 0.20702 | 0.42% |
| QC value within limits for K 766.490 Recovery = 99.21% | | | | | | | | |
| Mg 279.077† | 32311.1 | 49.4397 | mg/L | 0.05224 | 49.4397 | mg/L | 0.05224 | 0.11% |
| QC value within limits for Mg 279.077 Recovery = 98.88% | | | | | | | | |
| Mn 257.610† | 14853.9 | 0.505348 | mg/L | 0.0008438 | 0.505348 | mg/L | 0.0008438 | 0.17% |
| QC value within limits for Mn 257.610 Recovery = 101.07% | | | | | | | | |
| Mo 202.031† | 711.4 | 0.496228 | mg/L | 0.0058108 | 0.496228 | mg/L | 0.0058108 | 1.17% |
| QC value within limits for Mo 202.031 Recovery = 99.25% | | | | | | | | |
| Na 589.592† | 468722.6 | 49.8719 | mg/L | 0.19159 | 49.8719 | mg/L | 0.19159 | 0.38% |
| QC value within limits for Na 589.592 Recovery = 99.74% | | | | | | | | |
| Ni 231.604† | 978.9 | 0.500192 | mg/L | 0.0047855 | 0.500192 | mg/L | 0.0047855 | 0.96% |
| QC value within limits for Ni 231.604 Recovery = 100.04% | | | | | | | | |
| Se 196.026† | 140.3 | 0.490477 | mg/L | 0.0159551 | 0.490477 | mg/L | 0.0159551 | 3.25% |
| QC value within limits for Se 196.026 Recovery = 98.10% | | | | | | | | |
| Sn 189.927† | 159.8 | 0.498393 | mg/L | 0.0150869 | 0.498393 | mg/L | 0.0150869 | 3.03% |
| QC value within limits for Sn 189.927 Recovery = 99.68% | | | | | | | | |
| Ti 334.940† | 22311.4 | 0.504817 | mg/L | 0.0015856 | 0.504817 | mg/L | 0.0015856 | 0.31% |
| QC value within limits for Ti 334.940 Recovery = 100.96% | | | | | | | | |
| V 290.880† | 4158.8 | 0.482045 | mg/L | 0.0051116 | 0.482045 | mg/L | 0.0051116 | 1.06% |
| QC value within limits for V 290.880 Recovery = 96.41% | | | | | | | | |
| Zn 206.200† | 1877.3 | 0.495938 | mg/L | 0.0019004 | 0.495938 | mg/L | 0.0019004 | 0.38% |
| QC value within limits for Zn 206.200 Recovery = 99.19% | | | | | | | | |
| Si 251.611† | 13242.2 | 4.87741 | mg/L | 0.001741 | 4.87741 | mg/L | 0.001741 | 0.04% |
| QC value within limits for Si 251.611 Recovery = 97.55% | | | | | | | | |
| B 249.772† | 3424.7 | 0.470192 | mg/L | 0.0021193 | 0.470192 | mg/L | 0.0021193 | 0.45% |
| QC value within limits for B 249.772 Recovery = 94.04% | | | | | | | | |
| Ce 413.764† | 2223.1 | 0.508334 | mg/L | 0.0024958 | 0.508334 | mg/L | 0.0024958 | 0.49% |
| QC value within limits for Ce 413.764 Recovery = 101.67% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 13 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/28/2021 6:12:29 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43487.1 | 97.3 | % | 0.11 | 97.3 | % | 0.11 | 0.11% |
| Y 371.029 | 13217.2 | 98.0 | % | 0.02 | 98.0 | % | 0.02 | 0.02% |
| Al 308.215† | 3.6 | -0.0056847 | mg/L | 0.00453147 | -0.0056847 | mg/L | 0.00453147 | 79.71% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 2.5 | -0.0016728 | mg/L | 0.00047346 | -0.0016728 | mg/L | 0.00047346 | 28.30% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -24.0 | -0.148553 | mg/L | 0.0053113 | -0.148553 | mg/L | 0.0053113 | 3.58% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 15.8 | 0.0015399 | mg/L | 0.00388406 | 0.0015399 | mg/L | 0.00388406 | 252.22% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 2.3 | -0.0219818 | mg/L | 0.00232134 | -0.0219818 | mg/L | 0.00232134 | 10.56% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -128.3 | 0.0046151 | mg/L | 0.00697638 | 0.0046151 | mg/L | 0.00697638 | 151.16% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 1.5 | -0.212367 | mg/L | 0.0228159 | -0.212367 | mg/L | 0.0228159 | 10.74% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 3.4 | -0.0022781 | mg/L | 0.00037224 | -0.0022781 | mg/L | 0.00037224 | 16.34% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 4.3 | 0.0013259 | mg/L | 0.00087586 | 0.0013259 | mg/L | 0.00087586 | 66.06% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -4836.0 | -0.637881 | mg/L | 0.0067871 | -0.637881 | mg/L | 0.0067871 | 1.06% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 0.3 | -0.0036621 | mg/L | 0.00237664 | -0.0036621 | mg/L | 0.00237664 | 64.90% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 7.4 | 0.0195113 | mg/L | 0.03540441 | 0.0195113 | mg/L | 0.03540441 | 181.46% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -3.5 | -0.0077911 | mg/L | 0.00571515 | -0.0077911 | mg/L | 0.00571515 | 73.35% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -14.8 | -0.0016146 | mg/L | 0.00083856 | -0.0016146 | mg/L | 0.00083856 | 51.94% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 7.6 | -0.0007583 | mg/L | 0.00101795 | -0.0007583 | mg/L | 0.00101795 | 134.24% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 3.2 | -0.0010697 | mg/L | 0.00038644 | -0.0010697 | mg/L | 0.00038644 | 36.13% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | -5.7 | -0.130161 | mg/L | 0.0009254 | -0.130161 | mg/L | 0.0009254 | 0.71% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -4.9 | -0.0053066 | mg/L | 0.00072620 | -0.0053066 | mg/L | 0.00072620 | 13.68% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -7.9 | -0.0071100 | mg/L | 0.01463440 | -0.0071100 | mg/L | 0.01463440 | 205.83% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 14
Sample ID: AD26083-002
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 49
Date Collected: 9/28/2021 6:16:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-002

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42778.3 | 95.8 | % | 0.73 | 95.8 | % | 0.73 | 0.76% |
| Y 371.029 | 12478.7 | 92.5 | % | 0.66 | 92.5 | % | 0.66 | 0.71% |
| Al 308.215† | 238.2 | 0.258617 | mg/L | 0.0142578 | 0.258617 | mg/L | 0.0142578 | 5.51% |
| Ba 233.527† | 1277.3 | 0.270492 | mg/L | 0.0005735 | 0.270492 | mg/L | 0.0005735 | 0.21% |
| Ca 315.887† | 957594.0 | 181.842 | mg/L | 0.6622 | 181.842 | mg/L | 0.6622 | 0.36% |
| Cu 327.393† | -264.7 | 0.0244877 | mg/L | 0.00070540 | 0.0244877 | mg/L | 0.00070540 | 2.88% |
| Fe 273.955† | 961.7 | 0.801902 | mg/L | 0.0051535 | 0.801902 | mg/L | 0.0051535 | 0.64% |
| K 766.490† | 9451.7 | 5.20521 | mg/L | 0.027749 | 5.20521 | mg/L | 0.027749 | 0.53% |
| Mg 279.077† | 46921.8 | 71.8927 | mg/L | 0.30633 | 71.8927 | mg/L | 0.30633 | 0.43% |
| Mn 257.610† | 149992.2 | 5.04393 | mg/L | 0.024344 | 5.04393 | mg/L | 0.024344 | 0.48% |
| Mo 202.031† | 1.6 | -0.0005253 | mg/L | 0.00415704 | -0.0005253 | mg/L | 0.00415704 | 791.44% |
| Na 589.592† | 7464175.3 | 796.007 | mg/L | 8.9062 | 796.007 | mg/L | 8.9062 | 1.12% |
| Ni 231.604† | 124.4 | 0.0603606 | mg/L | 0.00308190 | 0.0603606 | mg/L | 0.00308190 | 5.11% |
| Se 196.026† | 3.9 | 0.0077290 | mg/L | 0.01089166 | 0.0077290 | mg/L | 0.01089166 | 140.92% |
| Sn 189.927† | -27.1 | -0.0486501 | mg/L | 0.00228245 | -0.0486501 | mg/L | 0.00228245 | 4.69% |
| Ti 334.940† | -763.3 | 0.0112577 | mg/L | 0.00114749 | 0.0112577 | mg/L | 0.00114749 | 10.19% |
| V 290.880† | 651.1 | 0.0481524 | mg/L | 0.00081852 | 0.0481524 | mg/L | 0.00081852 | 1.70% |
| Zn 206.200† | 133.2 | 0.0333938 | mg/L | 0.00063553 | 0.0333938 | mg/L | 0.00063553 | 1.90% |
| Si 251.611† | 35538.6 | 13.3053 | mg/L | 0.05795 | 13.3053 | mg/L | 0.05795 | 0.44% |
| B 249.772† | 6261.2 | 0.896956 | mg/L | 0.0016037 | 0.896956 | mg/L | 0.0016037 | 0.18% |
| Ce 413.764† | -23.1 | -0.0106236 | mg/L | 0.00633730 | -0.0106236 | mg/L | 0.00633730 | 59.65% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 15 Autosampler Location: 50
Sample ID: AD26083-005 Date Collected: 9/28/2021 6:20:53 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-005

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43067.0 | 96.4 | % | 1.34 | 96.4 | % | 1.34 | 1.39% |
| Y 371.029 | 13075.5 | 96.9 | % | 1.34 | 96.9 | % | 1.34 | 1.38% |
| Al 308.215† | -4.3 | -0.0143036 | mg/L | 0.00780214 | -0.0143036 | mg/L | 0.00780214 | 54.55% |
| Ba 233.527† | 6.2 | -0.0008878 | mg/L | 0.00109777 | -0.0008878 | mg/L | 0.00109777 | 123.66% |
| Ca 315.887† | 349.9 | -0.0774919 | mg/L | 0.00503021 | -0.0774919 | mg/L | 0.00503021 | 6.49% |
| Cu 327.393† | -4.9 | -0.0029607 | mg/L | 0.00279883 | -0.0029607 | mg/L | 0.00279883 | 94.53% |
| Fe 273.955† | 12.1 | -0.0135374 | mg/L | 0.00127479 | -0.0135374 | mg/L | 0.00127479 | 9.42% |
| K 766.490† | 91.7 | 0.124071 | mg/L | 0.0378951 | 0.124071 | mg/L | 0.0378951 | 30.54% |
| Mg 279.077† | 0.1 | -0.214439 | mg/L | 0.0217091 | -0.214439 | mg/L | 0.0217091 | 10.12% |
| Mn 257.610† | 27.4 | -0.0014757 | mg/L | 0.00012231 | -0.0014757 | mg/L | 0.00012231 | 8.29% |
| Mo 202.031† | -2.9 | -0.0036875 | mg/L | 0.00417930 | -0.0036875 | mg/L | 0.00417930 | 113.34% |
| Na 589.592† | -358.4 | -0.160302 | mg/L | 0.0515961 | -0.160302 | mg/L | 0.0515961 | 32.19% |
| Ni 231.604† | 0.6 | -0.0035123 | mg/L | 0.00097043 | -0.0035123 | mg/L | 0.00097043 | 27.63% |
| Se 196.026† | 7.5 | 0.0196740 | mg/L | 0.01415782 | 0.0196740 | mg/L | 0.01415782 | 71.96% |
| Sn 189.927† | -6.2 | -0.0159385 | mg/L | 0.00605712 | -0.0159385 | mg/L | 0.00605712 | 38.00% |
| Ti 334.940† | 15.3 | -0.0009315 | mg/L | 0.00089388 | -0.0009315 | mg/L | 0.00089388 | 95.96% |
| V 290.880† | 1.9 | -0.0014465 | mg/L | 0.00090598 | -0.0014465 | mg/L | 0.00090598 | 62.63% |
| Zn 206.200† | 14.7 | 0.0019682 | mg/L | 0.00113052 | 0.0019682 | mg/L | 0.00113052 | 57.44% |
| Si 251.611† | 110.7 | -0.0861857 | mg/L | 0.00311844 | -0.0861857 | mg/L | 0.00311844 | 3.62% |
| B 249.772† | 12.1 | -0.0028816 | mg/L | 0.00167065 | -0.0028816 | mg/L | 0.00167065 | 57.98% |
| Ce 413.764† | -20.1 | -0.0099356 | mg/L | 0.00677457 | -0.0099356 | mg/L | 0.00677457 | 68.18% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 16
Sample ID: AD26083-008
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 51
Date Collected: 9/28/2021 6:24:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-008

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42766.7 | 95.7 | % | 0.70 | 95.7 | % | 0.70 | 0.73% |
| Y 371.029 | 12807.6 | 94.9 | % | 0.80 | 94.9 | % | 0.80 | 0.84% |
| Al 308.215† | 93.0 | 0.0988395 | mg/L | 0.00906544 | 0.0988395 | mg/L | 0.00906544 | 9.17% |
| Ba 233.527† | 578.2 | 0.120579 | mg/L | 0.0011991 | 0.120579 | mg/L | 0.0011991 | 0.99% |
| Ca 315.887† | 679088.4 | 128.913 | mg/L | 0.8464 | 128.913 | mg/L | 0.8464 | 0.66% |
| Cu 327.393† | -208.3 | 0.0122968 | mg/L | 0.00439468 | 0.0122968 | mg/L | 0.00439468 | 35.74% |
| Fe 273.955† | 1804.9 | 1.52594 | mg/L | 0.004343 | 1.52594 | mg/L | 0.004343 | 0.28% |
| K 766.490† | 13030.6 | 7.14802 | mg/L | 0.055679 | 7.14802 | mg/L | 0.055679 | 0.78% |
| Mg 279.077† | 37302.4 | 57.1101 | mg/L | 0.27406 | 57.1101 | mg/L | 0.27406 | 0.48% |
| Mn 257.610† | 12279.5 | 0.420412 | mg/L | 0.0034397 | 0.420412 | mg/L | 0.0034397 | 0.82% |
| Mo 202.031† | -0.2 | -0.0017997 | mg/L | 0.00148839 | -0.0017997 | mg/L | 0.00148839 | 82.70% |
| Na 589.592† | 366320.8 | 38.9497 | mg/L | 0.12060 | 38.9497 | mg/L | 0.12060 | 0.31% |
| Ni 231.604† | -5.1 | -0.0058999 | mg/L | 0.00125455 | -0.0058999 | mg/L | 0.00125455 | 21.26% |
| Se 196.026† | 5.4 | 0.0137471 | mg/L | 0.00935265 | 0.0137471 | mg/L | 0.00935265 | 68.03% |
| Sn 189.927† | -26.2 | -0.0539188 | mg/L | 0.00418333 | -0.0539188 | mg/L | 0.00418333 | 7.76% |
| Ti 334.940† | -772.8 | 0.0024434 | mg/L | 0.00073951 | 0.0024434 | mg/L | 0.00073951 | 30.27% |
| V 290.880† | 595.8 | 0.0474046 | mg/L | 0.00909073 | 0.0474046 | mg/L | 0.00909073 | 19.18% |
| Zn 206.200† | 98.8 | 0.0242716 | mg/L | 0.00047175 | 0.0242716 | mg/L | 0.00047175 | 1.94% |
| Si 251.611† | 40755.3 | 15.2771 | mg/L | 0.10500 | 15.2771 | mg/L | 0.10500 | 0.69% |
| B 249.772† | 601.3 | 0.0760421 | mg/L | 0.00056365 | 0.0760421 | mg/L | 0.00056365 | 0.74% |
| Ce 413.764† | -4.2 | -0.0062659 | mg/L | 0.01059991 | -0.0062659 | mg/L | 0.01059991 | 169.17% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 17
Autosampler Location: 52
Sample ID: AD26083-009
Date Collected: 9/28/2021 6:28:51 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-009

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42730.2 | 95.6 | % | 0.16 | 95.6 | % | 0.16 | 0.16% |
| Y 371.029 | 12641.2 | 93.7 | % | 0.35 | 93.7 | % | 0.35 | 0.37% |
| Al 308.215† | 91.3 | 0.0960660 | mg/L | 0.00124790 | 0.0960660 | mg/L | 0.00124790 | 1.30% |
| Ba 233.527† | 545.1 | 0.113556 | mg/L | 0.0005056 | 0.113556 | mg/L | 0.0005056 | 0.45% |
| Ca 315.887† | 646919.5 | 122.800 | mg/L | 0.3945 | 122.800 | mg/L | 0.3945 | 0.32% |
| Cu 327.393† | -192.9 | 0.0128331 | mg/L | 0.00163452 | 0.0128331 | mg/L | 0.00163452 | 12.74% |
| Fe 273.955† | 1715.8 | 1.44941 | mg/L | 0.010344 | 1.44941 | mg/L | 0.010344 | 0.71% |
| K 766.490† | 12503.5 | 6.86191 | mg/L | 0.021082 | 6.86191 | mg/L | 0.021082 | 0.31% |
| Mg 279.077† | 35205.7 | 53.8879 | mg/L | 0.06623 | 53.8879 | mg/L | 0.06623 | 0.12% |
| Mn 257.610† | 11469.7 | 0.392633 | mg/L | 0.0007781 | 0.392633 | mg/L | 0.0007781 | 0.20% |
| Mo 202.031† | -0.1 | -0.0017298 | mg/L | 0.00193218 | -0.0017298 | mg/L | 0.00193218 | 111.70% |
| Na 589.592† | 365877.1 | 38.9024 | mg/L | 0.14425 | 38.9024 | mg/L | 0.14425 | 0.37% |
| Ni 231.604† | 1.8 | -0.0023663 | mg/L | 0.00209873 | -0.0023663 | mg/L | 0.00209873 | 88.69% |
| Se 196.026† | -2.7 | -0.0146736 | mg/L | 0.00471014 | -0.0146736 | mg/L | 0.00471014 | 32.10% |
| Sn 189.927† | -28.7 | -0.0625941 | mg/L | 0.00621589 | -0.0625941 | mg/L | 0.00621589 | 9.93% |
| Ti 334.940† | -690.2 | 0.0032934 | mg/L | 0.00032549 | 0.0032934 | mg/L | 0.00032549 | 9.88% |
| V 290.880† | 517.6 | 0.0392336 | mg/L | 0.00118313 | 0.0392336 | mg/L | 0.00118313 | 3.02% |
| Zn 206.200† | 81.7 | 0.0197382 | mg/L | 0.00019851 | 0.0197382 | mg/L | 0.00019851 | 1.01% |
| Si 251.611† | 39276.9 | 14.7183 | mg/L | 0.01071 | 14.7183 | mg/L | 0.01071 | 0.07% |
| B 249.772† | 644.6 | 0.0826107 | mg/L | 0.00068873 | 0.0826107 | mg/L | 0.00068873 | 0.83% |
| Ce 413.764† | 14.0 | -0.0020476 | mg/L | 0.00864598 | -0.0020476 | mg/L | 0.00864598 | 422.24% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 18
Autosampler Location: 53
Sample ID: AD26083-011
Date Collected: 9/28/2021 6:32:58 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-011

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42581.0 | 95.3 | % | 0.69 | 95.3 | % | 0.69 | 0.73% |
| Y 371.029 | 12819.9 | 95.0 | % | 1.02 | 95.0 | % | 1.02 | 1.08% |
| Al 308.215† | 12.4 | 0.0058596 | mg/L | 0.00726148 | 0.0058596 | mg/L | 0.00726148 | 123.92% |
| Ba 233.527† | 1386.5 | 0.294174 | mg/L | 0.0026583 | 0.294174 | mg/L | 0.0026583 | 0.90% |
| Ca 315.887† | 389436.1 | 73.8664 | mg/L | 0.59418 | 73.8664 | mg/L | 0.59418 | 0.80% |
| Cu 327.393† | -121.0 | 0.0058975 | mg/L | 0.00735720 | 0.0058975 | mg/L | 0.00735720 | 124.75% |
| Fe 273.955† | 247.6 | 0.188705 | mg/L | 0.0008378 | 0.188705 | mg/L | 0.0008378 | 0.44% |
| K 766.490† | 2798.9 | 1.59365 | mg/L | 0.010683 | 1.59365 | mg/L | 0.010683 | 0.67% |
| Mg 279.077† | 9660.6 | 14.6313 | mg/L | 0.04960 | 14.6313 | mg/L | 0.04960 | 0.34% |
| Mn 257.610† | 17677.7 | 0.593547 | mg/L | 0.0035727 | 0.593547 | mg/L | 0.0035727 | 0.60% |
| Mo 202.031† | 0.9 | -0.0010519 | mg/L | 0.00420335 | -0.0010519 | mg/L | 0.00420335 | 399.58% |
| Na 589.592† | 186827.8 | 19.8050 | mg/L | 0.12347 | 19.8050 | mg/L | 0.12347 | 0.62% |
| Ni 231.604† | -6.3 | -0.0069893 | mg/L | 0.00260505 | -0.0069893 | mg/L | 0.00260505 | 37.27% |
| Se 196.026† | 3.3 | 0.0051948 | mg/L | 0.00848475 | 0.0051948 | mg/L | 0.00848475 | 163.33% |
| Sn 189.927† | -12.5 | -0.0250695 | mg/L | 0.01213143 | -0.0250695 | mg/L | 0.01213143 | 48.39% |
| Ti 334.940† | -538.3 | -0.0012691 | mg/L | 0.00092328 | -0.0012691 | mg/L | 0.00092328 | 72.75% |
| V 290.880† | 182.6 | 0.0144614 | mg/L | 0.00095381 | 0.0144614 | mg/L | 0.00095381 | 6.60% |
| Zn 206.200† | 16.6 | 0.0024730 | mg/L | 0.00170187 | 0.0024730 | mg/L | 0.00170187 | 68.82% |
| Si 251.611† | 25248.2 | 9.41559 | mg/L | 0.021420 | 9.41559 | mg/L | 0.021420 | 0.23% |
| B 249.772† | 120.8 | 0.0120064 | mg/L | 0.00025796 | 0.0120064 | mg/L | 0.00025796 | 2.15% |
| Ce 413.764† | 7.9 | -0.0034657 | mg/L | 0.00234417 | -0.0034657 | mg/L | 0.00234417 | 67.64% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 19
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 6
Date Collected: 9/28/2021 6:37:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42571.1 | 95.3 | % | 0.55 | 95.3 | % | 0.55 | 0.58% |
| Y 371.029 | 12796.6 | 94.9 | % | 0.68 | 94.9 | % | 0.68 | 0.71% |
| Al 308.215† | 4510.2 | 4.96522 | mg/L | 0.028264 | 4.96522 | mg/L | 0.028264 | 0.57% |
| QC value within limits for Al 308.215 Recovery = 99.30% | | | | | | | | |
| Ba 233.527† | 2268.9 | 0.480283 | mg/L | 0.0021981 | 0.480283 | mg/L | 0.0021981 | 0.46% |
| QC value within limits for Ba 233.527 Recovery = 96.06% | | | | | | | | |
| Ca 315.887† | 250665.2 | 47.4937 | mg/L | 0.50995 | 47.4937 | mg/L | 0.50995 | 1.07% |
| QC value within limits for Ca 315.887 Recovery = 94.99% | | | | | | | | |
| Cu 327.393† | 2313.3 | 0.528289 | mg/L | 0.0031783 | 0.528289 | mg/L | 0.0031783 | 0.60% |
| QC value within limits for Cu 327.393 Recovery = 105.66% | | | | | | | | |
| Fe 273.955† | 5652.3 | 4.82980 | mg/L | 0.013040 | 4.82980 | mg/L | 0.013040 | 0.27% |
| QC value within limits for Fe 273.955 Recovery = 96.60% | | | | | | | | |
| K 766.490† | 87775.8 | 47.7241 | mg/L | 0.44350 | 47.7241 | mg/L | 0.44350 | 0.93% |
| QC value within limits for K 766.490 Recovery = 95.45% | | | | | | | | |
| Mg 279.077† | 31459.7 | 48.1312 | mg/L | 0.06974 | 48.1312 | mg/L | 0.06974 | 0.14% |
| QC value within limits for Mg 279.077 Recovery = 96.26% | | | | | | | | |
| Mn 257.610† | 14339.2 | 0.487833 | mg/L | 0.0021776 | 0.487833 | mg/L | 0.0021776 | 0.45% |
| QC value within limits for Mn 257.610 Recovery = 97.57% | | | | | | | | |
| Mo 202.031† | 688.1 | 0.479970 | mg/L | 0.0067159 | 0.479970 | mg/L | 0.0067159 | 1.40% |
| QC value within limits for Mo 202.031 Recovery = 95.99% | | | | | | | | |
| Na 589.592† | 450234.2 | 47.8999 | mg/L | 0.43204 | 47.8999 | mg/L | 0.43204 | 0.90% |
| QC value within limits for Na 589.592 Recovery = 95.80% | | | | | | | | |
| Ni 231.604† | 938.5 | 0.479403 | mg/L | 0.0087448 | 0.479403 | mg/L | 0.0087448 | 1.82% |
| QC value within limits for Ni 231.604 Recovery = 95.88% | | | | | | | | |
| Se 196.026† | 132.9 | 0.464233 | mg/L | 0.0091502 | 0.464233 | mg/L | 0.0091502 | 1.97% |
| QC value within limits for Se 196.026 Recovery = 92.85% | | | | | | | | |
| Sn 189.927† | 153.1 | 0.477664 | mg/L | 0.0133743 | 0.477664 | mg/L | 0.0133743 | 2.80% |
| QC value within limits for Sn 189.927 Recovery = 95.53% | | | | | | | | |
| Ti 334.940† | 21735.2 | 0.491604 | mg/L | 0.0024100 | 0.491604 | mg/L | 0.0024100 | 0.49% |
| QC value within limits for Ti 334.940 Recovery = 98.32% | | | | | | | | |
| V 290.880† | 4095.3 | 0.474875 | mg/L | 0.0060409 | 0.474875 | mg/L | 0.0060409 | 1.27% |
| QC value within limits for V 290.880 Recovery = 94.97% | | | | | | | | |
| Zn 206.200† | 1801.7 | 0.475892 | mg/L | 0.0020801 | 0.475892 | mg/L | 0.0020801 | 0.44% |
| QC value within limits for Zn 206.200 Recovery = 95.18% | | | | | | | | |
| Si 251.611† | 13009.6 | 4.78949 | mg/L | 0.010371 | 4.78949 | mg/L | 0.010371 | 0.22% |
| QC value within limits for Si 251.611 Recovery = 95.79% | | | | | | | | |
| B 249.772† | 3324.2 | 0.456213 | mg/L | 0.0029156 | 0.456213 | mg/L | 0.0029156 | 0.64% |
| QC value within limits for B 249.772 Recovery = 91.24% | | | | | | | | |
| Ce 413.764† | 2102.5 | 0.480462 | mg/L | 0.0069776 | 0.480462 | mg/L | 0.0069776 | 1.45% |
| QC value within limits for Ce 413.764 Recovery = 96.09% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 20
Autosampler Location: 2
Sample ID: CCB V-352951
Date Collected: 9/28/2021 6:41:13 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43168.9 | 96.6 | % | 0.19 | 96.6 | % | 0.19 | 0.19% |
| Y 371.029 | 13169.1 | 97.6 | % | 0.07 | 97.6 | % | 0.07 | 0.07% |
| Al 308.215† | -11.1 | -0.0219172 | mg/L | 0.00727312 | -0.0219172 | mg/L | 0.00727312 | 33.18% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 4.0 | -0.0013437 | mg/L | 0.00104690 | -0.0013437 | mg/L | 0.00104690 | 77.91% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -26.9 | -0.149098 | mg/L | 0.0014189 | -0.149098 | mg/L | 0.0014189 | 0.95% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 0.9 | -0.0017326 | mg/L | 0.00581453 | -0.0017326 | mg/L | 0.00581453 | 335.59% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -1.2 | -0.0249389 | mg/L | 0.00632436 | -0.0249389 | mg/L | 0.00632436 | 25.36% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -168.3 | -0.0170705 | mg/L | 0.00760044 | -0.0170705 | mg/L | 0.00760044 | 44.52% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -10.9 | -0.231481 | mg/L | 0.0032138 | -0.231481 | mg/L | 0.0032138 | 1.39% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 4.2 | -0.0022567 | mg/L | 0.00016962 | -0.0022567 | mg/L | 0.00016962 | 7.52% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 1.6 | -0.0005241 | mg/L | 0.00081303 | -0.0005241 | mg/L | 0.00081303 | 155.14% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -5384.2 | -0.696353 | mg/L | 0.0105891 | -0.696353 | mg/L | 0.0105891 | 1.52% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -2.7 | -0.0052378 | mg/L | 0.00359483 | -0.0052378 | mg/L | 0.00359483 | 68.63% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 2.9 | 0.0036401 | mg/L | 0.01096557 | 0.0036401 | mg/L | 0.01096557 | 301.24% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.2 | -0.0040204 | mg/L | 0.00913829 | -0.0040204 | mg/L | 0.00913829 | 227.30% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -21.6 | -0.0017678 | mg/L | 0.00050665 | -0.0017678 | mg/L | 0.00050665 | 28.66% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 1.3 | -0.0015132 | mg/L | 0.00054938 | -0.0015132 | mg/L | 0.00054938 | 36.31% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -3.5 | -0.0028618 | mg/L | 0.00182020 | -0.0028618 | mg/L | 0.00182020 | 63.60% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | -0.3 | -0.128125 | mg/L | 0.0012101 | -0.128125 | mg/L | 0.0012101 | 0.94% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 6.2 | -0.0036992 | mg/L | 0.00002259 | -0.0036992 | mg/L | 0.00002259 | 0.61% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 21.9 | -0.0002420 | mg/L | 0.00139051 | -0.0002420 | mg/L | 0.00139051 | 574.57% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 21
Sample ID: AD26083-018
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 54
Date Collected: 9/28/2021 6:45:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-018

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43249.0 | 96.8 | % | 0.86 | 96.8 | % | 0.86 | 0.89% |
| Y 371.029 | 13222.5 | 98.0 | % | 0.73 | 98.0 | % | 0.73 | 0.74% |
| Al 308.215† | 1322.7 | 1.44236 | mg/L | 0.023988 | 1.44236 | mg/L | 0.023988 | 1.66% |
| Ba 233.527† | 553.6 | 0.113965 | mg/L | 0.0016112 | 0.113965 | mg/L | 0.0016112 | 1.41% |
| Ca 315.887† | 65513.5 | 12.3065 | mg/L | 0.03011 | 12.3065 | mg/L | 0.03011 | 0.24% |
| Cu 327.393† | 321.7 | 0.0745277 | mg/L | 0.00175421 | 0.0745277 | mg/L | 0.00175421 | 2.35% |
| Fe 273.955† | 4626.8 | 3.94917 | mg/L | 0.014736 | 3.94917 | mg/L | 0.014736 | 0.37% |
| K 766.490† | 7489.0 | 4.13972 | mg/L | 0.038767 | 4.13972 | mg/L | 0.038767 | 0.94% |
| Mg 279.077† | 9464.9 | 14.3306 | mg/L | 0.06142 | 14.3306 | mg/L | 0.06142 | 0.43% |
| Mn 257.610† | 5002.9 | 0.168209 | mg/L | 0.0012009 | 0.168209 | mg/L | 0.0012009 | 0.71% |
| Mo 202.031† | 0.8 | -0.0010999 | mg/L | 0.00133061 | -0.0010999 | mg/L | 0.00133061 | 120.98% |
| Na 589.592† | 811219.7 | 86.4026 | mg/L | 1.14258 | 86.4026 | mg/L | 1.14258 | 1.32% |
| Ni 231.604† | 61.7 | 0.0291613 | mg/L | 0.00411284 | 0.0291613 | mg/L | 0.00411284 | 14.10% |
| Se 196.026† | 3.4 | 0.0089456 | mg/L | 0.00605122 | 0.0089456 | mg/L | 0.00605122 | 67.65% |
| Sn 189.927† | -7.1 | -0.0151072 | mg/L | 0.00765816 | -0.0151072 | mg/L | 0.00765816 | 50.69% |
| Ti 334.940† | 3546.1 | 0.0798909 | mg/L | 0.00063444 | 0.0798909 | mg/L | 0.00063444 | 0.79% |
| V 290.880† | 193.1 | 0.0158524 | mg/L | 0.00198846 | 0.0158524 | mg/L | 0.00198846 | 12.54% |
| Zn 206.200† | 242.3 | 0.0623301 | mg/L | 0.00062671 | 0.0623301 | mg/L | 0.00062671 | 1.01% |
| Si 251.611† | 31195.0 | 11.6634 | mg/L | 0.06644 | 11.6634 | mg/L | 0.06644 | 0.57% |
| B 249.772† | 1060.5 | 0.132614 | mg/L | 0.0019567 | 0.132614 | mg/L | 0.0019567 | 1.48% |
| Ce 413.764† | 26.8 | 0.0009056 | mg/L | 0.00453364 | 0.0009056 | mg/L | 0.00453364 | 500.64% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 22
Autosampler Location: 55
Sample ID: AD26083-026
Date Collected: 9/28/2021 6:49:13 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-026

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42972.5 | 96.2 | % | 0.27 | 96.2 | % | 0.27 | 0.28% |
| Y 371.029 | 13036.0 | 96.6 | % | 0.42 | 96.6 | % | 0.42 | 0.43% |
| Al 308.215† | 103.1 | 0.104648 | mg/L | 0.0118350 | 0.104648 | mg/L | 0.0118350 | 11.31% |
| Ba 233.527† | 1947.0 | 0.414077 | mg/L | 0.0015667 | 0.414077 | mg/L | 0.0015667 | 0.38% |
| Ca 315.887† | 299347.9 | 56.7456 | mg/L | 0.54734 | 56.7456 | mg/L | 0.54734 | 0.96% |
| Cu 327.393† | -110.5 | 0.0002348 | mg/L | 0.00320073 | 0.0002348 | mg/L | 0.00320073 | >999.9% |
| Fe 273.955† | 149.3 | 0.104285 | mg/L | 0.0063742 | 0.104285 | mg/L | 0.0063742 | 6.11% |
| K 766.490† | 4298.8 | 2.40790 | mg/L | 0.011234 | 2.40790 | mg/L | 0.011234 | 0.47% |
| Mg 279.077† | 8025.4 | 12.1184 | mg/L | 0.06514 | 12.1184 | mg/L | 0.06514 | 0.54% |
| Mn 257.610† | 1755.3 | 0.0588241 | mg/L | 0.00050515 | 0.0588241 | mg/L | 0.00050515 | 0.86% |
| Mo 202.031† | 10.1 | 0.0054077 | mg/L | 0.00256801 | 0.0054077 | mg/L | 0.00256801 | 47.49% |
| Na 589.592† | 368969.0 | 39.2322 | mg/L | 0.35239 | 39.2322 | mg/L | 0.35239 | 0.90% |
| Ni 231.604† | -0.1 | -0.0038448 | mg/L | 0.00206068 | -0.0038448 | mg/L | 0.00206068 | 53.60% |
| Se 196.026† | 6.6 | 0.0165619 | mg/L | 0.00786979 | 0.0165619 | mg/L | 0.00786979 | 47.52% |
| Sn 189.927† | -10.8 | -0.0220130 | mg/L | 0.00174902 | -0.0220130 | mg/L | 0.00174902 | 7.95% |
| Ti 334.940† | -229.7 | 0.0028357 | mg/L | 0.00076984 | 0.0028357 | mg/L | 0.00076984 | 27.15% |
| V 290.880† | 136.6 | 0.0098965 | mg/L | 0.00126292 | 0.0098965 | mg/L | 0.00126292 | 12.76% |
| Zn 206.200† | 95.5 | 0.0233979 | mg/L | 0.00058518 | 0.0233979 | mg/L | 0.00058518 | 2.50% |
| Si 251.611† | 14049.0 | 5.18238 | mg/L | 0.019101 | 5.18238 | mg/L | 0.019101 | 0.37% |
| B 249.772† | 1410.7 | 0.198773 | mg/L | 0.0016351 | 0.198773 | mg/L | 0.0016351 | 0.82% |
| Ce 413.764† | 8.1 | -0.0034149 | mg/L | 0.00776765 | -0.0034149 | mg/L | 0.00776765 | 227.47% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 23 Autosampler Location: 56
Sample ID: AD26083-027 Date Collected: 9/28/2021 6:53:20 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-027

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42288.5 | 94.7 | % | 0.95 | 94.7 | % | 0.95 | 1.00% |
| Y 371.029 | 12802.3 | 94.9 | % | 0.96 | 94.9 | % | 0.96 | 1.01% |
| Al 308.215† | 125.8 | 0.129044 | mg/L | 0.0082662 | 0.129044 | mg/L | 0.0082662 | 6.41% |
| Ba 233.527† | 439.1 | 0.0914963 | mg/L | 0.00140130 | 0.0914963 | mg/L | 0.00140130 | 1.53% |
| Ca 315.887† | 29900.4 | 5.53844 | mg/L | 0.021121 | 5.53844 | mg/L | 0.021121 | 0.38% |
| Cu 327.393† | 5.1 | 0.0018446 | mg/L | 0.00469497 | 0.0018446 | mg/L | 0.00469497 | 254.52% |
| Fe 273.955† | 436.4 | 0.350803 | mg/L | 0.0073726 | 0.350803 | mg/L | 0.0073726 | 2.10% |
| K 766.490† | 28344.7 | 15.4614 | mg/L | 0.07755 | 15.4614 | mg/L | 0.07755 | 0.50% |
| Mg 279.077† | 4096.8 | 6.08107 | mg/L | 0.033678 | 6.08107 | mg/L | 0.033678 | 0.55% |
| Mn 257.610† | 1282.2 | 0.0418130 | mg/L | 0.00047129 | 0.0418130 | mg/L | 0.00047129 | 1.13% |
| Mo 202.031† | 15.8 | 0.0093971 | mg/L | 0.00425831 | 0.0093971 | mg/L | 0.00425831 | 45.32% |
| Na 589.592† | 3164097.0 | 337.361 | mg/L | 5.0873 | 337.361 | mg/L | 5.0873 | 1.51% |
| Ni 231.604† | 11.7 | 0.0022948 | mg/L | 0.00229105 | 0.0022948 | mg/L | 0.00229105 | 99.84% |
| Se 196.026† | 4.6 | 0.0099072 | mg/L | 0.01408611 | 0.0099072 | mg/L | 0.01408611 | 142.18% |
| Sn 189.927† | -6.8 | -0.0163733 | mg/L | 0.00486403 | -0.0163733 | mg/L | 0.00486403 | 29.71% |
| Ti 334.940† | 305.9 | 0.0064660 | mg/L | 0.00032147 | 0.0064660 | mg/L | 0.00032147 | 4.97% |
| V 290.880† | 105.0 | 0.0085058 | mg/L | 0.00213306 | 0.0085058 | mg/L | 0.00213306 | 25.08% |
| Zn 206.200† | 14.7 | 0.0019852 | mg/L | 0.00056078 | 0.0019852 | mg/L | 0.00056078 | 28.25% |
| Si 251.611† | 20545.8 | 7.63811 | mg/L | 0.015077 | 7.63811 | mg/L | 0.015077 | 0.20% |
| B 249.772† | 3669.8 | 0.524272 | mg/L | 0.0012264 | 0.524272 | mg/L | 0.0012264 | 0.23% |
| Ce 413.764† | 58.5 | 0.0082186 | mg/L | 0.00582181 | 0.0082186 | mg/L | 0.00582181 | 70.84% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 24
Autosampler Location: 57
Sample ID: AD26083-032
Date Collected: 9/28/2021 6:57:30 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-032

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 40416.6 | 90.5 | % | 2.80 | 90.5 | % | 2.80 | 3.09% |
| Y 371.029 | 11561.1 | 85.7 | % | 2.92 | 85.7 | % | 2.92 | 3.41% |
| Al 308.215† | 46.2 | 0.0789796 | mg/L | 0.02116800 | 0.0789796 | mg/L | 0.02116800 | 26.80% |
| Ba 233.527† | 493.0 | 0.0910393 | mg/L | 0.00156582 | 0.0910393 | mg/L | 0.00156582 | 1.72% |
| Ca 315.887† | 2571282.4 | 488.515 | mg/L | 17.0578 | 488.515 | mg/L | 17.0578 | 3.49% |
| Cu 327.393† | -812.1 | 0.0467422 | mg/L | 0.01073457 | 0.0467422 | mg/L | 0.01073457 | 22.97% |
| Fe 273.955† | 25555.6 | 21.9210 | mg/L | 0.11700 | 21.9210 | mg/L | 0.11700 | 0.53% |
| K 766.490† | 139730.1 | 75.9279 | mg/L | 3.07578 | 75.9279 | mg/L | 3.07578 | 4.05% |
| Mg 279.077† | 334444.7 | 513.745 | mg/L | 16.6662 | 513.745 | mg/L | 16.6662 | 3.24% |
| Mn 257.610† | 73559.5 | 2.56248 | mg/L | 0.008835 | 2.56248 | mg/L | 0.008835 | 0.34% |
| Mo 202.031† | -13.6 | -0.0111659 | mg/L | 0.00664142 | -0.0111659 | mg/L | 0.00664142 | 59.48% |
| Na 589.592† | Saturated3 | | | | | | | |
| Ni 231.604† | -27.5 | -0.0097311 | mg/L | 0.00173931 | -0.0097311 | mg/L | 0.00173931 | 17.87% |
| Se 196.026† | -10.3 | -0.0219744 | mg/L | 0.02332157 | -0.0219744 | mg/L | 0.02332157 | 106.13% |
| Sn 189.927† | -124.9 | -0.242880 | mg/L | 0.0188048 | -0.242880 | mg/L | 0.0188048 | 7.74% |
| Ti 334.940† | -4113.9 | -0.0136842 | mg/L | 0.00202614 | -0.0136842 | mg/L | 0.00202614 | 14.81% |
| V 290.880† | 3403.0 | 0.203569 | mg/L | 0.0221311 | 0.203569 | mg/L | 0.0221311 | 10.87% |
| Zn 206.200† | 88.6 | 0.0215638 | mg/L | 0.00234763 | 0.0215638 | mg/L | 0.00234763 | 10.89% |
| Si 251.611† | 31716.9 | 11.8607 | mg/L | 0.01619 | 11.8607 | mg/L | 0.01619 | 0.14% |
| B 249.772† | 9094.2 | 1.22104 | mg/L | 0.005546 | 1.22104 | mg/L | 0.005546 | 0.45% |
| Ce 413.764† | -57.8 | -0.0186562 | mg/L | 0.00771285 | -0.0186562 | mg/L | 0.00771285 | 41.34% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 25
Autosampler Location: 58
Sample ID: AD26083-033
Date Collected: 9/28/2021 7:02:54 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-033

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 44385.8 | 99.4 | % | 0.91 | 99.4 | % | 0.91 | 0.92% |
| Y 371.029 | 13485.1 | 100.0 | % | 0.85 | 100.0 | % | 0.85 | 0.86% |
| Al 308.215† | 1.4 | -0.0082202 | mg/L | 0.00275928 | -0.0082202 | mg/L | 0.00275928 | 33.57% |
| Ba 233.527† | 3.1 | -0.0015492 | mg/L | 0.00116376 | -0.0015492 | mg/L | 0.00116376 | 75.12% |
| Ca 315.887† | 443.3 | -0.0597345 | mg/L | 0.00320234 | -0.0597345 | mg/L | 0.00320234 | 5.36% |
| Cu 327.393† | 7.0 | -0.0003507 | mg/L | 0.00232597 | -0.0003507 | mg/L | 0.00232597 | 663.16% |
| Fe 273.955† | 19.5 | -0.0072024 | mg/L | 0.00071565 | -0.0072024 | mg/L | 0.00071565 | 9.94% |
| K 766.490† | 567.7 | 0.382466 | mg/L | 0.0534916 | 0.382466 | mg/L | 0.0534916 | 13.99% |
| Mg 279.077† | 0.6 | -0.213763 | mg/L | 0.0048429 | -0.213763 | mg/L | 0.0048429 | 2.27% |
| Mn 257.610† | 19.0 | -0.0017546 | mg/L | 0.00010860 | -0.0017546 | mg/L | 0.00010860 | 6.19% |
| Mo 202.031† | 2.0 | -0.0002418 | mg/L | 0.00207886 | -0.0002418 | mg/L | 0.00207886 | 859.84% |
| Na 589.592† | 9480.5 | 0.889109 | mg/L | 0.1448520 | 0.889109 | mg/L | 0.1448520 | 16.29% |
| Ni 231.604† | 4.4 | -0.0015831 | mg/L | 0.00301862 | -0.0015831 | mg/L | 0.00301862 | 190.68% |
| Se 196.026† | 0.0 | -0.0065480 | mg/L | 0.01142728 | -0.0065480 | mg/L | 0.01142728 | 174.51% |
| Sn 189.927† | -4.4 | -0.0107256 | mg/L | 0.01045175 | -0.0107256 | mg/L | 0.01045175 | 97.45% |
| Ti 334.940† | 36.4 | -0.0004584 | mg/L | 0.00053937 | -0.0004584 | mg/L | 0.00053937 | 117.67% |
| V 290.880† | -5.0 | -0.0022903 | mg/L | 0.00183884 | -0.0022903 | mg/L | 0.00183884 | 80.29% |
| Zn 206.200† | 82.5 | 0.0199431 | mg/L | 0.00041372 | 0.0199431 | mg/L | 0.00041372 | 2.07% |
| Si 251.611† | 70.7 | -0.101290 | mg/L | 0.0018176 | -0.101290 | mg/L | 0.0018176 | 1.79% |
| B 249.772† | 8.0 | -0.0035058 | mg/L | 0.00079601 | -0.0035058 | mg/L | 0.00079601 | 22.71% |
| Ce 413.764† | -3.6 | -0.0061134 | mg/L | 0.01045131 | -0.0061134 | mg/L | 0.01045131 | 170.96% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 26 Autosampler Location: 59
Sample ID: AD26083-035 Date Collected: 9/28/2021 7:06:48 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-035

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42835.8 | 95.9 | % | 0.46 | 95.9 | % | 0.46 | 0.48% |
| Y 371.029 | 12930.1 | 95.9 | % | 0.60 | 95.9 | % | 0.60 | 0.62% |
| Al 308.215† | 73.0 | 0.0729140 | mg/L | 0.00658143 | 0.0729140 | mg/L | 0.00658143 | 9.03% |
| Ba 233.527† | 1065.6 | 0.225534 | mg/L | 0.0027818 | 0.225534 | mg/L | 0.0027818 | 1.23% |
| Ca 315.887† | 92930.4 | 17.5170 | mg/L | 0.00920 | 17.5170 | mg/L | 0.00920 | 0.05% |
| Cu 327.393† | 2.9 | 0.0069338 | mg/L | 0.00343637 | 0.0069338 | mg/L | 0.00343637 | 49.56% |
| Fe 273.955† | 292.7 | 0.227439 | mg/L | 0.0049379 | 0.227439 | mg/L | 0.0049379 | 2.17% |
| K 766.490† | 60776.7 | 33.0674 | mg/L | 0.37863 | 33.0674 | mg/L | 0.37863 | 1.15% |
| Mg 279.077† | 13268.2 | 20.1754 | mg/L | 0.05951 | 20.1754 | mg/L | 0.05951 | 0.29% |
| Mn 257.610† | 205.3 | 0.0083310 | mg/L | 0.00015728 | 0.0083310 | mg/L | 0.00015728 | 1.89% |
| Mo 202.031† | 0.0 | -0.0016460 | mg/L | 0.00256402 | -0.0016460 | mg/L | 0.00256402 | 155.77% |
| Na 589.592† | 2546510.1 | 271.489 | mg/L | 3.0756 | 271.489 | mg/L | 3.0756 | 1.13% |
| Ni 231.604† | 2.5 | -0.0024934 | mg/L | 0.00309093 | -0.0024934 | mg/L | 0.00309093 | 123.97% |
| Se 196.026† | 7.4 | 0.0196264 | mg/L | 0.00970845 | 0.0196264 | mg/L | 0.00970845 | 49.47% |
| Sn 189.927† | -12.7 | -0.0306422 | mg/L | 0.00737120 | -0.0306422 | mg/L | 0.00737120 | 24.06% |
| Ti 334.940† | -19.3 | 0.0011557 | mg/L | 0.00016796 | 0.0011557 | mg/L | 0.00016796 | 14.53% |
| V 290.880† | 241.4 | 0.0193537 | mg/L | 0.00533970 | 0.0193537 | mg/L | 0.00533970 | 27.59% |
| Zn 206.200† | 34.9 | 0.0073192 | mg/L | 0.00084133 | 0.0073192 | mg/L | 0.00084133 | 11.49% |
| Si 251.611† | 5090.3 | 1.79607 | mg/L | 0.005968 | 1.79607 | mg/L | 0.005968 | 0.33% |
| B 249.772† | 694.1 | 0.0947025 | mg/L | 0.00219256 | 0.0947025 | mg/L | 0.00219256 | 2.32% |
| Ce 413.764† | 43.2 | 0.0046935 | mg/L | 0.01224645 | 0.0046935 | mg/L | 0.01224645 | 260.92% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 27 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/28/2021 7:10:59 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43281.3 | 96.9 | % | 0.33 | 96.9 | % | 0.33 | 0.34% |
| Y 371.029 | 13104.5 | 97.1 | % | 0.63 | 97.1 | % | 0.63 | 0.64% |
| Al 308.215† | 4367.7 | 4.80727 | mg/L | 0.027366 | 4.80727 | mg/L | 0.027366 | 0.57% |
| QC value within limits for Al 308.215 Recovery = 96.15% | | | | | | | | |
| Ba 233.527† | 2217.1 | 0.469290 | mg/L | 0.0011811 | 0.469290 | mg/L | 0.0011811 | 0.25% |
| QC value within limits for Ba 233.527 Recovery = 93.86% | | | | | | | | |
| Ca 315.887† | 243379.8 | 46.1091 | mg/L | 0.32828 | 46.1091 | mg/L | 0.32828 | 0.71% |
| QC value within limits for Ca 315.887 Recovery = 92.22% | | | | | | | | |
| Cu 327.393† | 2274.6 | 0.519136 | mg/L | 0.0065140 | 0.519136 | mg/L | 0.0065140 | 1.25% |
| QC value within limits for Cu 327.393 Recovery = 103.83% | | | | | | | | |
| Fe 273.955† | 5490.4 | 4.69072 | mg/L | 0.018759 | 4.69072 | mg/L | 0.018759 | 0.40% |
| QC value within limits for Fe 273.955 Recovery = 93.81% | | | | | | | | |
| K 766.490† | 85997.9 | 46.7590 | mg/L | 0.27557 | 46.7590 | mg/L | 0.27557 | 0.59% |
| QC value within limits for K 766.490 Recovery = 93.52% | | | | | | | | |
| Mg 279.077† | 30562.4 | 46.7523 | mg/L | 0.07278 | 46.7523 | mg/L | 0.07278 | 0.16% |
| QC value within limits for Mg 279.077 Recovery = 93.50% | | | | | | | | |
| Mn 257.610† | 13856.2 | 0.471366 | mg/L | 0.0026143 | 0.471366 | mg/L | 0.0026143 | 0.55% |
| QC value within limits for Mn 257.610 Recovery = 94.27% | | | | | | | | |
| Mo 202.031† | 660.0 | 0.460267 | mg/L | 0.0044772 | 0.460267 | mg/L | 0.0044772 | 0.97% |
| QC value within limits for Mo 202.031 Recovery = 92.05% | | | | | | | | |
| Na 589.592† | 445610.5 | 47.4067 | mg/L | 0.28394 | 47.4067 | mg/L | 0.28394 | 0.60% |
| QC value within limits for Na 589.592 Recovery = 94.81% | | | | | | | | |
| Ni 231.604† | 915.6 | 0.467580 | mg/L | 0.0037939 | 0.467580 | mg/L | 0.0037939 | 0.81% |
| QC value within limits for Ni 231.604 Recovery = 93.52% | | | | | | | | |
| Se 196.026† | 132.0 | 0.460938 | mg/L | 0.0151886 | 0.460938 | mg/L | 0.0151886 | 3.30% |
| QC value within limits for Se 196.026 Recovery = 92.19% | | | | | | | | |
| Sn 189.927† | 150.1 | 0.468305 | mg/L | 0.0106605 | 0.468305 | mg/L | 0.0106605 | 2.28% |
| QC value within limits for Sn 189.927 Recovery = 93.66% | | | | | | | | |
| Ti 334.940† | 21116.6 | 0.477572 | mg/L | 0.0034863 | 0.477572 | mg/L | 0.0034863 | 0.73% |
| QC value within limits for Ti 334.940 Recovery = 95.51% | | | | | | | | |
| V 290.880† | 3888.4 | 0.450373 | mg/L | 0.0065467 | 0.450373 | mg/L | 0.0065467 | 1.45% |
| QC value within limits for V 290.880 Recovery = 90.07% | | | | | | | | |
| Zn 206.200† | 1752.3 | 0.462793 | mg/L | 0.0018275 | 0.462793 | mg/L | 0.0018275 | 0.39% |
| QC value within limits for Zn 206.200 Recovery = 92.56% | | | | | | | | |
| Si 251.611† | 12636.3 | 4.64839 | mg/L | 0.013615 | 4.64839 | mg/L | 0.013615 | 0.29% |
| QC value within limits for Si 251.611 Recovery = 92.97% | | | | | | | | |
| B 249.772† | 3215.0 | 0.441001 | mg/L | 0.0037825 | 0.441001 | mg/L | 0.0037825 | 0.86% |
| QC value less than the lower limit for B 249.772 Recovery = 88.20% | | | | | | | | |
| Ce 413.764† | 2054.8 | 0.469448 | mg/L | 0.0094899 | 0.469448 | mg/L | 0.0094899 | 2.02% |
| QC value within limits for Ce 413.764 Recovery = 93.89% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 28 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/28/2021 7:15:07 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 44076.7 | 98.7 | % | 0.46 | 98.7 | % | 0.46 | 0.47% |
| Y 371.029 | 13506.0 | 100 | % | 0.44 | 100 | % | 0.44 | 0.44% |
| Al 308.215† | -3.4 | -0.0134820 | mg/L | 0.01349666 | -0.0134820 | mg/L | 0.01349666 | 100.11% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 2.8 | -0.0015999 | mg/L | 0.00194291 | -0.0015999 | mg/L | 0.00194291 | 121.44% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -18.3 | -0.147471 | mg/L | 0.0032636 | -0.147471 | mg/L | 0.0032636 | 2.21% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -15.7 | -0.0053665 | mg/L | 0.00421438 | -0.0053665 | mg/L | 0.00421438 | 78.53% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 8.6 | -0.0165605 | mg/L | 0.00481452 | -0.0165605 | mg/L | 0.00481452 | 29.07% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | 28.3 | 0.0896524 | mg/L | 0.02697744 | 0.0896524 | mg/L | 0.02697744 | 30.09% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -3.6 | -0.220200 | mg/L | 0.0170850 | -0.220200 | mg/L | 0.0170850 | 7.76% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 4.3 | -0.0022503 | mg/L | 0.00022520 | -0.0022503 | mg/L | 0.00022520 | 10.01% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 2.6 | 0.0001735 | mg/L | 0.00212791 | 0.0001735 | mg/L | 0.00212791 | >999.9% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -926.4 | -0.220888 | mg/L | 0.0202205 | -0.220888 | mg/L | 0.0202205 | 9.15% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 2.4 | -0.0026060 | mg/L | 0.00506259 | -0.0026060 | mg/L | 0.00506259 | 194.27% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 8.9 | 0.0246837 | mg/L | 0.01350252 | 0.0246837 | mg/L | 0.01350252 | 54.70% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.2 | -0.0039455 | mg/L | 0.01037250 | -0.0039455 | mg/L | 0.01037250 | 262.89% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 24.4 | -0.0007402 | mg/L | 0.00062326 | -0.0007402 | mg/L | 0.00062326 | 84.20% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 13.8 | -0.0000051 | mg/L | 0.00154910 | -0.0000051 | mg/L | 0.00154910 | >999.9% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -2.4 | -0.0025502 | mg/L | 0.00076761 | -0.0025502 | mg/L | 0.00076761 | 30.10% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | -1.0 | -0.128382 | mg/L | 0.0005417 | -0.128382 | mg/L | 0.0005417 | 0.42% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -2.5 | -0.0049804 | mg/L | 0.00149755 | -0.0049804 | mg/L | 0.00149755 | 30.07% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 67.3 | 0.0102676 | mg/L | 0.00761913 | 0.0102676 | mg/L | 0.00761913 | 74.21% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 29
Autosampler Location: 60
Sample ID: MB 94428 (1)
Date Collected: 9/28/2021 7:18:59 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: MB 94428 (1)

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 44189.9 | 98.9 | % | 1.24 | 98.9 | % | 1.24 | 1.25% |
| Y 371.029 | 13445.6 | 99.7 | % | 1.48 | 99.7 | % | 1.48 | 1.49% |
| Al 308.215† | -1.0 | -0.0108700 | mg/L | 0.00854521 | -0.0108700 | mg/L | 0.00854521 | 78.61% |
| Ba 233.527† | -0.5 | -0.0023512 | mg/L | 0.00076048 | -0.0023512 | mg/L | 0.00076048 | 32.34% |
| Ca 315.887† | 742.8 | -0.0028216 | mg/L | 0.00249840 | -0.0028216 | mg/L | 0.00249840 | 88.55% |
| Cu 327.393† | 22.5 | 0.0030927 | mg/L | 0.00198755 | 0.0030927 | mg/L | 0.00198755 | 64.27% |
| Fe 273.955† | 68.5 | 0.0348746 | mg/L | 0.00538752 | 0.0348746 | mg/L | 0.00538752 | 15.45% |
| K 766.490† | -104.3 | 0.0176432 | mg/L | 0.01397106 | 0.0176432 | mg/L | 0.01397106 | 79.19% |
| Mg 279.077† | -11.6 | -0.232520 | mg/L | 0.0024676 | -0.232520 | mg/L | 0.0024676 | 1.06% |
| Mn 257.610† | 67.0 | -0.0001486 | mg/L | 0.00023602 | -0.0001486 | mg/L | 0.00023602 | 158.85% |
| Mo 202.031† | 3.2 | 0.0005404 | mg/L | 0.00370161 | 0.0005404 | mg/L | 0.00370161 | 685.03% |
| Na 589.592† | -2880.3 | -0.429286 | mg/L | 0.0208075 | -0.429286 | mg/L | 0.0208075 | 4.85% |
| Ni 231.604† | 3.0 | -0.0022590 | mg/L | 0.00244043 | -0.0022590 | mg/L | 0.00244043 | 108.03% |
| Se 196.026† | 5.5 | 0.0125764 | mg/L | 0.01377006 | 0.0125764 | mg/L | 0.01377006 | 109.49% |
| Sn 189.927† | -2.8 | -0.0058810 | mg/L | 0.00223602 | -0.0058810 | mg/L | 0.00223602 | 38.02% |
| Ti 334.940† | -18.8 | -0.0016807 | mg/L | 0.00037081 | -0.0016807 | mg/L | 0.00037081 | 22.06% |
| V 290.880† | 6.9 | -0.0008365 | mg/L | 0.00186352 | -0.0008365 | mg/L | 0.00186352 | 222.77% |
| Zn 206.200† | 21.9 | 0.0038714 | mg/L | 0.00202416 | 0.0038714 | mg/L | 0.00202416 | 52.28% |
| Si 251.611† | 29.9 | -0.116699 | mg/L | 0.0026586 | -0.116699 | mg/L | 0.0026586 | 2.28% |
| B 249.772† | 1.5 | -0.0046109 | mg/L | 0.00082804 | -0.0046109 | mg/L | 0.00082804 | 17.96% |
| Ce 413.764† | 29.5 | 0.0015342 | mg/L | 0.00389500 | 0.0015342 | mg/L | 0.00389500 | 253.88% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 30
Autosampler Location: 61
Sample ID: LCS 94428
Date Collected: 9/28/2021 7:22:51 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LCS 94428

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42826.4 | 95.9 | % | 0.13 | 95.9 | % | 0.13 | 0.14% |
| Y 371.029 | 12873.2 | 95.4 | % | 0.35 | 95.4 | % | 0.35 | 0.37% |
| Al 308.215† | 4359.6 | 4.79864 | mg/L | 0.022146 | 4.79864 | mg/L | 0.022146 | 0.46% |
| Ba 233.527† | 2187.5 | 0.462954 | mg/L | 0.0047429 | 0.462954 | mg/L | 0.0047429 | 1.02% |
| Ca 315.887† | 242857.3 | 46.0098 | mg/L | 0.11086 | 46.0098 | mg/L | 0.11086 | 0.24% |
| Cu 327.393† | 2248.3 | 0.513316 | mg/L | 0.0040435 | 0.513316 | mg/L | 0.0040435 | 0.79% |
| Fe 273.955† | 5501.5 | 4.70032 | mg/L | 0.040341 | 4.70032 | mg/L | 0.040341 | 0.86% |
| K 766.490† | 86366.3 | 46.9589 | mg/L | 0.08876 | 46.9589 | mg/L | 0.08876 | 0.19% |
| Mg 279.077† | 30357.6 | 46.4375 | mg/L | 0.20200 | 46.4375 | mg/L | 0.20200 | 0.44% |
| Mn 257.610† | 13840.3 | 0.470775 | mg/L | 0.0022015 | 0.470775 | mg/L | 0.0022015 | 0.47% |
| Mo 202.031† | 661.1 | 0.461020 | mg/L | 0.0050958 | 0.461020 | mg/L | 0.0050958 | 1.11% |
| Na 589.592† | 445701.1 | 47.4164 | mg/L | 0.12947 | 47.4164 | mg/L | 0.12947 | 0.27% |
| Ni 231.604† | 922.3 | 0.471018 | mg/L | 0.0051316 | 0.471018 | mg/L | 0.0051316 | 1.09% |
| Se 196.026† | 131.3 | 0.458577 | mg/L | 0.0308354 | 0.458577 | mg/L | 0.0308354 | 6.72% |
| Sn 189.927† | 144.1 | 0.449892 | mg/L | 0.0088768 | 0.449892 | mg/L | 0.0088768 | 1.97% |
| Ti 334.940† | 21059.9 | 0.476291 | mg/L | 0.0024816 | 0.476291 | mg/L | 0.0024816 | 0.52% |
| V 290.880† | 3962.2 | 0.459439 | mg/L | 0.0076372 | 0.459439 | mg/L | 0.0076372 | 1.66% |
| Zn 206.200† | 1731.8 | 0.457359 | mg/L | 0.0034942 | 0.457359 | mg/L | 0.0034942 | 0.76% |
| Si 251.611† | 1379.7 | 0.393505 | mg/L | 0.0040067 | 0.393505 | mg/L | 0.0040067 | 1.02% |
| B 249.772† | 3276.1 | 0.449782 | mg/L | 0.0016096 | 0.449782 | mg/L | 0.0016096 | 0.36% |
| Ce 413.764† | 2270.5 | 0.519272 | mg/L | 0.0061215 | 0.519272 | mg/L | 0.0061215 | 1.18% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 31
Autosampler Location: 62
Sample ID: LCS MR 94428
Date Collected: 9/28/2021 7:26:59 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LCS MR 94428

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42973.1 | 96.2 | % | 0.18 | 96.2 | % | 0.18 | 0.19% |
| Y 371.029 | 12920.0 | 95.8 | % | 0.06 | 95.8 | % | 0.06 | 0.06% |
| Al 308.215† | 4359.4 | 4.79775 | mg/L | 0.034973 | 4.79775 | mg/L | 0.034973 | 0.73% |
| Ba 233.527† | 2186.9 | 0.462855 | mg/L | 0.0046168 | 0.462855 | mg/L | 0.0046168 | 1.00% |
| Ca 315.887† | 241980.1 | 45.8431 | mg/L | 0.22922 | 45.8431 | mg/L | 0.22922 | 0.50% |
| Cu 327.393† | 2247.8 | 0.513135 | mg/L | 0.0044650 | 0.513135 | mg/L | 0.0044650 | 0.87% |
| Fe 273.955† | 5426.6 | 4.63598 | mg/L | 0.013732 | 4.63598 | mg/L | 0.013732 | 0.30% |
| K 766.490† | 86221.6 | 46.8804 | mg/L | 0.19353 | 46.8804 | mg/L | 0.19353 | 0.41% |
| Mg 279.077† | 30269.5 | 46.3022 | mg/L | 0.05660 | 46.3022 | mg/L | 0.05660 | 0.12% |
| Mn 257.610† | 13789.4 | 0.469041 | mg/L | 0.0008387 | 0.469041 | mg/L | 0.0008387 | 0.18% |
| Mo 202.031† | 664.4 | 0.463332 | mg/L | 0.0022887 | 0.463332 | mg/L | 0.0022887 | 0.49% |
| Na 589.592† | 444421.6 | 47.2799 | mg/L | 0.22358 | 47.2799 | mg/L | 0.22358 | 0.47% |
| Ni 231.604† | 901.5 | 0.460336 | mg/L | 0.0013106 | 0.460336 | mg/L | 0.0013106 | 0.28% |
| Se 196.026† | 129.2 | 0.451091 | mg/L | 0.0333432 | 0.451091 | mg/L | 0.0333432 | 7.39% |
| Sn 189.927† | 146.1 | 0.456160 | mg/L | 0.0122960 | 0.456160 | mg/L | 0.0122960 | 2.70% |
| Ti 334.940† | 20957.8 | 0.473985 | mg/L | 0.0004096 | 0.473985 | mg/L | 0.0004096 | 0.09% |
| V 290.880† | 3897.9 | 0.451707 | mg/L | 0.0032084 | 0.451707 | mg/L | 0.0032084 | 0.71% |
| Zn 206.200† | 1716.7 | 0.453341 | mg/L | 0.0023227 | 0.453341 | mg/L | 0.0023227 | 0.51% |
| Si 251.611† | 1369.3 | 0.389554 | mg/L | 0.0043845 | 0.389554 | mg/L | 0.0043845 | 1.13% |
| B 249.772† | 3294.2 | 0.452656 | mg/L | 0.0055891 | 0.452656 | mg/L | 0.0055891 | 1.23% |
| Ce 413.764† | 2272.8 | 0.519800 | mg/L | 0.0077607 | 0.519800 | mg/L | 0.0077607 | 1.49% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 32
Autosampler Location: 63
Sample ID: AD26083-040
Date Collected: 9/28/2021 7:31:07 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-040

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42087.7 | 94.2 | % | 0.73 | 94.2 | % | 0.73 | 0.78% |
| Y 371.029 | 12776.8 | 94.7 | % | 0.74 | 94.7 | % | 0.74 | 0.78% |
| Al 308.215† | 140.2 | 0.159191 | mg/L | 0.0172248 | 0.159191 | mg/L | 0.0172248 | 10.82% |
| Ba 233.527† | 10055.5 | 2.14222 | mg/L | 0.008329 | 2.14222 | mg/L | 0.008329 | 0.39% |
| Ca 315.887† | 477653.4 | 90.6317 | mg/L | 0.12320 | 90.6317 | mg/L | 0.12320 | 0.14% |
| Cu 327.393† | -125.3 | 0.0127334 | mg/L | 0.00399271 | 0.0127334 | mg/L | 0.00399271 | 31.36% |
| Fe 273.955† | 12332.9 | 10.5665 | mg/L | 0.00528 | 10.5665 | mg/L | 0.00528 | 0.05% |
| K 766.490† | 205945.6 | 111.874 | mg/L | 0.2494 | 111.874 | mg/L | 0.2494 | 0.22% |
| Mg 279.077† | 88559.1 | 135.879 | mg/L | 0.3484 | 135.879 | mg/L | 0.3484 | 0.26% |
| Mn 257.610† | 15053.2 | 0.528295 | mg/L | 0.0016532 | 0.528295 | mg/L | 0.0016532 | 0.31% |
| Mo 202.031† | -0.1 | -0.0017103 | mg/L | 0.00098207 | -0.0017103 | mg/L | 0.00098207 | 57.42% |
| Na 589.592† | 11818697.0 | 1260.46 | mg/L | 11.654 | 1260.46 | mg/L | 11.654 | 0.92% |
| Ni 231.604† | 29.7 | 0.0153857 | mg/L | 0.00338847 | 0.0153857 | mg/L | 0.00338847 | 22.02% |
| Se 196.026† | 5.2 | 0.0217802 | mg/L | 0.03034358 | 0.0217802 | mg/L | 0.03034358 | 139.32% |
| Sn 189.927† | -45.3 | -0.103489 | mg/L | 0.0151895 | -0.103489 | mg/L | 0.0151895 | 14.68% |
| Ti 334.940† | -290.5 | 0.0069869 | mg/L | 0.00160178 | 0.0069869 | mg/L | 0.00160178 | 22.93% |
| V 290.880† | 1371.2 | 0.109602 | mg/L | 0.0026432 | 0.109602 | mg/L | 0.0026432 | 2.41% |
| Zn 206.200† | 26.9 | 0.0052137 | mg/L | 0.00037175 | 0.0052137 | mg/L | 0.00037175 | 7.13% |
| Si 251.611† | 23199.8 | 8.64131 | mg/L | 0.010888 | 8.64131 | mg/L | 0.010888 | 0.13% |
| B 249.772† | 12312.0 | 1.73198 | mg/L | 0.006540 | 1.73198 | mg/L | 0.006540 | 0.38% |
| Ce 413.764† | 0.3 | -0.0052183 | mg/L | 0.00348368 | -0.0052183 | mg/L | 0.00348368 | 66.76% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 33
Autosampler Location: 64
Sample ID: AD26083-040 MR
Date Collected: 9/28/2021 7:36:52 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-040 MR

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43109.2 | 96.5 | % | 1.77 | 96.5 | % | 1.77 | 1.84% |
| Y 371.029 | 13048.2 | 96.7 | % | 1.97 | 96.7 | % | 1.97 | 2.03% |
| Al 308.215† | 143.3 | 0.162996 | mg/L | 0.0067549 | 0.162996 | mg/L | 0.0067549 | 4.14% |
| Ba 233.527† | 10259.6 | 2.18575 | mg/L | 0.006053 | 2.18575 | mg/L | 0.006053 | 0.28% |
| Ca 315.887† | 482485.5 | 91.5500 | mg/L | 1.32830 | 91.5500 | mg/L | 1.32830 | 1.45% |
| Cu 327.393† | -171.2 | 0.0030853 | mg/L | 0.00376006 | 0.0030853 | mg/L | 0.00376006 | 121.87% |
| Fe 273.955† | 12571.3 | 10.7713 | mg/L | 0.05034 | 10.7713 | mg/L | 0.05034 | 0.47% |
| K 766.490† | 209590.0 | 113.852 | mg/L | 1.4160 | 113.852 | mg/L | 1.4160 | 1.24% |
| Mg 279.077† | 90271.0 | 138.510 | mg/L | 0.2635 | 138.510 | mg/L | 0.2635 | 0.19% |
| Mn 257.610† | 15422.7 | 0.541191 | mg/L | 0.0010417 | 0.541191 | mg/L | 0.0010417 | 0.19% |
| Mo 202.031† | -5.8 | -0.0057046 | mg/L | 0.00394370 | -0.0057046 | mg/L | 0.00394370 | 69.13% |
| Na 589.592† | 11816227.0 | 1260.20 | mg/L | 7.999 | 1260.20 | mg/L | 7.999 | 0.63% |
| Ni 231.604† | 39.0 | 0.0202507 | mg/L | 0.00156859 | 0.0202507 | mg/L | 0.00156859 | 7.75% |
| Se 196.026† | 0.5 | 0.0054072 | mg/L | 0.00580048 | 0.0054072 | mg/L | 0.00580048 | 107.27% |
| Sn 189.927† | -45.8 | -0.104375 | mg/L | 0.0182978 | -0.104375 | mg/L | 0.0182978 | 17.53% |
| Ti 334.940† | -279.2 | 0.0073871 | mg/L | 0.00072394 | 0.0073871 | mg/L | 0.00072394 | 9.80% |
| V 290.880† | 1408.8 | 0.113104 | mg/L | 0.0058895 | 0.113104 | mg/L | 0.0058895 | 5.21% |
| Zn 206.200† | 35.8 | 0.0075682 | mg/L | 0.00089756 | 0.0075682 | mg/L | 0.00089756 | 11.86% |
| Si 251.611† | 23609.0 | 8.79596 | mg/L | 0.007234 | 8.79596 | mg/L | 0.007234 | 0.08% |
| B 249.772† | 12622.0 | 1.77596 | mg/L | 0.005964 | 1.77596 | mg/L | 0.005964 | 0.34% |
| Ce 413.764† | 28.4 | 0.0012624 | mg/L | 0.00919754 | 0.0012624 | mg/L | 0.00919754 | 728.59% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)

Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 34
Sample ID: AD26083-042 MS 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 150

Autosampler Location: 65
Date Collected: 9/28/2021 7:42:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-042 MS 1

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 45490.5 | 102 | % | 0.94 | 102 | % | 0.94 | 0.92% |
| Y 371.029 | 13389.1 | 99.3 | % | 1.32 | 99.3 | % | 1.32 | 1.33% |
| Al 308.215† | 4224.7 | 4.66270 | mg/L | 0.051869 | 4.66270 | mg/L | 0.051869 | 1.11% |
| Ba 233.527† | 11926.9 | 2.54011 | mg/L | 0.009287 | 2.54011 | mg/L | 0.009287 | 0.37% |
| Ca 315.887† | 687814.9 | 130.572 | mg/L | 0.2423 | 130.572 | mg/L | 0.2423 | 0.19% |
| Cu 327.393† | 2086.8 | 0.517129 | mg/L | 0.0013297 | 0.517129 | mg/L | 0.0013297 | 0.26% |
| Fe 273.955† | 17179.3 | 14.7282 | mg/L | 0.03229 | 14.7282 | mg/L | 0.03229 | 0.22% |
| K 766.490† | 294120.4 | 159.740 | mg/L | 0.4046 | 159.740 | mg/L | 0.4046 | 0.25% |
| Mg 279.077† | 116432.3 | 178.713 | mg/L | 0.3571 | 178.713 | mg/L | 0.3571 | 0.20% |
| Mn 257.610† | 27538.1 | 0.955268 | mg/L | 0.0002402 | 0.955268 | mg/L | 0.0002402 | 0.03% |
| Mo 202.031† | 622.8 | 0.434252 | mg/L | 0.0039481 | 0.434252 | mg/L | 0.0039481 | 0.91% |
| Na 589.592† | 11913308.5 | 1270.55 | mg/L | 7.903 | 1270.55 | mg/L | 7.903 | 0.62% |
| Ni 231.604† | 865.1 | 0.445453 | mg/L | 0.0054902 | 0.445453 | mg/L | 0.0054902 | 1.23% |
| Se 196.026† | 119.5 | 0.426643 | mg/L | 0.0127945 | 0.426643 | mg/L | 0.0127945 | 3.00% |
| Sn 189.927† | 95.5 | 0.332905 | mg/L | 0.0365012 | 0.332905 | mg/L | 0.0365012 | 10.96% |
| Ti 334.940† | 19884.8 | 0.463806 | mg/L | 0.0009648 | 0.463806 | mg/L | 0.0009648 | 0.21% |
| V 290.880† | 4945.6 | 0.525297 | mg/L | 0.0053953 | 0.525297 | mg/L | 0.0053953 | 1.03% |
| Zn 206.200† | 1660.9 | 0.438554 | mg/L | 0.0033203 | 0.438554 | mg/L | 0.0033203 | 0.76% |
| Si 251.611† | 24607.9 | 9.17356 | mg/L | 0.006703 | 9.17356 | mg/L | 0.006703 | 0.07% |
| B 249.772† | 15185.3 | 2.13042 | mg/L | 0.000556 | 2.13042 | mg/L | 0.000556 | 0.03% |
| Ce 413.764† | 2066.6 | 0.472167 | mg/L | 0.0087261 | 0.472167 | mg/L | 0.0087261 | 1.85% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 35
Sample ID: AD26083-044 MS 2
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 150
Autosampler Location: 66
Date Collected: 9/28/2021 7:48:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-044 MS 2

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 46083.2 | 103 | % | 1.00 | 103 | % | 1.00 | 0.97% |
| Y 371.029 | 13525.5 | 100 | % | 1.20 | 100 | % | 1.20 | 1.20% |
| Al 308.215† | 4175.2 | 4.60754 | mg/L | 0.045241 | 4.60754 | mg/L | 0.045241 | 0.98% |
| Ba 233.527† | 11891.2 | 2.53247 | mg/L | 0.009165 | 2.53247 | mg/L | 0.009165 | 0.36% |
| Ca 315.887† | 686718.2 | 130.363 | mg/L | 0.1185 | 130.363 | mg/L | 0.1185 | 0.09% |
| Cu 327.393† | 2032.7 | 0.505151 | mg/L | 0.0080167 | 0.505151 | mg/L | 0.0080167 | 1.59% |
| Fe 273.955† | 17149.0 | 14.7021 | mg/L | 0.05064 | 14.7021 | mg/L | 0.05064 | 0.34% |
| K 766.490† | 294411.4 | 159.898 | mg/L | 0.5209 | 159.898 | mg/L | 0.5209 | 0.33% |
| Mg 279.077† | 116222.7 | 178.391 | mg/L | 0.2346 | 178.391 | mg/L | 0.2346 | 0.13% |
| Mn 257.610† | 27434.0 | 0.951713 | mg/L | 0.0006711 | 0.951713 | mg/L | 0.0006711 | 0.07% |
| Mo 202.031† | 613.3 | 0.427602 | mg/L | 0.0040022 | 0.427602 | mg/L | 0.0040022 | 0.94% |
| Na 589.592† | 11981973.4 | 1277.88 | mg/L | 10.616 | 1277.88 | mg/L | 10.616 | 0.83% |
| Ni 231.604† | 855.3 | 0.440413 | mg/L | 0.0060032 | 0.440413 | mg/L | 0.0060032 | 1.36% |
| Se 196.026† | 116.6 | 0.416356 | mg/L | 0.0237276 | 0.416356 | mg/L | 0.0237276 | 5.70% |
| Sn 189.927† | 107.3 | 0.368293 | mg/L | 0.0019676 | 0.368293 | mg/L | 0.0019676 | 0.53% |
| Ti 334.940† | 19640.3 | 0.458314 | mg/L | 0.0005423 | 0.458314 | mg/L | 0.0005423 | 0.12% |
| V 290.880† | 4838.0 | 0.512385 | mg/L | 0.0091312 | 0.512385 | mg/L | 0.0091312 | 1.78% |
| Zn 206.200† | 1637.4 | 0.432330 | mg/L | 0.0047824 | 0.432330 | mg/L | 0.0047824 | 1.11% |
| Si 251.611† | 24775.7 | 9.23699 | mg/L | 0.023514 | 9.23699 | mg/L | 0.023514 | 0.25% |
| B 249.772† | 15165.3 | 2.12763 | mg/L | 0.006523 | 2.12763 | mg/L | 0.006523 | 0.31% |
| Ce 413.764† | 1997.8 | 0.456267 | mg/L | 0.0053990 | 0.456267 | mg/L | 0.0053990 | 1.18% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 36
Autosampler Location: 67
Sample ID: AD26083-040 PS
Date Collected: 9/28/2021 7:53:39 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-040 PS

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43812.2 | 98.1 | % | 0.73 | 98.1 | % | 0.73 | 0.74% |
| Y 371.029 | 12822.4 | 95.1 | % | 0.93 | 95.1 | % | 0.93 | 0.98% |
| Al 308.215† | 4618.0 | 5.09672 | mg/L | 0.034752 | 5.09672 | mg/L | 0.034752 | 0.68% |
| Ba 233.527† | 11807.9 | 2.51462 | mg/L | 0.006720 | 2.51462 | mg/L | 0.006720 | 0.27% |
| Ca 315.887† | 688074.3 | 130.621 | mg/L | 0.1750 | 130.621 | mg/L | 0.1750 | 0.13% |
| Cu 327.393† | 2339.9 | 0.572742 | mg/L | 0.0059236 | 0.572742 | mg/L | 0.0059236 | 1.03% |
| Fe 273.955† | 17248.3 | 14.7874 | mg/L | 0.04938 | 14.7874 | mg/L | 0.04938 | 0.33% |
| K 766.490† | 297340.0 | 161.488 | mg/L | 0.2087 | 161.488 | mg/L | 0.2087 | 0.13% |
| Mg 279.077† | 115821.4 | 177.774 | mg/L | 0.2184 | 177.774 | mg/L | 0.2184 | 0.12% |
| Mn 257.610† | 28527.0 | 0.988271 | mg/L | 0.0004618 | 0.988271 | mg/L | 0.0004618 | 0.05% |
| Mo 202.031† | 685.9 | 0.478417 | mg/L | 0.0025471 | 0.478417 | mg/L | 0.0025471 | 0.53% |
| Na 589.592† | 11788820.7 | 1257.27 | mg/L | 8.558 | 1257.27 | mg/L | 8.558 | 0.68% |
| Ni 231.604† | 945.7 | 0.486783 | mg/L | 0.0046349 | 0.486783 | mg/L | 0.0046349 | 0.95% |
| Se 196.026† | 134.8 | 0.480250 | mg/L | 0.0184664 | 0.480250 | mg/L | 0.0184664 | 3.85% |
| Sn 189.927† | 115.2 | 0.392099 | mg/L | 0.0102026 | 0.392099 | mg/L | 0.0102026 | 2.60% |
| Ti 334.940† | 22064.1 | 0.512459 | mg/L | 0.0017426 | 0.512459 | mg/L | 0.0017426 | 0.34% |
| V 290.880† | 5282.0 | 0.566417 | mg/L | 0.0081739 | 0.566417 | mg/L | 0.0081739 | 1.44% |
| Zn 206.200† | 1799.1 | 0.475209 | mg/L | 0.0023714 | 0.475209 | mg/L | 0.0023714 | 0.50% |
| Si 251.611† | 24962.2 | 9.30748 | mg/L | 0.028189 | 9.30748 | mg/L | 0.028189 | 0.30% |
| B 249.772† | 14833.7 | 2.07936 | mg/L | 0.001995 | 2.07936 | mg/L | 0.001995 | 0.10% |
| Ce 413.764† | 2049.2 | 0.468146 | mg/L | 0.0105371 | 0.468146 | mg/L | 0.0105371 | 2.25% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 37
Autosampler Location: 68
Sample ID: AD26083-040 SD
Date Collected: 9/28/2021 7:59:10 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-040 SD

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43789.8 | 98.0 | % | 0.62 | 98.0 | % | 0.62 | 0.63% |
| Y 371.029 | 13141.5 | 97.4 | % | 0.42 | 97.4 | % | 0.42 | 0.43% |
| Al 308.215† | 15.1 | 0.0101869 | mg/L | 0.01173484 | 0.0101869 | mg/L | 0.01173484 | 115.20% |
| Ba 233.527† | 1950.9 | 0.413883 | mg/L | 0.0010015 | 0.413883 | mg/L | 0.0010015 | 0.24% |
| Ca 315.887† | 92652.5 | 17.4642 | mg/L | 0.01891 | 17.4642 | mg/L | 0.01891 | 0.11% |
| Cu 327.393† | -38.4 | -0.0021758 | mg/L | 0.00509300 | -0.0021758 | mg/L | 0.00509300 | 234.08% |
| Fe 273.955† | 2312.6 | 1.96197 | mg/L | 0.020455 | 1.96197 | mg/L | 0.020455 | 1.04% |
| K 766.490† | 37618.1 | 20.4955 | mg/L | 0.00525 | 20.4955 | mg/L | 0.00525 | 0.03% |
| Mg 279.077† | 17507.9 | 26.6907 | mg/L | 0.08235 | 26.6907 | mg/L | 0.08235 | 0.31% |
| Mn 257.610† | 2928.2 | 0.100919 | mg/L | 0.0004707 | 0.100919 | mg/L | 0.0004707 | 0.47% |
| Mo 202.031† | 1.8 | -0.0003986 | mg/L | 0.00284765 | -0.0003986 | mg/L | 0.00284765 | 714.36% |
| Na 589.592† | 2331176.1 | 248.521 | mg/L | 1.1189 | 248.521 | mg/L | 1.1189 | 0.45% |
| Ni 231.604† | 1.3 | -0.0024469 | mg/L | 0.00245327 | -0.0024469 | mg/L | 0.00245327 | 100.26% |
| Se 196.026† | 4.0 | 0.0094417 | mg/L | 0.02073562 | 0.0094417 | mg/L | 0.02073562 | 219.62% |
| Sn 189.927† | -15.2 | -0.0372364 | mg/L | 0.01223155 | -0.0372364 | mg/L | 0.01223155 | 32.85% |
| Ti 334.940† | -50.5 | 0.0004500 | mg/L | 0.00057390 | 0.0004500 | mg/L | 0.00057390 | 127.53% |
| V 290.880† | 317.8 | 0.0259828 | mg/L | 0.00345319 | 0.0259828 | mg/L | 0.00345319 | 13.29% |
| Zn 206.200† | 13.5 | 0.0016633 | mg/L | 0.00169943 | 0.0016633 | mg/L | 0.00169943 | 102.17% |
| Si 251.611† | 4418.8 | 1.54226 | mg/L | 0.005221 | 1.54226 | mg/L | 0.005221 | 0.34% |
| B 249.772† | 2352.5 | 0.327372 | mg/L | 0.0011551 | 0.327372 | mg/L | 0.0011551 | 0.35% |
| Ce 413.764† | 52.1 | 0.0067475 | mg/L | 0.00212796 | 0.0067475 | mg/L | 0.00212796 | 31.54% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 38
Autosampler Location: 69
Sample ID: AD26083-003
Date Collected: 9/28/2021 8:03:19 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-003

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 44619.5 | 99.9 | % | 0.34 | 99.9 | % | 0.34 | 0.34% |
| Y 371.029 | 13475.6 | 99.9 | % | 0.40 | 99.9 | % | 0.40 | 0.40% |
| Al 308.215† | 391.5 | 0.422799 | mg/L | 0.0106867 | 0.422799 | mg/L | 0.0106867 | 2.53% |
| Ba 233.527† | 1247.1 | 0.263936 | mg/L | 0.0005361 | 0.263936 | mg/L | 0.0005361 | 0.20% |
| Ca 315.887† | 308889.2 | 58.5589 | mg/L | 0.82773 | 58.5589 | mg/L | 0.82773 | 1.41% |
| Cu 327.393† | -79.3 | 0.0079265 | mg/L | 0.00890901 | 0.0079265 | mg/L | 0.00890901 | 112.40% |
| Fe 273.955† | 1137.8 | 0.953124 | mg/L | 0.0078088 | 0.953124 | mg/L | 0.0078088 | 0.82% |
| K 766.490† | 2964.1 | 1.68336 | mg/L | 0.021050 | 1.68336 | mg/L | 0.021050 | 1.25% |
| Mg 279.077† | 16052.6 | 24.4542 | mg/L | 0.03123 | 24.4542 | mg/L | 0.03123 | 0.13% |
| Mn 257.610† | 3209.4 | 0.109934 | mg/L | 0.0005775 | 0.109934 | mg/L | 0.0005775 | 0.53% |
| Mo 202.031† | 3.3 | 0.0006517 | mg/L | 0.00129722 | 0.0006517 | mg/L | 0.00129722 | 199.06% |
| Na 589.592† | 143023.8 | 15.1328 | mg/L | 0.24038 | 15.1328 | mg/L | 0.24038 | 1.59% |
| Ni 231.604† | 10.8 | 0.0020288 | mg/L | 0.00090861 | 0.0020288 | mg/L | 0.00090861 | 44.79% |
| Se 196.026† | 10.6 | 0.0315906 | mg/L | 0.01467102 | 0.0315906 | mg/L | 0.01467102 | 46.44% |
| Sn 189.927† | -13.9 | -0.0292041 | mg/L | 0.00737004 | -0.0292041 | mg/L | 0.00737004 | 25.24% |
| Ti 334.940† | 399.2 | 0.0171674 | mg/L | 0.00065508 | 0.0171674 | mg/L | 0.00065508 | 3.82% |
| V 290.880† | 308.5 | 0.0257497 | mg/L | 0.00419574 | 0.0257497 | mg/L | 0.00419574 | 16.29% |
| Zn 206.200† | 80.2 | 0.0193502 | mg/L | 0.00198553 | 0.0193502 | mg/L | 0.00198553 | 10.26% |
| Si 251.611† | 31532.0 | 11.7908 | mg/L | 0.03969 | 11.7908 | mg/L | 0.03969 | 0.34% |
| B 249.772† | 145.3 | 0.0124615 | mg/L | 0.00068071 | 0.0124615 | mg/L | 0.00068071 | 5.46% |
| Ce 413.764† | 27.0 | 0.0009378 | mg/L | 0.01112949 | 0.0009378 | mg/L | 0.01112949 | >999.9% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 39
Autosampler Location: 6
Sample ID: CCV V-352960
Date Collected: 9/28/2021 8:07:27 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 44334.7 | 99.2 | % | 1.05 | 99.2 | % | 1.05 | 1.06% |
| Y 371.029 | 13355.8 | 99.0 | % | 0.99 | 99.0 | % | 0.99 | 1.00% |
| Al 308.215† | 4204.5 | 4.62747 | mg/L | 0.027848 | 4.62747 | mg/L | 0.027848 | 0.60% |
| QC value within limits for Al 308.215 Recovery = 92.55% | | | | | | | | |
| Ba 233.527† | 2119.1 | 0.448438 | mg/L | 0.0061378 | 0.448438 | mg/L | 0.0061378 | 1.37% |
| QC value less than the lower limit for Ba 233.527 Recovery = 89.69% | | | | | | | | |
| Ca 315.887† | 232853.1 | 44.1086 | mg/L | 0.28437 | 44.1086 | mg/L | 0.28437 | 0.64% |
| QC value less than the lower limit for Ca 315.887 Recovery = 88.22% | | | | | | | | |
| Cu 327.393† | 2191.9 | 0.500042 | mg/L | 0.0024483 | 0.500042 | mg/L | 0.0024483 | 0.49% |
| QC value within limits for Cu 327.393 Recovery = 100.01% | | | | | | | | |
| Fe 273.955† | 5256.5 | 4.48989 | mg/L | 0.045809 | 4.48989 | mg/L | 0.045809 | 1.02% |
| QC value less than the lower limit for Fe 273.955 Recovery = 89.80% | | | | | | | | |
| K 766.490† | 83823.8 | 45.5787 | mg/L | 0.39265 | 45.5787 | mg/L | 0.39265 | 0.86% |
| QC value within limits for K 766.490 Recovery = 91.16% | | | | | | | | |
| Mg 279.077† | 29275.4 | 44.7745 | mg/L | 0.16506 | 44.7745 | mg/L | 0.16506 | 0.37% |
| QC value less than the lower limit for Mg 279.077 Recovery = 89.55% | | | | | | | | |
| Mn 257.610† | 13326.7 | 0.453227 | mg/L | 0.0010738 | 0.453227 | mg/L | 0.0010738 | 0.24% |
| QC value within limits for Mn 257.610 Recovery = 90.65% | | | | | | | | |
| Mo 202.031† | 637.5 | 0.444553 | mg/L | 0.0084800 | 0.444553 | mg/L | 0.0084800 | 1.91% |
| QC value less than the lower limit for Mo 202.031 Recovery = 88.91% | | | | | | | | |
| Na 589.592† | 434481.0 | 46.2197 | mg/L | 0.39657 | 46.2197 | mg/L | 0.39657 | 0.86% |
| QC value within limits for Na 589.592 Recovery = 92.44% | | | | | | | | |
| Ni 231.604† | 869.0 | 0.443582 | mg/L | 0.0080046 | 0.443582 | mg/L | 0.0080046 | 1.80% |
| QC value less than the lower limit for Ni 231.604 Recovery = 88.72% | | | | | | | | |
| Se 196.026† | 123.5 | 0.430835 | mg/L | 0.0092580 | 0.430835 | mg/L | 0.0092580 | 2.15% |
| QC value less than the lower limit for Se 196.026 Recovery = 86.17% | | | | | | | | |
| Sn 189.927† | 138.9 | 0.433853 | mg/L | 0.0032685 | 0.433853 | mg/L | 0.0032685 | 0.75% |
| QC value less than the lower limit for Sn 189.927 Recovery = 86.77% | | | | | | | | |
| Ti 334.940† | 20284.7 | 0.458678 | mg/L | 0.0005640 | 0.458678 | mg/L | 0.0005640 | 0.12% |
| QC value within limits for Ti 334.940 Recovery = 91.74% | | | | | | | | |
| V 290.880† | 3780.9 | 0.438152 | mg/L | 0.0012006 | 0.438152 | mg/L | 0.0012006 | 0.27% |
| QC value less than the lower limit for V 290.880 Recovery = 87.63% | | | | | | | | |
| Zn 206.200† | 1664.9 | 0.439613 | mg/L | 0.0071199 | 0.439613 | mg/L | 0.0071199 | 1.62% |
| QC value less than the lower limit for Zn 206.200 Recovery = 87.92% | | | | | | | | |
| Si 251.611† | 12177.9 | 4.47511 | mg/L | 0.014450 | 4.47511 | mg/L | 0.014450 | 0.32% |
| QC value less than the lower limit for Si 251.611 Recovery = 89.50% | | | | | | | | |
| B 249.772† | 3112.9 | 0.427057 | mg/L | 0.0009650 | 0.427057 | mg/L | 0.0009650 | 0.23% |
| QC value less than the lower limit for B 249.772 Recovery = 85.41% | | | | | | | | |
| Ce 413.764† | 2052.2 | 0.468832 | mg/L | 0.0027327 | 0.468832 | mg/L | 0.0027327 | 0.58% |
| QC value within limits for Ce 413.764 Recovery = 93.77% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 40 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/28/2021 8:11:35 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 45143.0 | 101 | % | 0.88 | 101 | % | 0.88 | 0.87% |
| Y 371.029 | 13742.7 | 102 | % | 1.04 | 102 | % | 1.04 | 1.02% |
| Al 308.215† | -2.6 | -0.0127171 | mg/L | 0.00991573 | -0.0127171 | mg/L | 0.00991573 | 77.97% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 1.2 | -0.0019410 | mg/L | 0.00067097 | -0.0019410 | mg/L | 0.00067097 | 34.57% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -68.9 | -0.157089 | mg/L | 0.0014841 | -0.157089 | mg/L | 0.0014841 | 0.94% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -6.6 | -0.0033781 | mg/L | 0.00417932 | -0.0033781 | mg/L | 0.00417932 | 123.72% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -7.1 | -0.0300594 | mg/L | 0.00451638 | -0.0300594 | mg/L | 0.00451638 | 15.02% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -9.4 | 0.0691530 | mg/L | 0.01027086 | 0.0691530 | mg/L | 0.01027086 | 14.85% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -9.5 | -0.229200 | mg/L | 0.0188511 | -0.229200 | mg/L | 0.0188511 | 8.22% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 2.3 | -0.0023181 | mg/L | 0.00006369 | -0.0023181 | mg/L | 0.00006369 | 2.75% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 7.1 | 0.0032927 | mg/L | 0.00238452 | 0.0032927 | mg/L | 0.00238452 | 72.42% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -2339.1 | -0.371572 | mg/L | 0.0155493 | -0.371572 | mg/L | 0.0155493 | 4.18% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -2.7 | -0.0052331 | mg/L | 0.00118345 | -0.0052331 | mg/L | 0.00118345 | 22.61% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 7.0 | 0.0180191 | mg/L | 0.01237822 | 0.0180191 | mg/L | 0.01237822 | 68.70% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -3.6 | -0.0081690 | mg/L | 0.00954603 | -0.0081690 | mg/L | 0.00954603 | 116.86% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 37.4 | -0.0004521 | mg/L | 0.00038723 | -0.0004521 | mg/L | 0.00038723 | 85.66% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 9.4 | -0.0005369 | mg/L | 0.00191263 | -0.0005369 | mg/L | 0.00191263 | 356.21% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -3.3 | -0.0027975 | mg/L | 0.00136340 | -0.0027975 | mg/L | 0.00136340 | 48.74% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 3.7 | -0.126628 | mg/L | 0.0021081 | -0.126628 | mg/L | 0.0021081 | 1.66% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 11.7 | -0.0028822 | mg/L | 0.00076306 | -0.0028822 | mg/L | 0.00076306 | 26.47% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 54.6 | 0.0073152 | mg/L | 0.00188604 | 0.0073152 | mg/L | 0.00188604 | 25.78% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method: PE5 AVIO500 SW846 RD  Page 1  Date: 9/29/2021 3:03:24 PM

SW27669E5  27669/27670/27671

SW846 CJH 9/29/21

Analysis Begun

Start Time: 9/29/2021 3:00:49 PM
Originator: usemet
Spectrometer: Avio 500, S/N 081S2010191

Plasma On Time: 9/29/2021 9:28:06 AM
Technique: ICP Continuous
Autosampler: S23

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\09.29.21.sifx
Results Data Set: SW27669E5
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

10/4/21

Batch ID:
Sequence No.: 1
Sample ID: CALBLK V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location: 1
Date Collected: 9/29/2021 3:00:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-352951

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 93565.8 | 745.79 | 0.80% | 100 | % |
| Y 371.029 | 36546.6 | 296.75 | 0.81% | 100 | % |
| Al 308.215† | -55.3 | 13.81 | 24.97% | [0.00] | mg/L |
| Ba 233.527† | 8.2 | 0.83 | 10.13% | [0.00] | mg/L |
| Ca 315.887† | 156.7 | 90.35 | 57.66% | [0.00] | mg/L |
| Cu 327.393† | -45.4 | 40.84 | 89.89% | [0.00] | mg/L |
| Fe 273.955† | 23.1 | 2.16 | 9.36% | [0.00] | mg/L |
| K 766.490† | 1217.0 | 47.72 | 3.92% | [0.00] | mg/L |
| Mg 279.077† | -7.4 | 12.96 | 176.10% | [0.00] | mg/L |
| Mn 257.610† | 6.9 | 2.65 | 38.39% | [0.00] | mg/L |
| Mo 202.031† | 3.7 | 2.25 | 61.53% | [0.00] | mg/L |
| Na 589.592† | 6042.8 | 141.70 | 2.35% | [0.00] | mg/L |
| Ni 231.604† | 47.1 | 6.46 | 13.72% | [0.00] | mg/L |
| Se 196.026† | -12.0 | 2.75 | 22.88% | [0.00] | mg/L |
| Sn 189.927† | 2.8 | 0.87 | 31.20% | [0.00] | mg/L |
| Ti 334.940† | -490.3 | 17.08 | 3.48% | [0.00] | mg/L |
| V 290.880† | 108.0 | 12.02 | 11.14% | [0.00] | mg/L |
| Zn 206.200† | 7.1 | 6.11 | 85.83% | [0.00] | mg/L |
| Si 251.611† | 207.6 | 4.51 | 2.17% | [0.00] | mg/L |
| B 249.772† | 9.4 | 14.19 | 150.97% | [0.00] | mg/L |
| Ce 413.764† | 181.4 | 51.13 | 28.18% | [0.00] | mg/L |

27669/94427

2

26083-037

26083-048, -049, -050

+QC

(100) Na Reported

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 2
Autosampler Location: 5
Sample ID: CALST2 V-352961
Date Collected: 9/29/2021 3:04:44 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST2 V-352961

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 97496.1 | 204.86 | 0.21% | 104 | % |
| Y 371.029 | 37228.5 | 29.44 | 0.08% | 102 | % |
| Al 308.215† | 193.1 | 6.30 | 3.26% | [0.2] | mg/L |
| Ba 233.527† | 256.2 | 6.80 | 2.65% | [0.050] | mg/L |
| Ca 315.887† | 27380.3 | 53.58 | 0.20% | [5] | mg/L |
| Cu 327.393† | 313.6 | 13.23 | 4.22% | [0.050] | mg/L |
| Fe 273.955† | 381.2 | 3.72 | 0.98% | [0.30] | mg/L |
| K 766.490† | 9486.3 | 46.80 | 0.49% | [5] | mg/L |
| Mg 279.077† | 3510.6 | 32.85 | 0.94% | [5.0] | mg/L |
| Mn 257.610† | 1256.1 | 7.05 | 0.56% | [0.040] | mg/L |
| Mo 202.031† | 23.1 | 3.88 | 16.78% | [0.020] | mg/L |
| Na 589.592† | 50187.9 | 139.99 | 0.28% | [5] | mg/L |
| Ni 231.604† | 104.5 | 5.96 | 5.70% | [0.050] | mg/L |
| Se 196.026† | 14.5 | 4.61 | 31.82% | [0.050] | mg/L |
| Sn 189.927† | 15.6 | 2.85 | 18.27% | [0.050] | mg/L |
| Ti 334.940† | 2391.4 | 50.82 | 2.13% | [0.050] | mg/L |
| V 290.880† | 416.0 | 6.33 | 1.52% | [0.050] | mg/L |
| Zn 206.200† | 195.3 | 3.66 | 1.87% | [0.050] | mg/L |
| Si 251.611† | 838.3 | 7.07 | 0.84% | [0.2] | mg/L |
| B 249.772† | 1450.2 | 6.95 | 0.48% | [0.20] | mg/L |
| Ce 413.764† | 950.9 | 44.91 | 4.72% | [0.2] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 3
Autosampler Location: 3
Sample ID: CALST3 V-352955
Date Collected: 9/29/2021 3:08:36 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST3 V-352955

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 97313.8 | 107.18 | 0.11% | 104 | % |
| Y 371.029 | 36375.8 | 153.95 | 0.42% | 99.5 | % |
| Al 308.215† | 4647.1 | 35.76 | 0.77% | [5.0] | mg/L |
| Ba 233.527† | 2332.0 | 7.94 | 0.34% | [0.50] | mg/L |
| Ca 315.887† | 263006.3 | 719.81 | 0.27% | [50] | mg/L |
| Cu 327.393† | 2461.3 | 13.49 | 0.55% | [0.50] | mg/L |
| Fe 273.955† | 5893.6 | 26.29 | 0.45% | [5.0] | mg/L |
| K 766.490† | 94224.7 | 168.21 | 0.18% | [50] | mg/L |
| Mg 279.077† | 32883.0 | 182.43 | 0.55% | [50] | mg/L |
| Mn 257.610† | 15028.7 | 100.22 | 0.67% | [0.50] | mg/L |
| Mo 202.031† | 706.1 | 1.68 | 0.24% | [0.50] | mg/L |
| Na 589.592† | 487811.8 | 1522.26 | 0.31% | [50] | mg/L |
| Ni 231.604† | 962.9 | 3.52 | 0.37% | [0.50] | mg/L |
| Se 196.026† | 144.8 | 1.04 | 0.72% | [0.50] | mg/L |
| Sn 189.927† | 166.1 | 5.46 | 3.29% | [0.50] | mg/L |
| Ti 334.940† | 22653.9 | 151.25 | 0.67% | [0.50] | mg/L |
| V 290.880† | 4231.5 | 12.91 | 0.31% | [0.50] | mg/L |
| Zn 206.200† | 1862.4 | 3.54 | 0.19% | [0.50] | mg/L |
| Si 251.611† | 13703.4 | 98.78 | 0.72% | [5] | mg/L |
| B 249.772† | 3528.1 | 29.57 | 0.84% | [0.50] | mg/L |
| Ce 413.764† | 2318.0 | 29.24 | 1.26% | [0.5] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 4
Autosampler Location: 4
Sample ID: CALST4 V-352956
Date Collected: 9/29/2021 3:12:43 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST4 V-352956

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 92922.5 | 499.77 | 0.54% | 99.3 | % |
| Y 371.029 | 35406.3 | 151.42 | 0.43% | 96.9 | % |
| Al 308.215† | 9483.6 | 23.37 | 0.25% | [10] | mg/L |
| Ba 233.527† | 4760.2 | 42.13 | 0.88% | [1.0] | mg/L |
| Ca 315.887† | 527448.6 | 3911.58 | 0.74% | [100] | mg/L |
| Cu 327.393† | 4891.2 | 17.26 | 0.35% | [1.0] | mg/L |
| Fe 273.955† | 11764.0 | 34.62 | 0.29% | [10] | mg/L |
| K 766.490† | 193045.8 | 1129.43 | 0.59% | [100] | mg/L |
| Mg 279.077† | 65980.0 | 173.62 | 0.26% | [100] | mg/L |
| Mn 257.610† | 29939.9 | 97.39 | 0.33% | [1.0] | mg/L |
| Mo 202.031† | 1436.3 | 13.16 | 0.92% | [1.0] | mg/L |
| Na 589.592† | 983295.1 | 5021.97 | 0.51% | [100] | mg/L |
| Ni 231.604† | 1941.8 | 12.53 | 0.65% | [1.0] | mg/L |
| Se 196.026† | 277.7 | 7.94 | 2.86% | [1.0] | mg/L |
| Sn 189.927† | 323.7 | 4.03 | 1.25% | [1.0] | mg/L |
| Ti 334.940† | 45664.1 | 76.12 | 0.17% | [1.0] | mg/L |
| V 290.880† | 8466.6 | 3.31 | 0.04% | [1.0] | mg/L |
| Zn 206.200† | 3738.5 | 28.23 | 0.76% | [1.0] | mg/L |
| Si 251.611† | 27524.2 | 13.89 | 0.05% | [10] | mg/L |
| B 249.772† | 7059.9 | 10.23 | 0.14% | [1.0] | mg/L |
| Ce 413.764† | 4582.1 | 41.73 | 0.91% | [1] | mg/L |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| Al 308.215 | 3 | Lin, Calc Int | -15.7 | 946.5 | 0.00000 | 0.999945 | |
| Ba 233.527 | 3 | Lin, Calc Int | -0.6 | 4742 | 0.00000 | 0.999925 | |
| Ca 315.887 | 3 | Lin, Calc Int | 322.7 | 5268 | 0.00000 | 0.999997 | |
| Cu 327.393 | 3 | Lin, Calc Int | 34.0 | 4858 | 0.00000 | 0.999919 | |
| Fe 273.955 | 3 | Lin, Calc Int | 14.9 | 1175 | 0.00000 | 0.999998 | |
| K 766.490 | 3 | Lin, Calc Int | -495.6 | 1927 | 0.00000 | 0.999923 | |
| Mg 279.077 | 3 | Lin, Calc Int | 75.7 | 658.5 | 0.00000 | 0.999992 | |
| Mn 257.610 | 3 | Lin, Calc Int | 37.2 | 29920 | 0.00000 | 0.999997 | |
| Mo 202.031 | 3 | Lin, Calc Int | -4.7 | 1437 | 0.00000 | 0.999965 | |
| Na 589.592 | 3 | Lin, Calc Int | -241.4 | 9821 | 0.00000 | 0.999990 | |
| Ni 231.604 | 3 | Lin, Calc Int | 1.9 | 1937 | 0.00000 | 0.999979 | |
| Se 196.026 | 3 | Lin, Calc Int | 1.4 | 278.4 | 0.00000 | 0.999752 | |
| Sn 189.927 | 3 | Lin, Calc Int | 0.5 | 324.7 | 0.00000 | 0.999897 | |
| Ti 334.940 | 3 | Lin, Calc Int | 16.1 | 45580 | 0.00000 | 0.999986 | |
| V 290.880 | 3 | Lin, Calc Int | -3.6 | 8470 | 0.00000 | 1.000000 | |
| Zn 206.200 | 3 | Lin, Calc Int | 2.5 | 3733 | 0.00000 | 0.999995 | |
| Si 251.611 | 3 | Lin, Calc Int | 119.8 | 2736 | 0.00000 | 0.999945 | |
| B 249.772 | 3 | Lin, Calc Int | 15.7 | 7045 | 0.00000 | 0.999982 | |
| Ce 413.764 | 3 | Lin, Calc Int | 19.7 | 4572 | 0.00000 | 0.999961 | |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 5
Autosampler Location: 6
Sample ID: ICV V-352960
Date Collected: 9/29/2021 3:16:53 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94635.0 | 101 | % | 0.81 | 101 | % | 0.81 | 0.80% |
| Y 371.029 | 35653.0 | 97.6 | % | 0.93 | 97.6 | % | 0.93 | 0.95% |
| Al 308.215† | 4651.8 | 4.96207 | mg/L | 0.051850 | 4.96207 | mg/L | 0.051850 | 1.04% |
| QC value within limits for Al 308.215 Recovery = 99.24% | | | | | | | | |
| Ba 233.527† | 2367.0 | 0.496455 | mg/L | 0.0071058 | 0.496455 | mg/L | 0.0071058 | 1.43% |
| QC value within limits for Ba 233.527 Recovery = 99.29% | | | | | | | | |
| Ca 315.887† | 261602.4 | 49.5973 | mg/L | 0.11991 | 49.5973 | mg/L | 0.11991 | 0.24% |
| QC value within limits for Ca 315.887 Recovery = 99.19% | | | | | | | | |
| Cu 327.393† | 2463.7 | 0.523171 | mg/L | 0.0080890 | 0.523171 | mg/L | 0.0080890 | 1.55% |
| QC value within limits for Cu 327.393 Recovery = 104.63% | | | | | | | | |
| Fe 273.955† | 5869.3 | 4.98199 | mg/L | 0.069150 | 4.98199 | mg/L | 0.069150 | 1.39% |
| QC value within limits for Fe 273.955 Recovery = 99.64% | | | | | | | | |
| K 766.490† | 93437.3 | 48.7368 | mg/L | 0.05844 | 48.7368 | mg/L | 0.05844 | 0.12% |
| QC value within limits for K 766.490 Recovery = 97.47% | | | | | | | | |
| Mg 279.077† | 32681.6 | 49.5138 | mg/L | 0.54660 | 49.5138 | mg/L | 0.54660 | 1.10% |
| QC value within limits for Mg 279.077 Recovery = 99.03% | | | | | | | | |
| Mn 257.610† | 14856.4 | 0.504620 | mg/L | 0.0049769 | 0.504620 | mg/L | 0.0049769 | 0.99% |
| QC value within limits for Mn 257.610 Recovery = 100.92% | | | | | | | | |
| Mo 202.031† | 713.5 | 0.499753 | mg/L | 0.0049201 | 0.499753 | mg/L | 0.0049201 | 0.98% |
| QC value within limits for Mo 202.031 Recovery = 99.95% | | | | | | | | |
| Na 589.592† | 482884.2 | 49.1929 | mg/L | 0.04128 | 49.1929 | mg/L | 0.04128 | 0.08% |
| QC value within limits for Na 589.592 Recovery = 98.39% | | | | | | | | |
| Ni 231.604† | 973.9 | 0.503056 | mg/L | 0.0086174 | 0.503056 | mg/L | 0.0086174 | 1.71% |
| QC value within limits for Ni 231.604 Recovery = 100.61% | | | | | | | | |
| Se 196.026† | 138.8 | 0.498282 | mg/L | 0.0088413 | 0.498282 | mg/L | 0.0088413 | 1.77% |
| QC value within limits for Se 196.026 Recovery = 99.66% | | | | | | | | |
| Sn 189.927† | 163.5 | 0.514993 | mg/L | 0.0139367 | 0.514993 | mg/L | 0.0139367 | 2.71% |
| QC value within limits for Sn 189.927 Recovery = 103.00% | | | | | | | | |
| Ti 334.940† | 22590.4 | 0.503358 | mg/L | 0.0049626 | 0.503358 | mg/L | 0.0049626 | 0.99% |
| QC value within limits for Ti 334.940 Recovery = 100.67% | | | | | | | | |
| V 290.880† | 4255.0 | 0.482856 | mg/L | 0.0044642 | 0.482856 | mg/L | 0.0044642 | 0.92% |
| QC value within limits for V 290.880 Recovery = 96.57% | | | | | | | | |
| Zn 206.200† | 1878.5 | 0.502544 | mg/L | 0.0077916 | 0.502544 | mg/L | 0.0077916 | 1.55% |
| QC value within limits for Zn 206.200 Recovery = 100.51% | | | | | | | | |
| Si 251.611† | 13533.1 | 4.90257 | mg/L | 0.053620 | 4.90257 | mg/L | 0.053620 | 1.09% |
| QC value within limits for Si 251.611 Recovery = 98.05% | | | | | | | | |
| B 249.772† | 3491.7 | 0.473311 | mg/L | 0.0041350 | 0.473311 | mg/L | 0.0041350 | 0.87% |
| QC value within limits for B 249.772 Recovery = 94.66% | | | | | | | | |
| Ce 413.764† | 2298.3 | 0.498402 | mg/L | 0.0046586 | 0.498402 | mg/L | 0.0046586 | 0.93% |
| QC value within limits for Ce 413.764 Recovery = 99.68% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 6 Autosampler Location: 1
Sample ID: ICB V-352951 Date Collected: 9/29/2021 3:21:02 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 95480.7 | 102 | % | 0.70 | 102 | % | 0.70 | 0.68% |
| Y 371.029 | 37589.6 | 103 | % | 0.80 | 103 | % | 0.80 | 0.78% |
| Al 308.215† | 0.1 | 0.0168755 | mg/L | 0.01118549 | 0.0168755 | mg/L | 0.01118549 | 66.28% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 0.1 | 0.0001563 | mg/L | 0.00079426 | 0.0001563 | mg/L | 0.00079426 | 508.19% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -1.3 | -0.0615046 | mg/L | 0.00145535 | -0.0615046 | mg/L | 0.00145535 | 2.37% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 58.8 | 0.0050692 | mg/L | 0.00669200 | 0.0050692 | mg/L | 0.00669200 | 132.01% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 3.6 | -0.0096213 | mg/L | 0.00264348 | -0.0096213 | mg/L | 0.00264348 | 27.48% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -139.4 | 0.184815 | mg/L | 0.0121368 | 0.184815 | mg/L | 0.0121368 | 6.57% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -0.2 | -0.115345 | mg/L | 0.0157206 | -0.115345 | mg/L | 0.0157206 | 13.63% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -1.7 | -0.0013219 | mg/L | 0.00029881 | -0.0013219 | mg/L | 0.00029881 | 22.60% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -0.6 | 0.0028731 | mg/L | 0.00198586 | 0.0028731 | mg/L | 0.00198586 | 69.12% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -1369.2 | -0.114840 | mg/L | 0.0029598 | -0.114840 | mg/L | 0.0029598 | 2.58% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 0.9 | -0.0005293 | mg/L | 0.00205543 | -0.0005293 | mg/L | 0.00205543 | 388.34% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 4.5 | 0.0111852 | mg/L | 0.01149889 | 0.0111852 | mg/L | 0.01149889 | 102.80% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 0.1 | -0.0011464 | mg/L | 0.00937636 | -0.0011464 | mg/L | 0.00937636 | 817.87% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 29.7 | 0.0002877 | mg/L | 0.00001370 | 0.0002877 | mg/L | 0.00001370 | 4.76% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 4.0 | 0.0009418 | mg/L | 0.00060869 | 0.0009418 | mg/L | 0.00060869 | 64.63% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 3.2 | 0.0001893 | mg/L | 0.00111773 | 0.0001893 | mg/L | 0.00111773 | 590.30% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 0.6 | -0.0435532 | mg/L | 0.00475449 | -0.0435532 | mg/L | 0.00475449 | 10.92% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 9.2 | -0.0008814 | mg/L | 0.00121689 | -0.0008814 | mg/L | 0.00121689 | 138.07% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -32.2 | -0.0113405 | mg/L | 0.00927504 | -0.0113405 | mg/L | 0.00927504 | 81.79% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 7 Autosampler Location: 10
Sample ID: LRS V-352964 Date Collected: 9/29/2021 3:24:54 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LRS V-352964

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92699.6 | 99.1 | % | 0.65 | 99.1 | % | 0.65 | 0.66% |
| Y 371.029 | 32615.3 | 89.2 | % | 0.76 | 89.2 | % | 0.76 | 0.85% |
| Al 308.215† | 446475.7 | 472.093 | mg/L | 1.1627 | 472.093 | mg/L | 1.1627 | 0.25% |
| QC value within limits for Al 308.215 Recovery = 94.42% | | | | | | | | |
| Ba 233.527† | 46324.4 | 9.57744 | mg/L | 0.026503 | 9.57744 | mg/L | 0.026503 | 0.28% |
| QC value within limits for Ba 233.527 Recovery = 95.77% | | | | | | | | |
| Ca 315.887† | 2381339.5 | 451.975 | mg/L | 2.1852 | 451.975 | mg/L | 2.1852 | 0.48% |
| QC value within limits for Ca 315.887 Recovery = 90.39% | | | | | | | | |
| Cu 327.393† | 47797.5 | 10.0416 | mg/L | 0.05860 | 10.0416 | mg/L | 0.05860 | 0.58% |
| QC value within limits for Cu 327.393 Recovery = 100.42% | | | | | | | | |
| Fe 273.955† | 403448.5 | 343.317 | mg/L | 0.9028 | 343.317 | mg/L | 0.9028 | 0.26% |
| QC value less than the lower limit for Fe 273.955 Recovery = 85.83% | | | | | | | | |
| K 766.490† | 392810.2 | 204.065 | mg/L | 0.8555 | 204.065 | mg/L | 0.8555 | 0.42% |
| QC value within limits for K 766.490 Recovery = 102.03% | | | | | | | | |
| Mg 279.077† | 302857.1 | 459.790 | mg/L | 1.3950 | 459.790 | mg/L | 1.3950 | 0.30% |
| QC value within limits for Mg 279.077 Recovery = 91.96% | | | | | | | | |
| Mn 257.610† | 259996.1 | 8.77511 | mg/L | 0.012551 | 8.77511 | mg/L | 0.012551 | 0.14% |
| QC value less than the lower limit for Mn 257.610 Recovery = 87.75% | | | | | | | | |
| Mo 202.031† | 12588.2 | 8.76273 | mg/L | 0.087835 | 8.76273 | mg/L | 0.087835 | 1.00% |
| QC value less than the lower limit for Mo 202.031 Recovery = 87.63% | | | | | | | | |
| Na 589.592† | 9166338.8 | 933.362 | mg/L | 11.1310 | 933.362 | mg/L | 11.1310 | 1.19% |
| QC value within limits for Na 589.592 Recovery = 93.34% | | | | | | | | |
| Ni 231.604† | 16979.5 | 8.82554 | mg/L | 0.020576 | 8.82554 | mg/L | 0.020576 | 0.23% |
| QC value less than the lower limit for Ni 231.604 Recovery = 88.26% | | | | | | | | |
| Se 196.026† | 1221.2 | 4.70625 | mg/L | 0.016597 | 4.70625 | mg/L | 0.016597 | 0.35% |
| QC value within limits for Se 196.026 Recovery = 94.13% | | | | | | | | |
| Sn 189.927† | 3102.2 | 9.67150 | mg/L | 0.109766 | 9.67150 | mg/L | 0.109766 | 1.13% |
| QC value within limits for Sn 189.927 Recovery = 96.71% | | | | | | | | |
| Ti 334.940† | 426584.6 | 9.43269 | mg/L | 0.046220 | 9.43269 | mg/L | 0.046220 | 0.49% |
| QC value within limits for Ti 334.940 Recovery = 94.33% | | | | | | | | |
| V 290.880† | 70798.6 | 8.17402 | mg/L | 0.020678 | 8.17402 | mg/L | 0.020678 | 0.25% |
| QC value less than the lower limit for V 290.880 Recovery = 81.74% | | | | | | | | |
| Zn 206.200† | 31750.0 | 8.50457 | mg/L | 0.023165 | 8.50457 | mg/L | 0.023165 | 0.27% |
| QC value less than the lower limit for Zn 206.200 Recovery = 85.05% | | | | | | | | |
| Si 251.611† | 66332.0 | 24.2006 | mg/L | 0.09075 | 24.2006 | mg/L | 0.09075 | 0.37% |
| QC value within limits for Si 251.611 Recovery = 96.80% | | | | | | | | |
| B 249.772† | 37760.6 | 3.97040 | mg/L | 0.003124 | 3.97040 | mg/L | 0.003124 | 0.08% |
| QC value less than the lower limit for B 249.772 Recovery = 79.41% | | | | | | | | |
| Ce 413.764† | 103061.2 | 22.5378 | mg/L | 0.09926 | 22.5378 | mg/L | 0.09926 | 0.44% |
| QC value within limits for Ce 413.764 Recovery = 90.15% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 8 Autosampler Location: 3
Sample ID: ICS3 V-352955 Date Collected: 9/29/2021 3:30:40 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: ICS3 V-352955

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94724.1 | 101 | % | 1.06 | 101 | % | 1.06 | 1.05% |
| Y 371.029 | 36169.8 | 99.0 | % | 0.57 | 99.0 | % | 0.57 | 0.57% |
| Al 308.215† | 4602.3 | 4.90924 | mg/L | 0.025298 | 4.90924 | mg/L | 0.025298 | 0.52% |
| QC value within limits for Al 308.215 Recovery = 98.18% | | | | | | | | |
| Ba 233.527† | 2335.5 | 0.489865 | mg/L | 0.0031582 | 0.489865 | mg/L | 0.0031582 | 0.64% |
| QC value within limits for Ba 233.527 Recovery = 97.97% | | | | | | | | |
| Ca 315.887† | 255814.9 | 48.4986 | mg/L | 0.10710 | 48.4986 | mg/L | 0.10710 | 0.22% |
| QC value within limits for Ca 315.887 Recovery = 97.00% | | | | | | | | |
| Cu 327.393† | 2464.6 | 0.522839 | mg/L | 0.0072484 | 0.522839 | mg/L | 0.0072484 | 1.39% |
| QC value within limits for Cu 327.393 Recovery = 104.57% | | | | | | | | |
| Fe 273.955† | 5760.0 | 4.88900 | mg/L | 0.015686 | 4.88900 | mg/L | 0.015686 | 0.32% |
| QC value within limits for Fe 273.955 Recovery = 97.78% | | | | | | | | |
| K 766.490† | 90437.2 | 47.1802 | mg/L | 0.04763 | 47.1802 | mg/L | 0.04763 | 0.10% |
| QC value within limits for K 766.490 Recovery = 94.36% | | | | | | | | |
| Mg 279.077† | 32106.2 | 48.6400 | mg/L | 0.24474 | 48.6400 | mg/L | 0.24474 | 0.50% |
| QC value within limits for Mg 279.077 Recovery = 97.28% | | | | | | | | |
| Mn 257.610† | 14306.0 | 0.486057 | mg/L | 0.0011233 | 0.486057 | mg/L | 0.0011233 | 0.23% |
| QC value within limits for Mn 257.610 Recovery = 97.21% | | | | | | | | |
| Mo 202.031† | 699.8 | 0.490270 | mg/L | 0.0070386 | 0.490270 | mg/L | 0.0070386 | 1.44% |
| QC value within limits for Mo 202.031 Recovery = 98.05% | | | | | | | | |
| Na 589.592† | 465316.4 | 47.4042 | mg/L | 0.03481 | 47.4042 | mg/L | 0.03481 | 0.07% |
| QC value within limits for Na 589.592 Recovery = 94.81% | | | | | | | | |
| Ni 231.604† | 947.0 | 0.489146 | mg/L | 0.0070597 | 0.489146 | mg/L | 0.0070597 | 1.44% |
| QC value within limits for Ni 231.604 Recovery = 97.83% | | | | | | | | |
| Se 196.026† | 134.2 | 0.481704 | mg/L | 0.0096676 | 0.481704 | mg/L | 0.0096676 | 2.01% |
| QC value within limits for Se 196.026 Recovery = 96.34% | | | | | | | | |
| Sn 189.927† | 158.5 | 0.499147 | mg/L | 0.0079190 | 0.499147 | mg/L | 0.0079190 | 1.59% |
| QC value within limits for Sn 189.927 Recovery = 99.83% | | | | | | | | |
| Ti 334.940† | 22039.3 | 0.491087 | mg/L | 0.0031378 | 0.491087 | mg/L | 0.0031378 | 0.64% |
| QC value within limits for Ti 334.940 Recovery = 98.22% | | | | | | | | |
| V 290.880† | 4144.1 | 0.470111 | mg/L | 0.0039334 | 0.470111 | mg/L | 0.0039334 | 0.84% |
| QC value within limits for V 290.880 Recovery = 94.02% | | | | | | | | |
| Zn 206.200† | 1836.6 | 0.491321 | mg/L | 0.0031589 | 0.491321 | mg/L | 0.0031589 | 0.64% |
| QC value within limits for Zn 206.200 Recovery = 98.26% | | | | | | | | |
| Si 251.611† | 13421.3 | 4.86172 | mg/L | 0.019003 | 4.86172 | mg/L | 0.019003 | 0.39% |
| QC value within limits for Si 251.611 Recovery = 97.23% | | | | | | | | |
| B 249.772† | 3433.4 | 0.465407 | mg/L | 0.0013792 | 0.465407 | mg/L | 0.0013792 | 0.30% |
| QC value within limits for B 249.772 Recovery = 93.08% | | | | | | | | |
| Ce 413.764† | 2092.1 | 0.453301 | mg/L | 0.0064443 | 0.453301 | mg/L | 0.0064443 | 1.42% |
| QC value within limits for Ce 413.764 Recovery = 90.66% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 9 Autosampler Location: 14
Sample ID: RINSE Date Collected: 9/29/2021 3:34:47 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: RINSE

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94729.8 | 101 | % | 1.25 | 101 | % | 1.25 | 1.23% |
| Y 371.029 | 37893.2 | 104 | % | 1.40 | 104 | % | 1.40 | 1.35% |
| Al 308.215† | 14.8 | 0.0324109 | mg/L | 0.01438490 | 0.0324109 | mg/L | 0.01438490 | 44.38% |
| Ba 233.527† | 5.8 | 0.0013487 | mg/L | 0.00064806 | 0.0013487 | mg/L | 0.00064806 | 48.05% |
| Ca 315.887† | -23.4 | -0.0656924 | mg/L | 0.00447048 | -0.0656924 | mg/L | 0.00447048 | 6.81% |
| Cu 327.393† | 26.3 | -0.0016096 | mg/L | 0.00329878 | -0.0016096 | mg/L | 0.00329878 | 204.95% |
| Fe 273.955† | 4.4 | -0.0089108 | mg/L | 0.00929033 | -0.0089108 | mg/L | 0.00929033 | 104.26% |
| K 766.490† | -36.2 | 0.238386 | mg/L | 0.0079272 | 0.238386 | mg/L | 0.0079272 | 3.33% |
| Mg 279.077† | 0.4 | -0.114339 | mg/L | 0.0065122 | -0.114339 | mg/L | 0.0065122 | 5.70% |
| Mn 257.610† | 1.9 | -0.0012013 | mg/L | 0.00018254 | -0.0012013 | mg/L | 0.00018254 | 15.19% |
| Mo 202.031† | -1.1 | 0.0025635 | mg/L | 0.00182678 | 0.0025635 | mg/L | 0.00182678 | 71.26% |
| Na 589.592† | -509.2 | -0.0272747 | mg/L | 0.01523978 | -0.0272747 | mg/L | 0.01523978 | 55.88% |
| Ni 231.604† | -0.7 | -0.0013385 | mg/L | 0.00305467 | -0.0013385 | mg/L | 0.00305467 | 228.22% |
| Se 196.026† | 4.6 | 0.0116676 | mg/L | 0.00232418 | 0.0116676 | mg/L | 0.00232418 | 19.92% |
| Sn 189.927† | -0.2 | -0.0021492 | mg/L | 0.01677228 | -0.0021492 | mg/L | 0.01677228 | 780.38% |
| Ti 334.940† | 3.5 | -0.0002884 | mg/L | 0.00068854 | -0.0002884 | mg/L | 0.00068854 | 238.71% |
| V 290.880† | 1.6 | 0.0006630 | mg/L | 0.00151576 | 0.0006630 | mg/L | 0.00151576 | 228.61% |
| Zn 206.200† | -0.3 | -0.0007555 | mg/L | 0.00056579 | -0.0007555 | mg/L | 0.00056579 | 74.89% |
| Si 251.611† | 4.2 | -0.0422395 | mg/L | 0.00272275 | -0.0422395 | mg/L | 0.00272275 | 6.45% |
| B 249.772† | 24.4 | 0.0012758 | mg/L | 0.00061621 | 0.0012758 | mg/L | 0.00061621 | 48.30% |
| Ce 413.764† | -70.9 | -0.0198120 | mg/L | 0.00171100 | -0.0198120 | mg/L | 0.00171100 | 8.64% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 10 Autosampler Location: 5
Sample ID: LLICV V-352961 Date Collected: 9/29/2021 3:38:39 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LLICV V-352961

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 96508.2 | 103 | % | 0.59 | 103 | % | 0.59 | 0.57% |
| Y 371.029 | 37886.6 | 104 | % | 0.67 | 104 | % | 0.67 | 0.65% |
| Al 308.215† | 190.9 | 0.220226 | mg/L | 0.0120000 | 0.220226 | mg/L | 0.0120000 | 5.45% |
| QC value within limits for Al 308.215 Recovery = 110.11% | | | | | | | | |
| Ba 233.527† | 251.1 | 0.0528993 | mg/L | 0.00059466 | 0.0528993 | mg/L | 0.00059466 | 1.12% |
| QC value within limits for Ba 233.527 Recovery = 105.80% | | | | | | | | |
| Ca 315.887† | 26177.6 | 4.90790 | mg/L | 0.017467 | 4.90790 | mg/L | 0.017467 | 0.36% |
| QC value within limits for Ca 315.887 Recovery = 98.16% | | | | | | | | |
| Cu 327.393† | 306.6 | 0.0583877 | mg/L | 0.00420444 | 0.0583877 | mg/L | 0.00420444 | 7.20% |
| QC value within limits for Cu 327.393 Recovery = 116.78% | | | | | | | | |
| Fe 273.955† | 359.7 | 0.293416 | mg/L | 0.0034882 | 0.293416 | mg/L | 0.0034882 | 1.19% |
| QC value within limits for Fe 273.955 Recovery = 97.81% | | | | | | | | |
| K 766.490† | 8935.1 | 4.89312 | mg/L | 0.019169 | 4.89312 | mg/L | 0.019169 | 0.39% |
| QC value within limits for K 766.490 Recovery = 97.86% | | | | | | | | |
| Mg 279.077† | 3389.0 | 5.03136 | mg/L | 0.031802 | 5.03136 | mg/L | 0.031802 | 0.63% |
| QC value within limits for Mg 279.077 Recovery = 100.63% | | | | | | | | |
| Mn 257.610† | 1165.5 | 0.0386571 | mg/L | 0.00033603 | 0.0386571 | mg/L | 0.00033603 | 0.87% |
| QC value within limits for Mn 257.610 Recovery = 96.64% | | | | | | | | |
| Mo 202.031† | 28.4 | 0.0230664 | mg/L | 0.00204753 | 0.0230664 | mg/L | 0.00204753 | 8.88% |
| QC value within limits for Mo 202.031 Recovery = 115.33% | | | | | | | | |
| Na 589.592† | 46492.6 | 4.75856 | mg/L | 0.019244 | 4.75856 | mg/L | 0.019244 | 0.40% |
| QC value within limits for Na 589.592 Recovery = 95.17% | | | | | | | | |
| Ni 231.604† | 104.3 | 0.0529806 | mg/L | 0.00707748 | 0.0529806 | mg/L | 0.00707748 | 13.36% |
| QC value within limits for Ni 231.604 Recovery = 105.96% | | | | | | | | |
| Se 196.026† | 11.0 | 0.0347328 | mg/L | 0.00935482 | 0.0347328 | mg/L | 0.00935482 | 26.93% |
| QC value less than the lower limit for Se 196.026 Recovery = 69.47% | | | | | | | | |
| Sn 189.927† | 17.4 | 0.0534297 | mg/L | 0.00869106 | 0.0534297 | mg/L | 0.00869106 | 16.27% |
| QC value within limits for Sn 189.927 Recovery = 106.86% | | | | | | | | |
| Ti 334.940† | 2300.5 | 0.0509178 | mg/L | 0.00036915 | 0.0509178 | mg/L | 0.00036915 | 0.72% |
| QC value within limits for Ti 334.940 Recovery = 101.84% | | | | | | | | |
| V 290.880† | 388.4 | 0.0442553 | mg/L | 0.00127862 | 0.0442553 | mg/L | 0.00127862 | 2.89% |
| QC value within limits for V 290.880 Recovery = 88.51% | | | | | | | | |
| Zn 206.200† | 193.3 | 0.0511050 | mg/L | 0.00263227 | 0.0511050 | mg/L | 0.00263227 | 5.15% |
| QC value within limits for Zn 206.200 Recovery = 102.21% | | | | | | | | |
| Si 251.611† | 822.5 | 0.256834 | mg/L | 0.0025086 | 0.256834 | mg/L | 0.0025086 | 0.98% |
| QC value greater than the upper limit for Si 251.611 Recovery = 128.42% | | | | | | | | |
| B 249.772† | 1411.4 | 0.196948 | mg/L | 0.0007361 | 0.196948 | mg/L | 0.0007361 | 0.37% |
| QC value within limits for B 249.772 Recovery = 98.47% | | | | | | | | |
| Ce 413.764† | 887.9 | 0.189913 | mg/L | 0.0053600 | 0.189913 | mg/L | 0.0053600 | 2.82% |
| QC value within limits for Ce 413.764 Recovery = 94.96% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 11 Autosampler Location: 7
Sample ID: ICSA V-352957 Date Collected: 9/29/2021 3:42:33 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICSA V-352957

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91051.3 | 97.3 | % | 1.08 | 97.3 | % | 1.08 | 1.11% |
| Y 371.029 | 34580.2 | 94.6 | % | 1.14 | 94.6 | % | 1.14 | 1.21% |
| Al 308.215† | 467016.0 | 493.474 | mg/L | 5.0808 | 493.474 | mg/L | 5.0808 | 1.03% |
| QC value within limits for Al 308.215 Recovery = 98.69% | | | | | | | | |
| Ba 233.527† | 1216.1 | 0.157771 | mg/L | 0.0040806 | 0.157771 | mg/L | 0.0040806 | 2.59% |
| Ca 315.887† | 2467060.1 | 468.247 | mg/L | 4.4208 | 468.247 | mg/L | 4.4208 | 0.94% |
| QC value within limits for Ca 315.887 Recovery = 93.65% | | | | | | | | |
| Cu 327.393† | -851.8 | 0.0352067 | mg/L | 0.00113873 | 0.0352067 | mg/L | 0.00113873 | 3.23% |
| Fe 273.955† | 209085.6 | 177.917 | mg/L | 0.6472 | 177.917 | mg/L | 0.6472 | 0.36% |
| QC value within limits for Fe 273.955 Recovery = 88.96% | | | | | | | | |
| K 766.490† | 142.5 | 0.331082 | mg/L | 0.0275555 | 0.331082 | mg/L | 0.0275555 | 8.32% |
| Mg 279.077† | 306836.4 | 465.833 | mg/L | 1.5386 | 465.833 | mg/L | 1.5386 | 0.33% |
| QC value within limits for Mg 279.077 Recovery = 93.17% | | | | | | | | |
| Mn 257.610† | -9.8 | 0.0860658 | mg/L | 0.00032884 | 0.0860658 | mg/L | 0.00032884 | 0.38% |
| Mo 202.031† | -32.5 | -0.0193326 | mg/L | 0.00154166 | -0.0193326 | mg/L | 0.00154166 | 7.97% |
| Na 589.592† | 1283.5 | 0.155263 | mg/L | 0.0360846 | 0.155263 | mg/L | 0.0360846 | 23.24% |
| Ni 231.604† | 82.8 | 0.0352730 | mg/L | 0.00006848 | 0.0352730 | mg/L | 0.00006848 | 0.19% |
| Se 196.026† | -30.5 | 0.0536517 | mg/L | 0.01699204 | 0.0536517 | mg/L | 0.01699204 | 31.67% |
| Sn 189.927† | -115.9 | -0.236422 | mg/L | 0.0192608 | -0.236422 | mg/L | 0.0192608 | 8.15% |
| Ti 334.940† | -3692.9 | -0.0052701 | mg/L | 0.00086133 | -0.0052701 | mg/L | 0.00086133 | 16.34% |
| V 290.880† | 3479.5 | 0.223690 | mg/L | 0.0078079 | 0.223690 | mg/L | 0.0078079 | 3.49% |
| Zn 206.200† | 110.6 | 0.0289427 | mg/L | 0.00024687 | 0.0289427 | mg/L | 0.00024687 | 0.85% |
| Si 251.611† | -16.2 | -0.0497068 | mg/L | 0.00698785 | -0.0497068 | mg/L | 0.00698785 | 14.06% |
| B 249.772† | 3322.4 | -0.249718 | mg/L | 0.0089197 | -0.249718 | mg/L | 0.0089197 | 3.57% |
| Ce 413.764† | -493.6 | -0.112272 | mg/L | 0.0000242 | -0.112272 | mg/L | 0.0000242 | 0.02% |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 12 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/29/2021 3:47:55 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92827.3 | 99.2 | % | 0.34 | 99.2 | % | 0.34 | 0.34% |
| Y 371.029 | 36673.9 | 100 | % | 0.44 | 100 | % | 0.44 | 0.44% |
| Al 308.215† | 4637.7 | 4.94810 | mg/L | 0.057674 | 4.94810 | mg/L | 0.057674 | 1.17% |
| QC value within limits for Al 308.215 Recovery = 98.96% | | | | | | | | |
| Ba 233.527† | 2429.5 | 0.509721 | mg/L | 0.0040290 | 0.509721 | mg/L | 0.0040290 | 0.79% |
| QC value within limits for Ba 233.527 Recovery = 101.94% | | | | | | | | |
| Ca 315.887† | 261075.4 | 49.4972 | mg/L | 0.46822 | 49.4972 | mg/L | 0.46822 | 0.95% |
| QC value within limits for Ca 315.887 Recovery = 98.99% | | | | | | | | |
| Cu 327.393† | 2545.7 | 0.540007 | mg/L | 0.0102899 | 0.540007 | mg/L | 0.0102899 | 1.91% |
| QC value within limits for Cu 327.393 Recovery = 108.00% | | | | | | | | |
| Fe 273.955† | 5724.8 | 4.85902 | mg/L | 0.049588 | 4.85902 | mg/L | 0.049588 | 1.02% |
| QC value within limits for Fe 273.955 Recovery = 97.18% | | | | | | | | |
| K 766.490† | 92368.9 | 48.1824 | mg/L | 0.42366 | 48.1824 | mg/L | 0.42366 | 0.88% |
| QC value within limits for K 766.490 Recovery = 96.36% | | | | | | | | |
| Mg 279.077† | 32816.8 | 49.7192 | mg/L | 0.03904 | 49.7192 | mg/L | 0.03904 | 0.08% |
| QC value within limits for Mg 279.077 Recovery = 99.44% | | | | | | | | |
| Mn 257.610† | 14531.8 | 0.493809 | mg/L | 0.0018500 | 0.493809 | mg/L | 0.0018500 | 0.37% |
| QC value within limits for Mn 257.610 Recovery = 98.76% | | | | | | | | |
| Mo 202.031† | 700.1 | 0.490429 | mg/L | 0.0060437 | 0.490429 | mg/L | 0.0060437 | 1.23% |
| QC value within limits for Mo 202.031 Recovery = 98.09% | | | | | | | | |
| Na 589.592† | 472085.8 | 48.0934 | mg/L | 0.39741 | 48.0934 | mg/L | 0.39741 | 0.83% |
| QC value within limits for Na 589.592 Recovery = 96.19% | | | | | | | | |
| Ni 231.604† | 965.3 | 0.498576 | mg/L | 0.0097612 | 0.498576 | mg/L | 0.0097612 | 1.96% |
| QC value within limits for Ni 231.604 Recovery = 99.72% | | | | | | | | |
| Se 196.026† | 136.1 | 0.488520 | mg/L | 0.0406190 | 0.488520 | mg/L | 0.0406190 | 8.31% |
| QC value within limits for Se 196.026 Recovery = 97.70% | | | | | | | | |
| Sn 189.927† | 154.6 | 0.487581 | mg/L | 0.0119593 | 0.487581 | mg/L | 0.0119593 | 2.45% |
| QC value within limits for Sn 189.927 Recovery = 97.52% | | | | | | | | |
| Ti 334.940† | 22690.1 | 0.505529 | mg/L | 0.0009636 | 0.505529 | mg/L | 0.0009636 | 0.19% |
| QC value within limits for Ti 334.940 Recovery = 101.11% | | | | | | | | |
| V 290.880† | 4295.7 | 0.487570 | mg/L | 0.0033597 | 0.487570 | mg/L | 0.0033597 | 0.69% |
| QC value within limits for V 290.880 Recovery = 97.51% | | | | | | | | |
| Zn 206.200† | 1858.8 | 0.497257 | mg/L | 0.0075008 | 0.497257 | mg/L | 0.0075008 | 1.51% |
| QC value within limits for Zn 206.200 Recovery = 99.45% | | | | | | | | |
| Si 251.611† | 13622.4 | 4.93521 | mg/L | 0.012455 | 4.93521 | mg/L | 0.012455 | 0.25% |
| QC value within limits for Si 251.611 Recovery = 98.70% | | | | | | | | |
| B 249.772† | 3511.8 | 0.476654 | mg/L | 0.0034410 | 0.476654 | mg/L | 0.0034410 | 0.72% |
| QC value within limits for B 249.772 Recovery = 95.33% | | | | | | | | |
| Ce 413.764† | 2139.1 | 0.463564 | mg/L | 0.0127678 | 0.463564 | mg/L | 0.0127678 | 2.75% |
| QC value within limits for Ce 413.764 Recovery = 92.71% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 13 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 3:52:03 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93998.2 | 100 | % | 0.62 | 100 | % | 0.62 | 0.62% |
| Y 371.029 | 37710.7 | 103 | % | 0.61 | 103 | % | 0.61 | 0.59% |
| Al 308.215† | 5.7 | 0.0227241 | mg/L | 0.00400482 | 0.0227241 | mg/L | 0.00400482 | 17.62% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 3.9 | 0.0009578 | mg/L | 0.00048890 | 0.0009578 | mg/L | 0.00048890 | 51.05% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -6.8 | -0.0625535 | mg/L | 0.00565759 | -0.0625535 | mg/L | 0.00565759 | 9.04% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 27.6 | -0.0013463 | mg/L | 0.00416757 | -0.0013463 | mg/L | 0.00416757 | 309.55% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -2.5 | -0.0148554 | mg/L | 0.00190519 | -0.0148554 | mg/L | 0.00190519 | 12.82% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -145.3 | 0.181755 | mg/L | 0.0140165 | 0.181755 | mg/L | 0.0140165 | 7.71% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 8.0 | -0.102946 | mg/L | 0.0131462 | -0.102946 | mg/L | 0.0131462 | 12.77% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -2.1 | -0.0013305 | mg/L | 0.00028637 | -0.0013305 | mg/L | 0.00028637 | 21.52% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -0.1 | 0.0032275 | mg/L | 0.00169952 | 0.0032275 | mg/L | 0.00169952 | 52.66% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -1220.7 | -0.0997180 | mg/L | 0.00570719 | -0.0997180 | mg/L | 0.00570719 | 5.72% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -0.4 | -0.0012060 | mg/L | 0.00183066 | -0.0012060 | mg/L | 0.00183066 | 151.79% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 1.2 | -0.0007341 | mg/L | 0.00377771 | -0.0007341 | mg/L | 0.00377771 | 514.58% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -0.8 | -0.0040178 | mg/L | 0.00786092 | -0.0040178 | mg/L | 0.00786092 | 195.65% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -1.7 | -0.0004013 | mg/L | 0.00041499 | -0.0004013 | mg/L | 0.00041499 | 103.41% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 1.5 | 0.0006505 | mg/L | 0.00244642 | 0.0006505 | mg/L | 0.00244642 | 376.07% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 1.1 | -0.0003860 | mg/L | 0.00100740 | -0.0003860 | mg/L | 0.00100740 | 260.99% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 4.7 | -0.0420439 | mg/L | 0.00234699 | -0.0420439 | mg/L | 0.00234699 | 5.58% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 11.6 | -0.0005171 | mg/L | 0.00155151 | -0.0005171 | mg/L | 0.00155151 | 300.06% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -39.3 | -0.0129095 | mg/L | 0.00556424 | -0.0129095 | mg/L | 0.00556424 | 43.10% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 14 Autosampler Location: 83
Sample ID: MB 94429 (1) Date Collected: 9/29/2021 3:55:54 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: MB 94429 (1)

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94215.3 | 101 | % | 0.44 | 101 | % | 0.44 | 0.44% |
| Y 371.029 | 37808.7 | 103 | % | 0.54 | 103 | % | 0.54 | 0.52% |
| Al 308.215† | 8.2 | 0.0254749 | mg/L | 0.01991792 | 0.0254749 | mg/L | 0.01991792 | 78.19% |
| Ba 233.527† | 5.1 | 0.0012064 | mg/L | 0.00130621 | 0.0012064 | mg/L | 0.00130621 | 108.27% |
| Ca 315.887† | 112.6 | -0.0398895 | mg/L | 0.00102696 | -0.0398895 | mg/L | 0.00102696 | 2.57% |
| Cu 327.393† | 38.4 | 0.0008810 | mg/L | 0.00267137 | 0.0008810 | mg/L | 0.00267137 | 303.24% |
| Fe 273.955† | 21.8 | 0.0058392 | mg/L | 0.00173320 | 0.0058392 | mg/L | 0.00173320 | 29.68% |
| K 766.490† | -292.1 | 0.105630 | mg/L | 0.0156073 | 0.105630 | mg/L | 0.0156073 | 14.78% |
| Mg 279.077† | -0.8 | -0.116297 | mg/L | 0.0105062 | -0.116297 | mg/L | 0.0105062 | 9.03% |
| Mn 257.610† | 18.9 | -0.0006340 | mg/L | 0.00011635 | -0.0006340 | mg/L | 0.00011635 | 18.35% |
| Mo 202.031† | -5.0 | -0.0001690 | mg/L | 0.00369756 | -0.0001690 | mg/L | 0.00369756 | >999.9% |
| Na 589.592† | -1944.1 | -0.173373 | mg/L | 0.0066710 | -0.173373 | mg/L | 0.0066710 | 3.85% |
| Ni 231.604† | -2.3 | -0.0021745 | mg/L | 0.00517307 | -0.0021745 | mg/L | 0.00517307 | 237.89% |
| Se 196.026† | -1.4 | -0.0100188 | mg/L | 0.01118502 | -0.0100188 | mg/L | 0.01118502 | 111.64% |
| Sn 189.927† | 0.3 | -0.0005531 | mg/L | 0.00462013 | -0.0005531 | mg/L | 0.00462013 | 835.35% |
| Ti 334.940† | 14.6 | -0.0000401 | mg/L | 0.00090763 | -0.0000401 | mg/L | 0.00090763 | >999.9% |
| V 290.880† | 2.6 | 0.0007856 | mg/L | 0.00127510 | 0.0007856 | mg/L | 0.00127510 | 162.31% |
| Zn 206.200† | 15.2 | 0.0034046 | mg/L | 0.00192577 | 0.0034046 | mg/L | 0.00192577 | 56.56% |
| Si 251.611† | 44.3 | -0.0275891 | mg/L | 0.00099349 | -0.0275891 | mg/L | 0.00099349 | 3.60% |
| B 249.772† | 9.9 | -0.0008356 | mg/L | 0.00084926 | -0.0008356 | mg/L | 0.00084926 | 101.64% |
| Ce 413.764† | -28.5 | -0.0105292 | mg/L | 0.00646925 | -0.0105292 | mg/L | 0.00646925 | 61.44% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 15
Autosampler Location: 84
Sample ID: LCS 94429
Date Collected: 9/29/2021 3:59:46 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LCS 94429

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94067.4 | 101 | % | 0.70 | 101 | % | 0.70 | 0.70% |
| Y 371.029 | 36377.7 | 99.5 | % | 0.69 | 99.5 | % | 0.69 | 0.70% |
| Al 308.215† | 4704.2 | 5.01756 | mg/L | 0.049279 | 5.01756 | mg/L | 0.049279 | 0.98% |
| Ba 233.527† | 2376.3 | 0.498440 | mg/L | 0.0040138 | 0.498440 | mg/L | 0.0040138 | 0.81% |
| Ca 315.887† | 258031.3 | 48.9194 | mg/L | 0.04641 | 48.9194 | mg/L | 0.04641 | 0.09% |
| Cu 327.393† | 2549.8 | 0.540588 | mg/L | 0.0017783 | 0.540588 | mg/L | 0.0017783 | 0.33% |
| Fe 273.955† | 5848.5 | 4.96433 | mg/L | 0.042557 | 4.96433 | mg/L | 0.042557 | 0.86% |
| K 766.490† | 91262.5 | 47.6084 | mg/L | 0.02997 | 47.6084 | mg/L | 0.02997 | 0.06% |
| Mg 279.077† | 32517.7 | 49.2649 | mg/L | 0.44994 | 49.2649 | mg/L | 0.44994 | 0.91% |
| Mn 257.610† | 14409.3 | 0.489628 | mg/L | 0.0046319 | 0.489628 | mg/L | 0.0046319 | 0.95% |
| Mo 202.031† | 711.5 | 0.498384 | mg/L | 0.0044738 | 0.498384 | mg/L | 0.0044738 | 0.90% |
| Na 589.592† | 467058.2 | 47.5815 | mg/L | 0.06244 | 47.5815 | mg/L | 0.06244 | 0.13% |
| Ni 231.604† | 971.2 | 0.501636 | mg/L | 0.0035026 | 0.501636 | mg/L | 0.0035026 | 0.70% |
| Se 196.026† | 130.4 | 0.468004 | mg/L | 0.0255058 | 0.468004 | mg/L | 0.0255058 | 5.45% |
| Sn 189.927† | 149.2 | 0.470763 | mg/L | 0.0107182 | 0.470763 | mg/L | 0.0107182 | 2.28% |
| Ti 334.940† | 22552.9 | 0.502425 | mg/L | 0.0054941 | 0.502425 | mg/L | 0.0054941 | 1.09% |
| V 290.880† | 4257.3 | 0.483227 | mg/L | 0.0042890 | 0.483227 | mg/L | 0.0042890 | 0.89% |
| Zn 206.200† | 1854.0 | 0.495991 | mg/L | 0.0032409 | 0.495991 | mg/L | 0.0032409 | 0.65% |
| Si 251.611† | 1456.1 | 0.488435 | mg/L | 0.0051738 | 0.488435 | mg/L | 0.0051738 | 1.06% |
| B 249.772† | 3501.9 | 0.474825 | mg/L | 0.0080783 | 0.474825 | mg/L | 0.0080783 | 1.70% |
| Ce 413.764† | 2245.5 | 0.486848 | mg/L | 0.0022276 | 0.486848 | mg/L | 0.0022276 | 0.46% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 16 Autosampler Location: 85
Sample ID: LCS MR 94429 Date Collected: 9/29/2021 4:03:55 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LCS MR 94429

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94657.5 | 101 | % | 0.65 | 101 | % | 0.65 | 0.64% |
| Y 371.029 | 36343.3 | 99.4 | % | 0.55 | 99.4 | % | 0.55 | 0.56% |
| Al 308.215† | 4661.4 | 4.97186 | mg/L | 0.075992 | 4.97186 | mg/L | 0.075992 | 1.53% |
| Ba 233.527† | 2344.2 | 0.491699 | mg/L | 0.0039550 | 0.491699 | mg/L | 0.0039550 | 0.80% |
| Ca 315.887† | 256403.2 | 48.6103 | mg/L | 0.04528 | 48.6103 | mg/L | 0.04528 | 0.09% |
| Cu 327.393† | 2528.0 | 0.535944 | mg/L | 0.0130279 | 0.535944 | mg/L | 0.0130279 | 2.43% |
| Fe 273.955† | 5775.3 | 4.90200 | mg/L | 0.049732 | 4.90200 | mg/L | 0.049732 | 1.01% |
| K 766.490† | 90416.9 | 47.1697 | mg/L | 0.06145 | 47.1697 | mg/L | 0.06145 | 0.13% |
| Mg 279.077† | 31979.6 | 48.4477 | mg/L | 0.46820 | 48.4477 | mg/L | 0.46820 | 0.97% |
| Mn 257.610† | 14157.3 | 0.481052 | mg/L | 0.0052419 | 0.481052 | mg/L | 0.0052419 | 1.09% |
| Mo 202.031† | 699.2 | 0.489800 | mg/L | 0.0052255 | 0.489800 | mg/L | 0.0052255 | 1.07% |
| Na 589.592† | 462744.3 | 47.1423 | mg/L | 0.08661 | 47.1423 | mg/L | 0.08661 | 0.18% |
| Ni 231.604† | 950.8 | 0.491110 | mg/L | 0.0009938 | 0.491110 | mg/L | 0.0009938 | 0.20% |
| Se 196.026† | 133.2 | 0.478239 | mg/L | 0.0126190 | 0.478239 | mg/L | 0.0126190 | 2.64% |
| Sn 189.927† | 149.4 | 0.471173 | mg/L | 0.0088726 | 0.471173 | mg/L | 0.0088726 | 1.88% |
| Ti 334.940† | 22211.8 | 0.494891 | mg/L | 0.0058306 | 0.494891 | mg/L | 0.0058306 | 1.18% |
| V 290.880† | 4192.5 | 0.475901 | mg/L | 0.0070364 | 0.475901 | mg/L | 0.0070364 | 1.48% |
| Zn 206.200† | 1833.5 | 0.490476 | mg/L | 0.0040583 | 0.490476 | mg/L | 0.0040583 | 0.83% |
| Si 251.611† | 1438.4 | 0.481949 | mg/L | 0.0091580 | 0.481949 | mg/L | 0.0091580 | 1.90% |
| B 249.772† | 3457.2 | 0.468724 | mg/L | 0.0048418 | 0.468724 | mg/L | 0.0048418 | 1.03% |
| Ce 413.764† | 2253.0 | 0.488481 | mg/L | 0.0056481 | 0.488481 | mg/L | 0.0056481 | 1.16% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 17
Autosampler Location: 86
Sample ID: AD26083-041
Date Collected: 9/29/2021 4:08:03 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-041

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90476.5 | 96.7 | % | 0.94 | 96.7 | % | 0.94 | 0.97% |
| Y 371.029 | 35231.6 | 96.4 | % | 0.90 | 96.4 | % | 0.90 | 0.94% |
| Al 308.215† | 24.9 | 0.0559442 | mg/L | 0.00651355 | 0.0559442 | mg/L | 0.00651355 | 11.64% |
| Ba 233.527† | 8359.1 | 1.75803 | mg/L | 0.008123 | 1.75803 | mg/L | 0.008123 | 0.46% |
| Ca 315.887† | 386292.3 | 73.2664 | mg/L | 0.26256 | 73.2664 | mg/L | 0.26256 | 0.36% |
| Cu 327.393† | -102.4 | 0.0059602 | mg/L | 0.00402596 | 0.0059602 | mg/L | 0.00402596 | 67.55% |
| Fe 273.955† | 9932.9 | 8.44010 | mg/L | 0.061015 | 8.44010 | mg/L | 0.061015 | 0.72% |
| K 766.490† | 166058.7 | 86.4162 | mg/L | 0.03321 | 86.4162 | mg/L | 0.03321 | 0.04% |
| Mg 279.077† | 74316.4 | 112.739 | mg/L | 0.3364 | 112.739 | mg/L | 0.3364 | 0.30% |
| Mn 257.610† | 12055.9 | 0.422913 | mg/L | 0.0018138 | 0.422913 | mg/L | 0.0018138 | 0.43% |
| Mo 202.031† | -4.6 | 0.0000911 | mg/L | 0.00310405 | 0.0000911 | mg/L | 0.00310405 | >999.9% |
| Na 589.592† | 9628872.2 | 980.458 | mg/L | 12.4325 | 980.458 | mg/L | 12.4325 | 1.27% |
| Ni 231.604† | 22.1 | 0.0135886 | mg/L | 0.00827429 | 0.0135886 | mg/L | 0.00827429 | 60.89% |
| Se 196.026† | -0.7 | 0.0005019 | mg/L | 0.01217237 | 0.0005019 | mg/L | 0.01217237 | >999.9% |
| Sn 189.927† | -33.8 | -0.0804807 | mg/L | 0.01087115 | -0.0804807 | mg/L | 0.01087115 | 13.51% |
| Ti 334.940† | -468.2 | 0.0012813 | mg/L | 0.00055190 | 0.0012813 | mg/L | 0.00055190 | 43.07% |
| V 290.880† | 1184.7 | 0.0949067 | mg/L | 0.00104604 | 0.0949067 | mg/L | 0.00104604 | 1.10% |
| Zn 206.200† | 15.7 | 0.0035360 | mg/L | 0.00123056 | 0.0035360 | mg/L | 0.00123056 | 34.80% |
| Si 251.611† | 18609.5 | 6.75802 | mg/L | 0.018073 | 6.75802 | mg/L | 0.018073 | 0.27% |
| B 249.772† | 10069.5 | 1.39308 | mg/L | 0.003398 | 1.39308 | mg/L | 0.003398 | 0.24% |
| Ce 413.764† | -54.1 | -0.0161435 | mg/L | 0.00772756 | -0.0161435 | mg/L | 0.00772756 | 47.87% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 18
Autosampler Location: 87
Sample ID: AD26083-041 MR
Date Collected: 9/29/2021 4:12:19 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-041 MR

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90102.1 | 96.3 | % | 0.76 | 96.3 | % | 0.76 | 0.78% |
| Y 371.029 | 35095.8 | 96.0 | % | 0.94 | 96.0 | % | 0.94 | 0.98% |
| Al 308.215† | 26.7 | 0.0588729 | mg/L | 0.00901641 | 0.0588729 | mg/L | 0.00901641 | 15.32% |
| Ba 233.527† | 8789.2 | 1.84849 | mg/L | 0.004259 | 1.84849 | mg/L | 0.004259 | 0.23% |
| Ca 315.887† | 405078.5 | 76.8325 | mg/L | 0.19403 | 76.8325 | mg/L | 0.19403 | 0.25% |
| Cu 327.393† | -90.3 | 0.0101132 | mg/L | 0.00502082 | 0.0101132 | mg/L | 0.00502082 | 49.65% |
| Fe 273.955† | 10438.8 | 8.87060 | mg/L | 0.024875 | 8.87060 | mg/L | 0.024875 | 0.28% |
| K 766.490† | 175835.8 | 91.4890 | mg/L | 0.20181 | 91.4890 | mg/L | 0.20181 | 0.22% |
| Mg 279.077† | 78202.1 | 118.639 | mg/L | 0.3266 | 118.639 | mg/L | 0.3266 | 0.28% |
| Mn 257.610† | 12646.5 | 0.443760 | mg/L | 0.0008393 | 0.443760 | mg/L | 0.0008393 | 0.19% |
| Mo 202.031† | -5.7 | -0.0006817 | mg/L | 0.00167044 | -0.0006817 | mg/L | 0.00167044 | 245.03% |
| Na 589.592† | 10056972.2 | 1024.05 | mg/L | 8.218 | 1024.05 | mg/L | 8.218 | 0.80% |
| Ni 231.604† | 21.3 | 0.0133682 | mg/L | 0.00066799 | 0.0133682 | mg/L | 0.00066799 | 5.00% |
| Se 196.026† | 0.8 | 0.0062486 | mg/L | 0.01624420 | 0.0062486 | mg/L | 0.01624420 | 259.97% |
| Sn 189.927† | -39.8 | -0.0973719 | mg/L | 0.02657695 | -0.0973719 | mg/L | 0.02657695 | 27.29% |
| Ti 334.940† | -504.7 | 0.0010604 | mg/L | 0.00070689 | 0.0010604 | mg/L | 0.00070689 | 66.66% |
| V 290.880† | 1284.3 | 0.104292 | mg/L | 0.0123294 | 0.104292 | mg/L | 0.0123294 | 11.82% |
| Zn 206.200† | 19.4 | 0.0045138 | mg/L | 0.00043784 | 0.0045138 | mg/L | 0.00043784 | 9.70% |
| Si 251.611† | 19657.0 | 7.14089 | mg/L | 0.025091 | 7.14089 | mg/L | 0.025091 | 0.35% |
| B 249.772† | 10627.8 | 1.47059 | mg/L | 0.000695 | 1.47059 | mg/L | 0.000695 | 0.05% |
| Ce 413.764† | -24.9 | -0.0097501 | mg/L | 0.00480564 | -0.0097501 | mg/L | 0.00480564 | 49.29% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 19 Autosampler Location: 88
Sample ID: AD26083-043 MS 1 Date Collected: 9/29/2021 4:17:50 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-043 MS 1

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90645.8 | 96.9 | % | 0.96 | 96.9 | % | 0.96 | 0.99% |
| Y 371.029 | 35087.4 | 96.0 | % | 0.96 | 96.0 | % | 0.96 | 1.00% |
| Al 308.215† | 4614.2 | 4.93387 | mg/L | 0.049040 | 4.93387 | mg/L | 0.049040 | 0.99% |
| Ba 233.527† | 10562.5 | 2.22004 | mg/L | 0.003084 | 2.22004 | mg/L | 0.003084 | 0.14% |
| Ca 315.887† | 630692.0 | 119.659 | mg/L | 0.1140 | 119.659 | mg/L | 0.1140 | 0.10% |
| Cu 327.393† | 2530.2 | 0.569412 | mg/L | 0.0024898 | 0.569412 | mg/L | 0.0024898 | 0.44% |
| Fe 273.955† | 15431.3 | 13.1192 | mg/L | 0.04014 | 13.1192 | mg/L | 0.04014 | 0.31% |
| K 766.490† | 264556.5 | 137.521 | mg/L | 0.2821 | 137.521 | mg/L | 0.2821 | 0.21% |
| Mg 279.077† | 104919.9 | 159.212 | mg/L | 0.1866 | 159.212 | mg/L | 0.1866 | 0.12% |
| Mn 257.610† | 25766.4 | 0.889902 | mg/L | 0.0016125 | 0.889902 | mg/L | 0.0016125 | 0.18% |
| Mo 202.031† | 695.4 | 0.487206 | mg/L | 0.0086377 | 0.487206 | mg/L | 0.0086377 | 1.77% |
| Na 589.592† | 9906341.4 | 1008.71 | mg/L | 7.758 | 1008.71 | mg/L | 7.758 | 0.77% |
| Ni 231.604† | 962.6 | 0.500291 | mg/L | 0.0053125 | 0.500291 | mg/L | 0.0053125 | 1.06% |
| Se 196.026† | 132.9 | 0.484842 | mg/L | 0.0357928 | 0.484842 | mg/L | 0.0357928 | 7.38% |
| Sn 189.927† | 121.1 | 0.408952 | mg/L | 0.0005318 | 0.408952 | mg/L | 0.0005318 | 0.13% |
| Ti 334.940† | 22158.6 | 0.505272 | mg/L | 0.0016447 | 0.505272 | mg/L | 0.0016447 | 0.33% |
| V 290.880† | 5277.1 | 0.559360 | mg/L | 0.0038576 | 0.559360 | mg/L | 0.0038576 | 0.69% |
| Zn 206.200† | 1865.5 | 0.499048 | mg/L | 0.0048483 | 0.499048 | mg/L | 0.0048483 | 0.97% |
| Si 251.611† | 20203.1 | 7.34046 | mg/L | 0.010672 | 7.34046 | mg/L | 0.010672 | 0.15% |
| B 249.772† | 13447.3 | 1.85366 | mg/L | 0.001526 | 1.85366 | mg/L | 0.001526 | 0.08% |
| Ce 413.764† | 2186.6 | 0.473955 | mg/L | 0.0054853 | 0.473955 | mg/L | 0.0054853 | 1.16% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 20
Autosampler Location: 89
Sample ID: AD26083-045 MS 2
Date Collected: 9/29/2021 4:23:16 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-045 MS 2

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90810.5 | 97.1 | % | 0.32 | 97.1 | % | 0.32 | 0.33% |
| Y 371.029 | 35110.2 | 96.1 | % | 0.58 | 96.1 | % | 0.58 | 0.61% |
| Al 308.215† | 4644.4 | 4.96591 | mg/L | 0.016801 | 4.96591 | mg/L | 0.016801 | 0.34% |
| Ba 233.527† | 10638.0 | 2.23591 | mg/L | 0.007412 | 2.23591 | mg/L | 0.007412 | 0.33% |
| Ca 315.887† | 634478.8 | 120.378 | mg/L | 0.1954 | 120.378 | mg/L | 0.1954 | 0.16% |
| Cu 327.393† | 2550.0 | 0.573825 | mg/L | 0.0060180 | 0.573825 | mg/L | 0.0060180 | 1.05% |
| Fe 273.955† | 15537.0 | 13.2091 | mg/L | 0.02256 | 13.2091 | mg/L | 0.02256 | 0.17% |
| K 766.490† | 266849.8 | 138.711 | mg/L | 0.1018 | 138.711 | mg/L | 0.1018 | 0.07% |
| Mg 279.077† | 105566.2 | 160.193 | mg/L | 0.2438 | 160.193 | mg/L | 0.2438 | 0.15% |
| Mn 257.610† | 25949.6 | 0.896207 | mg/L | 0.0016829 | 0.896207 | mg/L | 0.0016829 | 0.19% |
| Mo 202.031† | 703.8 | 0.493054 | mg/L | 0.0039571 | 0.493054 | mg/L | 0.0039571 | 0.80% |
| Na 589.592† | 10070381.3 | 1025.41 | mg/L | 3.233 | 1025.41 | mg/L | 3.233 | 0.32% |
| Ni 231.604† | 981.2 | 0.509904 | mg/L | 0.0043096 | 0.509904 | mg/L | 0.0043096 | 0.85% |
| Se 196.026† | 131.0 | 0.478033 | mg/L | 0.0160409 | 0.478033 | mg/L | 0.0160409 | 3.36% |
| Sn 189.927† | 123.4 | 0.416191 | mg/L | 0.0086281 | 0.416191 | mg/L | 0.0086281 | 2.07% |
| Ti 334.940† | 22163.2 | 0.505490 | mg/L | 0.0012199 | 0.505490 | mg/L | 0.0012199 | 0.24% |
| V 290.880† | 5298.7 | 0.561515 | mg/L | 0.0055035 | 0.561515 | mg/L | 0.0055035 | 0.98% |
| Zn 206.200† | 1854.2 | 0.496023 | mg/L | 0.0049578 | 0.496023 | mg/L | 0.0049578 | 1.00% |
| Si 251.611† | 20330.1 | 7.38689 | mg/L | 0.014401 | 7.38689 | mg/L | 0.014401 | 0.19% |
| B 249.772† | 13506.8 | 1.86174 | mg/L | 0.000687 | 1.86174 | mg/L | 0.000687 | 0.04% |
| Ce 413.764† | 2180.5 | 0.472637 | mg/L | 0.0070249 | 0.472637 | mg/L | 0.0070249 | 1.49% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 21 Autosampler Location: 90
Sample ID: AD26083-041 PS Date Collected: 9/29/2021 4:28:42 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-041 PS

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90980.9 | 97.2 | % | 0.85 | 97.2 | % | 0.85 | 0.87% |
| Y 371.029 | 35111.0 | 96.1 | % | 0.81 | 96.1 | % | 0.81 | 0.85% |
| Al 308.215† | 5001.0 | 5.34598 | mg/L | 0.055862 | 5.34598 | mg/L | 0.055862 | 1.04% |
| Ba 233.527† | 10765.6 | 2.26263 | mg/L | 0.003949 | 2.26263 | mg/L | 0.003949 | 0.17% |
| Ca 315.887† | 650334.5 | 123.388 | mg/L | 0.3363 | 123.388 | mg/L | 0.3363 | 0.27% |
| Cu 327.393† | 2753.6 | 0.617133 | mg/L | 0.0039331 | 0.617133 | mg/L | 0.0039331 | 0.64% |
| Fe 273.955† | 15929.0 | 13.5427 | mg/L | 0.01625 | 13.5427 | mg/L | 0.01625 | 0.12% |
| K 766.490† | 274117.0 | 142.482 | mg/L | 0.5158 | 142.482 | mg/L | 0.5158 | 0.36% |
| Mg 279.077† | 107326.0 | 162.866 | mg/L | 0.2922 | 162.866 | mg/L | 0.2922 | 0.18% |
| Mn 257.610† | 27155.1 | 0.937002 | mg/L | 0.0034230 | 0.937002 | mg/L | 0.0034230 | 0.37% |
| Mo 202.031† | 753.6 | 0.527719 | mg/L | 0.0093297 | 0.527719 | mg/L | 0.0093297 | 1.77% |
| Na 589.592† | 9971950.7 | 1015.39 | mg/L | 14.289 | 1015.39 | mg/L | 14.289 | 1.41% |
| Ni 231.604† | 1056.1 | 0.548687 | mg/L | 0.0065638 | 0.548687 | mg/L | 0.0065638 | 1.20% |
| Se 196.026† | 144.6 | 0.527239 | mg/L | 0.0324111 | 0.527239 | mg/L | 0.0324111 | 6.15% |
| Sn 189.927† | 135.6 | 0.454335 | mg/L | 0.0085049 | 0.454335 | mg/L | 0.0085049 | 1.87% |
| Ti 334.940† | 24098.3 | 0.548436 | mg/L | 0.0018851 | 0.548436 | mg/L | 0.0018851 | 0.34% |
| V 290.880† | 5686.7 | 0.606243 | mg/L | 0.0013958 | 0.606243 | mg/L | 0.0013958 | 0.23% |
| Zn 206.200† | 1993.7 | 0.533414 | mg/L | 0.0067845 | 0.533414 | mg/L | 0.0067845 | 1.27% |
| Si 251.611† | 21381.6 | 7.77122 | mg/L | 0.051556 | 7.77122 | mg/L | 0.051556 | 0.66% |
| B 249.772† | 13416.9 | 1.84763 | mg/L | 0.007138 | 1.84763 | mg/L | 0.007138 | 0.39% |
| Ce 413.764† | 2224.6 | 0.482280 | mg/L | 0.0064342 | 0.482280 | mg/L | 0.0064342 | 1.33% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 22
Autosampler Location: 91
Sample ID: AD26083-041 SD
Date Collected: 9/29/2021 4:34:08 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-041 SD

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92841.6 | 99.2 | % | 0.33 | 99.2 | % | 0.33 | 0.33% |
| Y 371.029 | 36752.3 | 101 | % | 0.23 | 101 | % | 0.23 | 0.23% |
| Al 308.215† | -9.3 | 0.0100655 | mg/L | 0.00742903 | 0.0100655 | mg/L | 0.00742903 | 73.81% |
| Ba 233.527† | 1741.8 | 0.366457 | mg/L | 0.0040990 | 0.366457 | mg/L | 0.0040990 | 1.12% |
| Ca 315.887† | 81441.2 | 15.3983 | mg/L | 0.05506 | 15.3983 | mg/L | 0.05506 | 0.36% |
| Cu 327.393† | -16.6 | -0.0032679 | mg/L | 0.00253062 | -0.0032679 | mg/L | 0.00253062 | 77.44% |
| Fe 273.955† | 1990.4 | 1.68114 | mg/L | 0.015468 | 1.68114 | mg/L | 0.015468 | 0.92% |
| K 766.490† | 32536.3 | 17.1385 | mg/L | 0.03292 | 17.1385 | mg/L | 0.03292 | 0.19% |
| Mg 279.077† | 15489.5 | 23.4066 | mg/L | 0.03701 | 23.4066 | mg/L | 0.03701 | 0.16% |
| Mn 257.610† | 2503.7 | 0.0868418 | mg/L | 0.00068133 | 0.0868418 | mg/L | 0.00068133 | 0.78% |
| Mo 202.031† | -7.0 | -0.0015374 | mg/L | 0.00416284 | -0.0015374 | mg/L | 0.00416284 | 270.76% |
| Na 589.592† | 1991987.9 | 202.853 | mg/L | 0.8976 | 202.853 | mg/L | 0.8976 | 0.44% |
| Ni 231.604† | -0.1 | -0.0004163 | mg/L | 0.00126562 | -0.0004163 | mg/L | 0.00126562 | 304.04% |
| Se 196.026† | -2.7 | -0.0131817 | mg/L | 0.01679118 | -0.0131817 | mg/L | 0.01679118 | 127.38% |
| Sn 189.927† | -5.5 | -0.0133432 | mg/L | 0.00456176 | -0.0133432 | mg/L | 0.00456176 | 34.19% |
| Ti 334.940† | -119.5 | -0.0004718 | mg/L | 0.00007882 | -0.0004718 | mg/L | 0.00007882 | 16.71% |
| V 290.880† | 279.9 | 0.0240458 | mg/L | 0.00342062 | 0.0240458 | mg/L | 0.00342062 | 14.23% |
| Zn 206.200† | -2.3 | -0.0012894 | mg/L | 0.00102627 | -0.0012894 | mg/L | 0.00102627 | 79.59% |
| Si 251.611† | 3816.4 | 1.35112 | mg/L | 0.008369 | 1.35112 | mg/L | 0.008369 | 0.62% |
| B 249.772† | 2081.5 | 0.286455 | mg/L | 0.0015733 | 0.286455 | mg/L | 0.0015733 | 0.55% |
| Ce 413.764† | -47.2 | -0.0146273 | mg/L | 0.01128808 | -0.0146273 | mg/L | 0.01128808 | 77.17% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 23
Autosampler Location: 92
Sample ID: AD26083-004
Date Collected: 9/29/2021 4:38:12 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-004

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94254.7 | 101 | % | 0.35 | 101 | % | 0.35 | 0.35% |
| Y 371.029 | 36679.2 | 100 | % | 0.20 | 100 | % | 0.20 | 0.20% |
| Al 308.215† | 11.3 | 0.0313529 | mg/L | 0.00368681 | 0.0313529 | mg/L | 0.00368681 | 11.76% |
| Ba 233.527† | 1066.8 | 0.225053 | mg/L | 0.0025865 | 0.225053 | mg/L | 0.0025865 | 1.15% |
| Ca 315.887† | 265032.3 | 50.2483 | mg/L | 0.05148 | 50.2483 | mg/L | 0.05148 | 0.10% |
| Cu 327.393† | -40.9 | 0.0079299 | mg/L | 0.00258211 | 0.0079299 | mg/L | 0.00258211 | 32.56% |
| Fe 273.955† | 34.1 | 0.0162969 | mg/L | 0.00603089 | 0.0162969 | mg/L | 0.00603089 | 37.01% |
| K 766.490† | 2215.7 | 1.40675 | mg/L | 0.014084 | 1.40675 | mg/L | 0.014084 | 1.00% |
| Mg 279.077† | 13659.4 | 20.6276 | mg/L | 0.03924 | 20.6276 | mg/L | 0.03924 | 0.19% |
| Mn 257.610† | 2446.7 | 0.0844142 | mg/L | 0.00080924 | 0.0844142 | mg/L | 0.00080924 | 0.96% |
| Mo 202.031† | -5.6 | -0.0005875 | mg/L | 0.00158710 | -0.0005875 | mg/L | 0.00158710 | 270.15% |
| Na 589.592† | 122399.8 | 12.4876 | mg/L | 0.05453 | 12.4876 | mg/L | 0.05453 | 0.44% |
| Ni 231.604† | -0.1 | -0.0010263 | mg/L | 0.00459879 | -0.0010263 | mg/L | 0.00459879 | 448.10% |
| Se 196.026† | -0.3 | -0.0058946 | mg/L | 0.01081864 | -0.0058946 | mg/L | 0.01081864 | 183.53% |
| Sn 189.927† | -8.9 | -0.0202859 | mg/L | 0.01263734 | -0.0202859 | mg/L | 0.01263734 | 62.30% |
| Ti 334.940† | -360.8 | -0.0001032 | mg/L | 0.00009696 | -0.0001032 | mg/L | 0.00009696 | 94.00% |
| V 290.880† | 246.2 | 0.0211878 | mg/L | 0.00312630 | 0.0211878 | mg/L | 0.00312630 | 14.76% |
| Zn 206.200† | 65.4 | 0.0168454 | mg/L | 0.00163196 | 0.0168454 | mg/L | 0.00163196 | 9.69% |
| Si 251.611† | 24999.8 | 9.09367 | mg/L | 0.029133 | 9.09367 | mg/L | 0.029133 | 0.32% |
| B 249.772† | 112.5 | 0.0136877 | mg/L | 0.00052740 | 0.0136877 | mg/L | 0.00052740 | 3.85% |
| Ce 413.764† | -49.1 | -0.0150468 | mg/L | 0.01316940 | -0.0150468 | mg/L | 0.01316940 | 87.52% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 24 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/29/2021 4:42:14 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94026.0 | 100 | % | 0.64 | 100 | % | 0.64 | 0.64% |
| Y 371.029 | 36062.3 | 98.7 | % | 0.98 | 98.7 | % | 0.98 | 0.99% |
| Al 308.215† | 4635.2 | 4.94393 | mg/L | 0.016026 | 4.94393 | mg/L | 0.016026 | 0.32% |
| QC value within limits for Al 308.215 Recovery = 98.88% | | | | | | | | |
| Ba 233.527† | 2358.0 | 0.494618 | mg/L | 0.0022729 | 0.494618 | mg/L | 0.0022729 | 0.46% |
| QC value within limits for Ba 233.527 Recovery = 98.92% | | | | | | | | |
| Ca 315.887† | 255791.3 | 48.4942 | mg/L | 0.08224 | 48.4942 | mg/L | 0.08224 | 0.17% |
| QC value within limits for Ca 315.887 Recovery = 96.99% | | | | | | | | |
| Cu 327.393† | 2470.1 | 0.523976 | mg/L | 0.0053003 | 0.523976 | mg/L | 0.0053003 | 1.01% |
| QC value within limits for Cu 327.393 Recovery = 104.80% | | | | | | | | |
| Fe 273.955† | 5761.4 | 4.89018 | mg/L | 0.040576 | 4.89018 | mg/L | 0.040576 | 0.83% |
| QC value within limits for Fe 273.955 Recovery = 97.80% | | | | | | | | |
| K 766.490† | 92184.5 | 48.0868 | mg/L | 0.02837 | 48.0868 | mg/L | 0.02837 | 0.06% |
| QC value within limits for K 766.490 Recovery = 96.17% | | | | | | | | |
| Mg 279.077† | 32244.6 | 48.8502 | mg/L | 0.46916 | 48.8502 | mg/L | 0.46916 | 0.96% |
| QC value within limits for Mg 279.077 Recovery = 97.70% | | | | | | | | |
| Mn 257.610† | 14366.0 | 0.488103 | mg/L | 0.0036228 | 0.488103 | mg/L | 0.0036228 | 0.74% |
| QC value within limits for Mn 257.610 Recovery = 97.62% | | | | | | | | |
| Mo 202.031† | 693.9 | 0.486167 | mg/L | 0.0081574 | 0.486167 | mg/L | 0.0081574 | 1.68% |
| QC value within limits for Mo 202.031 Recovery = 97.23% | | | | | | | | |
| Na 589.592† | 475568.6 | 48.4481 | mg/L | 0.06045 | 48.4481 | mg/L | 0.06045 | 0.12% |
| QC value within limits for Na 589.592 Recovery = 96.90% | | | | | | | | |
| Ni 231.604† | 948.8 | 0.490062 | mg/L | 0.0018111 | 0.490062 | mg/L | 0.0018111 | 0.37% |
| QC value within limits for Ni 231.604 Recovery = 98.01% | | | | | | | | |
| Se 196.026† | 130.7 | 0.469155 | mg/L | 0.0050281 | 0.469155 | mg/L | 0.0050281 | 1.07% |
| QC value within limits for Se 196.026 Recovery = 93.83% | | | | | | | | |
| Sn 189.927† | 152.6 | 0.481110 | mg/L | 0.0176719 | 0.481110 | mg/L | 0.0176719 | 3.67% |
| QC value within limits for Sn 189.927 Recovery = 96.22% | | | | | | | | |
| Ti 334.940† | 22223.5 | 0.495128 | mg/L | 0.0038535 | 0.495128 | mg/L | 0.0038535 | 0.78% |
| QC value within limits for Ti 334.940 Recovery = 99.03% | | | | | | | | |
| V 290.880† | 4153.0 | 0.471081 | mg/L | 0.0058779 | 0.471081 | mg/L | 0.0058779 | 1.25% |
| QC value within limits for V 290.880 Recovery = 94.22% | | | | | | | | |
| Zn 206.200† | 1822.5 | 0.487531 | mg/L | 0.0035782 | 0.487531 | mg/L | 0.0035782 | 0.73% |
| QC value within limits for Zn 206.200 Recovery = 97.51% | | | | | | | | |
| Si 251.611† | 13448.0 | 4.87148 | mg/L | 0.036985 | 4.87148 | mg/L | 0.036985 | 0.76% |
| QC value within limits for Si 251.611 Recovery = 97.43% | | | | | | | | |
| B 249.772† | 3436.6 | 0.465853 | mg/L | 0.0053040 | 0.465853 | mg/L | 0.0053040 | 1.14% |
| QC value within limits for B 249.772 Recovery = 93.17% | | | | | | | | |
| Ce 413.764† | 2205.9 | 0.478175 | mg/L | 0.0103329 | 0.478175 | mg/L | 0.0103329 | 2.16% |
| QC value within limits for Ce 413.764 Recovery = 95.64% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 25 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 4:46:16 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94907.5 | 101 | % | 0.09 | 101 | % | 0.09 | 0.08% |
| Y 371.029 | 37819.3 | 103 | % | 0.08 | 103 | % | 0.08 | 0.08% |
| Al 308.215† | -3.2 | 0.0133547 | mg/L | 0.01272325 | 0.0133547 | mg/L | 0.01272325 | 95.27% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 4.1 | 0.0009976 | mg/L | 0.00070428 | 0.0009976 | mg/L | 0.00070428 | 70.60% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -40.6 | -0.0689522 | mg/L | 0.00345168 | -0.0689522 | mg/L | 0.00345168 | 5.01% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 19.8 | -0.0029445 | mg/L | 0.00278955 | -0.0029445 | mg/L | 0.00278955 | 94.74% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -3.1 | -0.0153062 | mg/L | 0.00295038 | -0.0153062 | mg/L | 0.00295038 | 19.28% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | 20.6 | 0.267834 | mg/L | 0.0094621 | 0.267834 | mg/L | 0.0094621 | 3.53% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 0.0 | -0.114979 | mg/L | 0.0140568 | -0.114979 | mg/L | 0.0140568 | 12.23% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -6.1 | -0.0014673 | mg/L | 0.00033854 | -0.0014673 | mg/L | 0.00033854 | 23.07% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 0.2 | 0.0034132 | mg/L | 0.00472604 | 0.0034132 | mg/L | 0.00472604 | 138.47% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 1196.4 | 0.146393 | mg/L | 0.0078953 | 0.146393 | mg/L | 0.0078953 | 5.39% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -2.9 | -0.0024788 | mg/L | 0.00145797 | -0.0024788 | mg/L | 0.00145797 | 58.82% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 2.1 | 0.0027238 | mg/L | 0.01292172 | 0.0027238 | mg/L | 0.01292172 | 474.41% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -0.7 | -0.0036335 | mg/L | 0.00546262 | -0.0036335 | mg/L | 0.00546262 | 150.34% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 47.5 | 0.0006772 | mg/L | 0.00060547 | 0.0006772 | mg/L | 0.00060547 | 89.40% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -2.6 | 0.0001675 | mg/L | 0.00129982 | 0.0001675 | mg/L | 0.00129982 | 776.18% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -6.7 | -0.0024774 | mg/L | 0.00100024 | -0.0024774 | mg/L | 0.00100024 | 40.37% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 11.3 | -0.0396525 | mg/L | 0.00049054 | -0.0396525 | mg/L | 0.00049054 | 1.24% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 16.3 | 0.0001493 | mg/L | 0.00044141 | 0.0001493 | mg/L | 0.00044141 | 295.58% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -55.8 | -0.0164986 | mg/L | 0.00428594 | -0.0164986 | mg/L | 0.00428594 | 25.98% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 26
Autosampler Location: 93
Sample ID: AD26083-007
Date Collected: 9/29/2021 4:50:07 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-007

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94150.9 | 101 | % | 0.47 | 101 | % | 0.47 | 0.47% |
| Y 371.029 | 36633.1 | 100 | % | 0.69 | 100 | % | 0.69 | 0.69% |
| Al 308.215† | 2.7 | 0.0217968 | mg/L | 0.00322425 | 0.0217968 | mg/L | 0.00322425 | 14.79% |
| Ba 233.527† | 1173.0 | 0.247434 | mg/L | 0.0010261 | 0.247434 | mg/L | 0.0010261 | 0.41% |
| Ca 315.887† | 229449.3 | 43.4938 | mg/L | 0.06039 | 43.4938 | mg/L | 0.06039 | 0.14% |
| Cu 327.393† | -25.3 | 0.0080014 | mg/L | 0.00067380 | 0.0080014 | mg/L | 0.00067380 | 8.42% |
| Fe 273.955† | 79.3 | 0.0547712 | mg/L | 0.00163585 | 0.0547712 | mg/L | 0.00163585 | 2.99% |
| K 766.490† | 1952.7 | 1.27032 | mg/L | 0.026927 | 1.27032 | mg/L | 0.026927 | 2.12% |
| Mg 279.077† | 11039.2 | 16.6486 | mg/L | 0.08250 | 16.6486 | mg/L | 0.08250 | 0.50% |
| Mn 257.610† | 9985.1 | 0.335621 | mg/L | 0.0009452 | 0.335621 | mg/L | 0.0009452 | 0.28% |
| Mo 202.031† | -0.7 | 0.0028102 | mg/L | 0.00427294 | 0.0028102 | mg/L | 0.00427294 | 152.05% |
| Na 589.592† | 87176.1 | 8.90105 | mg/L | 0.002409 | 8.90105 | mg/L | 0.002409 | 0.03% |
| Ni 231.604† | -4.1 | -0.0030814 | mg/L | 0.00443963 | -0.0030814 | mg/L | 0.00443963 | 144.08% |
| Se 196.026† | 1.9 | 0.0019982 | mg/L | 0.03496742 | 0.0019982 | mg/L | 0.03496742 | >999.9% |
| Sn 189.927† | -8.7 | -0.0210049 | mg/L | 0.00399205 | -0.0210049 | mg/L | 0.00399205 | 19.01% |
| Ti 334.940† | -332.7 | -0.0005844 | mg/L | 0.00069015 | -0.0005844 | mg/L | 0.00069015 | 118.10% |
| V 290.880† | 212.1 | 0.0187700 | mg/L | 0.00388634 | 0.0187700 | mg/L | 0.00388634 | 20.71% |
| Zn 206.200† | 49.0 | 0.0124583 | mg/L | 0.00017250 | 0.0124583 | mg/L | 0.00017250 | 1.38% |
| Si 251.611† | 20188.8 | 7.33523 | mg/L | 0.015485 | 7.33523 | mg/L | 0.015485 | 0.21% |
| B 249.772† | 88.2 | 0.0100795 | mg/L | 0.00053389 | 0.0100795 | mg/L | 0.00053389 | 5.30% |
| Ce 413.764† | 8.7 | -0.0023995 | mg/L | 0.00250141 | -0.0023995 | mg/L | 0.00250141 | 104.25% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 27
Autosampler Location: 94
Sample ID: AD26083-013
Date Collected: 9/29/2021 4:54:00 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-013

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 95532.6 | 102 | % | 0.94 | 102 | % | 0.94 | 0.92% |
| Y 371.029 | 37390.4 | 102 | % | 0.99 | 102 | % | 0.99 | 0.97% |
| Al 308.215† | 17.9 | 0.0361163 | mg/L | 0.01396752 | 0.0361163 | mg/L | 0.01396752 | 38.67% |
| Ba 233.527† | 490.6 | 0.0956356 | mg/L | 0.00021527 | 0.0956356 | mg/L | 0.00021527 | 0.23% |
| Ca 315.887† | 35245.1 | 6.62912 | mg/L | 0.022313 | 6.62912 | mg/L | 0.022313 | 0.34% |
| Cu 327.393† | 23.4 | 0.0008931 | mg/L | 0.00632845 | 0.0008931 | mg/L | 0.00632845 | 708.59% |
| Fe 273.955† | 16812.9 | 14.2949 | mg/L | 0.03125 | 14.2949 | mg/L | 0.03125 | 0.22% |
| K 766.490† | 4858.7 | 2.77811 | mg/L | 0.017103 | 2.77811 | mg/L | 0.017103 | 0.62% |
| Mg 279.077† | 2895.3 | 4.28160 | mg/L | 0.025927 | 4.28160 | mg/L | 0.025927 | 0.61% |
| Mn 257.610† | 16426.2 | 0.548576 | mg/L | 0.0008751 | 0.548576 | mg/L | 0.0008751 | 0.16% |
| Mo 202.031† | -4.6 | 0.0001293 | mg/L | 0.00460137 | 0.0001293 | mg/L | 0.00460137 | >999.9% |
| Na 589.592† | 64336.6 | 6.57547 | mg/L | 0.013373 | 6.57547 | mg/L | 0.013373 | 0.20% |
| Ni 231.604† | -6.4 | 0.0010853 | mg/L | 0.00301377 | 0.0010853 | mg/L | 0.00301377 | 277.68% |
| Se 196.026† | 2.2 | 0.0166264 | mg/L | 0.00496857 | 0.0166264 | mg/L | 0.00496857 | 29.88% |
| Sn 189.927† | -4.7 | -0.0145449 | mg/L | 0.00523630 | -0.0145449 | mg/L | 0.00523630 | 36.00% |
| Ti 334.940† | 1.5 | 0.0007568 | mg/L | 0.00045792 | 0.0007568 | mg/L | 0.00045792 | 60.51% |
| V 290.880† | 42.1 | 0.0036724 | mg/L | 0.00170504 | 0.0036724 | mg/L | 0.00170504 | 46.43% |
| Zn 206.200† | 65.8 | 0.0169569 | mg/L | 0.00158037 | 0.0169569 | mg/L | 0.00158037 | 9.32% |
| Si 251.611† | 10203.2 | 3.68548 | mg/L | 0.004237 | 3.68548 | mg/L | 0.004237 | 0.11% |
| B 249.772† | 397.6 | -0.0035671 | mg/L | 0.00204634 | -0.0035671 | mg/L | 0.00204634 | 57.37% |
| Ce 413.764† | -52.4 | -0.0157720 | mg/L | 0.00630262 | -0.0157720 | mg/L | 0.00630262 | 39.96% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 28
Autosampler Location: 95
Sample ID: AD26083-015
Date Collected: 9/29/2021 4:57:53 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-015

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92775.9 | 99.2 | % | 0.47 | 99.2 | % | 0.47 | 0.47% |
| Y 371.029 | 36628.7 | 100 | % | 0.43 | 100 | % | 0.43 | 0.43% |
| Al 308.215† | 13.0 | 0.0312375 | mg/L | 0.00958592 | 0.0312375 | mg/L | 0.00958592 | 30.69% |
| Ba 233.527† | 472.0 | 0.0995709 | mg/L | 0.00167971 | 0.0995709 | mg/L | 0.00167971 | 1.69% |
| Ca 315.887† | 85166.7 | 16.1055 | mg/L | 0.01057 | 16.1055 | mg/L | 0.01057 | 0.07% |
| Cu 327.393† | 35.7 | 0.0078424 | mg/L | 0.00752573 | 0.0078424 | mg/L | 0.00752573 | 95.96% |
| Fe 273.955† | 207.5 | 0.163931 | mg/L | 0.0049478 | 0.163931 | mg/L | 0.0049478 | 3.02% |
| K 766.490† | 1983.4 | 1.28626 | mg/L | 0.005817 | 1.28626 | mg/L | 0.005817 | 0.45% |
| Mg 279.077† | 5354.2 | 8.01567 | mg/L | 0.026746 | 8.01567 | mg/L | 0.026746 | 0.33% |
| Mn 257.610† | 2282.1 | 0.0765410 | mg/L | 0.00118202 | 0.0765410 | mg/L | 0.00118202 | 1.54% |
| Mo 202.031† | -3.1 | 0.0011567 | mg/L | 0.00207373 | 0.0011567 | mg/L | 0.00207373 | 179.29% |
| Na 589.592† | 859796.4 | 87.5710 | mg/L | 0.67703 | 87.5710 | mg/L | 0.67703 | 0.77% |
| Ni 231.604† | -4.2 | -0.0030597 | mg/L | 0.00365134 | -0.0030597 | mg/L | 0.00365134 | 119.34% |
| Se 196.026† | 5.0 | 0.0131800 | mg/L | 0.01477243 | 0.0131800 | mg/L | 0.01477243 | 112.08% |
| Sn 189.927† | -4.8 | -0.0133620 | mg/L | 0.00764713 | -0.0133620 | mg/L | 0.00764713 | 57.23% |
| Ti 334.940† | -76.4 | 0.0005870 | mg/L | 0.00083864 | 0.0005870 | mg/L | 0.00083864 | 142.86% |
| V 290.880† | 80.6 | 0.0067185 | mg/L | 0.00084758 | 0.0067185 | mg/L | 0.00084758 | 12.62% |
| Zn 206.200† | 68.1 | 0.0175795 | mg/L | 0.00137202 | 0.0175795 | mg/L | 0.00137202 | 7.80% |
| Si 251.611† | 18086.6 | 6.56690 | mg/L | 0.011995 | 6.56690 | mg/L | 0.011995 | 0.18% |
| B 249.772† | 253.4 | 0.0330879 | mg/L | 0.00053787 | 0.0330879 | mg/L | 0.00053787 | 1.63% |
| Ce 413.764† | -9.1 | -0.0062924 | mg/L | 0.00488690 | -0.0062924 | mg/L | 0.00488690 | 77.66% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 29
Autosampler Location: 96
Sample ID: AD26083-017
Date Collected: 9/29/2021 5:01:59 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-017

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93674.9 | 100 | % | 0.36 | 100 | % | 0.36 | 0.36% |
| Y 371.029 | 36502.2 | 99.9 | % | 0.60 | 99.9 | % | 0.60 | 0.60% |
| Al 308.215† | 5.3 | 0.0232699 | mg/L | 0.00959187 | 0.0232699 | mg/L | 0.00959187 | 41.22% |
| Ba 233.527† | 694.5 | 0.146526 | mg/L | 0.0012364 | 0.146526 | mg/L | 0.0012364 | 0.84% |
| Ca 315.887† | 165705.1 | 31.3936 | mg/L | 0.03261 | 31.3936 | mg/L | 0.03261 | 0.10% |
| Cu 327.393† | -0.4 | 0.0074974 | mg/L | 0.00275247 | 0.0074974 | mg/L | 0.00275247 | 36.71% |
| Fe 273.955† | 90.5 | 0.0643547 | mg/L | 0.00371568 | 0.0643547 | mg/L | 0.00371568 | 5.77% |
| K 766.490† | 3251.9 | 1.94442 | mg/L | 0.007567 | 1.94442 | mg/L | 0.007567 | 0.39% |
| Mg 279.077† | 5463.0 | 8.18082 | mg/L | 0.029170 | 8.18082 | mg/L | 0.029170 | 0.36% |
| Mn 257.610† | 4211.9 | 0.141072 | mg/L | 0.0001879 | 0.141072 | mg/L | 0.0001879 | 0.13% |
| Mo 202.031† | -1.9 | 0.0019853 | mg/L | 0.00171409 | 0.0019853 | mg/L | 0.00171409 | 86.34% |
| Na 589.592† | 106147.9 | 10.8328 | mg/L | 0.01529 | 10.8328 | mg/L | 0.01529 | 0.14% |
| Ni 231.604† | -5.4 | -0.0037241 | mg/L | 0.00810008 | -0.0037241 | mg/L | 0.00810008 | 217.50% |
| Se 196.026† | 2.1 | 0.0025483 | mg/L | 0.00680954 | 0.0025483 | mg/L | 0.00680954 | 267.22% |
| Sn 189.927† | -3.7 | -0.0084800 | mg/L | 0.01207951 | -0.0084800 | mg/L | 0.01207951 | 142.45% |
| Ti 334.940† | -190.1 | 0.0005776 | mg/L | 0.00082597 | 0.0005776 | mg/L | 0.00082597 | 143.00% |
| V 290.880† | 85.5 | 0.0072248 | mg/L | 0.00033431 | 0.0072248 | mg/L | 0.00033431 | 4.63% |
| Zn 206.200† | 57.1 | 0.0146310 | mg/L | 0.00090242 | 0.0146310 | mg/L | 0.00090242 | 6.17% |
| Si 251.611† | 16155.8 | 5.86119 | mg/L | 0.017082 | 5.86119 | mg/L | 0.017082 | 0.29% |
| B 249.772† | 187.2 | 0.0240897 | mg/L | 0.00138746 | 0.0240897 | mg/L | 0.00138746 | 5.76% |
| Ce 413.764† | -34.1 | -0.0117541 | mg/L | 0.00545492 | -0.0117541 | mg/L | 0.00545492 | 46.41% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 30 Autosampler Location: 97
Sample ID: AD26083-020 Date Collected: 9/29/2021 5:05:48 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-020

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89051.1 | 95.2 | % | 0.79 | 95.2 | % | 0.79 | 0.83% |
| Y 371.029 | 34970.0 | 95.7 | % | 1.00 | 95.7 | % | 1.00 | 1.05% |
| Al 308.215† | 4.2 | 0.0252299 | mg/L | 0.01276418 | 0.0252299 | mg/L | 0.01276418 | 50.59% |
| Ba 233.527† | 302.2 | 0.0635395 | mg/L | 0.00100504 | 0.0635395 | mg/L | 0.00100504 | 1.58% |
| Ca 315.887† | 132072.1 | 25.0093 | mg/L | 0.06354 | 25.0093 | mg/L | 0.06354 | 0.25% |
| Cu 327.393† | -24.5 | -0.0004242 | mg/L | 0.00239723 | -0.0004242 | mg/L | 0.00239723 | 565.10% |
| Fe 273.955† | 658.9 | 0.548002 | mg/L | 0.0068393 | 0.548002 | mg/L | 0.0068393 | 1.25% |
| K 766.490† | 47614.9 | 24.9620 | mg/L | 0.05291 | 24.9620 | mg/L | 0.05291 | 0.21% |
| Mg 279.077† | 22552.6 | 34.1324 | mg/L | 0.09193 | 34.1324 | mg/L | 0.09193 | 0.27% |
| Mn 257.610† | 2555.7 | 0.0905967 | mg/L | 0.00054909 | 0.0905967 | mg/L | 0.00054909 | 0.61% |
| Mo 202.031† | 2.1 | 0.0047832 | mg/L | 0.00195200 | 0.0047832 | mg/L | 0.00195200 | 40.81% |
| Na 589.592† | 4334078.5 | 441.330 | mg/L | 4.4553 | 441.330 | mg/L | 4.4553 | 1.01% |
| Ni 231.604† | 0.0 | -0.0007461 | mg/L | 0.00456489 | -0.0007461 | mg/L | 0.00456489 | 611.82% |
| Se 196.026† | -0.5 | -0.0062912 | mg/L | 0.01714868 | -0.0062912 | mg/L | 0.01714868 | 272.58% |
| Sn 189.927† | -11.5 | -0.0289945 | mg/L | 0.00307965 | -0.0289945 | mg/L | 0.00307965 | 10.62% |
| Ti 334.940† | -199.1 | -0.0006583 | mg/L | 0.00022583 | -0.0006583 | mg/L | 0.00022583 | 34.30% |
| V 290.880† | 383.4 | 0.0319501 | mg/L | 0.00403469 | 0.0319501 | mg/L | 0.00403469 | 12.63% |
| Zn 206.200† | 2.8 | 0.0000775 | mg/L | 0.00086747 | 0.0000775 | mg/L | 0.00086747 | >999.9% |
| Si 251.611† | 22864.2 | 8.31312 | mg/L | 0.020446 | 8.31312 | mg/L | 0.020446 | 0.25% |
| B 249.772† | 2366.4 | 0.331483 | mg/L | 0.0045793 | 0.331483 | mg/L | 0.0045793 | 1.38% |
| Ce 413.764† | -22.0 | -0.0091077 | mg/L | 0.00069470 | -0.0091077 | mg/L | 0.00069470 | 7.63% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 31 Autosampler Location: 98
Sample ID: AD26083-022 Date Collected: 9/29/2021 5:09:59 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-022

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93538.2 | 100.0 | % | 0.85 | 100.0 | % | 0.85 | 0.85% |
| Y 371.029 | 35932.2 | 98.3 | % | 0.87 | 98.3 | % | 0.87 | 0.88% |
| Al 308.215† | 18.3 | 0.0369017 | mg/L | 0.00783150 | 0.0369017 | mg/L | 0.00783150 | 21.22% |
| Ba 233.527† | 780.0 | 0.164484 | mg/L | 0.0010020 | 0.164484 | mg/L | 0.0010020 | 0.61% |
| Ca 315.887† | 155002.0 | 29.3619 | mg/L | 0.03889 | 29.3619 | mg/L | 0.03889 | 0.13% |
| Cu 327.393† | 13.9 | 0.0094996 | mg/L | 0.00451622 | 0.0094996 | mg/L | 0.00451622 | 47.54% |
| Fe 273.955† | 270.0 | 0.217091 | mg/L | 0.0066220 | 0.217091 | mg/L | 0.0066220 | 3.05% |
| K 766.490† | 4107.7 | 2.38843 | mg/L | 0.045517 | 2.38843 | mg/L | 0.045517 | 1.91% |
| Mg 279.077† | 5987.8 | 8.97771 | mg/L | 0.156791 | 8.97771 | mg/L | 0.156791 | 1.75% |
| Mn 257.610† | 4974.5 | 0.166710 | mg/L | 0.0025862 | 0.166710 | mg/L | 0.0025862 | 1.55% |
| Mo 202.031† | 0.1 | 0.0033706 | mg/L | 0.00185448 | 0.0033706 | mg/L | 0.00185448 | 55.02% |
| Na 589.592† | 167560.7 | 17.0860 | mg/L | 0.04245 | 17.0860 | mg/L | 0.04245 | 0.25% |
| Ni 231.604† | 2.8 | 0.0005591 | mg/L | 0.00084597 | 0.0005591 | mg/L | 0.00084597 | 151.32% |
| Se 196.026† | 2.5 | 0.0042378 | mg/L | 0.01364195 | 0.0042378 | mg/L | 0.01364195 | 321.91% |
| Sn 189.927† | -5.1 | -0.0128402 | mg/L | 0.00539605 | -0.0128402 | mg/L | 0.00539605 | 42.02% |
| Ti 334.940† | -155.6 | 0.0010038 | mg/L | 0.00039747 | 0.0010038 | mg/L | 0.00039747 | 39.60% |
| V 290.880† | 89.1 | 0.0073322 | mg/L | 0.00163518 | 0.0073322 | mg/L | 0.00163518 | 22.30% |
| Zn 206.200† | 143.4 | 0.0377415 | mg/L | 0.00100156 | 0.0377415 | mg/L | 0.00100156 | 2.65% |
| Si 251.611† | 16626.2 | 6.03312 | mg/L | 0.102935 | 6.03312 | mg/L | 0.102935 | 1.71% |
| B 249.772† | 421.7 | 0.0567619 | mg/L | 0.00069703 | 0.0567619 | mg/L | 0.00069703 | 1.23% |
| Ce 413.764† | 5.6 | -0.0030819 | mg/L | 0.01368981 | -0.0030819 | mg/L | 0.01368981 | 444.19% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 32 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/29/2021 5:14:08 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92917.0 | 99.3 | % | 0.21 | 99.3 | % | 0.21 | 0.21% |
| Y 371.029 | 35688.4 | 97.7 | % | 0.54 | 97.7 | % | 0.54 | 0.55% |
| Al 308.215† | 4671.0 | 4.98227 | mg/L | 0.039241 | 4.98227 | mg/L | 0.039241 | 0.79% |
| QC value within limits for Al 308.215 Recovery = 99.65% | | | | | | | | |
| Ba 233.527† | 2356.4 | 0.494258 | mg/L | 0.0017855 | 0.494258 | mg/L | 0.0017855 | 0.36% |
| QC value within limits for Ba 233.527 Recovery = 98.85% | | | | | | | | |
| Ca 315.887† | 256801.1 | 48.6858 | mg/L | 0.01557 | 48.6858 | mg/L | 0.01557 | 0.03% |
| QC value within limits for Ca 315.887 Recovery = 97.37% | | | | | | | | |
| Cu 327.393† | 2493.4 | 0.528860 | mg/L | 0.0060150 | 0.528860 | mg/L | 0.0060150 | 1.14% |
| QC value within limits for Cu 327.393 Recovery = 105.77% | | | | | | | | |
| Fe 273.955† | 5804.3 | 4.92673 | mg/L | 0.060518 | 4.92673 | mg/L | 0.060518 | 1.23% |
| QC value within limits for Fe 273.955 Recovery = 98.53% | | | | | | | | |
| K 766.490† | 92511.0 | 48.2562 | mg/L | 0.11493 | 48.2562 | mg/L | 0.11493 | 0.24% |
| QC value within limits for K 766.490 Recovery = 96.51% | | | | | | | | |
| Mg 279.077† | 32428.2 | 49.1291 | mg/L | 0.31418 | 49.1291 | mg/L | 0.31418 | 0.64% |
| QC value within limits for Mg 279.077 Recovery = 98.26% | | | | | | | | |
| Mn 257.610† | 14410.6 | 0.489645 | mg/L | 0.0027649 | 0.489645 | mg/L | 0.0027649 | 0.56% |
| QC value within limits for Mn 257.610 Recovery = 97.93% | | | | | | | | |
| Mo 202.031† | 695.8 | 0.487501 | mg/L | 0.0029324 | 0.487501 | mg/L | 0.0029324 | 0.60% |
| QC value within limits for Mo 202.031 Recovery = 97.50% | | | | | | | | |
| Na 589.592† | 477546.8 | 48.6495 | mg/L | 0.09504 | 48.6495 | mg/L | 0.09504 | 0.20% |
| QC value within limits for Na 589.592 Recovery = 97.30% | | | | | | | | |
| Ni 231.604† | 952.2 | 0.491815 | mg/L | 0.0058041 | 0.491815 | mg/L | 0.0058041 | 1.18% |
| QC value within limits for Ni 231.604 Recovery = 98.36% | | | | | | | | |
| Se 196.026† | 133.4 | 0.479043 | mg/L | 0.0286864 | 0.479043 | mg/L | 0.0286864 | 5.99% |
| QC value within limits for Se 196.026 Recovery = 95.81% | | | | | | | | |
| Sn 189.927† | 155.3 | 0.489555 | mg/L | 0.0100212 | 0.489555 | mg/L | 0.0100212 | 2.05% |
| QC value within limits for Sn 189.927 Recovery = 97.91% | | | | | | | | |
| Ti 334.940† | 22375.3 | 0.498490 | mg/L | 0.0027297 | 0.498490 | mg/L | 0.0027297 | 0.55% |
| QC value within limits for Ti 334.940 Recovery = 99.70% | | | | | | | | |
| V 290.880† | 4207.7 | 0.477428 | mg/L | 0.0052851 | 0.477428 | mg/L | 0.0052851 | 1.11% |
| QC value within limits for V 290.880 Recovery = 95.49% | | | | | | | | |
| Zn 206.200† | 1822.8 | 0.487618 | mg/L | 0.0042253 | 0.487618 | mg/L | 0.0042253 | 0.87% |
| QC value within limits for Zn 206.200 Recovery = 97.52% | | | | | | | | |
| Si 251.611† | 13522.5 | 4.89869 | mg/L | 0.027765 | 4.89869 | mg/L | 0.027765 | 0.57% |
| QC value within limits for Si 251.611 Recovery = 97.97% | | | | | | | | |
| B 249.772† | 3446.4 | 0.467091 | mg/L | 0.0011854 | 0.467091 | mg/L | 0.0011854 | 0.25% |
| QC value within limits for B 249.772 Recovery = 93.42% | | | | | | | | |
| Ce 413.764† | 2186.9 | 0.474028 | mg/L | 0.0107895 | 0.474028 | mg/L | 0.0107895 | 2.28% |
| QC value within limits for Ce 413.764 Recovery = 94.81% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 33 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 5:18:16 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92934.8 | 99.3 | % | 0.77 | 99.3 | % | 0.77 | 0.78% |
| Y 371.029 | 37171.4 | 102 | % | 0.66 | 102 | % | 0.66 | 0.65% |
| Al 308.215† | 5.2 | 0.0222020 | mg/L | 0.01108247 | 0.0222020 | mg/L | 0.01108247 | 49.92% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 1.0 | 0.0003419 | mg/L | 0.00043508 | 0.0003419 | mg/L | 0.00043508 | 127.27% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -26.3 | -0.0662414 | mg/L | 0.00614514 | -0.0662414 | mg/L | 0.00614514 | 9.28% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 49.0 | 0.0030616 | mg/L | 0.00184867 | 0.0030616 | mg/L | 0.00184867 | 60.38% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 9.2 | -0.0048947 | mg/L | 0.00131480 | -0.0048947 | mg/L | 0.00131480 | 26.86% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -115.4 | 0.197296 | mg/L | 0.0076844 | 0.197296 | mg/L | 0.0076844 | 3.89% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 6.5 | -0.105137 | mg/L | 0.0154258 | -0.105137 | mg/L | 0.0154258 | 14.67% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -2.1 | -0.0013322 | mg/L | 0.00034402 | -0.0013322 | mg/L | 0.00034402 | 25.82% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -1.0 | 0.0025802 | mg/L | 0.00215742 | 0.0025802 | mg/L | 0.00215742 | 83.61% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -57.8 | 0.0186931 | mg/L | 0.00799011 | 0.0186931 | mg/L | 0.00799011 | 42.74% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -6.1 | -0.0041513 | mg/L | 0.00406885 | -0.0041513 | mg/L | 0.00406885 | 98.01% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 1.8 | 0.0014043 | mg/L | 0.01124008 | 0.0014043 | mg/L | 0.01124008 | 800.42% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.3 | -0.0086938 | mg/L | 0.00755723 | -0.0086938 | mg/L | 0.00755723 | 86.93% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 28.2 | 0.0002542 | mg/L | 0.00070539 | 0.0002542 | mg/L | 0.00070539 | 277.52% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 2.4 | 0.0007488 | mg/L | 0.00043342 | 0.0007488 | mg/L | 0.00043342 | 57.88% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -3.0 | -0.0014825 | mg/L | 0.00122641 | -0.0014825 | mg/L | 0.00122641 | 82.73% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 10.9 | -0.0397931 | mg/L | 0.00172294 | -0.0397931 | mg/L | 0.00172294 | 4.33% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 6.4 | -0.0012996 | mg/L | 0.00128756 | -0.0012996 | mg/L | 0.00128756 | 99.07% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -45.1 | -0.0141617 | mg/L | 0.00767175 | -0.0141617 | mg/L | 0.00767175 | 54.17% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 34 Autosampler Location: 99
Sample ID: AD26083-024 Date Collected: 9/29/2021 5:22:08 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-024

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93410.0 | 99.8 | % | 0.74 | 99.8 | % | 0.74 | 0.74% |
| Y 371.029 | 36488.2 | 99.8 | % | 0.41 | 99.8 | % | 0.41 | 0.41% |
| Al 308.215† | 12.9 | 0.0313022 | mg/L | 0.00958997 | 0.0313022 | mg/L | 0.00958997 | 30.64% |
| Ba 233.527† | 729.6 | 0.153892 | mg/L | 0.0003062 | 0.153892 | mg/L | 0.0003062 | 0.20% |
| Ca 315.887† | 144966.3 | 27.4569 | mg/L | 0.04405 | 27.4569 | mg/L | 0.04405 | 0.16% |
| Cu 327.393† | -18.4 | 0.0019780 | mg/L | 0.00214316 | 0.0019780 | mg/L | 0.00214316 | 108.35% |
| Fe 273.955† | 197.4 | 0.155301 | mg/L | 0.0061317 | 0.155301 | mg/L | 0.0061317 | 3.95% |
| K 766.490† | 3773.5 | 2.21502 | mg/L | 0.039564 | 2.21502 | mg/L | 0.039564 | 1.79% |
| Mg 279.077† | 5681.1 | 8.51209 | mg/L | 0.049095 | 8.51209 | mg/L | 0.049095 | 0.58% |
| Mn 257.610† | 4703.3 | 0.157559 | mg/L | 0.0008970 | 0.157559 | mg/L | 0.0008970 | 0.57% |
| Mo 202.031† | 0.3 | 0.0035143 | mg/L | 0.00092788 | 0.0035143 | mg/L | 0.00092788 | 26.40% |
| Na 589.592† | 154079.3 | 15.7133 | mg/L | 0.03274 | 15.7133 | mg/L | 0.03274 | 0.21% |
| Ni 231.604† | 0.4 | -0.0007024 | mg/L | 0.00424953 | -0.0007024 | mg/L | 0.00424953 | 605.00% |
| Se 196.026† | -4.6 | -0.0212222 | mg/L | 0.00790720 | -0.0212222 | mg/L | 0.00790720 | 37.26% |
| Sn 189.927† | -2.2 | -0.0042124 | mg/L | 0.00634866 | -0.0042124 | mg/L | 0.00634866 | 150.72% |
| Ti 334.940† | -177.0 | 0.0002246 | mg/L | 0.00005807 | 0.0002246 | mg/L | 0.00005807 | 25.85% |
| V 290.880† | 93.3 | 0.0080156 | mg/L | 0.00106998 | 0.0080156 | mg/L | 0.00106998 | 13.35% |
| Zn 206.200† | 61.4 | 0.0157827 | mg/L | 0.00117340 | 0.0157827 | mg/L | 0.00117340 | 7.43% |
| Si 251.611† | 15713.3 | 5.69943 | mg/L | 0.048948 | 5.69943 | mg/L | 0.048948 | 0.86% |
| B 249.772† | 391.1 | 0.0526700 | mg/L | 0.00038958 | 0.0526700 | mg/L | 0.00038958 | 0.74% |
| Ce 413.764† | -38.8 | -0.0127828 | mg/L | 0.00892160 | -0.0127828 | mg/L | 0.00892160 | 69.79% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 35 Autosampler Location: 100
Sample ID: AD26083-029 Date Collected: 9/29/2021 5:26:14 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-029

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90860.6 | 97.1 | % | 0.63 | 97.1 | % | 0.63 | 0.65% |
| Y 371.029 | 34974.9 | 95.7 | % | 0.61 | 95.7 | % | 0.61 | 0.63% |
| Al 308.215† | 139.9 | 0.170903 | mg/L | 0.0066609 | 0.170903 | mg/L | 0.0066609 | 3.90% |
| Ba 233.527† | 5988.9 | 1.26273 | mg/L | 0.011442 | 1.26273 | mg/L | 0.011442 | 0.91% |
| Ca 315.887† | 1004095.2 | 190.540 | mg/L | 2.0031 | 190.540 | mg/L | 2.0031 | 1.05% |
| Cu 327.393† | -261.9 | 0.0276068 | mg/L | 0.00085502 | 0.0276068 | mg/L | 0.00085502 | 3.10% |
| Fe 273.955† | 468.3 | 0.385812 | mg/L | 0.0070729 | 0.385812 | mg/L | 0.0070729 | 1.83% |
| K 766.490† | 11423.0 | 6.18394 | mg/L | 0.014776 | 6.18394 | mg/L | 0.014776 | 0.24% |
| Mg 279.077† | 37165.2 | 56.3224 | mg/L | 0.04440 | 56.3224 | mg/L | 0.04440 | 0.08% |
| Mn 257.610† | 18302.2 | 0.621069 | mg/L | 0.0010494 | 0.621069 | mg/L | 0.0010494 | 0.17% |
| Mo 202.031† | -8.1 | -0.0023711 | mg/L | 0.00229443 | -0.0023711 | mg/L | 0.00229443 | 96.76% |
| Na 589.592† | 1649477.3 | 167.978 | mg/L | 1.5643 | 167.978 | mg/L | 1.5643 | 0.93% |
| Ni 231.604† | -9.2 | -0.0056121 | mg/L | 0.00273450 | -0.0056121 | mg/L | 0.00273450 | 48.72% |
| Se 196.026† | 4.9 | 0.0128849 | mg/L | 0.01387737 | 0.0128849 | mg/L | 0.01387737 | 107.70% |
| Sn 189.927† | -30.5 | -0.0663441 | mg/L | 0.01901946 | -0.0663441 | mg/L | 0.01901946 | 28.67% |
| Ti 334.940† | -1028.5 | 0.0080514 | mg/L | 0.00031212 | 0.0080514 | mg/L | 0.00031212 | 3.88% |
| V 290.880† | 585.2 | 0.0468438 | mg/L | 0.00150087 | 0.0468438 | mg/L | 0.00150087 | 3.20% |
| Zn 206.200† | 94.5 | 0.0246524 | mg/L | 0.00047567 | 0.0246524 | mg/L | 0.00047567 | 1.93% |
| Si 251.611† | 14930.5 | 5.41332 | mg/L | 0.003874 | 5.41332 | mg/L | 0.003874 | 0.07% |
| B 249.772† | 1549.4 | 0.216162 | mg/L | 0.0022408 | 0.216162 | mg/L | 0.0022408 | 1.04% |
| Ce 413.764† | -11.1 | -0.0067260 | mg/L | 0.01253038 | -0.0067260 | mg/L | 0.01253038 | 186.30% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 36
Autosampler Location: 101
Sample ID: AD26083-031
Date Collected: 9/29/2021 5:30:24 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-031

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90897.8 | 97.1 | % | 0.24 | 97.1 | % | 0.24 | 0.24% |
| Y 371.029 | 36085.4 | 98.7 | % | 0.21 | 98.7 | % | 0.21 | 0.21% |
| Al 308.215† | -4.5 | 0.0126876 | mg/L | 0.00473698 | 0.0126876 | mg/L | 0.00473698 | 37.34% |
| Ba 233.527† | 429.4 | 0.0906626 | mg/L | 0.00074924 | 0.0906626 | mg/L | 0.00074924 | 0.83% |
| Ca 315.887† | 25327.1 | 4.74644 | mg/L | 0.009039 | 4.74644 | mg/L | 0.009039 | 0.19% |
| Cu 327.393† | 57.3 | 0.0070043 | mg/L | 0.00269473 | 0.0070043 | mg/L | 0.00269473 | 38.47% |
| Fe 273.955† | 26.7 | 0.0100332 | mg/L | 0.00168516 | 0.0100332 | mg/L | 0.00168516 | 16.80% |
| K 766.490† | 12052.4 | 6.51050 | mg/L | 0.020789 | 6.51050 | mg/L | 0.020789 | 0.32% |
| Mg 279.077† | 3150.8 | 4.66963 | mg/L | 0.059253 | 4.66963 | mg/L | 0.059253 | 1.27% |
| Mn 257.610† | 943.3 | 0.0311628 | mg/L | 0.00025786 | 0.0311628 | mg/L | 0.00025786 | 0.83% |
| Mo 202.031† | -2.5 | 0.0015773 | mg/L | 0.00102575 | 0.0015773 | mg/L | 0.00102575 | 65.03% |
| Na 589.592† | 647802.8 | 65.9853 | mg/L | 0.07707 | 65.9853 | mg/L | 0.07707 | 0.12% |
| Ni 231.604† | -4.0 | -0.0030255 | mg/L | 0.00692897 | -0.0030255 | mg/L | 0.00692897 | 229.02% |
| Se 196.026† | 1.2 | -0.0004335 | mg/L | 0.01261565 | -0.0004335 | mg/L | 0.01261565 | >999.9% |
| Sn 189.927† | -1.0 | -0.0034431 | mg/L | 0.01006707 | -0.0034431 | mg/L | 0.01006707 | 292.38% |
| Ti 334.940† | -4.3 | 0.0003238 | mg/L | 0.00079941 | 0.0003238 | mg/L | 0.00079941 | 246.85% |
| V 290.880† | 62.4 | 0.0059146 | mg/L | 0.00096030 | 0.0059146 | mg/L | 0.00096030 | 16.24% |
| Zn 206.200† | 14.6 | 0.0032473 | mg/L | 0.00144141 | 0.0032473 | mg/L | 0.00144141 | 44.39% |
| Si 251.611† | 12606.2 | 4.56381 | mg/L | 0.003657 | 4.56381 | mg/L | 0.003657 | 0.08% |
| B 249.772† | 713.7 | 0.0990554 | mg/L | 0.00071338 | 0.0990554 | mg/L | 0.00071338 | 0.72% |
| Ce 413.764† | -47.5 | -0.0146972 | mg/L | 0.00578925 | -0.0146972 | mg/L | 0.00578925 | 39.39% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 37
Autosampler Location: 102
Sample ID: AD26083-037
Date Collected: 9/29/2021 5:34:32 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-037

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 84733.9 | 90.6 | % | 0.31 | 90.6 | % | 0.31 | 0.34% |
| Y 371.029 | 32207.9 | 88.1 | % | 0.38 | 88.1 | % | 0.38 | 0.43% |
| Al 308.215† | 33.1 | 0.0767383 | mg/L | 0.00209990 | 0.0767383 | mg/L | 0.00209990 | 2.74% |
| Ba 233.527† | 199.5 | 0.0410774 | mg/L | 0.00095516 | 0.0410774 | mg/L | 0.00095516 | 2.33% |
| Ca 315.887† | 3997257.9 | 758.716 | mg/L | 4.9294 | 758.716 | mg/L | 4.9294 | 0.65% |
| Cu 327.393† | -1133.4 | 0.112172 | mg/L | 0.0037571 | 0.112172 | mg/L | 0.0037571 | 3.35% |
| Fe 273.955† | 2380.3 | 2.01294 | mg/L | 0.005397 | 2.01294 | mg/L | 0.005397 | 0.27% |
| K 766.490† | 59606.2 | 31.1836 | mg/L | 0.48282 | 31.1836 | mg/L | 0.48282 | 1.55% |
| Mg 279.077† | 174166.1 | 264.366 | mg/L | 1.6068 | 264.366 | mg/L | 1.6068 | 0.61% |
| Mn 257.610† | 135153.5 | 4.56573 | mg/L | 0.008444 | 4.56573 | mg/L | 0.008444 | 0.18% |
| Mo 202.031† | -15.9 | -0.0077516 | mg/L | 0.00641178 | -0.0077516 | mg/L | 0.00641178 | 82.72% |
| Na 589.592† | 19521834.9 | 1987.78 | mg/L | 14.522 | 1987.78 | mg/L | 14.522 | 0.73% |
| Ni 231.604† | -26.8 | -0.0140499 | mg/L | 0.00391262 | -0.0140499 | mg/L | 0.00391262 | 27.85% |
| Se 196.026† | -1.1 | -0.0070331 | mg/L | 0.02148401 | -0.0070331 | mg/L | 0.02148401 | 305.47% |
| Sn 189.927† | -110.2 | -0.219116 | mg/L | 0.0110715 | -0.219116 | mg/L | 0.0110715 | 5.05% |
| Ti 334.940† | -6283.6 | -0.0148998 | mg/L | 0.00169517 | -0.0148998 | mg/L | 0.00169517 | 11.38% |
| V 290.880† | 2300.5 | 0.165595 | mg/L | 0.0037798 | 0.165595 | mg/L | 0.0037798 | 2.28% |
| Zn 206.200† | 116.1 | 0.0304408 | mg/L | 0.00057139 | 0.0304408 | mg/L | 0.00057139 | 1.88% |
| Si 251.611† | 18126.4 | 6.58144 | mg/L | 0.019482 | 6.58144 | mg/L | 0.019482 | 0.30% |
| B 249.772† | 2622.1 | 0.361862 | mg/L | 0.0019373 | 0.361862 | mg/L | 0.0019373 | 0.54% |
| Ce 413.764† | -36.9 | -0.0123716 | mg/L | 0.00631694 | -0.0123716 | mg/L | 0.00631694 | 51.06% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 38
Autosampler Location: 103
Sample ID: AD26083-047
Date Collected: 9/29/2021 5:40:20 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-047

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93433.0 | 99.9 | % | 0.77 | 99.9 | % | 0.77 | 0.77% |
| Y 371.029 | 36295.5 | 99.3 | % | 0.26 | 99.3 | % | 0.26 | 0.26% |
| Al 308.215† | 19.5 | 0.0377737 | mg/L | 0.00489259 | 0.0377737 | mg/L | 0.00489259 | 12.95% |
| Ba 233.527† | 160.3 | 0.0339255 | mg/L | 0.00054353 | 0.0339255 | mg/L | 0.00054353 | 1.60% |
| Ca 315.887† | 43221.3 | 8.14321 | mg/L | 0.097733 | 8.14321 | mg/L | 0.097733 | 1.20% |
| Cu 327.393† | 53.2 | 0.0077459 | mg/L | 0.00277294 | 0.0077459 | mg/L | 0.00277294 | 35.80% |
| Fe 273.955† | 17.7 | 0.0023955 | mg/L | 0.00147436 | 0.0023955 | mg/L | 0.00147436 | 61.55% |
| K 766.490† | 41911.4 | 22.0028 | mg/L | 0.06897 | 22.0028 | mg/L | 0.06897 | 0.31% |
| Mg 279.077† | 964.6 | 1.34984 | mg/L | 0.009047 | 1.34984 | mg/L | 0.009047 | 0.67% |
| Mn 257.610† | 306.5 | 0.0092551 | mg/L | 0.00042064 | 0.0092551 | mg/L | 0.00042064 | 4.54% |
| Mo 202.031† | -2.0 | 0.0019039 | mg/L | 0.00323063 | 0.0019039 | mg/L | 0.00323063 | 169.68% |
| Na 589.592† | 243338.7 | 24.8019 | mg/L | 0.13862 | 24.8019 | mg/L | 0.13862 | 0.56% |
| Ni 231.604† | 23.9 | 0.0113779 | mg/L | 0.00289034 | 0.0113779 | mg/L | 0.00289034 | 25.40% |
| Se 196.026† | 0.4 | -0.0034610 | mg/L | 0.02755890 | -0.0034610 | mg/L | 0.02755890 | 796.27% |
| Sn 189.927† | 0.3 | 0.0003018 | mg/L | 0.00242276 | 0.0003018 | mg/L | 0.00242276 | 802.80% |
| Ti 334.940† | -42.9 | 0.0000281 | mg/L | 0.00057704 | 0.0000281 | mg/L | 0.00057704 | >999.9% |
| V 290.880† | 31.9 | 0.0036490 | mg/L | 0.00212114 | 0.0036490 | mg/L | 0.00212114 | 58.13% |
| Zn 206.200† | 66.2 | 0.0170612 | mg/L | 0.00186661 | 0.0170612 | mg/L | 0.00186661 | 10.94% |
| Si 251.611† | 7341.4 | 2.63951 | mg/L | 0.027351 | 2.63951 | mg/L | 0.027351 | 1.04% |
| B 249.772† | 152.6 | 0.0194359 | mg/L | 0.00078367 | 0.0194359 | mg/L | 0.00078367 | 4.03% |
| Ce 413.764† | -73.1 | -0.0202986 | mg/L | 0.00732606 | -0.0202986 | mg/L | 0.00732606 | 36.09% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 39 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/29/2021 5:44:22 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92226.3 | 98.6 | % | 0.73 | 98.6 | % | 0.73 | 0.74% |
| Y 371.029 | 35347.9 | 96.7 | % | 0.76 | 96.7 | % | 0.76 | 0.78% |
| Al 308.215† | 4652.7 | 4.96273 | mg/L | 0.095979 | 4.96273 | mg/L | 0.095979 | 1.93% |
| QC value within limits for Al 308.215 Recovery = 99.25% | | | | | | | | |
| Ba 233.527† | 2365.3 | 0.496160 | mg/L | 0.0051707 | 0.496160 | mg/L | 0.0051707 | 1.04% |
| QC value within limits for Ba 233.527 Recovery = 99.23% | | | | | | | | |
| Ca 315.887† | 256270.2 | 48.5851 | mg/L | 0.06682 | 48.5851 | mg/L | 0.06682 | 0.14% |
| QC value within limits for Ca 315.887 Recovery = 97.17% | | | | | | | | |
| Cu 327.393† | 2507.7 | 0.531763 | mg/L | 0.0079300 | 0.531763 | mg/L | 0.0079300 | 1.49% |
| QC value within limits for Cu 327.393 Recovery = 106.35% | | | | | | | | |
| Fe 273.955† | 5743.5 | 4.87496 | mg/L | 0.089889 | 4.87496 | mg/L | 0.089889 | 1.84% |
| QC value within limits for Fe 273.955 Recovery = 97.50% | | | | | | | | |
| K 766.490† | 92380.4 | 48.1884 | mg/L | 0.10458 | 48.1884 | mg/L | 0.10458 | 0.22% |
| QC value within limits for K 766.490 Recovery = 96.38% | | | | | | | | |
| Mg 279.077† | 32155.0 | 48.7141 | mg/L | 0.89086 | 48.7141 | mg/L | 0.89086 | 1.83% |
| QC value within limits for Mg 279.077 Recovery = 97.43% | | | | | | | | |
| Mn 257.610† | 14248.6 | 0.484154 | mg/L | 0.0094117 | 0.484154 | mg/L | 0.0094117 | 1.94% |
| QC value within limits for Mn 257.610 Recovery = 96.83% | | | | | | | | |
| Mo 202.031† | 696.1 | 0.487650 | mg/L | 0.0062800 | 0.487650 | mg/L | 0.0062800 | 1.29% |
| QC value within limits for Mo 202.031 Recovery = 97.53% | | | | | | | | |
| Na 589.592† | 477784.4 | 48.6737 | mg/L | 0.15418 | 48.6737 | mg/L | 0.15418 | 0.32% |
| QC value within limits for Na 589.592 Recovery = 97.35% | | | | | | | | |
| Ni 231.604† | 957.8 | 0.494704 | mg/L | 0.0070826 | 0.494704 | mg/L | 0.0070826 | 1.43% |
| QC value within limits for Ni 231.604 Recovery = 98.94% | | | | | | | | |
| Se 196.026† | 132.5 | 0.475707 | mg/L | 0.0162751 | 0.475707 | mg/L | 0.0162751 | 3.42% |
| QC value within limits for Se 196.026 Recovery = 95.14% | | | | | | | | |
| Sn 189.927† | 153.5 | 0.483965 | mg/L | 0.0120953 | 0.483965 | mg/L | 0.0120953 | 2.50% |
| QC value within limits for Sn 189.927 Recovery = 96.79% | | | | | | | | |
| Ti 334.940† | 22129.9 | 0.493089 | mg/L | 0.0086416 | 0.493089 | mg/L | 0.0086416 | 1.75% |
| QC value within limits for Ti 334.940 Recovery = 98.62% | | | | | | | | |
| V 290.880† | 4182.6 | 0.474628 | mg/L | 0.0125623 | 0.474628 | mg/L | 0.0125623 | 2.65% |
| QC value within limits for V 290.880 Recovery = 94.93% | | | | | | | | |
| Zn 206.200† | 1827.8 | 0.488970 | mg/L | 0.0053262 | 0.488970 | mg/L | 0.0053262 | 1.09% |
| QC value within limits for Zn 206.200 Recovery = 97.79% | | | | | | | | |
| Si 251.611† | 13417.5 | 4.86032 | mg/L | 0.074884 | 4.86032 | mg/L | 0.074884 | 1.54% |
| QC value within limits for Si 251.611 Recovery = 97.21% | | | | | | | | |
| B 249.772† | 3414.7 | 0.462813 | mg/L | 0.0089673 | 0.462813 | mg/L | 0.0089673 | 1.94% |
| QC value within limits for B 249.772 Recovery = 92.56% | | | | | | | | |
| Ce 413.764† | 2164.2 | 0.469072 | mg/L | 0.0091924 | 0.469072 | mg/L | 0.0091924 | 1.96% |
| QC value within limits for Ce 413.764 Recovery = 93.81% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 40 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 5:48:24 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92297.1 | 98.6 | % | 0.63 | 98.6 | % | 0.63 | 0.64% |
| Y 371.029 | 36893.6 | 101 | % | 0.52 | 101 | % | 0.52 | 0.52% |
| Al 308.215† | -0.9 | 0.0158561 | mg/L | 0.01208524 | 0.0158561 | mg/L | 0.01208524 | 76.22% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 0.4 | 0.0002155 | mg/L | 0.00015195 | 0.0002155 | mg/L | 0.00015195 | 70.52% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 48.0 | -0.0521334 | mg/L | 0.00451996 | -0.0521334 | mg/L | 0.00451996 | 8.67% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 22.4 | -0.0024102 | mg/L | 0.00250913 | -0.0024102 | mg/L | 0.00250913 | 104.10% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -7.1 | -0.0187405 | mg/L | 0.00438913 | -0.0187405 | mg/L | 0.00438913 | 23.42% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | 74.9 | 0.296004 | mg/L | 0.0076529 | 0.296004 | mg/L | 0.0076529 | 2.59% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 4.5 | -0.108144 | mg/L | 0.0137492 | -0.108144 | mg/L | 0.0137492 | 12.71% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -2.3 | -0.0013396 | mg/L | 0.00014937 | -0.0013396 | mg/L | 0.00014937 | 11.15% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -0.8 | 0.0027736 | mg/L | 0.00078355 | 0.0027736 | mg/L | 0.00078355 | 28.25% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 2803.5 | 0.310037 | mg/L | 0.0209357 | 0.310037 | mg/L | 0.0209357 | 6.75% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 3.9 | 0.0010153 | mg/L | 0.00590273 | 0.0010153 | mg/L | 0.00590273 | 581.40% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -1.6 | -0.0107193 | mg/L | 0.00707235 | -0.0107193 | mg/L | 0.00707235 | 65.98% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -0.5 | -0.0032326 | mg/L | 0.01322447 | -0.0032326 | mg/L | 0.01322447 | 409.10% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 39.9 | 0.0005122 | mg/L | 0.00047779 | 0.0005122 | mg/L | 0.00047779 | 93.28% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 16.3 | 0.0023941 | mg/L | 0.00043166 | 0.0023941 | mg/L | 0.00043166 | 18.03% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -4.9 | -0.0019770 | mg/L | 0.00047456 | -0.0019770 | mg/L | 0.00047456 | 24.00% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 7.2 | -0.0411606 | mg/L | 0.00316985 | -0.0411606 | mg/L | 0.00316985 | 7.70% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 7.8 | -0.0010350 | mg/L | 0.00121728 | -0.0010350 | mg/L | 0.00121728 | 117.61% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 13.9 | -0.0012560 | mg/L | 0.00238618 | -0.0012560 | mg/L | 0.00238618 | 189.98% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 41
Autosampler Location: 106
Sample ID: AD26083-048 5D
Date Collected: 9/29/2021 5:52:10 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

100 cpr

Mean Data: AD26083-048 5D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89893.0 | 96.1 | % | 1.29 | 96.1 | % | 1.29 | 1.35% |
| Y 371.029 | 35486.0 | 97.1 | % | 1.19 | 97.1 | % | 1.19 | 1.22% |
| Al 308.215† | 6.3 | 0.0270106 | mg/L | 0.01312540 | 0.0270106 | mg/L | 0.01312540 | 48.59% |
| Ba 233.527† | 179.2 | 0.0364744 | mg/L | 0.00093115 | 0.0364744 | mg/L | 0.00093115 | 2.55% |
| Ca 315.887† | 84369.6 | 15.9542 | mg/L | 0.06572 | 15.9542 | mg/L | 0.06572 | 0.41% |
| Cu 327.393† | 15.7 | 0.0036457 | mg/L | 0.00381398 | 0.0036457 | mg/L | 0.00381398 | 104.61% |
| Fe 273.955† | 3076.2 | 2.60516 | mg/L | 0.010949 | 2.60516 | mg/L | 0.010949 | 0.42% |
| K 766.490† | 17753.6 | 9.46854 | mg/L | 0.012627 | 9.46854 | mg/L | 0.012627 | 0.13% |
| Mg 279.077† | 17595.0 | 26.6040 | mg/L | 0.06181 | 26.6040 | mg/L | 0.06181 | 0.23% |
| Mn 257.610† | 6819.8 | 0.231701 | mg/L | 0.0007007 | 0.231701 | mg/L | 0.0007007 | 0.30% |
| Mo 202.031† | -4.1 | 0.0004677 | mg/L | 0.00108597 | 0.0004677 | mg/L | 0.00108597 | 232.17% |
| Na 589.592† | 2620366.9 | 266.836 | mg/L | 4.2727 | 266.836 | mg/L | 4.2727 | 1.60% |
| Ni 231.604† | -4.5 | -0.0022995 | mg/L | 0.00374689 | -0.0022995 | mg/L | 0.00374689 | 162.94% |
| Se 196.026† | 2.9 | 0.0079566 | mg/L | 0.01640503 | 0.0079566 | mg/L | 0.01640503 | 206.18% |
| Sn 189.927† | -10.3 | -0.0273440 | mg/L | 0.00783984 | -0.0273440 | mg/L | 0.00783984 | 28.67% |
| Ti 334.940† | -101.4 | 0.0000135 | mg/L | 0.00029529 | 0.0000135 | mg/L | 0.00029529 | >999.9% |
| V 290.880† | 334.5 | 0.0292049 | mg/L | 0.00446161 | 0.0292049 | mg/L | 0.00446161 | 15.28% |
| Zn 206.200† | 9.7 | 0.0019155 | mg/L | 0.00091175 | 0.0019155 | mg/L | 0.00091175 | 47.60% |
| Si 251.611† | 2120.3 | 0.731180 | mg/L | 0.0081696 | 0.731180 | mg/L | 0.0081696 | 1.12% |
| B 249.772† | 1113.8 | 0.145351 | mg/L | 0.0034233 | 0.145351 | mg/L | 0.0034233 | 2.36% |
| Ce 413.764† | -36.3 | -0.0122479 | mg/L | 0.00462992 | -0.0122479 | mg/L | 0.00462992 | 37.80% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 42
Autosampler Location: 107
Sample ID: AD26083-048 MR 5D
Date Collected: 9/29/2021 5:56:16 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-048 MR 5D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90591.1 | 96.8 | % | 0.29 | 96.8 | % | 0.29 | 0.30% |
| Y 371.029 | 35681.4 | 97.6 | % | 0.28 | 97.6 | % | 0.28 | 0.29% |
| Al 308.215† | 18.4 | 0.0398215 | mg/L | 0.00961573 | 0.0398215 | mg/L | 0.00961573 | 24.15% |
| Ba 233.527† | 171.6 | 0.0349025 | mg/L | 0.00050571 | 0.0349025 | mg/L | 0.00050571 | 1.45% |
| Ca 315.887† | 82983.4 | 15.6910 | mg/L | 0.06216 | 15.6910 | mg/L | 0.06216 | 0.40% |
| Cu 327.393† | -8.5 | -0.0014563 | mg/L | 0.00564248 | -0.0014563 | mg/L | 0.00564248 | 387.46% |
| Fe 273.955† | 3003.8 | 2.54350 | mg/L | 0.015707 | 2.54350 | mg/L | 0.015707 | 0.62% |
| K 766.490† | 17510.9 | 9.34262 | mg/L | 0.031040 | 9.34262 | mg/L | 0.031040 | 0.33% |
| Mg 279.077† | 17282.4 | 26.1292 | mg/L | 0.07475 | 26.1292 | mg/L | 0.07475 | 0.29% |
| Mn 257.610† | 6706.2 | 0.227816 | mg/L | 0.0009609 | 0.227816 | mg/L | 0.0009609 | 0.42% |
| Mo 202.031† | -1.5 | 0.0022367 | mg/L | 0.00257074 | 0.0022367 | mg/L | 0.00257074 | 114.93% |
| Na 589.592† | 2558766.3 | 260.564 | mg/L | 1.7133 | 260.564 | mg/L | 1.7133 | 0.66% |
| Ni 231.604† | 5.9 | 0.0030330 | mg/L | 0.00370305 | 0.0030330 | mg/L | 0.00370305 | 122.09% |
| Se 196.026† | 0.3 | -0.0015420 | mg/L | 0.02233173 | -0.0015420 | mg/L | 0.02233173 | >999.9% |
| Sn 189.927† | -7.0 | -0.0174033 | mg/L | 0.00484563 | -0.0174033 | mg/L | 0.00484563 | 27.84% |
| Ti 334.940† | -89.5 | 0.0002319 | mg/L | 0.00155786 | 0.0002319 | mg/L | 0.00155786 | 671.90% |
| V 290.880† | 336.7 | 0.0296579 | mg/L | 0.00114404 | 0.0296579 | mg/L | 0.00114404 | 3.86% |
| Zn 206.200† | 5.0 | 0.0006620 | mg/L | 0.00215374 | 0.0006620 | mg/L | 0.00215374 | 325.35% |
| Si 251.611† | 2057.2 | 0.708146 | mg/L | 0.0066324 | 0.708146 | mg/L | 0.0066324 | 0.94% |
| B 249.772† | 1083.8 | 0.141352 | mg/L | 0.0007235 | 0.141352 | mg/L | 0.0007235 | 0.51% |
| Ce 413.764† | -56.2 | -0.0165875 | mg/L | 0.00494890 | -0.0165875 | mg/L | 0.00494890 | 29.84% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 43
Autosampler Location: 108
Sample ID: AD26083-049 MS 1 5D
Date Collected: 9/29/2021 6:00:21 PM
Analyst:
Data Type: Original
Initial Sample Wt: 100 ml
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-049 MS 1 5D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90140.4 | 96.3 | % | 0.63 | 96.3 | % | 0.63 | 0.65% |
| Y 371.029 | 35335.9 | 96.7 | % | 0.76 | 96.7 | % | 0.76 | 0.78% |
| Al 308.215† | 2156.7 | 2.30143 | mg/L | 0.019932 | 2.30143 | mg/L | 0.019932 | 0.87% |
| Ba 233.527† | 402.9 | 0.0828845 | mg/L | 0.00087951 | 0.0828845 | mg/L | 0.00087951 | 1.06% |
| Ca 315.887† | 134764.8 | 25.5204 | mg/L | 0.04163 | 25.5204 | mg/L | 0.04163 | 0.16% |
| Cu 327.393† | 235.6 | 0.0533547 | mg/L | 0.00277860 | 0.0533547 | mg/L | 0.00277860 | 5.21% |
| Fe 273.955† | 4648.0 | 3.94267 | mg/L | 0.003218 | 3.94267 | mg/L | 0.003218 | 0.08% |
| K 766.490† | 25469.4 | 13.4719 | mg/L | 0.02989 | 13.4719 | mg/L | 0.02989 | 0.22% |
| Mg 279.077† | 22231.1 | 33.6442 | mg/L | 0.04483 | 33.6442 | mg/L | 0.04483 | 0.13% |
| Mn 257.610† | 9155.3 | 0.311085 | mg/L | 0.0007425 | 0.311085 | mg/L | 0.0007425 | 0.24% |
| Mo 202.031† | 58.5 | 0.0440344 | mg/L | 0.00121575 | 0.0440344 | mg/L | 0.00121575 | 2.76% |
| Na 589.592† | 2727496.6 | 277.744 | mg/L | 1.1795 | 277.744 | mg/L | 1.1795 | 0.42% |
| Ni 231.604† | 100.1 | 0.0518423 | mg/L | 0.00183767 | 0.0518423 | mg/L | 0.00183767 | 3.54% |
| Se 196.026† | 8.9 | 0.0306334 | mg/L | 0.01220248 | 0.0306334 | mg/L | 0.01220248 | 39.83% |
| Sn 189.927† | 1.8 | 0.0118066 | mg/L | 0.01389089 | 0.0118066 | mg/L | 0.01389089 | 117.65% |
| Ti 334.940† | 4912.3 | 0.111574 | mg/L | 0.0008804 | 0.111574 | mg/L | 0.0008804 | 0.79% |
| V 290.880† | 694.3 | 0.0688576 | mg/L | 0.00484352 | 0.0688576 | mg/L | 0.00484352 | 7.03% |
| Zn 206.200† | 197.9 | 0.0523446 | mg/L | 0.00093258 | 0.0523446 | mg/L | 0.00093258 | 1.78% |
| Si 251.611† | 10790.3 | 3.90007 | mg/L | 0.012766 | 3.90007 | mg/L | 0.012766 | 0.33% |
| B 249.772† | 1373.0 | 0.176748 | mg/L | 0.0013531 | 0.176748 | mg/L | 0.0013531 | 0.77% |
| Ce 413.764† | 195.8 | 0.0385126 | mg/L | 0.00372192 | 0.0385126 | mg/L | 0.00372192 | 9.66% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 44
Autosampler Location: 109
Sample ID: AD26083-050 MS 2 5D
Date Collected: 9/29/2021 6:04:27 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-050 MS 2 5D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90823.1 | 97.1 | % | 0.37 | 97.1 | % | 0.37 | 0.38% |
| Y 371.029 | 35461.9 | 97.0 | % | 0.22 | 97.0 | % | 0.22 | 0.23% |
| Al 308.215† | 3004.3 | 3.19729 | mg/L | 0.033527 | 3.19729 | mg/L | 0.033527 | 1.05% |
| Ba 233.527† | 408.5 | 0.0834849 | mg/L | 0.00055308 | 0.0834849 | mg/L | 0.00055308 | 0.66% |
| Ca 315.887† | 144714.0 | 27.4090 | mg/L | 0.00875 | 27.4090 | mg/L | 0.00875 | 0.03% |
| Cu 327.393† | 244.0 | 0.0559588 | mg/L | 0.00299505 | 0.0559588 | mg/L | 0.00299505 | 5.35% |
| Fe 273.955† | 5893.3 | 5.00245 | mg/L | 0.012143 | 5.00245 | mg/L | 0.012143 | 0.24% |
| K 766.490† | 24686.9 | 13.0659 | mg/L | 0.01013 | 13.0659 | mg/L | 0.01013 | 0.08% |
| Mg 279.077† | 22579.1 | 34.1725 | mg/L | 0.06313 | 34.1725 | mg/L | 0.06313 | 0.18% |
| Mn 257.610† | 9810.8 | 0.333094 | mg/L | 0.0012393 | 0.333094 | mg/L | 0.0012393 | 0.37% |
| Mo 202.031† | 57.7 | 0.0434609 | mg/L | 0.00127584 | 0.0434609 | mg/L | 0.00127584 | 2.94% |
| Na 589.592† | 2677176.3 | 272.621 | mg/L | 1.0882 | 272.621 | mg/L | 1.0882 | 0.40% |
| Ni 231.604† | 95.2 | 0.0495889 | mg/L | 0.00077516 | 0.0495889 | mg/L | 0.00077516 | 1.56% |
| Se 196.026† | 13.7 | 0.0490501 | mg/L | 0.01112547 | 0.0490501 | mg/L | 0.01112547 | 22.68% |
| Sn 189.927† | 2.2 | 0.0132944 | mg/L | 0.01108085 | 0.0132944 | mg/L | 0.01108085 | 83.35% |
| Ti 334.940† | 6442.4 | 0.145452 | mg/L | 0.0030514 | 0.145452 | mg/L | 0.0030514 | 2.10% |
| V 290.880† | 725.9 | 0.0723721 | mg/L | 0.00716928 | 0.0723721 | mg/L | 0.00716928 | 9.91% |
| Zn 206.200† | 204.2 | 0.0540406 | mg/L | 0.00085460 | 0.0540406 | mg/L | 0.00085460 | 1.58% |
| Si 251.611† | 14762.8 | 5.35205 | mg/L | 0.028014 | 5.35205 | mg/L | 0.028014 | 0.52% |
| B 249.772† | 1339.6 | 0.167724 | mg/L | 0.0006036 | 0.167724 | mg/L | 0.0006036 | 0.36% |
| Ce 413.764† | 207.9 | 0.0411701 | mg/L | 0.00928397 | 0.0411701 | mg/L | 0.00928397 | 22.55% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 45
Autosampler Location: 110
Sample ID: AD26083-048 PS 5D
Date Collected: 9/29/2021 6:08:31 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-048 PS 5D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89690.1 | 95.9 | % | 0.59 | 95.9 | % | 0.59 | 0.62% |
| Y 371.029 | 34213.5 | 93.6 | % | 0.56 | 93.6 | % | 0.56 | 0.60% |
| Al 308.215† | 5205.5 | 5.55371 | mg/L | 0.295934 | 5.55371 | mg/L | 0.295934 | 5.33% |
| Ba 233.527† | 2709.5 | 0.567003 | mg/L | 0.0227675 | 0.567003 | mg/L | 0.0227675 | 4.02% |
| Ca 315.887† | 387530.0 | 73.5014 | mg/L | 5.27569 | 73.5014 | mg/L | 5.27569 | 7.18% |
| Cu 327.393† | 2814.9 | 0.606563 | mg/L | 0.0225694 | 0.606563 | mg/L | 0.0225694 | 3.72% |
| Fe 273.955† | 9418.1 | 8.00198 | mg/L | 0.330837 | 8.00198 | mg/L | 0.330837 | 4.13% |
| K 766.490† | 133681.3 | 69.6173 | mg/L | 5.39376 | 69.6173 | mg/L | 5.39376 | 7.75% |
| Mg 279.077† | 55279.9 | 83.8305 | mg/L | 6.13551 | 83.8305 | mg/L | 6.13551 | 7.32% |
| Mn 257.610† | 22831.1 | 0.777612 | mg/L | 0.0329639 | 0.777612 | mg/L | 0.0329639 | 4.24% |
| Mo 202.031† | 764.2 | 0.535044 | mg/L | 0.0250050 | 0.535044 | mg/L | 0.0250050 | 4.67% |
| Na 589.592† | 3295164.5 | 335.546 | mg/L | 12.0388 | 335.546 | mg/L | 12.0388 | 3.59% |
| Ni 231.604† | 1028.9 | 0.532528 | mg/L | 0.0264201 | 0.532528 | mg/L | 0.0264201 | 4.96% |
| Se 196.026† | 146.7 | 0.529663 | mg/L | 0.0231537 | 0.529663 | mg/L | 0.0231537 | 4.37% |
| Sn 189.927† | 155.7 | 0.498860 | mg/L | 0.0391729 | 0.498860 | mg/L | 0.0391729 | 7.85% |
| Ti 334.940† | 24571.9 | 0.550719 | mg/L | 0.0245366 | 0.550719 | mg/L | 0.0245366 | 4.46% |
| V 290.880† | 4930.8 | 0.548823 | mg/L | 0.0283785 | 0.548823 | mg/L | 0.0283785 | 5.17% |
| Zn 206.200† | 1997.5 | 0.534421 | mg/L | 0.0232759 | 0.534421 | mg/L | 0.0232759 | 4.36% |
| Si 251.611† | 3745.6 | 1.32525 | mg/L | 0.040539 | 1.32525 | mg/L | 0.040539 | 3.06% |
| B 249.772† | 4569.1 | 0.614045 | mg/L | 0.0153565 | 0.614045 | mg/L | 0.0153565 | 2.50% |
| Ce 413.764† | 2244.8 | 0.486682 | mg/L | 0.0100275 | 0.486682 | mg/L | 0.0100275 | 2.06% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 46
Autosampler Location: 111
Sample ID: AD26083-048 SD 5D
Date Collected: 9/29/2021 6:12:54 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-048 SD 5D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93362.3 | 99.8 | % | 0.28 | 99.8 | % | 0.28 | 0.28% |
| Y 371.029 | 35724.7 | 97.8 | % | 1.04 | 97.8 | % | 1.04 | 1.06% |
| Al 308.215† | -6.6 | 0.0103451 | mg/L | 0.00658308 | 0.0103451 | mg/L | 0.00658308 | 63.63% |
| Ba 233.527† | 34.8 | 0.0071906 | mg/L | 0.00059122 | 0.0071906 | mg/L | 0.00059122 | 8.22% |
| Ca 315.887† | 16638.4 | 3.09711 | mg/L | 0.030053 | 3.09711 | mg/L | 0.030053 | 0.97% |
| Cu 327.393† | 15.6 | -0.0023411 | mg/L | 0.00543772 | -0.0023411 | mg/L | 0.00543772 | 232.27% |
| Fe 273.955† | 591.9 | 0.491040 | mg/L | 0.0022838 | 0.491040 | mg/L | 0.0022838 | 0.47% |
| K 766.490† | 3367.9 | 2.00459 | mg/L | 0.020764 | 2.00459 | mg/L | 0.020764 | 1.04% |
| Mg 279.077† | 3482.7 | 5.17363 | mg/L | 0.069310 | 5.17363 | mg/L | 0.069310 | 1.34% |
| Mn 257.610† | 1323.1 | 0.0439543 | mg/L | 0.00041893 | 0.0439543 | mg/L | 0.00041893 | 0.95% |
| Mo 202.031† | -0.4 | 0.0030023 | mg/L | 0.00250963 | 0.0030023 | mg/L | 0.00250963 | 83.59% |
| Na 589.592† | 527240.1 | 53.7094 | mg/L | 0.10622 | 53.7094 | mg/L | 0.10622 | 0.20% |
| Ni 231.604† | -0.6 | -0.0011078 | mg/L | 0.00278273 | -0.0011078 | mg/L | 0.00278273 | 251.20% |
| Se 196.026† | 0.2 | -0.0037070 | mg/L | 0.00734730 | -0.0037070 | mg/L | 0.00734730 | 198.20% |
| Sn 189.927† | -3.8 | -0.0119822 | mg/L | 0.00758729 | -0.0119822 | mg/L | 0.00758729 | 63.32% |
| Ti 334.940† | 13.9 | 0.0004554 | mg/L | 0.00047821 | 0.0004554 | mg/L | 0.00047821 | 105.01% |
| V 290.880† | 59.8 | 0.0054060 | mg/L | 0.00207452 | 0.0054060 | mg/L | 0.00207452 | 38.37% |
| Zn 206.200† | -4.6 | -0.0018932 | mg/L | 0.00047722 | -0.0018932 | mg/L | 0.00047722 | 25.21% |
| Si 251.611† | 416.7 | 0.108508 | mg/L | 0.0033900 | 0.108508 | mg/L | 0.0033900 | 3.12% |
| B 249.772† | 217.3 | 0.0266433 | mg/L | 0.00056485 | 0.0266433 | mg/L | 0.00056485 | 2.12% |
| Ce 413.764† | -35.5 | -0.0120659 | mg/L | 0.01209218 | -0.0120659 | mg/L | 0.01209218 | 100.22% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)

Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 47
Sample ID: AD26083-032 5D
Analyst:
Initial Sample Wt: 10D gn
Dilution:
Wash Time (before sample): 75

Autosampler Location: 112
Date Collected: 9/29/2021 6:16:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-032 5D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 88675.4 | 94.8 | % | 0.72 | 94.8 | % | 0.72 | 0.76% |
| Y 371.029 | 34090.7 | 93.3 | % | 0.65 | 93.3 | % | 0.65 | 0.70% |
| Al 308.215† | 11.1 | 0.0349982 | mg/L | 0.00701408 | 0.0349982 | mg/L | 0.00701408 | 20.04% |
| Ba 233.527† | 55.0 | 0.0104463 | mg/L | 0.00088452 | 0.0104463 | mg/L | 0.00088452 | 8.47% |
| Ca 315.887† | 287865.3 | 54.5826 | mg/L | 0.02336 | 54.5826 | mg/L | 0.02336 | 0.04% |
| Cu 327.393† | -44.8 | 0.0091448 | mg/L | 0.00296799 | 0.0091448 | mg/L | 0.00296799 | 32.46% |
| Fe 273.955† | 2723.3 | 2.30477 | mg/L | 0.012960 | 2.30477 | mg/L | 0.012960 | 0.56% |
| K 766.490† | 12492.9 | 6.73906 | mg/L | 0.028851 | 6.73906 | mg/L | 0.028851 | 0.43% |
| Mg 279.077† | 37290.9 | 56.5133 | mg/L | 0.02070 | 56.5133 | mg/L | 0.02070 | 0.04% |
| Mn 257.610† | 8080.3 | 0.279457 | mg/L | 0.0006109 | 0.279457 | mg/L | 0.0006109 | 0.22% |
| Mo 202.031† | -6.0 | -0.0008680 | mg/L | 0.00373709 | -0.0008680 | mg/L | 0.00373709 | 430.52% |
| Na 589.592† | 4652964.2 | 473.800 | mg/L | 2.9953 | 473.800 | mg/L | 2.9953 | 0.63% |
| Ni 231.604† | -8.7 | -0.0045815 | mg/L | 0.00216242 | -0.0045815 | mg/L | 0.00216242 | 47.20% |
| Se 196.026† | 4.0 | 0.0116211 | mg/L | 0.01746878 | 0.0116211 | mg/L | 0.01746878 | 150.32% |
| Sn 189.927† | -21.4 | -0.0529269 | mg/L | 0.00897555 | -0.0529269 | mg/L | 0.00897555 | 16.96% |
| Ti 334.940† | -481.6 | -0.0020487 | mg/L | 0.00095935 | -0.0020487 | mg/L | 0.00095935 | 46.83% |
| V 290.880† | 602.2 | 0.0487679 | mg/L | 0.00310714 | 0.0487679 | mg/L | 0.00310714 | 6.37% |
| Zn 206.200† | 11.6 | 0.0024222 | mg/L | 0.00178987 | 0.0024222 | mg/L | 0.00178987 | 73.89% |
| Si 251.611† | 3334.6 | 1.17504 | mg/L | 0.010402 | 1.17504 | mg/L | 0.010402 | 0.89% |
| B 249.772† | 980.9 | 0.127702 | mg/L | 0.0006859 | 0.127702 | mg/L | 0.0006859 | 0.54% |
| Ce 413.764† | -49.6 | -0.0151501 | mg/L | 0.00459065 | -0.0151501 | mg/L | 0.00459065 | 30.30% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 48 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/29/2021 6:21:07 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92735.5 | 99.1 | % | 0.30 | 99.1 | % | 0.30 | 0.30% |
| Y 371.029 | 35090.2 | 96.0 | % | 0.43 | 96.0 | % | 0.43 | 0.45% |
| Al 308.215† | 4615.4 | 4.92289 | mg/L | 0.029089 | 4.92289 | mg/L | 0.029089 | 0.59% |
| QC value within limits for Al 308.215 Recovery = 98.46% | | | | | | | | |
| Ba 233.527† | 2322.4 | 0.487115 | mg/L | 0.0032337 | 0.487115 | mg/L | 0.0032337 | 0.66% |
| QC value within limits for Ba 233.527 Recovery = 97.42% | | | | | | | | |
| Ca 315.887† | 256490.2 | 48.6268 | mg/L | 0.10157 | 48.6268 | mg/L | 0.10157 | 0.21% |
| QC value within limits for Ca 315.887 Recovery = 97.25% | | | | | | | | |
| Cu 327.393† | 2432.8 | 0.516352 | mg/L | 0.0055682 | 0.516352 | mg/L | 0.0055682 | 1.08% |
| QC value within limits for Cu 327.393 Recovery = 103.27% | | | | | | | | |
| Fe 273.955† | 5735.9 | 4.86853 | mg/L | 0.036318 | 4.86853 | mg/L | 0.036318 | 0.75% |
| QC value within limits for Fe 273.955 Recovery = 97.37% | | | | | | | | |
| K 766.490† | 93047.3 | 48.5344 | mg/L | 0.07692 | 48.5344 | mg/L | 0.07692 | 0.16% |
| QC value within limits for K 766.490 Recovery = 97.07% | | | | | | | | |
| Mg 279.077† | 32141.9 | 48.6942 | mg/L | 0.39141 | 48.6942 | mg/L | 0.39141 | 0.80% |
| QC value within limits for Mg 279.077 Recovery = 97.39% | | | | | | | | |
| Mn 257.610† | 14519.4 | 0.493200 | mg/L | 0.0038493 | 0.493200 | mg/L | 0.0038493 | 0.78% |
| QC value within limits for Mn 257.610 Recovery = 98.64% | | | | | | | | |
| Mo 202.031† | 692.5 | 0.485188 | mg/L | 0.0051369 | 0.485188 | mg/L | 0.0051369 | 1.06% |
| QC value within limits for Mo 202.031 Recovery = 97.04% | | | | | | | | |
| Na 589.592† | 483161.1 | 49.2211 | mg/L | 0.11962 | 49.2211 | mg/L | 0.11962 | 0.24% |
| QC value within limits for Na 589.592 Recovery = 98.44% | | | | | | | | |
| Ni 231.604† | 948.8 | 0.490045 | mg/L | 0.0072386 | 0.490045 | mg/L | 0.0072386 | 1.48% |
| QC value within limits for Ni 231.604 Recovery = 98.01% | | | | | | | | |
| Se 196.026† | 141.0 | 0.505999 | mg/L | 0.0210556 | 0.505999 | mg/L | 0.0210556 | 4.16% |
| QC value within limits for Se 196.026 Recovery = 101.20% | | | | | | | | |
| Sn 189.927† | 154.1 | 0.485618 | mg/L | 0.0068408 | 0.485618 | mg/L | 0.0068408 | 1.41% |
| QC value within limits for Sn 189.927 Recovery = 97.12% | | | | | | | | |
| Ti 334.940† | 22183.3 | 0.494269 | mg/L | 0.0031193 | 0.494269 | mg/L | 0.0031193 | 0.63% |
| QC value within limits for Ti 334.940 Recovery = 98.85% | | | | | | | | |
| V 290.880† | 4139.5 | 0.469540 | mg/L | 0.0078460 | 0.469540 | mg/L | 0.0078460 | 1.67% |
| QC value within limits for V 290.880 Recovery = 93.91% | | | | | | | | |
| Zn 206.200† | 1816.3 | 0.485877 | mg/L | 0.0020426 | 0.485877 | mg/L | 0.0020426 | 0.42% |
| QC value within limits for Zn 206.200 Recovery = 97.18% | | | | | | | | |
| Si 251.611† | 13349.5 | 4.83549 | mg/L | 0.039262 | 4.83549 | mg/L | 0.039262 | 0.81% |
| QC value within limits for Si 251.611 Recovery = 96.71% | | | | | | | | |
| B 249.772† | 3408.5 | 0.461957 | mg/L | 0.0031141 | 0.461957 | mg/L | 0.0031141 | 0.67% |
| QC value within limits for B 249.772 Recovery = 92.39% | | | | | | | | |
| Ce 413.764† | 2173.0 | 0.470988 | mg/L | 0.0030870 | 0.470988 | mg/L | 0.0030870 | 0.66% |
| QC value within limits for Ce 413.764 Recovery = 94.20% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 49 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 6:25:14 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90764.0 | 97.0 | % | 0.19 | 97.0 | % | 0.19 | 0.19% |
| Y 371.029 | 35678.4 | 97.6 | % | 0.12 | 97.6 | % | 0.12 | 0.12% |
| Al 308.215† | -7.1 | 0.0092871 | mg/L | 0.00756686 | 0.0092871 | mg/L | 0.00756686 | 81.48% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 4.2 | 0.0010205 | mg/L | 0.00043396 | 0.0010205 | mg/L | 0.00043396 | 42.52% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -9.5 | -0.0630550 | mg/L | 0.00708506 | -0.0630550 | mg/L | 0.00708506 | 11.24% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 23.8 | -0.0021298 | mg/L | 0.00109841 | -0.0021298 | mg/L | 0.00109841 | 51.57% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 6.2 | -0.0074394 | mg/L | 0.00989402 | -0.0074394 | mg/L | 0.00989402 | 132.99% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -1.8 | 0.256222 | mg/L | 0.0096277 | 0.256222 | mg/L | 0.0096277 | 3.76% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -2.6 | -0.118941 | mg/L | 0.0132508 | -0.118941 | mg/L | 0.0132508 | 11.14% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 0.3 | -0.0012561 | mg/L | 0.00025259 | -0.0012561 | mg/L | 0.00025259 | 20.11% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -3.1 | 0.0011453 | mg/L | 0.00373151 | 0.0011453 | mg/L | 0.00373151 | 325.80% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 2039.3 | 0.232225 | mg/L | 0.0075403 | 0.232225 | mg/L | 0.0075403 | 3.25% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 0.4 | -0.0007888 | mg/L | 0.00157818 | -0.0007888 | mg/L | 0.00157818 | 200.08% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 4.3 | 0.0106670 | mg/L | 0.00827962 | 0.0106670 | mg/L | 0.00827962 | 77.62% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.4 | -0.0088403 | mg/L | 0.00536756 | -0.0088403 | mg/L | 0.00536756 | 60.72% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 24.5 | 0.0001730 | mg/L | 0.00018670 | 0.0001730 | mg/L | 0.00018670 | 107.90% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 1.6 | 0.0006600 | mg/L | 0.00057617 | 0.0006600 | mg/L | 0.00057617 | 87.31% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -4.1 | -0.0017602 | mg/L | 0.00141326 | -0.0017602 | mg/L | 0.00141326 | 80.29% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 4.4 | -0.0421881 | mg/L | 0.00097299 | -0.0421881 | mg/L | 0.00097299 | 2.31% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 5.5 | -0.0014069 | mg/L | 0.00107010 | -0.0014069 | mg/L | 0.00107010 | 76.06% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -48.7 | -0.0149560 | mg/L | 0.01425048 | -0.0149560 | mg/L | 0.01425048 | 95.28% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 50
Autosampler Location: 113
Sample ID: AD26083-040 5D
Date Collected: 9/29/2021 6:29:05 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

10D cyn

Mean Data: AD26083-040 5D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92028.1 | 98.4 | % | 0.45 | 98.4 | % | 0.45 | 0.46% |
| Y 371.029 | 35898.5 | 98.2 | % | 0.51 | 98.2 | % | 0.51 | 0.52% |
| Al 308.215† | 25.1 | 0.0450880 | mg/L | 0.01278139 | 0.0450880 | mg/L | 0.01278139 | 28.35% |
| Ba 233.527† | 1080.8 | 0.227440 | mg/L | 0.0010167 | 0.227440 | mg/L | 0.0010167 | 0.45% |
| Ca 315.887† | 50938.9 | 9.60819 | mg/L | 0.009265 | 9.60819 | mg/L | 0.009265 | 0.10% |
| Cu 327.393† | 24.4 | 0.0024971 | mg/L | 0.00310500 | 0.0024971 | mg/L | 0.00310500 | 124.34% |
| Fe 273.955† | 1270.0 | 1.06806 | mg/L | 0.011737 | 1.06806 | mg/L | 0.011737 | 1.10% |
| K 766.490† | 19842.6 | 10.5524 | mg/L | 0.03192 | 10.5524 | mg/L | 0.03192 | 0.30% |
| Mg 279.077† | 9622.9 | 14.4979 | mg/L | 0.04330 | 14.4979 | mg/L | 0.04330 | 0.30% |
| Mn 257.610† | 1563.2 | 0.0537311 | mg/L | 0.00037370 | 0.0537311 | mg/L | 0.00037370 | 0.70% |
| Mo 202.031† | -4.3 | 0.0003234 | mg/L | 0.00302555 | 0.0003234 | mg/L | 0.00302555 | 935.61% |
| Na 589.592† | 1268181.5 | 129.154 | mg/L | 1.2649 | 129.154 | mg/L | 1.2649 | 0.98% |
| Ni 231.604† | 1.5 | 0.0001730 | mg/L | 0.00120097 | 0.0001730 | mg/L | 0.00120097 | 694.26% |
| Se 196.026† | 0.5 | -0.0022524 | mg/L | 0.00756903 | -0.0022524 | mg/L | 0.00756903 | 336.05% |
| Sn 189.927† | -6.9 | -0.0193791 | mg/L | 0.00595170 | -0.0193791 | mg/L | 0.00595170 | 30.71% |
| Ti 334.940† | -14.8 | 0.0008828 | mg/L | 0.00053714 | 0.0008828 | mg/L | 0.00053714 | 60.85% |
| V 290.880† | 164.4 | 0.0139991 | mg/L | 0.00105279 | 0.0139991 | mg/L | 0.00105279 | 7.52% |
| Zn 206.200† | 3.8 | 0.0003489 | mg/L | 0.00039952 | 0.0003489 | mg/L | 0.00039952 | 114.52% |
| Si 251.611† | 2289.0 | 0.792860 | mg/L | 0.0055091 | 0.792860 | mg/L | 0.0055091 | 0.69% |
| B 249.772† | 1280.5 | 0.175231 | mg/L | 0.0011701 | 0.175231 | mg/L | 0.0011701 | 0.67% |
| Ce 413.764† | -37.3 | -0.0124723 | mg/L | 0.01362157 | -0.0124723 | mg/L | 0.01362157 | 109.21% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 51 Autosampler Location: 114
Sample ID: AD26083-040 MR 10D Date Collected: 9/29/2021 6:33:14 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-040 MR 10D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91918.9 | 98.2 | % | 0.16 | 98.2 | % | 0.16 | 0.16% |
| Y 371.029 | 35930.2 | 98.3 | % | 0.39 | 98.3 | % | 0.39 | 0.39% |
| Al 308.215† | 42.1 | 0.0630043 | mg/L | 0.01560974 | 0.0630043 | mg/L | 0.01560974 | 24.78% |
| Ba 233.527† | 1146.5 | 0.241233 | mg/L | 0.0012199 | 0.241233 | mg/L | 0.0012199 | 0.51% |
| Ca 315.887† | 54023.8 | 10.1938 | mg/L | 0.04007 | 10.1938 | mg/L | 0.04007 | 0.39% |
| Cu 327.393† | 34.2 | 0.0047848 | mg/L | 0.00173855 | 0.0047848 | mg/L | 0.00173855 | 36.33% |
| Fe 273.955† | 1370.3 | 1.15343 | mg/L | 0.004835 | 1.15343 | mg/L | 0.004835 | 0.42% |
| K 766.490† | 21081.4 | 11.1952 | mg/L | 0.06062 | 11.1952 | mg/L | 0.06062 | 0.54% |
| Mg 279.077† | 10266.9 | 15.4758 | mg/L | 0.09199 | 15.4758 | mg/L | 0.09199 | 0.59% |
| Mn 257.610† | 1666.0 | 0.0573525 | mg/L | 0.00005540 | 0.0573525 | mg/L | 0.00005540 | 0.10% |
| Mo 202.031† | -2.8 | 0.0013207 | mg/L | 0.00092941 | 0.0013207 | mg/L | 0.00092941 | 70.37% |
| Na 589.592† | 1345957.9 | 137.073 | mg/L | 0.6392 | 137.073 | mg/L | 0.6392 | 0.47% |
| Ni 231.604† | 1.6 | 0.0002793 | mg/L | 0.00211590 | 0.0002793 | mg/L | 0.00211590 | 757.67% |
| Se 196.026† | 4.9 | 0.0136313 | mg/L | 0.00285107 | 0.0136313 | mg/L | 0.00285107 | 20.92% |
| Sn 189.927† | -6.2 | -0.0173033 | mg/L | 0.00635510 | -0.0173033 | mg/L | 0.00635510 | 36.73% |
| Ti 334.940† | 37.6 | 0.0021271 | mg/L | 0.00017680 | 0.0021271 | mg/L | 0.00017680 | 8.31% |
| V 290.880† | 164.4 | 0.0136007 | mg/L | 0.00185061 | 0.0136007 | mg/L | 0.00185061 | 13.61% |
| Zn 206.200† | 0.5 | -0.0005356 | mg/L | 0.00200836 | -0.0005356 | mg/L | 0.00200836 | 374.95% |
| Si 251.611† | 2704.9 | 0.944865 | mg/L | 0.0077649 | 0.944865 | mg/L | 0.0077649 | 0.82% |
| B 249.772† | 1358.8 | 0.186008 | mg/L | 0.0003996 | 0.186008 | mg/L | 0.0003996 | 0.21% |
| Ce 413.764† | -61.7 | -0.0178085 | mg/L | 0.00469517 | -0.0178085 | mg/L | 0.00469517 | 26.36% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 52 Autosampler Location: 115
Sample ID: AD26083-042 MS 1 10D Date Collected: 9/29/2021 6:37:22 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-042 MS 1 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91888.0 | 98.2 | % | 0.20 | 98.2 | % | 0.20 | 0.21% |
| Y 371.029 | 35854.0 | 98.1 | % | 0.32 | 98.1 | % | 0.32 | 0.33% |
| Al 308.215† | 473.7 | 0.522142 | mg/L | 0.0143824 | 0.522142 | mg/L | 0.0143824 | 2.75% |
| Ba 233.527† | 1333.3 | 0.280400 | mg/L | 0.0013230 | 0.280400 | mg/L | 0.0013230 | 0.47% |
| Ca 315.887† | 77723.2 | 14.6925 | mg/L | 0.00509 | 14.6925 | mg/L | 0.00509 | 0.03% |
| Cu 327.393† | 275.6 | 0.0565598 | mg/L | 0.00374062 | 0.0565598 | mg/L | 0.00374062 | 6.61% |
| Fe 273.955† | 1849.7 | 1.56135 | mg/L | 0.004705 | 1.56135 | mg/L | 0.004705 | 0.30% |
| K 766.490† | 29824.2 | 15.7313 | mg/L | 0.02283 | 15.7313 | mg/L | 0.02283 | 0.15% |
| Mg 279.077† | 13147.4 | 19.8501 | mg/L | 0.10605 | 19.8501 | mg/L | 0.10605 | 0.53% |
| Mn 257.610† | 3093.6 | 0.105890 | mg/L | 0.0005061 | 0.105890 | mg/L | 0.0005061 | 0.48% |
| Mo 202.031† | 62.7 | 0.0468989 | mg/L | 0.00309324 | 0.0468989 | mg/L | 0.00309324 | 6.60% |
| Na 589.592† | 1352827.5 | 137.773 | mg/L | 0.3163 | 137.773 | mg/L | 0.3163 | 0.23% |
| Ni 231.604† | 97.3 | 0.0497875 | mg/L | 0.00480787 | 0.0497875 | mg/L | 0.00480787 | 9.66% |
| Se 196.026† | 10.1 | 0.0330212 | mg/L | 0.00947310 | 0.0330212 | mg/L | 0.00947310 | 28.69% |
| Sn 189.927† | 10.5 | 0.0354915 | mg/L | 0.00692938 | 0.0354915 | mg/L | 0.00692938 | 19.52% |
| Ti 334.940† | 2283.1 | 0.0521266 | mg/L | 0.00261102 | 0.0521266 | mg/L | 0.00261102 | 5.01% |
| V 290.880† | 592.1 | 0.0623463 | mg/L | 0.00277212 | 0.0623463 | mg/L | 0.00277212 | 4.45% |
| Zn 206.200† | 184.1 | 0.0486351 | mg/L | 0.00226770 | 0.0486351 | mg/L | 0.00226770 | 4.66% |
| Si 251.611† | 2764.5 | 0.966656 | mg/L | 0.0140235 | 0.966656 | mg/L | 0.0140235 | 1.45% |
| B 249.772† | 1650.9 | 0.225819 | mg/L | 0.0017331 | 0.225819 | mg/L | 0.0017331 | 0.77% |
| Ce 413.764† | 217.4 | 0.0432510 | mg/L | 0.00941075 | 0.0432510 | mg/L | 0.00941075 | 21.76% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 53
Autosampler Location: 116
Sample ID: AD26083-044 MS 2 10D
Date Collected: 9/29/2021 6:41:31 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-044 MS 2 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91855.4 | 98.2 | % | 0.89 | 98.2 | % | 0.89 | 0.91% |
| Y 371.029 | 35820.5 | 98.0 | % | 0.83 | 98.0 | % | 0.83 | 0.85% |
| Al 308.215† | 470.7 | 0.518457 | mg/L | 0.0084519 | 0.518457 | mg/L | 0.0084519 | 1.63% |
| Ba 233.527† | 1358.2 | 0.285638 | mg/L | 0.0030220 | 0.285638 | mg/L | 0.0030220 | 1.06% |
| Ca 315.887† | 78581.9 | 14.8555 | mg/L | 0.11860 | 14.8555 | mg/L | 0.11860 | 0.80% |
| Cu 327.393† | 276.3 | 0.0567783 | mg/L | 0.00659805 | 0.0567783 | mg/L | 0.00659805 | 11.62% |
| Fe 273.955† | 1877.0 | 1.58460 | mg/L | 0.031938 | 1.58460 | mg/L | 0.031938 | 2.02% |
| K 766.490† | 30156.7 | 15.9039 | mg/L | 0.11769 | 15.9039 | mg/L | 0.11769 | 0.74% |
| Mg 279.077† | 13330.5 | 20.1281 | mg/L | 0.16392 | 20.1281 | mg/L | 0.16392 | 0.81% |
| Mn 257.610† | 3121.8 | 0.106885 | mg/L | 0.0009985 | 0.106885 | mg/L | 0.0009985 | 0.93% |
| Mo 202.031† | 64.9 | 0.0484721 | mg/L | 0.00049538 | 0.0484721 | mg/L | 0.00049538 | 1.02% |
| Na 589.592† | 1379723.5 | 140.511 | mg/L | 2.0525 | 140.511 | mg/L | 2.0525 | 1.46% |
| Ni 231.604† | 98.0 | 0.0501291 | mg/L | 0.00373155 | 0.0501291 | mg/L | 0.00373155 | 7.44% |
| Se 196.026† | 13.9 | 0.0463527 | mg/L | 0.01353872 | 0.0463527 | mg/L | 0.01353872 | 29.21% |
| Sn 189.927† | 8.0 | 0.0279391 | mg/L | 0.01365045 | 0.0279391 | mg/L | 0.01365045 | 48.86% |
| Ti 334.940† | 2208.4 | 0.0505156 | mg/L | 0.00114735 | 0.0505156 | mg/L | 0.00114735 | 2.27% |
| V 290.880† | 545.8 | 0.0567627 | mg/L | 0.00234337 | 0.0567627 | mg/L | 0.00234337 | 4.13% |
| Zn 206.200† | 187.6 | 0.0495811 | mg/L | 0.00203046 | 0.0495811 | mg/L | 0.00203046 | 4.10% |
| Si 251.611† | 2796.2 | 0.978252 | mg/L | 0.0243984 | 0.978252 | mg/L | 0.0243984 | 2.49% |
| B 249.772† | 1690.1 | 0.231286 | mg/L | 0.0036743 | 0.231286 | mg/L | 0.0036743 | 1.59% |
| Ce 413.764† | 188.6 | 0.0369469 | mg/L | 0.00613171 | 0.0369469 | mg/L | 0.00613171 | 16.60% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 54 Autosampler Location: 117
Sample ID: AD26083-040 PS 10D Date Collected: 9/29/2021 6:45:41 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-040 PS 10D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89533.2 | 95.7 | % | 0.53 | 95.7 | % | 0.53 | 0.56% |
| Y 371.029 | 34632.6 | 94.8 | % | 0.65 | 94.8 | % | 0.65 | 0.69% |
| Al 308.215† | 5198.4 | 5.54510 | mg/L | 0.220137 | 5.54510 | mg/L | 0.220137 | 3.97% |
| Ba 233.527† | 3720.0 | 0.780881 | mg/L | 0.0265679 | 0.780881 | mg/L | 0.0265679 | 3.40% |
| Ca 315.887† | 371314.7 | 70.4233 | mg/L | 8.36518 | 70.4233 | mg/L | 8.36518 | 11.88% |
| Cu 327.393† | 2800.1 | 0.602097 | mg/L | 0.0176295 | 0.602097 | mg/L | 0.0176295 | 2.93% |
| Fe 273.955† | 7710.2 | 6.54863 | mg/L | 0.233623 | 6.54863 | mg/L | 0.233623 | 3.57% |
| K 766.490† | 139900.4 | 72.8440 | mg/L | 8.42558 | 72.8440 | mg/L | 8.42558 | 11.57% |
| Mg 279.077† | 48595.3 | 73.6797 | mg/L | 7.40984 | 73.6797 | mg/L | 7.40984 | 10.06% |
| Mn 257.610† | 17830.2 | 0.608558 | mg/L | 0.0201783 | 0.608558 | mg/L | 0.0201783 | 3.32% |
| Mo 202.031† | 778.5 | 0.545028 | mg/L | 0.0157220 | 0.545028 | mg/L | 0.0157220 | 2.88% |
| Na 589.592† | 1930242.5 | 196.566 | mg/L | 13.3781 | 196.566 | mg/L | 13.3781 | 6.81% |
| Ni 231.604† | 1062.2 | 0.549143 | mg/L | 0.0166276 | 0.549143 | mg/L | 0.0166276 | 3.03% |
| Se 196.026† | 147.6 | 0.531362 | mg/L | 0.0207042 | 0.531362 | mg/L | 0.0207042 | 3.90% |
| Sn 189.927† | 163.4 | 0.520655 | mg/L | 0.0634165 | 0.520655 | mg/L | 0.0634165 | 12.18% |
| Ti 334.940† | 24882.8 | 0.557041 | mg/L | 0.0199114 | 0.557041 | mg/L | 0.0199114 | 3.57% |
| V 290.880† | 4851.9 | 0.543594 | mg/L | 0.0233066 | 0.543594 | mg/L | 0.0233066 | 4.29% |
| Zn 206.200† | 2030.0 | 0.543125 | mg/L | 0.0213542 | 0.543125 | mg/L | 0.0213542 | 3.93% |
| Si 251.611† | 4188.3 | 1.48703 | mg/L | 0.045127 | 1.48703 | mg/L | 0.045127 | 3.03% |
| B 249.772† | 4788.2 | 0.651015 | mg/L | 0.0124845 | 0.651015 | mg/L | 0.0124845 | 1.92% |
| Ce 413.764† | 2289.1 | 0.496384 | mg/L | 0.0064596 | 0.496384 | mg/L | 0.0064596 | 1.30% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 55
Autosampler Location: 118
Sample ID: AD26083-040 SD 10D
Date Collected: 9/29/2021 6:49:52 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-040 SD 10D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93335.0 | 99.8 | % | 0.80 | 99.8 | % | 0.80 | 0.80% |
| Y 371.029 | 35596.5 | 97.4 | % | 0.27 | 97.4 | % | 0.27 | 0.28% |
| Al 308.215† | 1.7 | 0.0189726 | mg/L | 0.00571042 | 0.0189726 | mg/L | 0.00571042 | 30.10% |
| Ba 233.527† | 217.1 | 0.0457833 | mg/L | 0.00084862 | 0.0457833 | mg/L | 0.00084862 | 1.85% |
| Ca 315.887† | 10150.8 | 1.86562 | mg/L | 0.025824 | 1.86562 | mg/L | 0.025824 | 1.38% |
| Cu 327.393† | 32.9 | 0.0006363 | mg/L | 0.00266461 | 0.0006363 | mg/L | 0.00266461 | 418.78% |
| Fe 273.955† | 267.2 | 0.214719 | mg/L | 0.0021991 | 0.214719 | mg/L | 0.0021991 | 1.02% |
| K 766.490† | 3778.9 | 2.21785 | mg/L | 0.009356 | 2.21785 | mg/L | 0.009356 | 0.42% |
| Mg 279.077† | 1908.5 | 2.78310 | mg/L | 0.008619 | 2.78310 | mg/L | 0.008619 | 0.31% |
| Mn 257.610† | 317.0 | 0.0098775 | mg/L | 0.00015644 | 0.0098775 | mg/L | 0.00015644 | 1.58% |
| Mo 202.031† | -1.9 | 0.0019477 | mg/L | 0.00026095 | 0.0019477 | mg/L | 0.00026095 | 13.40% |
| Na 589.592† | 259340.7 | 26.4312 | mg/L | 0.06481 | 26.4312 | mg/L | 0.06481 | 0.25% |
| Ni 231.604† | -8.3 | -0.0051602 | mg/L | 0.00156669 | -0.0051602 | mg/L | 0.00156669 | 30.36% |
| Se 196.026† | 2.8 | 0.0052180 | mg/L | 0.02017190 | 0.0052180 | mg/L | 0.02017190 | 386.59% |
| Sn 189.927† | -1.9 | -0.0067091 | mg/L | 0.00370724 | -0.0067091 | mg/L | 0.00370724 | 55.26% |
| Ti 334.940† | 23.6 | 0.0004677 | mg/L | 0.00051719 | 0.0004677 | mg/L | 0.00051719 | 110.59% |
| V 290.880† | 33.8 | 0.0033008 | mg/L | 0.00175376 | 0.0033008 | mg/L | 0.00175376 | 53.13% |
| Zn 206.200† | 3.4 | 0.0002337 | mg/L | 0.00069486 | 0.0002337 | mg/L | 0.00069486 | 297.35% |
| Si 251.611† | 471.6 | 0.128595 | mg/L | 0.0019360 | 0.128595 | mg/L | 0.0019360 | 1.51% |
| B 249.772† | 260.3 | 0.0338681 | mg/L | 0.00066106 | 0.0338681 | mg/L | 0.00066106 | 1.95% |
| Ce 413.764† | -61.7 | -0.0177994 | mg/L | 0.00991695 | -0.0177994 | mg/L | 0.00991695 | 55.72% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 56 Autosampler Location: 119
Sample ID: AD26083-036 10D Date Collected: 9/29/2021 6:53:59 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-036 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89532.7 | 95.7 | % | 1.14 | 95.7 | % | 1.14 | 1.19% |
| Y 371.029 | 34409.7 | 94.2 | % | 1.06 | 94.2 | % | 1.06 | 1.12% |
| Al 308.215† | 67.0 | 0.0916218 | mg/L | 0.00926942 | 0.0916218 | mg/L | 0.00926942 | 10.12% |
| Ba 233.527† | 29.7 | 0.0061418 | mg/L | 0.00015919 | 0.0061418 | mg/L | 0.00015919 | 2.59% |
| Ca 315.887† | 530614.5 | 100.662 | mg/L | 0.9994 | 100.662 | mg/L | 0.9994 | 0.99% |
| Cu 327.393† | -123.6 | 0.0143193 | mg/L | 0.00666024 | 0.0143193 | mg/L | 0.00666024 | 46.51% |
| Fe 273.955† | 528.7 | 0.437244 | mg/L | 0.0124142 | 0.437244 | mg/L | 0.0124142 | 2.84% |
| K 766.490† | 6345.9 | 3.54972 | mg/L | 0.015247 | 3.54972 | mg/L | 0.015247 | 0.43% |
| Mg 279.077† | 22600.9 | 34.2057 | mg/L | 0.04060 | 34.2057 | mg/L | 0.04060 | 0.12% |
| Mn 257.610† | 18805.0 | 0.633714 | mg/L | 0.0015468 | 0.633714 | mg/L | 0.0015468 | 0.24% |
| Mo 202.031† | -8.6 | -0.0026993 | mg/L | 0.00312887 | -0.0026993 | mg/L | 0.00312887 | 115.91% |
| Na 589.592† | 2497264.1 | 254.302 | mg/L | 1.8086 | 254.302 | mg/L | 1.8086 | 0.71% |
| Ni 231.604† | -13.4 | -0.0077403 | mg/L | 0.00373880 | -0.0077403 | mg/L | 0.00373880 | 48.30% |
| Se 196.026† | 3.1 | 0.0066873 | mg/L | 0.01540915 | 0.0066873 | mg/L | 0.01540915 | 230.43% |
| Sn 189.927† | -14.5 | -0.0300681 | mg/L | 0.00804683 | -0.0300681 | mg/L | 0.00804683 | 26.76% |
| Ti 334.940† | -522.4 | 0.0045463 | mg/L | 0.00413915 | 0.0045463 | mg/L | 0.00413915 | 91.05% |
| V 290.880† | 377.2 | 0.0311850 | mg/L | 0.00517317 | 0.0311850 | mg/L | 0.00517317 | 16.59% |
| Zn 206.200† | 16.3 | 0.0036942 | mg/L | 0.00057760 | 0.0036942 | mg/L | 0.00057760 | 15.64% |
| Si 251.611† | 2648.7 | 0.924319 | mg/L | 0.0030083 | 0.924319 | mg/L | 0.0030083 | 0.33% |
| B 249.772† | 329.2 | 0.0427399 | mg/L | 0.00123010 | 0.0427399 | mg/L | 0.00123010 | 2.88% |
| Ce 413.764† | -19.2 | -0.0085026 | mg/L | 0.00439697 | -0.0085026 | mg/L | 0.00439697 | 51.71% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 57 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/29/2021 6:58:10 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91406.9 | 97.7 | % | 0.37 | 97.7 | % | 0.37 | 0.38% |
| Y 371.029 | 34636.8 | 94.8 | % | 0.92 | 94.8 | % | 0.92 | 0.97% |
| Al 308.215† | 4646.2 | 4.95540 | mg/L | 0.069016 | 4.95540 | mg/L | 0.069016 | 1.39% |
| QC value within limits for Al 308.215 Recovery = 99.11% | | | | | | | | |
| Ba 233.527† | 2326.8 | 0.488051 | mg/L | 0.0013005 | 0.488051 | mg/L | 0.0013005 | 0.27% |
| QC value within limits for Ba 233.527 Recovery = 97.61% | | | | | | | | |
| Ca 315.887† | 255298.1 | 48.4005 | mg/L | 0.07524 | 48.4005 | mg/L | 0.07524 | 0.16% |
| QC value within limits for Ca 315.887 Recovery = 96.80% | | | | | | | | |
| Cu 327.393† | 2442.2 | 0.518184 | mg/L | 0.0073459 | 0.518184 | mg/L | 0.0073459 | 1.42% |
| QC value within limits for Cu 327.393 Recovery = 103.64% | | | | | | | | |
| Fe 273.955† | 5729.4 | 4.86295 | mg/L | 0.079982 | 4.86295 | mg/L | 0.079982 | 1.64% |
| QC value within limits for Fe 273.955 Recovery = 97.26% | | | | | | | | |
| K 766.490† | 92720.5 | 48.3649 | mg/L | 0.06562 | 48.3649 | mg/L | 0.06562 | 0.14% |
| QC value within limits for K 766.490 Recovery = 96.73% | | | | | | | | |
| Mg 279.077† | 32192.4 | 48.7709 | mg/L | 0.59460 | 48.7709 | mg/L | 0.59460 | 1.22% |
| QC value within limits for Mg 279.077 Recovery = 97.54% | | | | | | | | |
| Mn 257.610† | 14563.4 | 0.494687 | mg/L | 0.0065762 | 0.494687 | mg/L | 0.0065762 | 1.33% |
| QC value within limits for Mn 257.610 Recovery = 98.94% | | | | | | | | |
| Mo 202.031† | 692.1 | 0.484884 | mg/L | 0.0020314 | 0.484884 | mg/L | 0.0020314 | 0.42% |
| QC value within limits for Mo 202.031 Recovery = 96.98% | | | | | | | | |
| Na 589.592† | 481054.3 | 49.0066 | mg/L | 0.06938 | 49.0066 | mg/L | 0.06938 | 0.14% |
| QC value within limits for Na 589.592 Recovery = 98.01% | | | | | | | | |
| Ni 231.604† | 949.8 | 0.490570 | mg/L | 0.0075572 | 0.490570 | mg/L | 0.0075572 | 1.54% |
| QC value within limits for Ni 231.604 Recovery = 98.11% | | | | | | | | |
| Se 196.026† | 132.2 | 0.474644 | mg/L | 0.0229046 | 0.474644 | mg/L | 0.0229046 | 4.83% |
| QC value within limits for Se 196.026 Recovery = 94.93% | | | | | | | | |
| Sn 189.927† | 153.9 | 0.485154 | mg/L | 0.0073886 | 0.485154 | mg/L | 0.0073886 | 1.52% |
| QC value within limits for Sn 189.927 Recovery = 97.03% | | | | | | | | |
| Ti 334.940† | 22174.8 | 0.494046 | mg/L | 0.0057476 | 0.494046 | mg/L | 0.0057476 | 1.16% |
| QC value within limits for Ti 334.940 Recovery = 98.81% | | | | | | | | |
| V 290.880† | 4134.9 | 0.468971 | mg/L | 0.0051312 | 0.468971 | mg/L | 0.0051312 | 1.09% |
| QC value within limits for V 290.880 Recovery = 93.79% | | | | | | | | |
| Zn 206.200† | 1818.3 | 0.486417 | mg/L | 0.0011975 | 0.486417 | mg/L | 0.0011975 | 0.25% |
| QC value within limits for Zn 206.200 Recovery = 97.28% | | | | | | | | |
| Si 251.611† | 13437.0 | 4.86745 | mg/L | 0.070860 | 4.86745 | mg/L | 0.070860 | 1.46% |
| QC value within limits for Si 251.611 Recovery = 97.35% | | | | | | | | |
| B 249.772† | 3449.2 | 0.467758 | mg/L | 0.0088912 | 0.467758 | mg/L | 0.0088912 | 1.90% |
| QC value within limits for B 249.772 Recovery = 93.55% | | | | | | | | |
| Ce 413.764† | 2174.2 | 0.471250 | mg/L | 0.0059283 | 0.471250 | mg/L | 0.0059283 | 1.26% |
| QC value within limits for Ce 413.764 Recovery = 94.25% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 58 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 7:02:17 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91147.1 | 97.4 | % | 0.46 | 97.4 | % | 0.46 | 0.48% |
| Y 371.029 | 35881.3 | 98.2 | % | 0.37 | 98.2 | % | 0.37 | 0.38% |
| Al 308.215† | 4.2 | 0.0211537 | mg/L | 0.00306820 | 0.0211537 | mg/L | 0.00306820 | 14.50% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 4.6 | 0.0011110 | mg/L | 0.00053446 | 0.0011110 | mg/L | 0.00053446 | 48.11% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 7.7 | -0.0597959 | mg/L | 0.00748252 | -0.0597959 | mg/L | 0.00748252 | 12.51% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 51.8 | 0.0036306 | mg/L | 0.00285876 | 0.0036306 | mg/L | 0.00285876 | 78.74% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -4.5 | -0.0165156 | mg/L | 0.00568182 | -0.0165156 | mg/L | 0.00568182 | 34.40% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -56.8 | 0.227712 | mg/L | 0.0190542 | 0.227712 | mg/L | 0.0190542 | 8.37% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 3.5 | -0.109710 | mg/L | 0.0072014 | -0.109710 | mg/L | 0.0072014 | 6.56% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -12.2 | -0.0016721 | mg/L | 0.00007646 | -0.0016721 | mg/L | 0.00007646 | 4.57% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -0.2 | 0.0031840 | mg/L | 0.00035582 | 0.0031840 | mg/L | 0.00035582 | 11.18% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 765.9 | 0.102567 | mg/L | 0.0038675 | 0.102567 | mg/L | 0.0038675 | 3.77% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -4.9 | -0.0034925 | mg/L | 0.00438573 | -0.0034925 | mg/L | 0.00438573 | 125.58% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 1.4 | 0.0000531 | mg/L | 0.00616803 | 0.0000531 | mg/L | 0.00616803 | >999.9% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 2.2 | 0.0053010 | mg/L | 0.00503120 | 0.0053010 | mg/L | 0.00503120 | 94.91% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 19.8 | 0.0000719 | mg/L | 0.00008643 | 0.0000719 | mg/L | 0.00008643 | 120.27% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -1.8 | 0.0002566 | mg/L | 0.00111584 | 0.0002566 | mg/L | 0.00111584 | 434.90% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 0.1 | -0.0006501 | mg/L | 0.00171296 | -0.0006501 | mg/L | 0.00171296 | 263.50% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 13.1 | -0.0390082 | mg/L | 0.00154247 | -0.0390082 | mg/L | 0.00154247 | 3.95% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 10.5 | -0.0006706 | mg/L | 0.00053004 | -0.0006706 | mg/L | 0.00053004 | 79.04% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -50.9 | -0.0154329 | mg/L | 0.01485600 | -0.0154329 | mg/L | 0.01485600 | 96.26% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 59
Autosampler Location: 120
Sample ID: AD26083-041 10D
Date Collected: 9/29/2021 7:06:09 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-041 10D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90922.0 | 97.2 | % | 0.34 | 97.2 | % | 0.34 | 0.35% |
| Y 371.029 | 35581.0 | 97.4 | % | 0.52 | 97.4 | % | 0.52 | 0.53% |
| Al 308.215† | -7.0 | 0.0106261 | mg/L | 0.01219278 | 0.0106261 | mg/L | 0.01219278 | 114.74% |
| Ba 233.527† | 819.8 | 0.172560 | mg/L | 0.0015607 | 0.172560 | mg/L | 0.0015607 | 0.90% |
| Ca 315.887† | 39034.4 | 7.34843 | mg/L | 0.145227 | 7.34843 | mg/L | 0.145227 | 1.98% |
| Cu 327.393† | 35.3 | 0.0036798 | mg/L | 0.00302723 | 0.0036798 | mg/L | 0.00302723 | 82.27% |
| Fe 273.955† | 942.5 | 0.789394 | mg/L | 0.0152377 | 0.789394 | mg/L | 0.0152377 | 1.93% |
| K 766.490† | 15088.4 | 8.08572 | mg/L | 0.144536 | 8.08572 | mg/L | 0.144536 | 1.79% |
| Mg 279.077† | 7395.4 | 11.1154 | mg/L | 0.19585 | 11.1154 | mg/L | 0.19585 | 1.76% |
| Mn 257.610† | 1177.8 | 0.0402133 | mg/L | 0.00035726 | 0.0402133 | mg/L | 0.00035726 | 0.89% |
| Mo 202.031† | -1.9 | 0.0019914 | mg/L | 0.00090893 | 0.0019914 | mg/L | 0.00090893 | 45.64% |
| Na 589.592† | 970290.4 | 98.8218 | mg/L | 2.79502 | 98.8218 | mg/L | 2.79502 | 2.83% |
| Ni 231.604† | 2.7 | 0.0007312 | mg/L | 0.00379412 | 0.0007312 | mg/L | 0.00379412 | 518.88% |
| Se 196.026† | 4.7 | 0.0127994 | mg/L | 0.01004402 | 0.0127994 | mg/L | 0.01004402 | 78.47% |
| Sn 189.927† | -6.5 | -0.0190293 | mg/L | 0.00617710 | -0.0190293 | mg/L | 0.00617710 | 32.46% |
| Ti 334.940† | -18.4 | 0.0004369 | mg/L | 0.00054917 | 0.0004369 | mg/L | 0.00054917 | 125.69% |
| V 290.880† | 120.5 | 0.0101743 | mg/L | 0.00064188 | 0.0101743 | mg/L | 0.00064188 | 6.31% |
| Zn 206.200† | -0.7 | -0.0008541 | mg/L | 0.00124396 | -0.0008541 | mg/L | 0.00124396 | 145.64% |
| Si 251.611† | 1710.7 | 0.581473 | mg/L | 0.0092279 | 0.581473 | mg/L | 0.0092279 | 1.59% |
| B 249.772† | 971.4 | 0.132475 | mg/L | 0.0014471 | 0.132475 | mg/L | 0.0014471 | 1.09% |
| Ce 413.764† | -29.9 | -0.0108380 | mg/L | 0.00497993 | -0.0108380 | mg/L | 0.00497993 | 45.95% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 60
Autosampler Location: 121
Sample ID: AD26083-041 MR 10D
Date Collected: 9/29/2021 7:10:18 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-041 MR 10D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90733.0 | 97.0 | % | 0.24 | 97.0 | % | 0.24 | 0.25% |
| Y 371.029 | 35429.9 | 96.9 | % | 0.29 | 96.9 | % | 0.29 | 0.29% |
| Al 308.215† | -3.6 | 0.0142956 | mg/L | 0.00416100 | 0.0142956 | mg/L | 0.00416100 | 29.11% |
| Ba 233.527† | 892.4 | 0.187820 | mg/L | 0.0017193 | 0.187820 | mg/L | 0.0017193 | 0.92% |
| Ca 315.887† | 42168.6 | 7.94337 | mg/L | 0.067591 | 7.94337 | mg/L | 0.067591 | 0.85% |
| Cu 327.393† | 23.4 | 0.0015064 | mg/L | 0.00195478 | 0.0015064 | mg/L | 0.00195478 | 129.76% |
| Fe 273.955† | 1029.0 | 0.862953 | mg/L | 0.0054667 | 0.862953 | mg/L | 0.0054667 | 0.63% |
| K 766.490† | 16365.1 | 8.74811 | mg/L | 0.039233 | 8.74811 | mg/L | 0.039233 | 0.45% |
| Mg 279.077† | 8010.2 | 12.0489 | mg/L | 0.11853 | 12.0489 | mg/L | 0.11853 | 0.98% |
| Mn 257.610† | 1293.2 | 0.0442453 | mg/L | 0.00038203 | 0.0442453 | mg/L | 0.00038203 | 0.86% |
| Mo 202.031† | -2.5 | 0.0015945 | mg/L | 0.00114180 | 0.0015945 | mg/L | 0.00114180 | 71.61% |
| Na 589.592† | 1061806.8 | 108.140 | mg/L | 1.0124 | 108.140 | mg/L | 1.0124 | 0.94% |
| Ni 231.604† | -2.4 | -0.0018750 | mg/L | 0.00178228 | -0.0018750 | mg/L | 0.00178228 | 95.06% |
| Se 196.026† | -0.6 | -0.0064076 | mg/L | 0.01594402 | -0.0064076 | mg/L | 0.01594402 | 248.83% |
| Sn 189.927† | -7.2 | -0.0209932 | mg/L | 0.01179905 | -0.0209932 | mg/L | 0.01179905 | 56.20% |
| Ti 334.940† | -35.0 | 0.0001688 | mg/L | 0.00080580 | 0.0001688 | mg/L | 0.00080580 | 477.35% |
| V 290.880† | 125.8 | 0.0104240 | mg/L | 0.00063410 | 0.0104240 | mg/L | 0.00063410 | 6.08% |
| Zn 206.200† | -0.3 | -0.0007421 | mg/L | 0.00118616 | -0.0007421 | mg/L | 0.00118616 | 159.84% |
| Si 251.611† | 1871.6 | 0.640291 | mg/L | 0.0052412 | 0.640291 | mg/L | 0.0052412 | 0.82% |
| B 249.772† | 1063.6 | 0.145267 | mg/L | 0.0022598 | 0.145267 | mg/L | 0.0022598 | 1.56% |
| Ce 413.764† | -28.8 | -0.0106080 | mg/L | 0.00985304 | -0.0106080 | mg/L | 0.00985304 | 92.88% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 61
Autosampler Location: 122
Sample ID: AD26083-043 MS 1 10D
Date Collected: 9/29/2021 7:14:27 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-043 MS 1 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90672.3 | 96.9 | % | 0.34 | 96.9 | % | 0.34 | 0.35% |
| Y 371.029 | 35405.5 | 96.9 | % | 0.41 | 96.9 | % | 0.41 | 0.43% |
| Al 308.215† | 460.4 | 0.507753 | mg/L | 0.0094687 | 0.507753 | mg/L | 0.0094687 | 1.86% |
| Ba 233.527† | 1087.1 | 0.228638 | mg/L | 0.0027066 | 0.228638 | mg/L | 0.0027066 | 1.18% |
| Ca 315.887† | 65935.6 | 12.4549 | mg/L | 0.15631 | 12.4549 | mg/L | 0.15631 | 1.26% |
| Cu 327.393† | 311.1 | 0.0628283 | mg/L | 0.00258642 | 0.0628283 | mg/L | 0.00258642 | 4.12% |
| Fe 273.955† | 1540.5 | 1.29827 | mg/L | 0.014222 | 1.29827 | mg/L | 0.014222 | 1.10% |
| K 766.490† | 25180.5 | 13.3220 | mg/L | 0.15558 | 13.3220 | mg/L | 0.15558 | 1.17% |
| Mg 279.077† | 10904.0 | 16.4433 | mg/L | 0.23304 | 16.4433 | mg/L | 0.23304 | 1.42% |
| Mn 257.610† | 2739.0 | 0.0933971 | mg/L | 0.00049308 | 0.0933971 | mg/L | 0.00049308 | 0.53% |
| Mo 202.031† | 66.8 | 0.0497529 | mg/L | 0.00035576 | 0.0497529 | mg/L | 0.00035576 | 0.72% |
| Na 589.592† | 1045604.9 | 106.490 | mg/L | 1.4186 | 106.490 | mg/L | 1.4186 | 1.33% |
| Ni 231.604† | 100.6 | 0.0514118 | mg/L | 0.00501561 | 0.0514118 | mg/L | 0.00501561 | 9.76% |
| Se 196.026† | 11.1 | 0.0360787 | mg/L | 0.01396875 | 0.0360787 | mg/L | 0.01396875 | 38.72% |
| Sn 189.927† | 11.1 | 0.0363708 | mg/L | 0.00402449 | 0.0363708 | mg/L | 0.00402449 | 11.07% |
| Ti 334.940† | 2252.4 | 0.0510902 | mg/L | 0.00074207 | 0.0510902 | mg/L | 0.00074207 | 1.45% |
| V 290.880† | 566.4 | 0.0606740 | mg/L | 0.00816574 | 0.0606740 | mg/L | 0.00816574 | 13.46% |
| Zn 206.200† | 192.9 | 0.0510110 | mg/L | 0.00219242 | 0.0510110 | mg/L | 0.00219242 | 4.30% |
| Si 251.611† | 1901.5 | 0.651213 | mg/L | 0.0105655 | 0.651213 | mg/L | 0.0105655 | 1.62% |
| B 249.772† | 1354.0 | 0.184741 | mg/L | 0.0022939 | 0.184741 | mg/L | 0.0022939 | 1.24% |
| Ce 413.764† | 198.1 | 0.0390241 | mg/L | 0.00146560 | 0.0390241 | mg/L | 0.00146560 | 3.76% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 62
Autosampler Location: 123
Sample ID: AD26083-045 MS 2 10D
Date Collected: 9/29/2021 7:18:37 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-045 MS 2 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90552.3 | 96.8 | % | 0.97 | 96.8 | % | 0.97 | 1.00% |
| Y 371.029 | 35263.9 | 96.5 | % | 0.78 | 96.5 | % | 0.78 | 0.81% |
| Al 308.215† | 461.3 | 0.508616 | mg/L | 0.0365063 | 0.508616 | mg/L | 0.0365063 | 7.18% |
| Ba 233.527† | 1101.9 | 0.231735 | mg/L | 0.0116280 | 0.231735 | mg/L | 0.0116280 | 5.02% |
| Ca 315.887† | 68059.8 | 12.8581 | mg/L | 0.88507 | 12.8581 | mg/L | 0.88507 | 6.88% |
| Cu 327.393† | 287.4 | 0.0581379 | mg/L | 0.00566604 | 0.0581379 | mg/L | 0.00566604 | 9.75% |
| Fe 273.955† | 1555.9 | 1.31135 | mg/L | 0.071024 | 1.31135 | mg/L | 0.071024 | 5.42% |
| K 766.490† | 26029.4 | 13.7624 | mg/L | 0.81078 | 13.7624 | mg/L | 0.81078 | 5.89% |
| Mg 279.077† | 11264.5 | 16.9907 | mg/L | 1.07777 | 16.9907 | mg/L | 1.07777 | 6.34% |
| Mn 257.610† | 2831.3 | 0.0965855 | mg/L | 0.00732389 | 0.0965855 | mg/L | 0.00732389 | 7.58% |
| Mo 202.031† | 73.3 | 0.0543143 | mg/L | 0.00436235 | 0.0543143 | mg/L | 0.00436235 | 8.03% |
| Na 589.592† | 1101171.8 | 112.148 | mg/L | 6.2553 | 112.148 | mg/L | 6.2553 | 5.58% |
| Ni 231.604† | 96.5 | 0.0493003 | mg/L | 0.00486229 | 0.0493003 | mg/L | 0.00486229 | 9.86% |
| Se 196.026† | 14.0 | 0.0467152 | mg/L | 0.01776173 | 0.0467152 | mg/L | 0.01776173 | 38.02% |
| Sn 189.927† | 10.7 | 0.0354582 | mg/L | 0.00081160 | 0.0354582 | mg/L | 0.00081160 | 2.29% |
| Ti 334.940† | 2319.9 | 0.0526372 | mg/L | 0.00375291 | 0.0526372 | mg/L | 0.00375291 | 7.13% |
| V 290.880† | 571.4 | 0.0610422 | mg/L | 0.00278173 | 0.0610422 | mg/L | 0.00278173 | 4.56% |
| Zn 206.200† | 193.4 | 0.0511394 | mg/L | 0.00290149 | 0.0511394 | mg/L | 0.00290149 | 5.67% |
| Si 251.611† | 1945.0 | 0.667135 | mg/L | 0.0334055 | 0.667135 | mg/L | 0.0334055 | 5.01% |
| B 249.772† | 1369.3 | 0.186862 | mg/L | 0.0088900 | 0.186862 | mg/L | 0.0088900 | 4.76% |
| Ce 413.764† | 226.2 | 0.0451719 | mg/L | 0.00897274 | 0.0451719 | mg/L | 0.00897274 | 19.86% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 63
Autosampler Location: 124
Sample ID: AD26083-041 PS 10D
Date Collected: 9/29/2021 7:22:45 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-041 PS 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 88829.3 | 94.9 | % | 0.80 | 94.9 | % | 0.80 | 0.84% |
| Y 371.029 | 34176.8 | 93.5 | % | 0.96 | 93.5 | % | 0.96 | 1.03% |
| Al 308.215† | 5100.7 | 5.44071 | mg/L | 0.188642 | 5.44071 | mg/L | 0.188642 | 3.47% |
| Ba 233.527† | 3407.0 | 0.715097 | mg/L | 0.0263442 | 0.715097 | mg/L | 0.0263442 | 3.68% |
| Ca 315.887† | 349962.5 | 66.3702 | mg/L | 12.02631 | 66.3702 | mg/L | 12.02631 | 18.12% |
| Cu 327.393† | 2757.1 | 0.591347 | mg/L | 0.0262678 | 0.591347 | mg/L | 0.0262678 | 4.44% |
| Fe 273.955† | 7252.0 | 6.15869 | mg/L | 0.203582 | 6.15869 | mg/L | 0.203582 | 3.31% |
| K 766.490† | 134575.0 | 70.0810 | mg/L | 12.38582 | 70.0810 | mg/L | 12.38582 | 17.67% |
| Mg 279.077† | 45138.1 | 68.4296 | mg/L | 10.43828 | 68.4296 | mg/L | 10.43828 | 15.25% |
| Mn 257.610† | 17202.7 | 0.586599 | mg/L | 0.0208039 | 0.586599 | mg/L | 0.0208039 | 3.55% |
| Mo 202.031† | 757.0 | 0.530058 | mg/L | 0.0189077 | 0.530058 | mg/L | 0.0189077 | 3.57% |
| Na 589.592† | 1638231.1 | 166.833 | mg/L | 18.6358 | 166.833 | mg/L | 18.6358 | 11.17% |
| Ni 231.604† | 1033.9 | 0.534392 | mg/L | 0.0133880 | 0.534392 | mg/L | 0.0133880 | 2.51% |
| Se 196.026† | 140.8 | 0.506585 | mg/L | 0.0445563 | 0.506585 | mg/L | 0.0445563 | 8.80% |
| Sn 189.927† | 164.1 | 0.521479 | mg/L | 0.0137493 | 0.521479 | mg/L | 0.0137493 | 2.64% |
| Ti 334.940† | 24377.7 | 0.545298 | mg/L | 0.0193786 | 0.545298 | mg/L | 0.0193786 | 3.55% |
| V 290.880† | 4722.8 | 0.530465 | mg/L | 0.0191935 | 0.530465 | mg/L | 0.0191935 | 3.62% |
| Zn 206.200† | 1974.4 | 0.528228 | mg/L | 0.0197680 | 0.528228 | mg/L | 0.0197680 | 3.74% |
| Si 251.611† | 3536.4 | 1.24877 | mg/L | 0.062823 | 1.24877 | mg/L | 0.062823 | 5.03% |
| B 249.772† | 4476.4 | 0.608336 | mg/L | 0.0230819 | 0.608336 | mg/L | 0.0230819 | 3.79% |
| Ce 413.764† | 2292.0 | 0.497007 | mg/L | 0.0219046 | 0.497007 | mg/L | 0.0219046 | 4.41% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 64 Autosampler Location: 125
Sample ID: AD26083-041 SD 10D Date Collected: 9/29/2021 7:26:56 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-041 SD 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92228.4 | 98.6 | % | 0.32 | 98.6 | % | 0.32 | 0.33% |
| Y 371.029 | 34893.5 | 95.5 | % | 0.39 | 95.5 | % | 0.39 | 0.41% |
| Al 308.215† | -8.0 | 0.0084113 | mg/L | 0.00701951 | 0.0084113 | mg/L | 0.00701951 | 83.45% |
| Ba 233.527† | 164.2 | 0.0346666 | mg/L | 0.00088382 | 0.0346666 | mg/L | 0.00088382 | 2.55% |
| Ca 315.887† | 7542.3 | 1.37046 | mg/L | 0.017545 | 1.37046 | mg/L | 0.017545 | 1.28% |
| Cu 327.393† | 48.8 | 0.0036884 | mg/L | 0.00318562 | 0.0036884 | mg/L | 0.00318562 | 86.37% |
| Fe 273.955† | 183.9 | 0.143819 | mg/L | 0.0069947 | 0.143819 | mg/L | 0.0069947 | 4.86% |
| K 766.490† | 2783.5 | 1.70135 | mg/L | 0.024021 | 1.70135 | mg/L | 0.024021 | 1.41% |
| Mg 279.077† | 1427.8 | 2.05315 | mg/L | 0.036986 | 2.05315 | mg/L | 0.036986 | 1.80% |
| Mn 257.610† | 235.7 | 0.0070220 | mg/L | 0.00015207 | 0.0070220 | mg/L | 0.00015207 | 2.17% |
| Mo 202.031† | -2.1 | 0.0018491 | mg/L | 0.00328838 | 0.0018491 | mg/L | 0.00328838 | 177.84% |
| Na 589.592† | 195928.0 | 19.9744 | mg/L | 0.05486 | 19.9744 | mg/L | 0.05486 | 0.27% |
| Ni 231.604† | -13.3 | -0.0077634 | mg/L | 0.00070072 | -0.0077634 | mg/L | 0.00070072 | 9.03% |
| Se 196.026† | -2.0 | -0.0119318 | mg/L | 0.02631677 | -0.0119318 | mg/L | 0.02631677 | 220.56% |
| Sn 189.927† | -1.8 | -0.0067543 | mg/L | 0.00865324 | -0.0067543 | mg/L | 0.00865324 | 128.11% |
| Ti 334.940† | -0.8 | -0.0001486 | mg/L | 0.00054637 | -0.0001486 | mg/L | 0.00054637 | 367.74% |
| V 290.880† | 18.5 | 0.0017857 | mg/L | 0.00073700 | 0.0017857 | mg/L | 0.00073700 | 41.27% |
| Zn 206.200† | -1.8 | -0.0011477 | mg/L | 0.00089630 | -0.0011477 | mg/L | 0.00089630 | 78.09% |
| Si 251.611† | 343.6 | 0.0818088 | mg/L | 0.00359299 | 0.0818088 | mg/L | 0.00359299 | 4.39% |
| B 249.772† | 198.2 | 0.0253253 | mg/L | 0.00081093 | 0.0253253 | mg/L | 0.00081093 | 3.20% |
| Ce 413.764† | -10.7 | -0.0066452 | mg/L | 0.00626304 | -0.0066452 | mg/L | 0.00626304 | 94.25% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 65
Autosampler Location: 126
Sample ID: AD26083-037 10D
Date Collected: 9/29/2021 7:31:05 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-037 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 88263.9 | 94.3 | % | 0.75 | 94.3 | % | 0.75 | 0.80% |
| Y 371.029 | 33964.2 | 92.9 | % | 0.67 | 92.9 | % | 0.67 | 0.72% |
| Al 308.215† | -7.7 | 0.0118788 | mg/L | 0.00895304 | 0.0118788 | mg/L | 0.00895304 | 75.37% |
| Ba 233.527† | 24.9 | 0.0052756 | mg/L | 0.00046729 | 0.0052756 | mg/L | 0.00046729 | 8.86% |
| Ca 315.887† | 417330.3 | 79.1582 | mg/L | 0.40422 | 79.1582 | mg/L | 0.40422 | 0.51% |
| Cu 327.393† | -98.6 | 0.0094840 | mg/L | 0.00492641 | 0.0094840 | mg/L | 0.00492641 | 51.94% |
| Fe 273.955† | 243.5 | 0.194571 | mg/L | 0.0054739 | 0.194571 | mg/L | 0.0054739 | 2.81% |
| K 766.490† | 4968.6 | 2.83513 | mg/L | 0.011463 | 2.83513 | mg/L | 0.011463 | 0.40% |
| Mg 279.077† | 17741.0 | 26.8257 | mg/L | 0.08577 | 26.8257 | mg/L | 0.08577 | 0.32% |
| Mn 257.610† | 14470.1 | 0.487438 | mg/L | 0.0009969 | 0.487438 | mg/L | 0.0009969 | 0.20% |
| Mo 202.031† | -7.3 | -0.0017536 | mg/L | 0.00289839 | -0.0017536 | mg/L | 0.00289839 | 165.28% |
| Na 589.592† | 1988191.7 | 202.467 | mg/L | 1.0861 | 202.467 | mg/L | 1.0861 | 0.54% |
| Ni 231.604† | -3.8 | -0.0028388 | mg/L | 0.00368699 | -0.0028388 | mg/L | 0.00368699 | 129.88% |
| Se 196.026† | -0.9 | -0.0080955 | mg/L | 0.02297973 | -0.0080955 | mg/L | 0.02297973 | 283.86% |
| Sn 189.927† | -12.5 | -0.0274555 | mg/L | 0.00586322 | -0.0274555 | mg/L | 0.00586322 | 21.36% |
| Ti 334.940† | -631.5 | -0.0013439 | mg/L | 0.00122794 | -0.0013439 | mg/L | 0.00122794 | 91.37% |
| V 290.880† | 307.4 | 0.0259212 | mg/L | 0.00237486 | 0.0259212 | mg/L | 0.00237486 | 9.16% |
| Zn 206.200† | 14.5 | 0.0032236 | mg/L | 0.00036624 | 0.0032236 | mg/L | 0.00036624 | 11.36% |
| Si 251.611† | 1730.8 | 0.588815 | mg/L | 0.0039195 | 0.588815 | mg/L | 0.0039195 | 0.67% |
| B 249.772† | 255.2 | 0.0332145 | mg/L | 0.00153447 | 0.0332145 | mg/L | 0.00153447 | 4.62% |
| Ce 413.764† | 11.9 | -0.0016925 | mg/L | 0.00339425 | -0.0016925 | mg/L | 0.00339425 | 200.55% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 66
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 6
Date Collected: 9/29/2021 7:35:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90568.5 | 96.8 | % | 0.21 | 96.8 | % | 0.21 | 0.21% |
| Y 371.029 | 34194.2 | 93.6 | % | 1.23 | 93.6 | % | 1.23 | 1.31% |
| Al 308.215† | 4606.6 | 4.91324 | mg/L | 0.055212 | 4.91324 | mg/L | 0.055212 | 1.12% |
| QC value within limits for Al 308.215 Recovery = 98.26% | | | | | | | | |
| Ba 233.527† | 2291.7 | 0.480669 | mg/L | 0.0017812 | 0.480669 | mg/L | 0.0017812 | 0.37% |
| QC value within limits for Ba 233.527 Recovery = 96.13% | | | | | | | | |
| Ca 315.887† | 252444.4 | 47.8588 | mg/L | 0.02441 | 47.8588 | mg/L | 0.02441 | 0.05% |
| QC value within limits for Ca 315.887 Recovery = 95.72% | | | | | | | | |
| Cu 327.393† | 2415.8 | 0.512504 | mg/L | 0.0116225 | 0.512504 | mg/L | 0.0116225 | 2.27% |
| QC value within limits for Cu 327.393 Recovery = 102.50% | | | | | | | | |
| Fe 273.955† | 5690.4 | 4.82975 | mg/L | 0.097490 | 4.82975 | mg/L | 0.097490 | 2.02% |
| QC value within limits for Fe 273.955 Recovery = 96.60% | | | | | | | | |
| K 766.490† | 92850.5 | 48.4323 | mg/L | 0.06322 | 48.4323 | mg/L | 0.06322 | 0.13% |
| QC value within limits for K 766.490 Recovery = 96.86% | | | | | | | | |
| Mg 279.077† | 31855.5 | 48.2593 | mg/L | 0.67155 | 48.2593 | mg/L | 0.67155 | 1.39% |
| QC value within limits for Mg 279.077 Recovery = 96.52% | | | | | | | | |
| Mn 257.610† | 14455.3 | 0.490976 | mg/L | 0.0058607 | 0.490976 | mg/L | 0.0058607 | 1.19% |
| QC value within limits for Mn 257.610 Recovery = 98.20% | | | | | | | | |
| Mo 202.031† | 687.6 | 0.481746 | mg/L | 0.0039569 | 0.481746 | mg/L | 0.0039569 | 0.82% |
| QC value within limits for Mo 202.031 Recovery = 96.35% | | | | | | | | |
| Na 589.592† | 482103.4 | 49.1134 | mg/L | 0.05341 | 49.1134 | mg/L | 0.05341 | 0.11% |
| QC value within limits for Na 589.592 Recovery = 98.23% | | | | | | | | |
| Ni 231.604† | 937.0 | 0.483973 | mg/L | 0.0036722 | 0.483973 | mg/L | 0.0036722 | 0.76% |
| QC value within limits for Ni 231.604 Recovery = 96.79% | | | | | | | | |
| Se 196.026† | 134.3 | 0.481976 | mg/L | 0.0079857 | 0.481976 | mg/L | 0.0079857 | 1.66% |
| QC value within limits for Se 196.026 Recovery = 96.40% | | | | | | | | |
| Sn 189.927† | 154.9 | 0.487965 | mg/L | 0.0021687 | 0.487965 | mg/L | 0.0021687 | 0.44% |
| QC value within limits for Sn 189.927 Recovery = 97.59% | | | | | | | | |
| Ti 334.940† | 21954.7 | 0.489128 | mg/L | 0.0074838 | 0.489128 | mg/L | 0.0074838 | 1.53% |
| QC value within limits for Ti 334.940 Recovery = 97.83% | | | | | | | | |
| V 290.880† | 4106.3 | 0.465797 | mg/L | 0.0109524 | 0.465797 | mg/L | 0.0109524 | 2.35% |
| QC value within limits for V 290.880 Recovery = 93.16% | | | | | | | | |
| Zn 206.200† | 1783.3 | 0.477033 | mg/L | 0.0008008 | 0.477033 | mg/L | 0.0008008 | 0.17% |
| QC value within limits for Zn 206.200 Recovery = 95.41% | | | | | | | | |
| Si 251.611† | 13327.5 | 4.82743 | mg/L | 0.066945 | 4.82743 | mg/L | 0.066945 | 1.39% |
| QC value within limits for Si 251.611 Recovery = 96.55% | | | | | | | | |
| B 249.772† | 3398.3 | 0.460657 | mg/L | 0.0098910 | 0.460657 | mg/L | 0.0098910 | 2.15% |
| QC value within limits for B 249.772 Recovery = 92.13% | | | | | | | | |
| Ce 413.764† | 2213.2 | 0.479776 | mg/L | 0.0124820 | 0.479776 | mg/L | 0.0124820 | 2.60% |
| QC value within limits for Ce 413.764 Recovery = 95.96% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 67 Autosampler Location: 1
Sample ID: CCB V-352951 Date Collected: 9/29/2021 7:39:21 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

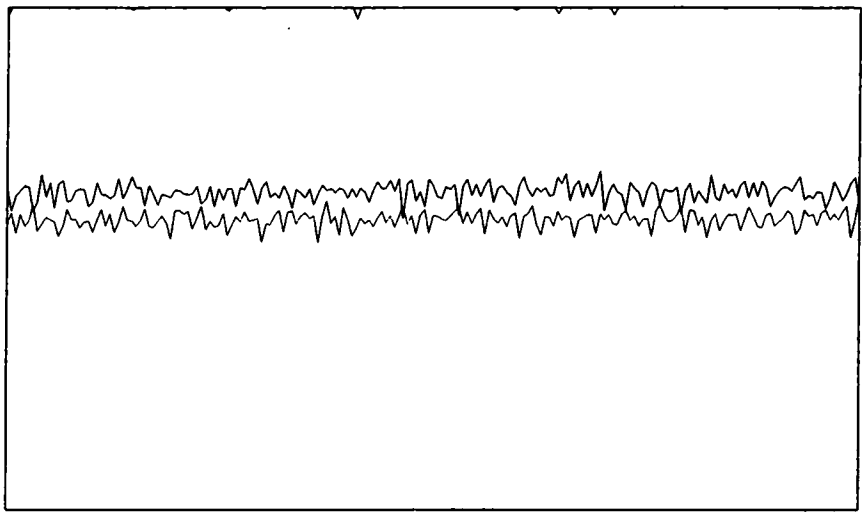
Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90160.3 | 96.4 | % | 0.54 | 96.4 | % | 0.54 | 0.56% |
| Y 371.029 | 35211.4 | 96.3 | % | 0.58 | 96.3 | % | 0.58 | 0.60% |
| Al 308.215† | -4.2 | 0.0123440 | mg/L | 0.01415765 | 0.0123440 | mg/L | 0.01415765 | 114.69% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -1.5 | -0.0001756 | mg/L | 0.00045895 | -0.0001756 | mg/L | 0.00045895 | 261.37% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -16.6 | -0.0644138 | mg/L | 0.00205049 | -0.0644138 | mg/L | 0.00205049 | 3.18% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 28.5 | -0.0011682 | mg/L | 0.00130732 | -0.0011682 | mg/L | 0.00130732 | 111.91% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -7.5 | -0.0190361 | mg/L | 0.00150013 | -0.0190361 | mg/L | 0.00150013 | 7.88% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -142.5 | 0.183236 | mg/L | 0.0062024 | 0.183236 | mg/L | 0.0062024 | 3.38% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 0.1 | -0.114848 | mg/L | 0.0049407 | -0.114848 | mg/L | 0.0049407 | 4.30% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -9.4 | -0.0015791 | mg/L | 0.00054035 | -0.0015791 | mg/L | 0.00054035 | 34.22% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -2.6 | 0.0015109 | mg/L | 0.00286046 | 0.0015109 | mg/L | 0.00286046 | 189.32% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 241.7 | 0.0491835 | mg/L | 0.00528429 | 0.0491835 | mg/L | 0.00528429 | 10.74% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -3.9 | -0.0029691 | mg/L | 0.00541916 | -0.0029691 | mg/L | 0.00541916 | 182.52% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -2.1 | -0.0124603 | mg/L | 0.03143387 | -0.0124603 | mg/L | 0.03143387 | 252.27% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.6 | -0.0096985 | mg/L | 0.00239929 | -0.0096985 | mg/L | 0.00239929 | 24.74% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 25.9 | 0.0002034 | mg/L | 0.00051941 | 0.0002034 | mg/L | 0.00051941 | 255.33% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -3.7 | 0.0000362 | mg/L | 0.00065463 | 0.0000362 | mg/L | 0.00065463 | >999.9% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 1.2 | -0.0003459 | mg/L | 0.00125363 | -0.0003459 | mg/L | 0.00125363 | 362.44% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 15.7 | -0.0380303 | mg/L | 0.00047948 | -0.0380303 | mg/L | 0.00047948 | 1.26% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 2.5 | -0.0017923 | mg/L | 0.00026750 | -0.0017923 | mg/L | 0.00026750 | 14.93% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -78.2 | -0.0214182 | mg/L | 0.00839911 | -0.0214182 | mg/L | 0.00839911 | 39.21% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

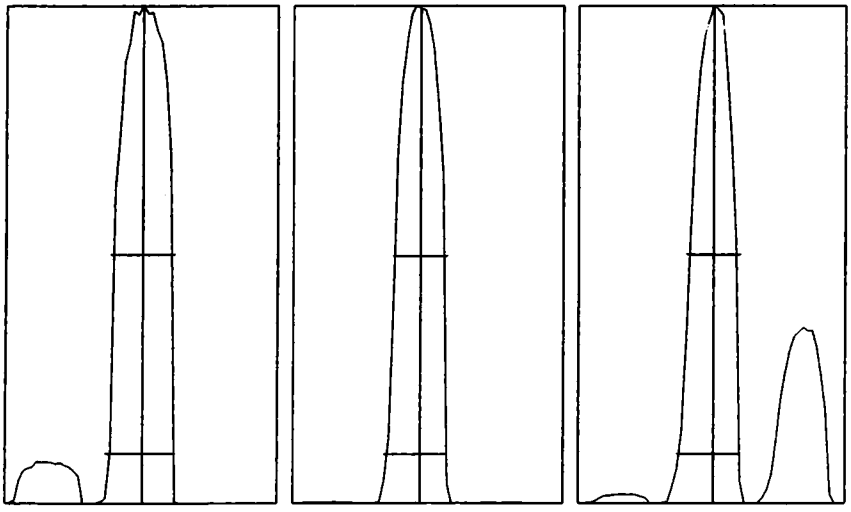
# Tune Report

Tune File : ATUNE.U
Comment : TN092321



| | | |
|---|---|---|
| Integration Time: | 0.1000 sec | |
| Sampling Period: | 0.6200 sec | |
| n: | 200 | |
| Oxide: | 156/140 | 1.01 |
| Doubly Charged: | 70/140 | 0.8 |

| m/z | Range | Count | Mean | RSD% | Background |
|---|---|---|---|---|---|
| 7 | 20,000 | 20530.0 | 20732.3 | 2.32 | 1.10 |
| 89 | 200,000 | 121981.0 | 126615.2 | 2.80 | 2.00 |
| 205 | 200,000 | 124439.0 | 115569.3 | 2.89 | 5.40 |
| 156/140 | 2 | 1.126% | 1.011% | 5.54 | |
| 70/140 | 2 | 0.818% | 0.821% | 5.53 | |



| m/z: | 7 | 89 | |
|---|---|---|---|
| Height: | 20,854 | 127,111 | 11 |
| Axis: | 7.05 | 88.95 | 2 |
| W-50%: | 0.70 | 0.60 | |
| W-10%: | 0.7500 | 0.700 | |

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear



Generated : Sep 23, 2021 10:11:37
Printed : Sep 23, 2021 10:11:40

# Tune Report

Tune File : ATUNE.U
Comment : TN092321

## Tuning Parameters

| ===Plasma Condition=== | | | ===Ion Lenses=== | | | ===Q-Pole Parameters=== | | |
|---|---|---|---|---|---|---|---|---|
| RF Power | : | 1500 W | Extract 1 | : | 0 V | AMU Gain | : | 127 |
| RF Matching | : | 1.25 V | Extract 2 | : | -140 V | AMU Offset | : | 127 |
| Smpl Depth | : | 9.5 mm | Omega Bias | : | -65 V | Axis Gain | : | 1 |
| Torch-H | : | -1.6 mm | Omega Lens | : | 7 V | Axis Offset | : | 0.06 |
| Torch-V | : | 0.9 mm | Cell Entrance | : | -40 V | QP Bias | : | -3 V |
| Carrier Gas | : | 0.6 L/min | Cell Exit | : | -60 V | | | |
| Dilution Mode | : | ON | Deflect | : | 13 V | ===Detector Parameters=== | | |
| Dilution Gas | : | 0.45 L/min | Plate Bias | : | -40 V | Discriminator | : | 4.5 mV |
| Optional Gas | : | --- % | ===Octopole Parameters=== | | | Analog HV | : | 1685 V |
| Nebulizer Pump | : | 0.1 rps | OctP RF | : | 190 V | Pulse HV | : | 947 V |
| Sample Pump | : | --- rps | OctP Bias | : | -8 V | | | |
| S/C Temp | : | 2 degC | | | | | | |

### ===Reaction Cell===

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Reaction Mode | : | OFF | | | | | | |
| H2 Gas | : | --- mL/min | He Gas | : | 0 mL/min | Optional Gas | : | --- % |



Generated : Sep 23, 2021 10:11:37
Printed : Sep 23, 2021 10:11:43

C:\ICPMH\1\7500\QCTUNE.D

QC Tune Report

Data File: C:\ICPMH\1\7500\QCTUNE.D
Date Acquired: 23 Sep 2021 10:30:57 am
Operator: PC
Misc Info:
Vial Number: 4
Current Method: C:\ICPMH\1\METHODS\TN6020.m

Minimum Response(CPS)

| Element | Actual | Required | Flag |
|---|---|---|---|
| 7 Li | 2160890.00 | 0.00 | |
| 59 Co | 6915760.00 | 0.00 | |
| 115 In | 13053100.00 | 0.00 | |
| 205 Tl | 11554000.00 | 0.00 | |

RSD (%)

| Element | Actual | Required | Flag |
|---|---|---|---|
| 7 Li | 2.02 | 5.00 | |
| 59 Co | 1.18 | 5.00 | |
| 115 In | 0.74 | 5.00 | |
| 205 Tl | 0.89 | 5.00 | |

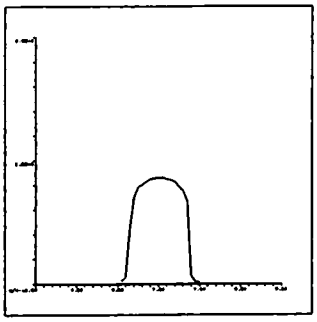
Ion Ratio

| Element | Actual | Required | Flag |
|---|---|---|---|
| 7 Li | | | |
| 59 Co | | | |
| 115 In | | | |
| 205 Tl | | | |

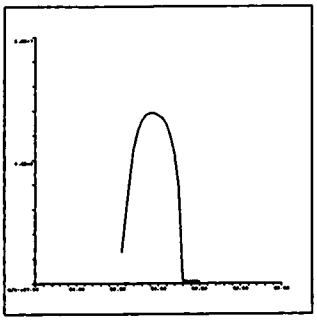
Maximum Bkg. Count(CPS)

| Element | Actual | Required | Flag |
|---|---|---|---|

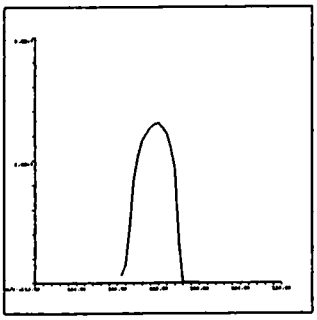
C:\ICPMH\1\7500\QCTUNE.D



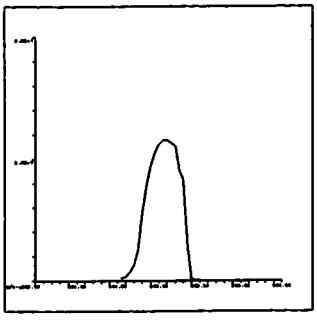
7 Li
Mass Calib.
Actual: 7.00
Required: 6.90-7.10
Flag:
Peak Width
Actual: 0.70
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 58.95
Required: 58.90-59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90-115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 205.10
Required: 204.90-205.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:

QC Tune Result:Pass

# Calibration Blank Report

FL6 A092321A
B-27669
QL-94427

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **002CALB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T10:54:42-04:00** |
| **Type** | **CalBlk** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |

Rinse.

Report As, Be, Cd, Co, Pb, Sb, Se, Tl

9/24/21

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 253 | 30.94 |
| Na | 23 | 115 | 2 | 87177 | 2.27 |
| Mg | 24 | 115 | 2 | 2141 | 9.12 |
| Al | 27 | 115 | 2 | 162 | 12.39 |
| K | 39 | 115 | 2 | 27373 | 0.35 |
| Ca | 44 | 115 | 2 | 209 | 5.13 |
| V | 51 | 115 | 2 | 43 | 33.53 |
| Cr | 52 | 115 | 2 | 1182 | 4.08 |
| Mn | 55 | 115 | 2 | 1722 | 6.26 |
| Fe | 56 | 115 | 2 | 63504 | 1.87 |
| Co | 59 | 115 | 2 | 1362 | 10.13 |
| Ni | 60 | 115 | 2 | 897 | 11.45 |
| Cu | 65 | 115 | 2 | 1413 | 6.82 |
| Zn | 66 | 115 | 2 | 4037 | 2.93 |
| As | 75 | 115 | 2 | 11 | 59.11 |
| Se | 78 | 115 | 2 | 36 | 12.88 |
| Kr | 83 | 115 | 1 | 920 | 0.36 |
| Mo | 95 | 115 | 1 | 169 | 6.93 |
| Ag | 107 | 115 | 1 | 14472 | 4.76 |
| Cd | 111 | 115 | 1 | 17 | 38.22 |
| Sb | 121 | 115 | 1 | 3769 | 5.20 |
| Ba | 137 | 159 | 1 | 642 | 1.31 |
| Tl | 205 | 165 | 1 | 3864 | 6.41 |
| (Pb) | 206 | 165 | 1 | 1258 | 7.14 |
| (Pb) | 207 | 165 | 1 | 1075 | 2.49 |
| Pb | 208 | 165 | 1 | 2530 | 4.00 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD |
|---|---|---|---|---|
| Sc | 45 | 1 | 1711345 | 0.79 |
| Sc | 45 | 2 | 80897 | 1.52 |
| In | 115 | 1 | 3252363 | 0.78 |
| In | 115 | 2 | 760041 | 1.07 |
| Tb | 159 | 1 | 4709371 | 0.48 |
| Tb | 159 | 2 | 2675966 | 0.65 |
| Ho | 165 | 1 | 4644750 | 0.59 |
| Ho | 165 | 2 | 2683344 | 0.79 |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Blank Report

| | |
|---|---|
| **Sample Name** | **CalBlk V-357834** |
| **Data File Name** | **003CALB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T10:59:09-04:00** |
| **Type** | **CalBlk** |
| **VialNumber** | **2101** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 231 | 14.45 |
| Na | 23 | 115 | 2 | 90874 | 1.15 |
| Mg | 24 | 115 | 2 | 2299 | 7.07 |
| Al | 27 | 115 | 2 | 148 | 19.71 |
| K | 39 | 115 | 2 | 24854 | 1.36 |
| Ca | 44 | 115 | 2 | 252 | 7.52 |
| V | 51 | 115 | 2 | 261 | 40.86 |
| Cr | 52 | 115 | 2 | 1616 | 4.64 |
| Mn | 55 | 115 | 2 | 1567 | 6.90 |
| Fe | 56 | 115 | 2 | 62942 | 1.36 |
| Co | 59 | 115 | 2 | 729 | 8.88 |
| Ni | 60 | 115 | 2 | 1052 | 10.41 |
| Cu | 65 | 115 | 2 | 5541 | 2.68 |
| Zn | 66 | 115 | 2 | 3370 | 4.99 |
| As | 75 | 115 | 2 | 25 | 11.11 |
| Se | 78 | 115 | 2 | 47 | 17.08 |
| Kr | 83 | 115 | 1 | 927 | 8.11 |
| Mo | 95 | 115 | 1 | 182 | 8.25 |
| Ag | 107 | 115 | 1 | 2814 | 4.04 |
| Cd | 111 | 115 | 1 | 32 | 30.65 |
| Sb | 121 | 115 | 1 | 7660 | 1.73 |
| Ba | 137 | 159 | 1 | 935 | 6.72 |
| Tl | 205 | 165 | 1 | 2866 | 2.95 |
| (Pb) | 206 | 165 | 1 | 1513 | 4.58 |
| (Pb) | 207 | 165 | 1 | 1256 | 10.12 |
| Pb | 208 | 165 | 1 | 3062 | 4.99 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD |
|---|---|---|---|---|
| Sc | 45 | 1 | 1698298 | 0.65 |
| Sc | 45 | 2 | 78845 | 0.74 |
| In | 115 | 1 | 3231342 | 0.93 |
| In | 115 | 2 | 739504 | 0.48 |
| Tb | 159 | 1 | 4783524 | 0.32 |
| Tb | 159 | 2 | 2661694 | 1.07 |
| Ho | 165 | 1 | 4675933 | 0.65 |
| Ho | 165 | 2 | 2700827 | 0.37 |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd1 V-357835** |
| **Data File Name** | **004CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T11:03:39-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 3244 | 4.20 |
| Na | 23 | 115 | 2 | 182844 | 1.06 |
| Mg | 24 | 115 | 2 | 43323 | 2.46 |
| Al | 27 | 115 | 2 | 4534 | 5.83 |
| K | 39 | 115 | 2 | 63097 | 1.24 |
| Ca | 44 | 115 | 2 | 2585 | 6.69 |
| V | 51 | 115 | 2 | 6160 | 1.19 |
| Cr | 52 | 115 | 2 | 9700 | 4.91 |
| Mn | 55 | 115 | 2 | 6440 | 4.17 |
| Fe | 56 | 115 | 2 | 746421 | 1.28 |
| Co | 59 | 115 | 2 | 14371 | 2.37 |
| Ni | 60 | 115 | 2 | 4786 | 5.51 |
| Cu | 65 | 115 | 2 | 11515 | 1.68 |
| Zn | 66 | 115 | 2 | 5229 | 2.37 |
| As | 75 | 115 | 2 | 949 | 8.01 |
| Se | 78 | 115 | 2 | 359 | 4.51 |
| Kr | 83 | 115 | 1 | 898 | 3.53 |
| Mo | 95 | 115 | 1 | 11432 | 1.50 |
| Ag | 107 | 115 | 1 | 35035 | 0.43 |
| Cd | 111 | 115 | 1 | 6515 | 1.76 |
| Sb | 121 | 115 | 1 | 35858 | 0.65 |
| Ba | 137 | 159 | 1 | 11557 | 2.31 |
| Tl | 205 | 165 | 1 | 64370 | 1.69 |
| (Pb) | 206 | 165 | 1 | 25584 | 1.71 |
| (Pb) | 207 | 165 | 1 | 21415 | 2.56 |
| Pb | 208 | 165 | 1 | 52452 | 1.27 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1706612 | 0.83 | 1698296 | 100.5 | 70 | 130 | |
| Sc | 45 | 2 | 78216 | 0.55 | 78845 | 99.2 | 70 | 130 | |
| In | 115 | 1 | 3267532 | 0.85 | 3231342 | 101.1 | 70 | 130 | |
| In | 115 | 2 | 741128 | 0.57 | 739504 | 100.2 | 70 | 130 | |
| Tb | 159 | 1 | 4834513 | 0.85 | 4783524 | 101.1 | 70 | 130 | |
| Tb | 159 | 2 | 2677355 | 0.55 | 2661694 | 100.6 | 70 | 130 | |
| Ho | 165 | 1 | 4710459 | 0.43 | 4675933 | 100.7 | 70 | 130 | |
| Ho | 165 | 2 | 2707127 | 1.01 | 2700827 | 100.2 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd2 V-357836** |
| **Data File Name** | **005CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T11:08:07-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2103** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 25355 | 1.48 |
| Na | 23 | 115 | 2 | 763038 | 0.96 |
| Mg | 24 | 115 | 2 | 344561 | 1.45 |
| Al | 27 | 115 | 2 | 36268 | 1.28 |
| K | 39 | 115 | 2 | 344863 | 0.62 |
| Ca | 44 | 115 | 2 | 18178 | 0.36 |
| V | 51 | 115 | 2 | 49978 | 0.11 |
| Cr | 52 | 115 | 2 | 66056 | 1.12 |
| Mn | 55 | 115 | 2 | 36981 | 1.41 |
| Fe | 56 | 115 | 2 | 5340156 | 1.06 |
| Co | 59 | 115 | 2 | 113962 | 1.30 |
| Ni | 60 | 115 | 2 | 32697 | 1.69 |
| Cu | 65 | 115 | 2 | 50258 | 1.79 |
| Zn | 66 | 115 | 2 | 17585 | 1.32 |
| As | 75 | 115 | 2 | 7762 | 1.09 |
| Se | 78 | 115 | 2 | 2571 | 1.48 |
| Kr | 83 | 115 | 1 | 976 | 6.35 |
| Mo | 95 | 115 | 1 | 94226 | 0.26 |
| Ag | 107 | 115 | 1 | 272186 | 0.32 |
| Cd | 111 | 115 | 1 | 54112 | 1.06 |
| Sb | 121 | 115 | 1 | 226708 | 0.57 |
| Ba | 137 | 159 | 1 | 83061 | 1.03 |
| Tl | 205 | 165 | 1 | 540499 | 0.70 |
| (Pb) | 206 | 165 | 1 | 197661 | 1.03 |
| (Pb) | 207 | 165 | 1 | 164753 | 0.52 |
| Pb | 208 | 165 | 1 | 408658 | 0.53 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1690584 | 1.65 | 1698298 | 99.5 | 70 | 130 | |
| Sc | 45 | 2 | 79249 | 1.20 | 78845 | 100.5 | 70 | 130 | |
| In | 115 | 1 | 3261325 | 0.29 | 3231342 | 100.9 | 70 | 130 | |
| In | 115 | 2 | 751596 | 0.91 | 739504 | 101.6 | 70 | 130 | |
| Tb | 159 | 1 | 4820488 | 0.88 | 4783524 | 100.8 | 70 | 130 | |
| Tb | 159 | 2 | 2685656 | 1.01 | 2661694 | 100.9 | 70 | 130 | |
| Ho | 165 | 1 | 4750552 | 0.21 | 4675933 | 101.6 | 70 | 130 | |
| Ho | 165 | 2 | 2706662 | 0.49 | 2700827 | 100.2 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd3 V-357837** |
| **Data File Name** | **006CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T11:12:35-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2104** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 51920 | 0.40 |
| Na | 23 | 115 | 2 | 1584540 | 0.67 |
| Mg | 24 | 115 | 2 | 703895 | 1.09 |
| Al | 27 | 115 | 2 | 72675 | 0.21 |
| K | 39 | 115 | 2 | 676847 | 0.48 |
| Ca | 44 | 115 | 2 | 36260 | 1.27 |
| V | 51 | 115 | 2 | 101306 | 1.37 |
| Cr | 52 | 115 | 2 | 133291 | 1.15 |
| Mn | 55 | 115 | 2 | 73158 | 0.87 |
| Fe | 56 | 115 | 2 | 10609729 | 1.14 |
| Co | 59 | 115 | 2 | 232615 | 0.26 |
| Ni | 60 | 115 | 2 | 63653 | 0.28 |
| Cu | 65 | 115 | 2 | 93764 | 0.45 |
| Zn | 66 | 115 | 2 | 29737 | 0.91 |
| As | 75 | 115 | 2 | 16110 | 0.56 |
| Se | 78 | 115 | 2 | 5236 | 0.63 |
| Kr | 83 | 115 | 1 | 897 | 1.29 |
| Mo | 95 | 115 | 1 | 194220 | 2.12 |
| Ag | 107 | 115 | 1 | 552419 | 1.15 |
| Cd | 111 | 115 | 1 | 110338 | 0.84 |
| Sb | 121 | 115 | 1 | 457134 | 0.59 |
| Ba | 137 | 159 | 1 | 168850 | 0.50 |
| Tl | 205 | 165 | 1 | 1114280 | 0.88 |
| (Pb) | 206 | 165 | 1 | 402296 | 0.09 |
| (Pb) | 207 | 165 | 1 | 335518 | 0.38 |
| Pb | 208 | 165 | 1 | 832254 | 0.84 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1725867 | 1.16 | 1698298 | 101.6 | 70 | 130 | |
| Sc | 45 | 2 | 79934 | 1.22 | 78845 | 101.4 | 70 | 130 | |
| In | 115 | 1 | 3292849 | 0.82 | 3231342 | 101.9 | 70 | 130 | |
| In | 115 | 2 | 756139 | 0.31 | 739504 | 102.2 | 70 | 130 | |
| Tb | 159 | 1 | 4879841 | 1.18 | 4783524 | 102.0 | 70 | 130 | |
| Tb | 159 | 2 | 2722198 | 0.93 | 2661694 | 102.3 | 70 | 130 | |
| Ho | 165 | 1 | 4783687 | 0.60 | 4675933 | 102.3 | 70 | 130 | |
| Ho | 165 | 2 | 2735704 | 0.57 | 2700827 | 101.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd4 V-357838** |
| **Data File Name** | **007CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T11:17:03-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2105** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 259623 | 0.75 |
| Na | 23 | 115 | 2 | 7238515 | 0.53 |
| Mg | 24 | 115 | 2 | 3451814 | 1.06 |
| Al | 27 | 115 | 2 | 358687 | 0.83 |
| K | 39 | 115 | 2 | 3186540 | 0.37 |
| Ca | 44 | 115 | 2 | 178060 | 0.96 |
| V | 51 | 115 | 2 | 503840 | 0.61 |
| Cr | 52 | 115 | 2 | 645337 | 0.20 |
| Mn | 55 | 115 | 2 | 349157 | 0.71 |
| Fe | 56 | 115 | 2 | 52403108 | 1.07 |
| Co | 59 | 115 | 2 | 1142910 | 0.93 |
| Ni | 60 | 115 | 2 | 309259 | 0.06 |
| Cu | 65 | 115 | 2 | 441203 | 1.17 |
| Zn | 66 | 115 | 2 | 133430 | 0.80 |
| As | 75 | 115 | 2 | 77897 | 0.34 |
| Se | 78 | 115 | 2 | 25711 | 0.66 |
| Kr | 83 | 115 | 1 | 977 | 1.90 |
| Mo | 95 | 115 | 1 | 957829 | 0.24 |
| Ag | 107 | 115 | 1 | 2736832 | 0.39 |
| Cd | 111 | 115 | 1 | 546410 | 0.24 |
| Sb | 121 | 115 | 1 | 2290653 | 0.39 |
| Ba | 137 | 159 | 1 | 832474 | 0.89 |
| Tl | 205 | 165 | 1 | 5818163 | 0.38 |
| (Pb) | 206 | 165 | 1 | 2029643 | 0.59 |
| (Pb) | 207 | 165 | 1 | 1697219 | 1.91 |
| Pb | 208 | 165 | 1 | 4163367 | 0.69 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1713788 | 0.70 | 1698298 | 100.9 | 70 | 130 | |
| Sc | 45 | 2 | 80042 | 1.01 | 78845 | 101.5 | 70 | 130 | |
| In | 115 | 1 | 3265510 | 0.68 | 3231342 | 101.1 | 70 | 130 | |
| In | 115 | 2 | 749559 | 1.15 | 739504 | 101.4 | 70 | 130 | |
| Tb | 159 | 1 | 4901129 | 0.57 | 4783524 | 102.5 | 70 | 130 | |
| Tb | 159 | 2 | 2691362 | 0.41 | 2661694 | 101.1 | 70 | 130 | |
| Ho | 165 | 1 | 4787408 | 0.33 | 4675933 | 102.4 | 70 | 130 | |
| Ho | 165 | 2 | 2717576 | 0.91 | 2700827 | 100.6 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd5 V-357839** |
| **Data File Name** | **008CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T11:21:21-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2106** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 509198 | 0.78 |
| Na | 23 | 115 | 2 | 14072389 | 0.25 |
| Mg | 24 | 115 | 2 | 6715960 | 1.18 |
| Al | 27 | 115 | 2 | 700367 | 0.88 |
| K | 39 | 115 | 2 | 6193937 | 1.28 |
| Ca | 44 | 115 | 2 | 350753 | 0.70 |
| V | 51 | 115 | 2 | 990123 | 1.04 |
| Cr | 52 | 115 | 2 | 1261942 | 0.41 |
| Mn | 55 | 115 | 2 | 677659 | 1.07 |
| Fe | 56 | 115 | 2 | 102719007 | 1.04 |
| Co | 59 | 115 | 2 | 2237860 | 0.97 |
| Ni | 60 | 115 | 2 | 600931 | 0.78 |
| Cu | 65 | 115 | 2 | 850814 | 1.12 |
| Zn | 66 | 115 | 2 | 249118 | 0.74 |
| As | 75 | 115 | 2 | 154919 | 0.82 |
| Se | 78 | 115 | 2 | 49988 | 0.91 |
| Kr | 83 | 115 | 1 | 1032 | 10.01 |
| Mo | 95 | 115 | 1 | 1912033 | 1.28 |
| Ag | 107 | 115 | 1 | 5287922 | 0.35 |
| Cd | 111 | 115 | 1 | 1064079 | 0.50 |
| Sb | 121 | 115 | 1 | 4414286 | 0.59 |
| Ba | 137 | 159 | 1 | 1655705 | 1.28 |
| Tl | 205 | 165 | 1 | 11306307 | 0.87 |
| (Pb) | 206 | 165 | 1 | 3935139 | 0.76 |
| (Pb) | 207 | 165 | 1 | 3261953 | 1.17 |
| Pb | 208 | 165 | 1 | 8004648 | 0.92 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1699344 | 0.36 | 1698298 | 100.1 | 70 | 130 | |
| Sc | 45 | 2 | 79829 | 1.38 | 78845 | 101.2 | 70 | 130 | |
| In | 115 | 1 | 3211677 | 0.15 | 3231342 | 99.4 | 70 | 130 | |
| In | 115 | 2 | 736957 | 0.83 | 739504 | 99.7 | 70 | 130 | |
| Tb | 159 | 1 | 4806267 | 0.96 | 4783524 | 100.5 | 70 | 130 | |
| Tb | 159 | 2 | 2700530 | 1.07 | 2661694 | 101.5 | 70 | 130 | |
| Ho | 165 | 1 | 4727586 | 1.08 | 4675933 | 101.1 | 70 | 130 | |
| Ho | 165 | 2 | 2726031 | 0.68 | 2700827 | 100.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Initial Calibration Verification (ICV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **ICV V-357840** |
| **Data File Name** | **009_ICV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T11:25:38-04:00** |
| **Type** | **6-ICV** |
| **VialNumber** | **2108** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 51.50 | ppb | 50 | 268073 | 0.66 | 103.00 | 90 | 110 | |
| Na | 23 | 115 | 2 | 5192.66 | ppb | 5000 | 7452124 | 0.45 | 103.85 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 5176.70 | ppb | 5000 | 3529055 | 0.26 | 103.53 | 90 | 110 | |
| Al | 27 | 115 | 2 | 5230.72 | ppb | 5000 | 1238210 | 2.19 | 104.61 | 90 | 110 | |
| K | 39 | 115 | 2 | 5154.15 | ppb | 5000 | 3250594 | 1.92 | 103.08 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 5305.03 | ppb | 5000 | 188439 | 1.10 | 106.10 | 90 | 110 | |
| V | 51 | 115 | 2 | 50.38 | ppb | 50 | 505238 | 0.92 | 100.76 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 51.29 | ppb | 50 | 656840 | 0.50 | 102.58 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 50.50 | ppb | 50 | 348112 | 0.37 | 100.99 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 5114.46 | ppb | 5000 | 53262075 | 0.44 | 102.29 | 90 | 110 | |
| Co | 59 | 115 | 2 | 50.71 | ppb | 50 | 1150417 | 0.49 | 101.42 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 51.15 | ppb | 50 | 312425 | 0.52 | 102.29 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 51.06 | ppb | 50 | 443859 | 0.43 | 102.12 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 51.33 | ppb | 50 | 132232 | 0.44 | 102.66 | 90 | 110 | |
| As | 75 | 115 | 2 | 51.75 | ppb | 50 | 81006 | 0.26 | 103.49 | 90 | 110 | |
| Se | 78 | 115 | 2 | 52.91 | ppb | 50 | 5410 | 3.60 | 105.81 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 49.79 | ppb | 50 | 958998 | 0.92 | 99.57 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 10.26 | ppb | 10 | 552448 | 0.64 | 102.55 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 51.51 | ppb | 50 | 554956 | 0.96 | 103.01 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 52.36 | ppb | 50 | 2347846 | 1.58 | 104.72 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 50.78 | ppb | 50 | 845573 | 1.04 | 101.56 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 50.01 | ppb | 50 | 5696528 | 0.74 | 100.02 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 50.88 | ppb | 50 | 4114469 | 0.12 | 101.75 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1732749 | 0.48 | 1698298 | 102.0 | 70 | 130 | |
| Sc | 45 | 2 | 80195 | 0.57 | 78845 | 101.7 | 70 | 130 | |
| In | 115 | 1 | 3245389 | 1.03 | 3231342 | 100.4 | 70 | 130 | |
| In | 115 | 2 | 746202 | 0.36 | 739504 | 100.9 | 70 | 130 | |
| Tb | 159 | 1 | 4845213 | 1.20 | 4783524 | 101.3 | 70 | 130 | |
| Tb | 159 | 2 | 2685514 | 0.62 | 2661694 | 100.9 | 70 | 130 | |
| Ho | 165 | 1 | 4748170 | 0.18 | 4675933 | 101.5 | 70 | 130 | |
| Ho | 165 | 2 | 2681357 | 0.81 | 2700827 | 99.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# LL-ICV/CCV - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **LLICV V-357848** |
| **Data File Name** | **010_LCS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T11:29:59-04:00** |
| **Type** | **6-LCS** |
| **VialNumber** | **2111** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.48 | ppb | 0.5 | 2723 | 4.71 | 95.67 | 80 | 120 | |
| Na | 23 | 115 | 2 | 223.62 | ppb | 250 | 419110 | 0.55 | 89.45 | 80 | 120 | |
| Mg | 24 | 115 | 2 | 241.09 | ppb | 250 | 170822 | 1.28 | 96.44 | 80 | 120 | |
| Al | 27 | 115 | 2 | 99.74 | ppb | 100 | 24361 | 1.09 | 99.74 | 80 | 120 | |
| K | 39 | 115 | 2 | 245.87 | ppb | 250 | 183513 | 0.59 | 98.35 | 80 | 120 | |
| Ca | 44 | 115 | 2 | 238.40 | ppb | 250 | 8934 | 0.56 | 95.36 | 80 | 120 | |
| V | 51 | 115 | 2 | 0.92 | ppb | 1 | 9761 | 2.51 | 92.34 | 80 | 120 | |
| Cr | 52 | 115 | 2 | 0.95 | ppb | 1 | 14139 | 2.47 | 95.17 | 80 | 120 | |
| Mn | 55 | 115 | 2 | 3.03 | ppb | 3 | 22932 | 0.74 | 100.93 | 80 | 120 | |
| Fe | 56 | 115 | 2 | 157.75 | ppb | 150 | 1747866 | 5.18 | 105.17 | 80 | 120 | |
| Co | 59 | 115 | 2 | 0.96 | ppb | 1 | 23072 | 2.22 | 95.99 | 80 | 120 | |
| Ni | 60 | 115 | 2 | 1.38 | ppb | 1.5 | 9735 | 0.09 | 92.33 | 80 | 120 | |
| Cu | 65 | 115 | 2 | 4.53 | ppb | 5 | 45606 | 1.35 | 90.60 | 80 | 120 | |
| Zn | 66 | 115 | 2 | 9.42 | ppb | 10 | 27741 | 1.69 | 94.22 | 80 | 120 | |
| As | 75 | 115 | 2 | 0.98 | ppb | 1 | 1603 | 1.78 | 98.26 | 80 | 120 | |
| Se | 78 | 115 | 2 | 5.11 | ppb | 5 | 579 | 2.94 | 102.11 | 80 | 120 | |
| Mo | 95 | 115 | 1 | 0.97 | ppb | 1 | 19130 | 2.23 | 97.48 | 80 | 120 | |
| Ag | 107 | 115 | 1 | 0.45 | ppb | 0.5 | 27264 | 1.33 | 90.24 | 80 | 120 | |
| Cd | 111 | 115 | 1 | 0.95 | ppb | 1 | 10332 | 2.01 | 94.69 | 80 | 120 | |
| Sb | 121 | 115 | 1 | 1.40 | ppb | 1.5 | 71104 | 3.79 | 93.57 | 80 | 120 | |
| Ba | 137 | 159 | 1 | 2.39 | ppb | 2.5 | 39984 | 1.82 | 95.57 | 80 | 120 | |
| Tl | 205 | 165 | 1 | 1.16 | ppb | 1 | 133769 | 2.77 | 116.05 | 80 | 120 | |
| Pb | 208 | 165 | 1 | 1.41 | ppb | 1.5 | 115876 | 0.85 | 93.95 | 80 | 120 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1732300 | 1.12 | 1698298 | 102.0 | 70 | 130 | |
| Sc | 45 | 2 | 81974 | 0.96 | 78845 | 104.0 | 70 | 130 | |
| In | 115 | 1 | 3276007 | 1.32 | 3231342 | 101.4 | 70 | 130 | |
| In | 115 | 2 | 765239 | 0.30 | 739504 | 103.5 | 70 | 130 | |
| Tb | 159 | 1 | 4761721 | 0.75 | 4783524 | 99.5 | 70 | 130 | |
| Tb | 159 | 2 | 2698128 | 0.84 | 2661694 | 101.4 | 70 | 130 | |
| Ho | 165 | 1 | 4703378 | 0.48 | 4675933 | 100.6 | 70 | 130 | |
| Ho | 165 | 2 | 2743453 | 1.07 | 2700827 | 101.6 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Initial Calibration Blank (ICB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **ICB V-357841** |
| **Data File Name** | **011_ICB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T11:34:30-04:00** |
| **Type** | **6-ICB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | ppb | 0.25 | |
| Na | 23 | 115 | 2 | -12.00 | ppb | 125 | |
| Mg | 24 | 115 | 2 | -0.51 | ppb | 125 | |
| Al | 27 | 115 | 2 | 0.18 | ppb | 50 | |
| K | 39 | 115 | 2 | -1.14 | ppb | 125 | |
| Ca | 44 | 115 | 2 | -2.48 | ppb | 125 | |
| V | 51 | 115 | 2 | 0.00 | ppb | 0.5 | |
| Cr | 52 | 115 | 2 | -0.02 | ppb | 0.5 | |
| Mn | 55 | 115 | 2 | -0.02 | ppb | 1.5 | |
| Fe | 56 | 115 | 2 | 1.13 | ppb | 75 | |
| Co | 59 | 115 | 2 | 0.00 | ppb | 0.5 | |
| Ni | 60 | 115 | 2 | -0.05 | ppb | 0.75 | |
| Cu | 65 | 115 | 2 | -0.12 | ppb | 2.5 | |
| Zn | 66 | 115 | 2 | -0.28 | ppb | 5 | |
| As | 75 | 115 | 2 | 0.00 | ppb | 0.5 | |
| Se | 78 | 115 | 2 | 0.03 | ppb | 2.5 | |
| Mo | 95 | 115 | 1 | 0.03 | ppb | 0.5 | |
| Ag | 107 | 115 | 1 | -0.01 | ppb | 0.25 | |
| Cd | 111 | 115 | 1 | 0.00 | ppb | 0.5 | |
| Sb | 121 | 115 | 1 | -0.12 | ppb | 0.75 | |
| Ba | 137 | 159 | 1 | -0.02 | ppb | 1.25 | |
| Tl | 205 | 165 | 1 | 0.03 | ppb | 0.5 | |
| Pb | 208 | 165 | 1 | 0.01 | ppb | 0.75 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1733974 | 0.77 | 1698298 | 102.1 | 70 | 130 | |
| Sc | 45 | 2 | 81184 | 0.43 | 78845 | 103.0 | 70 | 130 | |
| In | 115 | 1 | 3277992 | 0.17 | 3231342 | 101.4 | 70 | 130 | |
| In | 115 | 2 | 751673 | 0.59 | 739504 | 101.6 | 70 | 130 | |
| Tb | 159 | 1 | 4806952 | 0.77 | 4783524 | 100.5 | 70 | 130 | |
| Tb | 159 | 2 | 2699581 | 0.38 | 2661694 | 101.4 | 70 | 130 | |
| Ho | 165 | 1 | 4719529 | 0.16 | 4675933 | 100.9 | 70 | 130 | |
| Ho | 165 | 2 | 2703890 | 0.93 | 2700827 | 100.1 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Interference Check Sample A (ICS-A) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **ICSA V-357842** |
| **Data File Name** | **012ICSA.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T11:38:59-04:00** |
| **Type** | **6-ICSA** |
| **VialNumber** | **2107** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.02 | ppb | 1 | |
| Na | 23 | 115 | 2 | 124374.17 | ppb | 150000 | |
| Mg | 24 | 115 | 2 | 48595.56 | ppb | 60000 | |
| Al | 27 | 115 | 2 | 49229.21 | ppb | 60000 | |
| K | 39 | 115 | 2 | 49248.35 | ppb | 60000 | |
| Ca | 44 | 115 | 2 | 148346.87 | ppb | 180000 | |
| V | 51 | 115 | 2 | 0.06 | ppb | 2 | |
| Cr | 52 | 115 | 2 | 0.49 | ppb | 2 | |
| Mn | 55 | 115 | 2 | 1.60 | ppb | 6 | |
| Fe | 56 | 115 | 2 | 120778.64 | ppb | 150000 | |
| Co | 59 | 115 | 2 | 0.22 | ppb | 2 | |
| Ni | 60 | 115 | 2 | 0.68 | ppb | 3 | |
| Cu | 65 | 115 | 2 | 0.48 | ppb | 10 | |
| Zn | 66 | 115 | 2 | 1.26 | ppb | 20 | |
| As | 75 | 115 | 2 | 0.24 | ppb | 2 | |
| Se | 78 | 115 | 2 | 0.03 | ppb | 10 | |
| Mo | 95 | 115 | 1 | 970.72 | ppb | 1200 | |
| Ag | 107 | 115 | 1 | 0.17 | ppb | 1 | |
| Cd | 111 | 115 | 1 | 0.94 | ppb | 2 | |
| Sb | 121 | 115 | 1 | 0.23 | ppb | 2 | |
| Ba | 137 | 159 | 1 | 0.79 | ppb | 5 | |
| Tl | 205 | 165 | 1 | 0.03 | ppb | 2 | |
| Pb | 208 | 165 | 1 | 0.05 | ppb | 3 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1582252 | 0.64 | 1698296 | 93.2 | 70 | 130 | |
| Sc | 45 | 2 | 73297 | 1.22 | 78645 | 93.0 | 70 | 130 | |
| In | 115 | 1 | 2900187 | 0.28 | 3231342 | 89.8 | 70 | 130 | |
| In | 115 | 2 | 652111 | 0.31 | 739504 | 88.2 | 70 | 130 | |
| Tb | 159 | 1 | 4585066 | 0.72 | 4783524 | 95.9 | 70 | 130 | |
| Tb | 159 | 2 | 2518094 | 0.29 | 2661694 | 94.6 | 70 | 130 | |
| Ho | 165 | 1 | 4500923 | 0.17 | 4675933 | 96.3 | 70 | 130 | |
| Ho | 165 | 2 | 2547977 | 0.63 | 2700827 | 94.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **013SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T11:43:23-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.00 | 0.00 | ppb | 242 | 25.57 | 550 | |
| Na | 23 | 115 | 2 | 5.23 | 5.23 | ppb | 99198 | 0.25 | 55000 | |
| Mg | 24 | 115 | 2 | -0.14 | -0.14 | ppb | 2225 | 7.26 | 55000 | |
| Al | 27 | 115 | 2 | 1.50 | 1.50 | ppb | 506 | 6.60 | 16500 | |
| K | 39 | 115 | 2 | 2.55 | 2.55 | ppb | 26699 | 0.65 | 55000 | |
| Ca | 44 | 115 | 2 | 1.03 | 1.03 | ppb | 291 | 12.87 | 55000 | |
| V | 51 | 115 | 2 | -0.02 | -0.02 | ppb | 63 | 13.92 | 550 | |
| Cr | 52 | 115 | 2 | -0.04 | -0.04 | ppb | 1078 | 10.31 | 550 | |
| Mn | 55 | 115 | 2 | 0.02 | 0.02 | ppb | 1706 | 5.53 | 550 | |
| Fe | 56 | 115 | 2 | 8.11 | 8.11 | ppb | 148069 | 2.31 | 55000 | |
| Co | 59 | 115 | 2 | 0.00 | 0.00 | ppb | 748 | 7.11 | 550 | |
| Ni | 60 | 115 | 2 | -0.01 | -0.01 | ppb | 1026 | 5.53 | 550 | |
| Cu | 65 | 115 | 2 | -0.53 | -0.53 | ppb | 1050 | 12.88 | 550 | |
| Zn | 66 | 115 | 2 | 0.26 | 0.26 | ppb | 4052 | 3.33 | 550 | |
| As | 75 | 115 | 2 | -0.01 | -0.01 | ppb | 14 | 33.76 | 550 | |
| Se | 78 | 115 | 2 | -0.02 | -0.02 | ppb | 46 | 19.35 | 2750 | |
| Mo | 95 | 115 | 1 | 0.37 | 0.37 | ppb | 7373 | 6.19 | 550 | |
| Ag | 107 | 115 | 1 | 0.17 | 0.17 | ppb | 12007 | 4.10 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 46 | 15.44 | 550 | |
| Sb | 121 | 115 | 1 | -0.15 | -0.15 | ppb | 1049 | 6.83 | 550 | |
| Ba | 137 | 159 | 1 | -0.03 | -0.03 | ppb | 516 | 9.20 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 4275 | 6.98 | 550 | |
| Pb | 208 | 165 | 1 | 0.00 | 0.00 | ppb | 2768 | 6.84 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1683093 | 0.53 | 1698298 | 99.1 | 70 | 130 | |
| Sc | 45 | 2 | 78399 | 1.66 | 78845 | 99.4 | 70 | 130 | |
| In | 115 | 1 | 3261029 | 0.57 | 3231342 | 100.9 | 70 | 130 | |
| In | 115 | 2 | 746914 | 1.47 | 739504 | 101.0 | 70 | 130 | |
| Tb | 159 | 1 | 4751253 | 0.41 | 4783524 | 99.3 | 70 | 130 | |
| Tb | 159 | 2 | 2687971 | 0.99 | 2661694 | 101.0 | 70 | 130 | |
| Ho | 165 | 1 | 4686766 | 0.51 | 4675933 | 100.2 | 70 | 130 | |
| Ho | 165 | 2 | 2698812 | 0.71 | 2700827 | 99.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **LRS V-357843** |
| **Data File Name** | **014SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T11:47:53-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2109** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 489.67 | 489.67 | ppb | 2465254 | 0.40 | 550 | |
| Na | 23 | 115 | 2 | 50374.71 | 50374.71 | ppb | 66609395 | 0.40 | 55000 | |
| Mg | 24 | 115 | 2 | 50224.35 | 50224.35 | ppb | 31879843 | 0.62 | 55000 | |
| Al | 27 | 115 | 2 | 15075.78 | 15075.78 | ppb | 3324365 | 0.79 | 16500 | |
| K | 39 | 115 | 2 | 50599.47 | 50599.47 | ppb | 29524609 | 0.77 | 55000 | |
| Ca | 44 | 115 | 2 | 51345.88 | 51345.88 | ppb | 1697149 | 0.97 | 55000 | |
| V | 51 | 115 | 2 | 500.83 | 500.83 | ppb | 4676836 | 0.65 | 550 | |
| Cr | 52 | 115 | 2 | 490.10 | 490.10 | ppb | 5834392 | 0.37 | 550 | |
| Mn | 55 | 115 | 2 | 495.49 | 495.49 | ppb | 3169417 | 0.62 | 550 | |
| Fe | 56 | 115 | 2 | 50127.16 | 50127.16 | ppb | 485817157 | 1.54 | 55000 | |
| Co | 59 | 115 | 2 | 486.78 | 486.78 | ppb | 10282012 | 0.88 | 550 | |
| Ni | 60 | 115 | 2 | 489.73 | 489.73 | ppb | 2778530 | 0.94 | 550 | |
| Cu | 65 | 115 | 2 | 473.15 | 473.15 | ppb | 3788709 | 0.65 | 550 | |
| Zn | 66 | 115 | 2 | 477.78 | 477.78 | ppb | 1120338 | 0.39 | 550 | |
| As | 75 | 115 | 2 | 499.83 | 499.83 | ppb | 728760 | 0.11 | 550 | |
| Se | 78 | 115 | 2 | 2471.06 | 2471.06 | ppb | 233373 | 0.81 | 2750 | |
| Mo | 95 | 115 | 1 | 501.18 | 501.18 | ppb | 9187152 | 0.29 | 550 | |
| Ag | 107 | 115 | 1 | 100.72 | 100.72 | ppb | 5140169 | 0.83 | 550 | |
| Cd | 111 | 115 | 1 | 491.03 | 491.03 | ppb | 5035306 | 0.11 | 550 | |
| Sb | 121 | 115 | 1 | 495.03 | 495.03 | ppb | 21064172 | 0.19 | 550 | |
| Ba | 137 | 159 | 1 | 479.67 | 479.67 | ppb | 7856935 | 0.41 | 550 | |
| Tl | 205 | 165 | 1 | 479.00 | 479.00 | ppb | 53773553 | 0.68 | 550 | |
| Pb | 208 | 165 | 1 | 471.67 | 471.67 | ppb | 37582847 | 0.36 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1677351 | 1.00 | 1698298 | 98.8 | 70 | 130 | |
| Sc | 45 | 2 | 76389 | 1.11 | 78845 | 96.9 | 70 | 130 | |
| In | 115 | 1 | 3088811 | 0.55 | 3231342 | 95.6 | 70 | 130 | |
| In | 115 | 2 | 695190 | 0.14 | 739504 | 94.0 | 70 | 130 | |
| Tb | 159 | 1 | 4770907 | 1.02 | 4783524 | 99.7 | 70 | 130 | |
| Tb | 159 | 2 | 2599328 | 0.88 | 2661694 | 97.7 | 70 | 130 | |
| Ho | 165 | 1 | 4681623 | 0.62 | 4675933 | 100.1 | 70 | 130 | |
| Ho | 165 | 2 | 2634913 | 0.58 | 2700827 | 97.6 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **015SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T11:52:03-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.10 | 0.10 | ppb | 748 | 8.96 | 550 | |
| Na | 23 | 115 | 2 | 2.57 | 2.57 | ppb | 94603 | 0.58 | 55000 | |
| Mg | 24 | 115 | 2 | 0.43 | 0.43 | ppb | 2589 | 1.64 | 55000 | |
| Al | 27 | 115 | 2 | 0.95 | 0.95 | ppb | 372 | 9.49 | 16500 | |
| K | 39 | 115 | 2 | 3.58 | 3.58 | ppb | 27112 | 0.36 | 55000 | |
| Ca | 44 | 115 | 2 | -0.52 | -0.52 | ppb | 234 | 15.73 | 55000 | |
| V | 51 | 115 | 2 | -0.01 | -0.01 | ppb | 114 | 13.13 | 550 | |
| Cr | 52 | 115 | 2 | -0.03 | -0.03 | ppb | 1240 | 9.87 | 550 | |
| Mn | 55 | 115 | 2 | 0.02 | 0.02 | ppb | 1715 | 3.40 | 550 | |
| Fe | 56 | 115 | 2 | 5.67 | 5.67 | ppb | 121565 | 1.95 | 55000 | |
| Co | 59 | 115 | 2 | 0.02 | 0.02 | ppb | 1118 | 2.24 | 550 | |
| Ni | 60 | 115 | 2 | 0.01 | 0.01 | ppb | 1102 | 4.02 | 550 | |
| Cu | 65 | 115 | 2 | -0.52 | -0.52 | ppb | 1115 | 10.47 | 550 | |
| Zn | 66 | 115 | 2 | 0.31 | 0.31 | ppb | 4146 | 1.15 | 550 | |
| As | 75 | 115 | 2 | 0.06 | 0.06 | ppb | 113 | 29.64 | 550 | |
| Se | 78 | 115 | 2 | 0.40 | 0.40 | ppb | 87 | 14.68 | 2750 | |
| Mo | 95 | 115 | 1 | 0.24 | 0.24 | ppb | 4733 | 3.17 | 550 | |
| Ag | 107 | 115 | 1 | 1.05 | 1.05 | ppb | 58444 | 15.20 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 141 | 10.30 | 550 | |
| Sb | 121 | 115 | 1 | 0.13 | 0.13 | ppb | 13374 | 5.07 | 550 | |
| Ba | 137 | 159 | 1 | -0.01 | -0.01 | ppb | 737 | 4.46 | 550 | |
| Tl | 205 | 165 | 1 | 0.51 | 0.51 | ppb | 58977 | 4.80 | 550 | |
| Pb | 208 | 165 | 1 | 0.05 | 0.05 | ppb | 6666 | 1.83 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1675581 | 1.41 | 1698296 | 98.7 | 70 | 130 | |
| Sc | 45 | 2 | 77538 | 0.78 | 78845 | 98.3 | 70 | 130 | |
| In | 115 | 1 | 3209610 | 0.28 | 3231342 | 99.3 | 70 | 130 | |
| In | 115 | 2 | 740477 | 0.48 | 739504 | 100.1 | 70 | 130 | |
| Tb | 159 | 1 | 4724545 | 0.79 | 4783524 | 98.8 | 70 | 130 | |
| Tb | 159 | 2 | 2654291 | 0.45 | 2661694 | 99.7 | 70 | 130 | |
| Ho | 165 | 1 | 4625224 | 0.30 | 4675933 | 98.9 | 70 | 130 | |
| Ho | 165 | 2 | 2679516 | 0.72 | 2700827 | 99.2 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **016SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T11:56:33-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.04 | 0.04 | ppb | 434 | 3.54 | 550 | |
| Na | 23 | 115 | 2 | -0.51 | -0.51 | ppb | 91790 | 0.91 | 55000 | |
| Mg | 24 | 115 | 2 | 0.94 | 0.94 | ppb | 2988 | 12.30 | 55000 | |
| Al | 27 | 115 | 2 | 1.00 | 1.00 | ppb | 390 | 13.68 | 16500 | |
| K | 39 | 115 | 2 | 3.01 | 3.01 | ppb | 27205 | 1.34 | 55000 | |
| Ca | 44 | 115 | 2 | 0.99 | 0.99 | ppb | 292 | 6.97 | 55000 | |
| V | 51 | 115 | 2 | -0.01 | -0.01 | ppb | 144 | 24.02 | 550 | |
| Cr | 52 | 115 | 2 | -0.03 | -0.03 | ppb | 1263 | 3.69 | 550 | |
| Mn | 55 | 115 | 2 | 0.03 | 0.03 | ppb | 1789 | 5.49 | 550 | |
| Fe | 56 | 115 | 2 | 4.57 | 4.57 | ppb | 112046 | 2.83 | 55000 | |
| Co | 59 | 115 | 2 | 0.02 | 0.02 | ppb | 1268 | 13.98 | 550 | |
| Ni | 60 | 115 | 2 | -0.01 | -0.01 | ppb | 996 | 2.81 | 550 | |
| Cu | 65 | 115 | 2 | -0.51 | -0.51 | ppb | 1186 | 3.95 | 550 | |
| Zn | 66 | 115 | 2 | 0.32 | 0.32 | ppb | 4245 | 3.04 | 550 | |
| As | 75 | 115 | 2 | 0.03 | 0.03 | ppb | 69 | 19.34 | 550 | |
| Se | 78 | 115 | 2 | 0.25 | 0.25 | ppb | 73 | 12.68 | 2750 | |
| Mo | 95 | 115 | 1 | 0.08 | 0.08 | ppb | 1711 | 8.87 | 550 | |
| Ag | 107 | 115 | 1 | 0.79 | 0.79 | ppb | 44818 | 12.63 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 104 | 31.97 | 550 | |
| Sb | 121 | 115 | 1 | -0.08 | -0.08 | ppb | 3872 | 3.60 | 550 | |
| Ba | 137 | 159 | 1 | -0.02 | -0.02 | ppb | 550 | 8.42 | 550 | |
| Tl | 205 | 165 | 1 | 0.09 | 0.09 | ppb | 13137 | 8.12 | 550 | |
| Pb | 208 | 165 | 1 | 0.02 | 0.02 | ppb | 4261 | 5.14 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1685329 | 0.78 | 1698298 | 99.2 | 70 | 130 | |
| Sc | 45 | 2 | 78627 | 0.69 | 78845 | 99.7 | 70 | 130 | |
| In | 115 | 1 | 3203734 | 0.81 | 3231342 | 99.1 | 70 | 130 | |
| In | 115 | 2 | 752892 | 0.75 | 739504 | 101.8 | 70 | 130 | |
| Tb | 159 | 1 | 4687605 | 0.46 | 4783524 | 98.0 | 70 | 130 | |
| Tb | 159 | 2 | 2647037 | 0.50 | 2661694 | 99.4 | 70 | 130 | |
| Ho | 165 | 1 | 4604291 | 0.69 | 4675933 | 98.5 | 70 | 130 | |
| Ho | 165 | 2 | 2683074 | 0.32 | 2700827 | 99.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **017SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T12:01:01-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.04 | 0.04 | ppb | 444 | 10.13 | 550 | |
| Na | 23 | 115 | 2 | -1.45 | -1.45 | ppb | 90733 | 1.10 | 55000 | |
| Mg | 24 | 115 | 2 | 1.43 | 1.43 | ppb | 3334 | 6.54 | 55000 | |
| Al | 27 | 115 | 2 | 1.33 | 1.33 | ppb | 469 | 6.45 | 16500 | |
| K | 39 | 115 | 2 | 3.51 | 3.51 | ppb | 27603 | 0.49 | 55000 | |
| Ca | 44 | 115 | 2 | 1.24 | 1.24 | ppb | 302 | 16.26 | 55000 | |
| V | 51 | 115 | 2 | -0.01 | -0.01 | ppb | 144 | 16.37 | 550 | |
| Cr | 52 | 115 | 2 | -0.02 | -0.02 | ppb | 1335 | 5.10 | 550 | |
| Mn | 55 | 115 | 2 | 0.03 | 0.03 | ppb | 1797 | 3.95 | 550 | |
| Fe | 56 | 115 | 2 | 3.70 | 3.70 | ppb | 103256 | 7.66 | 55000 | |
| Co | 59 | 115 | 2 | 0.03 | 0.03 | ppb | 1536 | 3.69 | 550 | |
| Ni | 60 | 115 | 2 | -0.01 | -0.01 | ppb | 1033 | 2.58 | 550 | |
| Cu | 65 | 115 | 2 | -0.52 | -0.52 | ppb | 1116 | 2.68 | 550 | |
| Zn | 66 | 115 | 2 | 0.23 | 0.23 | ppb | 4034 | 5.75 | 550 | |
| As | 75 | 115 | 2 | 0.02 | 0.02 | ppb | 50 | 12.37 | 550 | |
| Se | 78 | 115 | 2 | 0.19 | 0.19 | ppb | 67 | 21.31 | 2750 | |
| Mo | 95 | 115 | 1 | 0.06 | 0.06 | ppb | 1297 | 5.16 | 550 | |
| Ag | 107 | 115 | 1 | 0.55 | 0.55 | ppb | 31883 | 12.14 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 176 | 11.41 | 550 | |
| Sb | 121 | 115 | 1 | -0.11 | -0.11 | ppb | 2793 | 3.34 | 550 | |
| Ba | 137 | 159 | 1 | -0.02 | -0.02 | ppb | 648 | 12.82 | 550 | |
| Tl | 205 | 165 | 1 | 0.07 | 0.07 | ppb | 10157 | 9.05 | 550 | |
| Pb | 208 | 165 | 1 | 0.01 | 0.01 | ppb | 4211 | 4.46 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1706907 | 1.10 | 1698298 | 100.5 | 70 | 130 | |
| Sc | 45 | 2 | 79787 | 2.11 | 78845 | 101.2 | 70 | 130 | |
| In | 115 | 1 | 3228097 | 0.72 | 3231342 | 99.9 | 70 | 130 | |
| In | 115 | 2 | 755254 | 0.55 | 739504 | 102.1 | 70 | 130 | |
| Tb | 159 | 1 | 4743968 | 0.38 | 4783524 | 99.2 | 70 | 130 | |
| Tb | 159 | 2 | 2683975 | 0.56 | 2661694 | 100.8 | 70 | 130 | |
| Ho | 165 | 1 | 4635546 | 0.14 | 4675933 | 99.1 | 70 | 130 | |
| Ho | 165 | 2 | 2694927 | 0.99 | 2700827 | 99.8 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Verification (CCV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCV V-357844** |
| **Data File Name** | **0186CCV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T12:11:21-04:00** |
| **Type** | **6-CCV** |
| **VialNumber** | **1201** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 49.85 | ppb | 50 | 260719 | 0.64 | 99.69 | 90 | 110 | |
| Na | 23 | 115 | 2 | 5009.93 | ppb | 5000 | 7207707 | 0.31 | 100.20 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 5026.58 | ppb | 5000 | 3433678 | 0.52 | 100.53 | 90 | 110 | |
| Al | 27 | 115 | 2 | 1499.23 | ppb | 1500 | 355709 | 0.64 | 99.95 | 90 | 110 | |
| K | 39 | 115 | 2 | 5081.07 | ppb | 5000 | 3211425 | 0.65 | 101.62 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 4954.80 | ppb | 5000 | 176378 | 0.74 | 99.10 | 90 | 110 | |
| V | 51 | 115 | 2 | 49.48 | ppb | 50 | 497163 | 0.40 | 98.95 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 49.82 | ppb | 50 | 639287 | 0.67 | 99.63 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 49.62 | ppb | 50 | 342803 | 0.38 | 99.24 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 5005.28 | ppb | 5000 | 52232228 | 0.29 | 100.11 | 90 | 110 | |
| Co | 59 | 115 | 2 | 49.38 | ppb | 50 | 1122619 | 0.40 | 98.77 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 49.69 | ppb | 50 | 304206 | 0.54 | 99.39 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 49.16 | ppb | 50 | 428439 | 0.15 | 98.33 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 49.35 | ppb | 50 | 127510 | 0.46 | 98.69 | 90 | 110 | |
| As | 75 | 115 | 2 | 49.56 | ppb | 50 | 77739 | 0.18 | 99.12 | 90 | 110 | |
| Se | 78 | 115 | 2 | 250.45 | ppb | 250 | 25483 | 1.13 | 100.18 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 49.13 | ppb | 50 | 954073 | 0.86 | 98.26 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 50.98 | ppb | 50 | 2757454 | 1.06 | 101.96 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 49.43 | ppb | 50 | 536912 | 0.69 | 98.86 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 50.50 | ppb | 50 | 2283174 | 0.22 | 101.00 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 50.29 | ppb | 50 | 830030 | 0.36 | 100.59 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 49.89 | ppb | 50 | 5659369 | 0.46 | 99.78 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 50.48 | ppb | 50 | 4065130 | 0.30 | 100.95 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1741091 | 0.85 | 1698298 | 102.5 | 70 | 130 | |
| Sc | 45 | 2 | 79702 | 0.70 | 78845 | 101.1 | 70 | 130 | |
| In | 115 | 1 | 3271706 | 0.36 | 3231342 | 101.2 | 70 | 130 | |
| In | 115 | 2 | 747724 | 0.59 | 739504 | 101.1 | 70 | 130 | |
| Tb | 159 | 1 | 4801873 | 0.72 | 4783524 | 100.4 | 70 | 130 | |
| Tb | 159 | 2 | 2676932 | 0.36 | 2661694 | 100.6 | 70 | 130 | |
| Ho | 165 | 1 | 4728721 | 1.06 | 4675933 | 101.1 | 70 | 130 | |
| Ho | 165 | 2 | 2699469 | 0.84 | 2700827 | 99.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Blank (CCB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCB V-357841** |
| **Data File Name** | **0196CCB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T12:15:39-04:00** |
| **Type** | **6-CCB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | ppb | 0.5 | |
| Na | 23 | 115 | 2 | -17.97 | ppb | 250 | |
| Mg | 24 | 115 | 2 | -0.33 | ppb | 250 | |
| Al | 27 | 115 | 2 | 1.67 | ppb | 100 | |
| K | 39 | 115 | 2 | -1.73 | ppb | 250 | |
| Ca | 44 | 115 | 2 | -2.35 | ppb | 250 | |
| V | 51 | 115 | 2 | 0.00 | ppb | 1 | |
| Cr | 52 | 115 | 2 | -0.03 | ppb | 1 | |
| Mn | 55 | 115 | 2 | -0.04 | ppb | 3 | |
| Fe | 56 | 115 | 2 | 2.23 | ppb | 150 | |
| Co | 59 | 115 | 2 | -0.01 | ppb | 1 | |
| Ni | 60 | 115 | 2 | -0.06 | ppb | 1.5 | |
| Cu | 65 | 115 | 2 | -0.24 | ppb | 5 | |
| Zn | 66 | 115 | 2 | -0.28 | ppb | 10 | |
| As | 75 | 115 | 2 | 0.01 | ppb | 1 | |
| Se | 78 | 115 | 2 | 0.11 | ppb | 5 | |
| Mo | 95 | 115 | 1 | 0.05 | ppb | 1 | |
| Ag | 107 | 115 | 1 | 0.15 | ppb | 0.5 | |
| Cd | 111 | 115 | 1 | 0.00 | ppb | 1 | |
| Sb | 121 | 115 | 1 | -0.10 | ppb | 1.5 | |
| Ba | 137 | 159 | 1 | -0.02 | ppb | 2.5 | |
| Tl | 205 | 165 | 1 | 0.13 | ppb | 1 | |
| Pb | 208 | 165 | 1 | 0.01 | ppb | 1.5 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1707090 | 0.43 | 1698298 | 100.5 | 70 | 130 | |
| Sc | 45 | 2 | 78621 | 0.59 | 78845 | 99.7 | 70 | 130 | |
| In | 115 | 1 | 3255788 | 0.72 | 3231342 | 100.8 | 70 | 130 | |
| In | 115 | 2 | 740783 | 0.29 | 739504 | 100.2 | 70 | 130 | |
| Tb | 159 | 1 | 4782263 | 0.63 | 4783524 | 100.0 | 70 | 130 | |
| Tb | 159 | 2 | 2677030 | 0.85 | 2661694 | 100.6 | 70 | 130 | |
| Ho | 165 | 1 | 4726741 | 0.25 | 4675933 | 101.1 | 70 | 130 | |
| Ho | 165 | 2 | 2702041 | 0.83 | 2700827 | 100.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **MB 94427** |
| **Data File Name** | **020SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T12:20:07-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2201** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | 0.01 | ppb | 272 | 13.54 | 550 | |
| Na | 23 | 115 | 2 | -7.63 | -7.63 | ppb | 80564 | 0.56 | 55000 | |
| Mg | 24 | 115 | 2 | -0.02 | -0.02 | ppb | 2296 | 5.74 | 55000 | |
| Al | 27 | 115 | 2 | 0.62 | 0.62 | ppb | 294 | 15.70 | 16500 | |
| K | 39 | 115 | 2 | -0.20 | -0.20 | ppb | 24858 | 1.22 | 55000 | |
| Ca | 44 | 115 | 2 | 6.88 | 6.88 | ppb | 497 | 11.93 | 55000 | |
| V | 51 | 115 | 2 | 0.01 | 0.01 | ppb | 330 | 14.25 | 550 | |
| Cr | 52 | 115 | 2 | 0.04 | 0.04 | ppb | 2120 | 11.04 | 550 | |
| Mn | 55 | 115 | 2 | 0.10 | 0.10 | ppb | 2238 | 3.05 | 550 | |
| Fe | 56 | 115 | 2 | 3.94 | 3.94 | ppb | 104132 | 4.89 | 55000 | |
| Co | 59 | 115 | 2 | -0.01 | -0.01 | ppb | 567 | 8.30 | 550 | |
| Ni | 60 | 115 | 2 | 0.04 | 0.04 | ppb | 1322 | 2.47 | 550 | |
| Cu | 65 | 115 | 2 | 0.16 | 0.16 | ppb | 6952 | 2.90 | 550 | |
| Zn | 66 | 115 | 2 | 1.43 | 1.43 | ppb | 6952 | 2.83 | 550 | |
| As | 75 | 115 | 2 | 0.01 | 0.01 | ppb | 37 | 18.43 | 550 | |
| Se | 78 | 115 | 2 | -0.04 | -0.04 | ppb | 43 | 21.91 | 2750 | |
| Mo | 95 | 115 | 1 | 0.03 | 0.03 | ppb | 707 | 4.99 | 550 | |
| Ag | 107 | 115 | 1 | 0.20 | 0.20 | ppb | 13765 | 10.65 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 46 | 28.12 | 550 | |
| Sb | 121 | 115 | 1 | -0.12 | -0.12 | ppb | 2205 | 6.75 | 550 | |
| Ba | 137 | 159 | 1 | 0.14 | 0.14 | ppb | 3272 | 2.24 | 550 | |
| Tl | 205 | 165 | 1 | 0.02 | 0.02 | ppb | 4841 | 6.35 | 550 | |
| Pb | 208 | 165 | 1 | 0.03 | 0.03 | ppb | 5401 | 6.61 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1714819 | 1.00 | 1698298 | 101.0 | 70 | 130 | |
| Sc | 45 | 2 | 78686 | 0.69 | 78845 | 99.8 | 70 | 130 | |
| In | 115 | 1 | 3256882 | 1.53 | 3231342 | 100.9 | 70 | 130 | |
| In | 115 | 2 | 743295 | 0.39 | 739504 | 100.5 | 70 | 130 | |
| Tb | 159 | 1 | 4800921 | 0.36 | 4783524 | 100.4 | 70 | 130 | |
| Tb | 159 | 2 | 2684071 | 1.09 | 2661694 | 100.8 | 70 | 130 | |
| Ho | 165 | 1 | 4701125 | 1.18 | 4675933 | 100.5 | 70 | 130 | |
| Ho | 165 | 2 | 2717577 | 1.22 | 2700827 | 100.6 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **LCSW 94427** |
| **Data File Name** | **021SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T12:24:36-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 248.80 | 248.80 | ppb | 1179957 | 1.40 | 550 | |
| Na | 23 | 115 | 2 | 24043.58 | 24043.58 | ppb | 31837891 | 0.55 | 55000 | |
| Mg | 24 | 115 | 2 | 23314.47 | 23314.47 | ppb | 14800579 | 0.86 | 55000 | |
| Al | 27 | 115 | 2 | 2391.99 | 2391.99 | ppb | 527575 | 0.23 | 16500 | |
| K | 39 | 115 | 2 | 23336.05 | 23336.05 | ppb | 13628990 | 0.14 | 55000 | |
| Ca | 44 | 115 | 2 | 23437.68 | 23437.68 | ppb | 774822 | 0.22 | 55000 | |
| V | 51 | 115 | 2 | 237.70 | 237.70 | ppb | 2219891 | 0.77 | 550 | |
| Cr | 52 | 115 | 2 | 238.95 | 238.95 | ppb | 2845335 | 0.42 | 550 | |
| Mn | 55 | 115 | 2 | 247.03 | 247.03 | ppb | 1580959 | 1.93 | 550 | |
| Fe | 56 | 115 | 2 | 2469.46 | 2469.46 | ppb | 23990086 | 0.61 | 55000 | |
| Co | 59 | 115 | 2 | 234.16 | 234.16 | ppb | 4946472 | 0.36 | 550 | |
| Ni | 60 | 115 | 2 | 235.28 | 235.28 | ppb | 1335416 | 0.47 | 550 | |
| Cu | 65 | 115 | 2 | 238.68 | 238.68 | ppb | 1913819 | 0.77 | 550 | |
| Zn | 66 | 115 | 2 | 242.44 | 242.44 | ppb | 570096 | 1.11 | 550 | |
| As | 75 | 115 | 2 | 238.49 | 238.49 | ppb | 347752 | 0.98 | 550 | |
| Se | 78 | 115 | 2 | 240.10 | 240.10 | ppb | 22715 | 0.56 | 2750 | |
| Mo | 95 | 115 | 1 | 242.27 | 242.27 | ppb | 4515799 | 0.99 | 550 | |
| Ag | 107 | 115 | 1 | 49.06 | 49.06 | ppb | 2547215 | 0.83 | 550 | |
| Cd | 111 | 115 | 1 | 246.46 | 246.46 | ppb | 2569864 | 1.23 | 550 | |
| Sb | 121 | 115 | 1 | 242.82 | 242.82 | ppb | 10510064 | 1.38 | 550 | |
| Ba | 137 | 159 | 1 | 240.28 | 240.28 | ppb | 3913098 | 1.30 | 550 | |
| Tl | 205 | 165 | 1 | 245.33 | 245.33 | ppb | 27649132 | 0.50 | 550 | |
| Pb | 208 | 165 | 1 | 239.02 | 239.02 | ppb | 19121276 | 0.73 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1579980 | 0.82 | 1696298 | 93.0 | 70 | 130 | |
| Sc | 45 | 2 | 71554 | 0.98 | 78845 | 90.8 | 70 | 130 | |
| In | 115 | 1 | 3140604 | 0.43 | 3231342 | 97.2 | 70 | 130 | |
| In | 115 | 2 | 695220 | 0.76 | 739504 | 94.0 | 70 | 130 | |
| Tb | 159 | 1 | 4742447 | 0.94 | 4783524 | 99.1 | 70 | 130 | |
| Tb | 159 | 2 | 2573561 | 1.00 | 2661694 | 96.7 | 70 | 130 | |
| Ho | 165 | 1 | 4699723 | 0.25 | 4675933 | 100.5 | 70 | 130 | |
| Ho | 165 | 2 | 2602807 | 0.77 | 2700827 | 96.4 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **LCS MR 94427** |
| **Data File Name** | **022SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T12:28:45-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2203** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 250.86 | 250.86 | ppb | 1191418 | 0.30 | 550 | |
| Na | 23 | 115 | 2 | 24163.53 | 24163.53 | ppb | 31564996 | 0.73 | 55000 | |
| Mg | 24 | 115 | 2 | 23459.37 | 23459.37 | ppb | 14691775 | 1.03 | 55000 | |
| Al | 27 | 115 | 2 | 2397.67 | 2397.67 | ppb | 521719 | 0.99 | 16500 | |
| K | 39 | 115 | 2 | 23414.70 | 23414.70 | ppb | 13491065 | 0.76 | 55000 | |
| Ca | 44 | 115 | 2 | 23487.59 | 23487.59 | ppb | 766027 | 1.02 | 55000 | |
| V | 51 | 115 | 2 | 238.15 | 238.15 | ppb | 2194124 | 1.39 | 550 | |
| Cr | 52 | 115 | 2 | 239.47 | 239.47 | ppb | 2813185 | 0.11 | 550 | |
| Mn | 55 | 115 | 2 | 246.35 | 246.35 | ppb | 1555353 | 1.26 | 550 | |
| Fe | 56 | 115 | 2 | 2479.49 | 2479.49 | ppb | 23762634 | 0.38 | 55000 | |
| Co | 59 | 115 | 2 | 234.37 | 234.37 | ppb | 4884308 | 1.32 | 550 | |
| Ni | 60 | 115 | 2 | 236.10 | 236.10 | ppb | 1322012 | 0.32 | 550 | |
| Cu | 65 | 115 | 2 | 239.64 | 239.64 | ppb | 1895607 | 1.11 | 550 | |
| Zn | 66 | 115 | 2 | 244.32 | 244.32 | ppb | 566718 | 0.46 | 550 | |
| As | 75 | 115 | 2 | 239.82 | 239.82 | ppb | 344962 | 0.35 | 550 | |
| Se | 78 | 115 | 2 | 241.03 | 241.03 | ppb | 22497 | 1.92 | 2750 | |
| Mo | 95 | 115 | 1 | 240.83 | 240.83 | ppb | 4491838 | 0.66 | 550 | |
| Ag | 107 | 115 | 1 | 48.91 | 48.91 | ppb | 2541383 | 0.60 | 550 | |
| Cd | 111 | 115 | 1 | 245.92 | 245.92 | ppb | 2565797 | 0.80 | 550 | |
| Sb | 121 | 115 | 1 | 242.39 | 242.39 | ppb | 10497938 | 0.35 | 550 | |
| Ba | 137 | 159 | 1 | 239.47 | 239.47 | ppb | 3906417 | 0.38 | 550 | |
| Tl | 205 | 165 | 1 | 248.30 | 248.30 | ppb | 27717687 | 1.16 | 550 | |
| Pb | 208 | 165 | 1 | 243.96 | 243.96 | ppb | 19330695 | 1.01 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1582170 | 1.03 | 1696298 | 93.2 | 70 | 130 | |
| Sc | 45 | 2 | 70157 | 1.93 | 78845 | 89.0 | 70 | 130 | |
| In | 115 | 1 | 3142630 | 0.21 | 3231342 | 97.3 | 70 | 130 | |
| In | 115 | 2 | 685842 | 0.58 | 739504 | 92.7 | 70 | 130 | |
| Tb | 159 | 1 | 4750419 | 0.11 | 4783524 | 99.3 | 70 | 130 | |
| Tb | 159 | 2 | 2555668 | 0.82 | 2661694 | 96.0 | 70 | 130 | |
| Ho | 165 | 1 | 4654933 | 0.63 | 4675933 | 99.6 | 70 | 130 | |
| Ho | 165 | 2 | 2600248 | 0.71 | 2700827 | 96.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-048** |
| **Data File Name** | **023SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T12:32:55-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2204** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.12 | 0.12 | ppb | 791 | 2.71 | 550 | |
| Na | 23 | 115 | 2 | 1530785.78 | 1530785.78 | ppb | 1787862444 | 0.85 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 143918.84 | 143918.84 | ppb | 80787109 | 1.03 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 84.80 | 84.80 | ppb | 16678 | 20.49 | 16500 | |
| K | 39 | 115 | 2 | 49761.95 | 49761.95 | ppb | 25679578 | 1.21 | 55000 | |
| Ca | 44 | 115 | 2 | 95501.34 | 95501.34 | ppb | 2791481 | 1.06 | 55000 | >LDR |
| V | 51 | 115 | 2 | 1.18 | 1.18 | ppb | 9972 | 2.41 | 550 | |
| Cr | 52 | 115 | 2 | 2.13 | 2.13 | ppb | 23773 | 1.27 | 550 | |
| Mn | 55 | 115 | 2 | 1200.71 | 1200.71 | ppb | 6790475 | 0.85 | 550 | >LDR |
| Fe | 56 | 115 | 2 | 13763.60 | 13763.60 | ppb | 118005402 | 0.53 | 55000 | |
| Co | 59 | 115 | 2 | 1.18 | 1.18 | ppb | 22734 | 1.94 | 550 | |
| Ni | 60 | 115 | 2 | 2.43 | 2.43 | ppb | 13044 | 2.65 | 550 | |
| Cu | 65 | 115 | 2 | 0.75 | 0.75 | ppb | 9930 | 1.00 | 550 | |
| Zn | 66 | 115 | 2 | 15.72 | 15.72 | ppb | 35315 | 1.61 | 550 | |
| As | 75 | 115 | 2 | 3.49 | 3.49 | ppb | 4524 | 4.01 | 550 | |
| Se | 78 | 115 | 2 | 0.28 | 0.28 | ppb | 63 | 27.11 | 2750 | |
| Mo | 95 | 115 | 1 | 1.93 | 1.93 | ppb | 31630 | 0.27 | 550 | |
| Ag | 107 | 115 | 1 | 1.57 | 1.57 | ppb | 73631 | 8.47 | 550 | |
| Cd | 111 | 115 | 1 | 0.04 | 0.04 | ppb | 380 | 6.72 | 550 | |
| Sb | 121 | 115 | 1 | 0.08 | 0.08 | ppb | 9702 | 2.55 | 550 | |
| Ba | 137 | 159 | 1 | 159.10 | 159.10 | ppb | 2329845 | 1.03 | 550 | |
| Tl | 205 | 165 | 1 | 0.52 | 0.52 | ppb | 54680 | 6.29 | 550 | |
| Pb | 208 | 165 | 1 | 0.28 | 0.28 | ppb | 23116 | 0.78 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1595862 | 0.90 | 1698298 | 94.0 | 70 | 130 | |
| Sc | 45 | 2 | 73582 | 1.91 | 78845 | 93.3 | 70 | 130 | |
| In | 115 | 1 | 2750162 | 1.10 | 3231342 | 85.1 | 70 | 130 | |
| In | 115 | 2 | 614814 | 0.90 | 739504 | 83.1 | 70 | 130 | |
| Tb | 159 | 1 | 4264327 | 0.50 | 4783524 | 89.1 | 70 | 130 | |
| Tb | 159 | 2 | 2296313 | 0.73 | 2661694 | 86.3 | 70 | 130 | |
| Ho | 165 | 1 | 4203003 | 0.87 | 4675933 | 89.9 | 70 | 130 | |
| Ho | 165 | 2 | 2327755 | 0.48 | 2700827 | 86.2 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-048 MR** |
| **Data File Name** | **024SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T12:37:20-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2205** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.07 | 0.07 | ppb | 597 | 10.35 | 550 | |
| Na | 23 | 115 | 2 | 1554671.70 | 1554671.70 | ppb | 1847001732 | 0.11 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 145623.19 | 145623.19 | ppb | 83150645 | 0.30 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 77.67 | 77.67 | ppb | 15536 | 14.20 | 16500 | |
| K | 39 | 115 | 2 | 50523.79 | 50523.79 | ppb | 26522277 | 1.58 | 55000 | |
| Ca | 44 | 115 | 2 | 96326.08 | 96326.08 | ppb | 2864184 | 1.47 | 55000 | >LDR |
| V | 51 | 115 | 2 | 1.18 | 1.18 | ppb | 10173 | 1.50 | 550 | |
| Cr | 52 | 115 | 2 | 2.09 | 2.09 | ppb | 23738 | 1.36 | 550 | |
| Mn | 55 | 115 | 2 | 1204.43 | 1204.43 | ppb | 6928835 | 0.87 | 550 | >LDR |
| Fe | 56 | 115 | 2 | 13820.91 | 13820.91 | ppb | 120541674 | 0.75 | 55000 | |
| Co | 59 | 115 | 2 | 1.16 | 1.16 | ppb | 23054 | 2.93 | 550 | |
| Ni | 60 | 115 | 2 | 2.35 | 2.35 | ppb | 12858 | 3.73 | 550 | |
| Cu | 65 | 115 | 2 | 0.76 | 0.76 | ppb | 10124 | 1.86 | 550 | |
| Zn | 66 | 115 | 2 | 14.56 | 14.56 | ppb | 33481 | 0.65 | 550 | |
| As | 75 | 115 | 2 | 3.40 | 3.40 | ppb | 4481 | 3.47 | 550 | |
| Se | 78 | 115 | 2 | 0.45 | 0.45 | ppb | 78 | 29.93 | 2750 | |
| Mo | 95 | 115 | 1 | 1.62 | 1.62 | ppb | 30363 | 0.92 | 550 | |
| Ag | 107 | 115 | 1 | 1.34 | 1.34 | ppb | 64592 | 11.84 | 550 | |
| Cd | 111 | 115 | 1 | 0.02 | 0.02 | ppb | 253 | 8.63 | 550 | |
| Sb | 121 | 115 | 1 | -0.04 | -0.04 | ppb | 5114 | 0.97 | 550 | |
| Ba | 137 | 159 | 1 | 159.59 | 159.59 | ppb | 2363871 | 1.20 | 550 | |
| Tl | 205 | 165 | 1 | 0.08 | 0.08 | ppb | 11011 | 18.16 | 550 | |
| Pb | 208 | 165 | 1 | 0.33 | 0.33 | ppb | 26622 | 2.90 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1660982 | 0.71 | 1698298 | 97.8 | 70 | 130 | |
| Sc | 45 | 2 | 75019 | 0.47 | 78845 | 95.1 | 70 | 130 | |
| In | 115 | 1 | 2798171 | 0.19 | 3231342 | 86.6 | 70 | 130 | |
| In | 115 | 2 | 625409 | 0.68 | 739504 | 84.6 | 70 | 130 | |
| Tb | 159 | 1 | 4312846 | 0.24 | 4783524 | 90.2 | 70 | 130 | |
| Tb | 159 | 2 | 2317059 | 0.54 | 2661694 | 87.1 | 70 | 130 | |
| Ho | 165 | 1 | 4261278 | 1.04 | 4675933 | 91.1 | 70 | 130 | |
| Ho | 165 | 2 | 2335630 | 0.41 | 2700827 | 86.5 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-048 SD** |
| **Data File Name** | **025SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T12:41:46-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2209** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 434 | 5.96 | 550 | |
| Na | 23 | 115 | 2 | 301336.38 | 301336.38 | ppb | 425622394 | 0.80 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 28892.04 | 28892.04 | ppb | 19611790 | 1.13 | 55000 | |
| Al | 27 | 115 | 2 | 15.90 | 15.90 | ppb | 3899 | 5.17 | 16500 | |
| K | 39 | 115 | 2 | 10022.89 | 10022.89 | ppb | 6273806 | 0.84 | 55000 | |
| Ca | 44 | 115 | 2 | 18764.68 | 18764.68 | ppb | 663414 | 1.23 | 55000 | |
| V | 51 | 115 | 2 | 0.23 | 0.23 | ppb | 2554 | 6.54 | 550 | |
| Cr | 52 | 115 | 2 | 0.42 | 0.42 | ppb | 6921 | 2.49 | 550 | |
| Mn | 55 | 115 | 2 | 246.12 | 246.12 | ppb | 1684236 | 1.22 | 550 | |
| Fe | 56 | 115 | 2 | 2819.14 | 2819.14 | ppb | 29276315 | 1.05 | 55000 | |
| Co | 59 | 115 | 2 | 0.23 | 0.23 | ppb | 5905 | 2.25 | 550 | |
| Ni | 60 | 115 | 2 | 0.52 | 0.52 | ppb | 4233 | 2.67 | 550 | |
| Cu | 65 | 115 | 2 | -0.21 | -0.21 | ppb | 3815 | 5.75 | 550 | |
| Zn | 66 | 115 | 2 | 6.46 | 6.46 | ppb | 19537 | 2.22 | 550 | |
| As | 75 | 115 | 2 | 0.69 | 0.69 | ppb | 1101 | 0.38 | 550 | |
| Se | 78 | 115 | 2 | 0.06 | 0.06 | ppb | 53 | 19.88 | 2750 | |
| Mo | 95 | 115 | 1 | 0.37 | 0.37 | ppb | 7341 | 0.48 | 550 | |
| Ag | 107 | 115 | 1 | 0.17 | 0.17 | ppb | 11603 | 9.79 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 117 | 17.84 | 550 | |
| Sb | 121 | 115 | 1 | -0.11 | -0.11 | ppb | 2565 | 2.88 | 550 | |
| Ba | 137 | 159 | 1 | 32.52 | 32.52 | ppb | 533969 | 0.93 | 550 | |
| Tl | 205 | 165 | 1 | 0.04 | 0.04 | ppb | 7152 | 8.93 | 550 | |
| Pb | 208 | 165 | 1 | 0.07 | 0.07 | ppb | 8834 | 2.13 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1847273 | 1.39 | 1698298 | 108.8 | 70 | 130 | |
| Sc | 45 | 2 | 86616 | 0.35 | 78845 | 109.9 | 70 | 130 | |
| In | 115 | 1 | 3217622 | 0.96 | 3231342 | 99.6 | 70 | 130 | |
| In | 115 | 2 | 743397 | 0.80 | 739504 | 100.5 | 70 | 130 | |
| Tb | 159 | 1 | 4774386 | 0.98 | 4783524 | 99.8 | 70 | 130 | |
| Tb | 159 | 2 | 2686382 | 0.82 | 2661694 | 100.9 | 70 | 130 | |
| Ho | 165 | 1 | 4708884 | 0.41 | 4675933 | 100.7 | 70 | 130 | |
| Ho | 165 | 2 | 2718411 | 0.37 | 2700827 | 100.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-049 MS 1** |
| **Data File Name** | **026SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T12:46:08-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2206** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 182.17 | 182.17 | ppb | 1023627 | 0.78 | 550 | |
| Na | 23 | 115 | 2 | 1481299.94 | 1481299.94 | ppb | 1765392205 | 0.73 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 171440.77 | 171440.77 | ppb | 98201247 | 1.21 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 12185.00 | 12185.00 | ppb | 2424735 | 0.75 | 16500 | |
| K | 39 | 115 | 2 | 66556.67 | 66556.67 | ppb | 35039788 | 0.80 | 55000 | >LDR |
| Ca | 44 | 115 | 2 | 139352.95 | 139352.95 | ppb | 4156188 | 0.44 | 55000 | >LDR |
| V | 51 | 115 | 2 | 245.74 | 245.74 | ppb | 2070815 | 0.95 | 550 | |
| Cr | 52 | 115 | 2 | 234.24 | 234.24 | ppb | 2517041 | 0.48 | 550 | |
| Mn | 55 | 115 | 2 | 1477.41 | 1477.41 | ppb | 8525726 | 1.87 | 550 | >LDR |
| Fe | 56 | 115 | 2 | 19322.85 | 19322.85 | ppb | 169028823 | 0.47 | 55000 | |
| Co | 59 | 115 | 2 | 211.10 | 211.10 | ppb | 4024106 | 0.63 | 550 | |
| Ni | 60 | 115 | 2 | 219.16 | 219.16 | ppb | 1122619 | 0.95 | 550 | |
| Cu | 65 | 115 | 2 | 206.14 | 206.14 | ppb | 1492196 | 0.09 | 550 | |
| Zn | 66 | 115 | 2 | 235.75 | 235.75 | ppb | 500299 | 0.45 | 550 | |
| As | 75 | 115 | 2 | 228.21 | 228.21 | ppb | 300277 | 0.77 | 550 | |
| Se | 78 | 115 | 2 | 210.66 | 210.66 | ppb | 17990 | 1.03 | 2750 | |
| Mo | 95 | 115 | 1 | 213.73 | 213.73 | ppb | 3566622 | 0.30 | 550 | |
| Ag | 107 | 115 | 1 | 39.07 | 39.07 | ppb | 1816825 | 1.01 | 550 | |
| Cd | 111 | 115 | 1 | 199.81 | 199.81 | ppb | 1865313 | 1.02 | 550 | |
| Sb | 121 | 115 | 1 | 199.32 | 199.32 | ppb | 7724667 | 0.68 | 550 | |
| Ba | 137 | 159 | 1 | 349.53 | 349.53 | ppb | 5203945 | 0.55 | 550 | |
| Tl | 205 | 165 | 1 | 193.13 | 193.13 | ppb | 19789333 | 0.13 | 550 | |
| Pb | 208 | 165 | 1 | 195.53 | 195.53 | ppb | 14222592 | 1.27 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1871711 | 0.19 | 1696298 | 110.2 | 70 | 130 | |
| Sc | 45 | 2 | 82549 | 1.19 | 78845 | 104.7 | 70 | 130 | |
| In | 115 | 1 | 2811793 | 0.82 | 3231342 | 87.0 | 70 | 130 | |
| In | 115 | 2 | 627378 | 1.10 | 739504 | 84.8 | 70 | 130 | |
| Tb | 159 | 1 | 4336032 | 0.36 | 4783524 | 90.6 | 70 | 130 | |
| Tb | 159 | 2 | 2302754 | 0.74 | 2661694 | 86.5 | 70 | 130 | |
| Ho | 165 | 1 | 4272912 | 0.48 | 4675933 | 91.4 | 70 | 130 | |
| Ho | 165 | 2 | 2336968 | 1.14 | 2700827 | 86.5 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-050 MS 2** |
| **Data File Name** | **027SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T12:50:19-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2207** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 169.98 | 169.98 | ppb | 1011569 | 1.33 | 550 | |
| Na | 23 | 115 | 2 | 1452600.77 | 1452600.77 | ppb | 1749967281 | 0.68 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 172414.55 | 172414.55 | ppb | 99838323 | 0.89 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 16849.56 | 16849.56 | ppb | 3389838 | 1.76 | 16500 | >LDR |
| K | 39 | 115 | 2 | 64201.73 | 64201.73 | ppb | 34169672 | 0.50 | 55000 | >LDR |
| Ca | 44 | 115 | 2 | 148542.41 | 148542.41 | ppb | 4478833 | 0.83 | 55000 | >LDR |
| V | 51 | 115 | 2 | 252.32 | 252.32 | ppb | 2149806 | 1.69 | 550 | |
| Cr | 52 | 115 | 2 | 240.08 | 240.08 | ppb | 2608021 | 0.60 | 550 | |
| Mn | 55 | 115 | 2 | 1567.02 | 1567.02 | ppb | 9141081 | 0.49 | 550 | >LDR |
| Fe | 56 | 115 | 2 | 24342.66 | 24342.66 | ppb | 215251952 | 0.41 | 55000 | |
| Co | 59 | 115 | 2 | 209.71 | 209.71 | ppb | 4041311 | 0.23 | 550 | |
| Ni | 60 | 115 | 2 | 221.84 | 221.84 | ppb | 1148716 | 0.41 | 550 | |
| Cu | 65 | 115 | 2 | 208.95 | 208.95 | ppb | 1529068 | 0.78 | 550 | |
| Zn | 66 | 115 | 2 | 244.86 | 244.86 | ppb | 525213 | 0.46 | 550 | |
| As | 75 | 115 | 2 | 224.85 | 224.85 | ppb | 299079 | 0.22 | 550 | |
| Se | 78 | 115 | 2 | 209.15 | 209.15 | ppb | 18056 | 0.41 | 2750 | |
| Mo | 95 | 115 | 1 | 212.45 | 212.45 | ppb | 3532538 | 0.42 | 550 | |
| Ag | 107 | 115 | 1 | 38.66 | 38.66 | ppb | 1791410 | 1.14 | 550 | |
| Cd | 111 | 115 | 1 | 197.31 | 197.31 | ppb | 1835331 | 0.25 | 550 | |
| Sb | 121 | 115 | 1 | 192.77 | 192.77 | ppb | 7444492 | 0.95 | 550 | |
| Ba | 137 | 159 | 1 | 349.72 | 349.72 | ppb | 5189404 | 0.45 | 550 | |
| Tl | 205 | 165 | 1 | 190.58 | 190.58 | ppb | 19637062 | 0.94 | 550 | |
| Pb | 208 | 165 | 1 | 195.91 | 195.91 | ppb | 14329246 | 0.38 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1982257 | 0.34 | 1698298 | 116.7 | 70 | 130 | |
| Sc | 45 | 2 | 86455 | 1.01 | 78845 | 109.7 | 70 | 130 | |
| In | 115 | 1 | 2801717 | 0.30 | 3231342 | 86.7 | 70 | 130 | |
| In | 115 | 2 | 634233 | 0.97 | 739504 | 85.8 | 70 | 130 | |
| Tb | 159 | 1 | 4321576 | 0.45 | 4783524 | 90.3 | 70 | 130 | |
| Tb | 159 | 2 | 2330246 | 1.22 | 2661694 | 87.5 | 70 | 130 | |
| Ho | 165 | 1 | 4297001 | 0.86 | 4675933 | 91.9 | 70 | 130 | |
| Ho | 165 | 2 | 2357553 | 0.89 | 2700827 | 87.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-048 PS** |
| **Data File Name** | **028SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T12:54:32-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2208** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 49.12 | 49.12 | ppb | 234998 | 0.15 | 550 | |
| Na | 23 | 115 | 2 | 1506795.85 | 1506795.85 | ppb | 1742626516 | 0.87 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 146300.13 | 146300.13 | ppb | 81319855 | 0.91 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 1755.81 | 1755.81 | ppb | 339171 | 1.54 | 16500 | |
| K | 39 | 115 | 2 | 54102.62 | 54102.62 | ppb | 27644539 | 1.28 | 55000 | |
| Ca | 44 | 115 | 2 | 98299.37 | 98299.37 | ppb | 2845126 | 0.89 | 55000 | >LDR |
| V | 51 | 115 | 2 | 55.71 | 55.71 | ppb | 455759 | 0.84 | 550 | |
| Cr | 52 | 115 | 2 | 54.73 | 54.73 | ppb | 571697 | 0.51 | 550 | |
| Mn | 55 | 115 | 2 | 1203.67 | 1203.67 | ppb | 6740468 | 0.60 | 550 | >LDR |
| Fe | 56 | 115 | 2 | 18466.93 | 18466.93 | ppb | 156766729 | 0.85 | 55000 | |
| Co | 59 | 115 | 2 | 50.75 | 50.75 | ppb | 939309 | 0.45 | 550 | |
| Ni | 60 | 115 | 2 | 50.17 | 50.17 | ppb | 250022 | 0.40 | 550 | |
| Cu | 65 | 115 | 2 | 47.64 | 47.64 | ppb | 338151 | 0.74 | 550 | |
| Zn | 66 | 115 | 2 | 64.15 | 64.15 | ppb | 134144 | 1.70 | 550 | |
| As | 75 | 115 | 2 | 55.66 | 55.66 | ppb | 71089 | 0.51 | 550 | |
| Se | 78 | 115 | 2 | 253.32 | 253.32 | ppb | 20986 | 0.92 | 2750 | |
| Mo | 95 | 115 | 1 | 53.85 | 53.85 | ppb | 867771 | 1.14 | 550 | |
| Ag | 107 | 115 | 1 | 50.90 | 50.90 | ppb | 2284782 | 1.62 | 550 | |
| Cd | 111 | 115 | 1 | 47.27 | 47.27 | ppb | 426075 | 0.67 | 550 | |
| Sb | 121 | 115 | 1 | 51.68 | 51.68 | ppb | 1938767 | 0.14 | 550 | |
| Ba | 137 | 159 | 1 | 201.40 | 201.40 | ppb | 2932268 | 0.33 | 550 | |
| Tl | 205 | 165 | 1 | 46.50 | 46.50 | ppb | 4718801 | 0.12 | 550 | |
| Pb | 208 | 185 | 1 | 46.64 | 46.64 | ppb | 3360374 | 1.12 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1592519 | 0.29 | 1696298 | 93.8 | 70 | 130 | |
| Sc | 45 | 2 | 72341 | 2.16 | 78845 | 91.8 | 70 | 130 | |
| In | 115 | 1 | 2714915 | 0.21 | 3231342 | 84.0 | 70 | 130 | |
| In | 115 | 2 | 608794 | 0.81 | 739504 | 82.3 | 70 | 130 | |
| Tb | 159 | 1 | 4239740 | 0.39 | 4783524 | 88.6 | 70 | 130 | |
| Tb | 159 | 2 | 2279424 | 0.86 | 2661694 | 85.6 | 70 | 130 | |
| Ho | 165 | 1 | 4229984 | 0.51 | 4675933 | 90.5 | 70 | 130 | |
| Ho | 165 | 2 | 2303282 | 1.37 | 2700627 | 85.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **029SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T12:58:56-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.05 | 0.05 | ppb | 506 | 17.21 | 550 | |
| Na | 23 | 115 | 2 | 293.22 | 293.22 | ppb | 539358 | 0.67 | 55000 | |
| Mg | 24 | 115 | 2 | 4.29 | 4.29 | ppb | 5571 | 2.18 | 55000 | |
| Al | 27 | 115 | 2 | 1.21 | 1.21 | ppb | 464 | 15.46 | 16500 | |
| K | 39 | 115 | 2 | 40.33 | 40.33 | ppb | 53498 | 0.64 | 55000 | |
| Ca | 44 | 115 | 2 | 2.76 | 2.76 | ppb | 374 | 6.06 | 55000 | |
| V | 51 | 115 | 2 | -0.01 | -0.01 | ppb | 218 | 2.34 | 550 | |
| Cr | 52 | 115 | 2 | -0.03 | -0.03 | ppb | 1265 | 2.38 | 550 | |
| Mn | 55 | 115 | 2 | 0.03 | 0.03 | ppb | 1885 | 7.35 | 550 | |
| Fe | 56 | 115 | 2 | 4.30 | 4.30 | ppb | 115079 | 0.85 | 55000 | |
| Co | 59 | 115 | 2 | 0.00 | 0.00 | ppb | 727 | 3.31 | 550 | |
| Ni | 60 | 115 | 2 | -0.07 | -0.07 | ppb | 680 | 8.71 | 550 | |
| Cu | 65 | 115 | 2 | -0.52 | -0.52 | ppb | 1232 | 10.62 | 550 | |
| Zn | 66 | 115 | 2 | 0.32 | 0.32 | ppb | 4479 | 3.46 | 550 | |
| As | 75 | 115 | 2 | 0.02 | 0.02 | ppb | 55 | 37.51 | 550 | |
| Se | 78 | 115 | 2 | -0.08 | -0.08 | ppb | 42 | 27.86 | 2750 | |
| Mo | 95 | 115 | 1 | 0.07 | 0.07 | ppb | 1679 | 7.00 | 550 | |
| Ag | 107 | 115 | 1 | 0.43 | 0.43 | ppb | 27007 | 9.75 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 145 | 8.96 | 550 | |
| Sb | 121 | 115 | 1 | -0.10 | -0.10 | ppb | 3593 | 1.02 | 550 | |
| Ba | 137 | 159 | 1 | -0.02 | -0.02 | ppb | 611 | 5.78 | 550 | |
| Tl | 205 | 165 | 1 | 0.29 | 0.29 | ppb | 36330 | 9.24 | 550 | |
| Pb | 208 | 165 | 1 | 0.01 | 0.01 | ppb | 3657 | 3.12 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1822393 | 0.99 | 1698298 | 107.3 | 70 | 130 | |
| Sc | 45 | 2 | 86625 | 1.68 | 78845 | 109.9 | 70 | 130 | |
| In | 115 | 1 | 3396819 | 1.48 | 3231342 | 105.1 | 70 | 130 | |
| In | 115 | 2 | 793339 | 0.67 | 739504 | 107.3 | 70 | 130 | |
| Tb | 159 | 1 | 4942891 | 0.68 | 4783524 | 103.3 | 70 | 130 | |
| Tb | 159 | 2 | 2777251 | 1.03 | 2661694 | 104.3 | 70 | 130 | |
| Ho | 165 | 1 | 4820059 | 0.45 | 4675933 | 103.1 | 70 | 130 | |
| Ho | 165 | 2 | 2837273 | 0.96 | 2700827 | 105.1 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Verification (CCV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCV V-357844** |
| **Data File Name** | **0306CCV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T13:03:27-04:00** |
| **Type** | **6-CCV** |
| **VialNumber** | **1201** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 50.07 | ppb | 50 | 265934 | 1.14 | 100.14 | 90 | 110 | |
| Na | 23 | 115 | 2 | 5226.48 | ppb | 5000 | 7588011 | 0.52 | 104.53 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 5067.73 | ppb | 5000 | 3495306 | 0.26 | 101.35 | 90 | 110 | |
| Al | 27 | 115 | 2 | 1500.75 | ppb | 1500 | 359511 | 0.57 | 100.05 | 90 | 110 | |
| K | 39 | 115 | 2 | 5056.14 | ppb | 5000 | 3226609 | 0.46 | 101.12 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 4989.61 | ppb | 5000 | 179329 | 0.78 | 99.79 | 90 | 110 | |
| V | 51 | 115 | 2 | 49.59 | ppb | 50 | 503103 | 0.90 | 99.18 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 49.46 | ppb | 50 | 640873 | 0.37 | 98.92 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 49.87 | ppb | 50 | 347816 | 0.45 | 99.73 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 5038.16 | ppb | 5000 | 53083035 | 0.40 | 100.76 | 90 | 110 | |
| Co | 59 | 115 | 2 | 49.56 | ppb | 50 | 1137348 | 0.75 | 99.11 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 49.66 | ppb | 50 | 306930 | 0.39 | 99.32 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 49.33 | ppb | 50 | 433988 | 0.73 | 98.65 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 49.62 | ppb | 50 | 129432 | 0.92 | 99.24 | 90 | 110 | |
| As | 75 | 115 | 2 | 49.78 | ppb | 50 | 78845 | 1.11 | 99.57 | 90 | 110 | |
| Se | 78 | 115 | 2 | 250.85 | ppb | 250 | 25770 | 1.87 | 100.34 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 48.97 | ppb | 50 | 959016 | 1.39 | 97.94 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 51.05 | ppb | 50 | 2784411 | 1.99 | 102.09 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 49.90 | ppb | 50 | 546610 | 1.63 | 99.80 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 50.62 | ppb | 50 | 2307835 | 1.93 | 101.24 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 49.31 | ppb | 50 | 837468 | 1.47 | 98.61 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 50.06 | ppb | 50 | 5785095 | 1.37 | 100.12 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 50.55 | ppb | 50 | 4147499 | 1.31 | 101.10 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1768167 | 1.31 | 1698298 | 104.1 | 70 | 130 | |
| Sc | 45 | 2 | 79476 | 0.43 | 78845 | 100.8 | 70 | 130 | |
| In | 115 | 1 | 3299127 | 0.87 | 3231342 | 102.1 | 70 | 130 | |
| In | 115 | 2 | 754941 | 0.37 | 739504 | 102.1 | 70 | 130 | |
| Tb | 159 | 1 | 4941658 | 0.72 | 4783524 | 103.3 | 70 | 130 | |
| Tb | 159 | 2 | 2735295 | 0.75 | 2661694 | 102.8 | 70 | 130 | |
| Ho | 165 | 1 | 4817144 | 0.74 | 4675933 | 103.0 | 70 | 130 | |
| Ho | 165 | 2 | 2768495 | 1.37 | 2700827 | 102.5 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Blank (CCB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCB V-357841** |
| **Data File Name** | **0316CCB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T13:07:46-04:00** |
| **Type** | **6-CCB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.02 | ppb | 0.5 | |
| Na | 23 | 115 | 2 | 152.05 | ppb | 250 | |
| Mg | 24 | 115 | 2 | 1.05 | ppb | 250 | |
| Al | 27 | 115 | 2 | 0.20 | ppb | 100 | |
| K | 39 | 115 | 2 | 19.83 | ppb | 250 | |
| Ca | 44 | 115 | 2 | -1.91 | ppb | 250 | |
| V | 51 | 115 | 2 | 0.01 | ppb | 1 | |
| Cr | 52 | 115 | 2 | -0.02 | ppb | 1 | |
| Mn | 55 | 115 | 2 | -0.04 | ppb | 3 | |
| Fe | 56 | 115 | 2 | 2.22 | ppb | 150 | |
| Co | 59 | 115 | 2 | -0.01 | ppb | 1 | |
| Ni | 60 | 115 | 2 | -0.07 | ppb | 1.5 | |
| Cu | 65 | 115 | 2 | -0.31 | ppb | 5 | |
| Zn | 66 | 115 | 2 | -0.21 | ppb | 10 | |
| As | 75 | 115 | 2 | 0.01 | ppb | 1 | |
| Se | 78 | 115 | 2 | 0.15 | ppb | 5 | |
| Mo | 95 | 115 | 1 | 0.06 | ppb | 1 | |
| Ag | 107 | 115 | 1 | 0.08 | ppb | 0.5 | |
| Cd | 111 | 115 | 1 | 0.00 | ppb | 1 | |
| Sb | 121 | 115 | 1 | -0.10 | ppb | 1.5 | |
| Ba | 137 | 159 | 1 | -0.02 | ppb | 2.5 | |
| Tl | 205 | 165 | 1 | 0.14 | ppb | 1 | |
| Pb | 208 | 165 | 1 | 0.00 | ppb | 1.5 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1720163 | 0.87 | 1698298 | 101.3 | 70 | 130 | |
| Sc | 45 | 2 | 79247 | 0.61 | 78845 | 100.5 | 70 | 130 | |
| In | 115 | 1 | 3247063 | 0.36 | 3231342 | 100.5 | 70 | 130 | |
| In | 115 | 2 | 749649 | 0.64 | 739504 | 101.4 | 70 | 130 | |
| Tb | 159 | 1 | 4820524 | 0.58 | 4783524 | 100.8 | 70 | 130 | |
| Tb | 159 | 2 | 2720633 | 0.30 | 2661694 | 102.2 | 70 | 130 | |
| Ho | 165 | 1 | 4762628 | 0.88 | 4675933 | 101.9 | 70 | 130 | |
| Ho | 165 | 2 | 2742036 | 0.46 | 2700827 | 101.5 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-001** |
| **Data File Name** | **032SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T13:12:17-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2210** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | 0.01 | ppb | 270 | 14.24 | 550 | |
| Na | 23 | 115 | 2 | 5850.39 | 5850.39 | ppb | 7899096 | 0.51 | 55000 | |
| Mg | 24 | 115 | 2 | 781.04 | 781.04 | ppb | 503499 | 0.89 | 55000 | |
| Al | 27 | 115 | 2 | 72.39 | 72.39 | ppb | 16287 | 15.14 | 16500 | |
| K | 39 | 115 | 2 | 803.51 | 803.51 | ppb | 497379 | 0.98 | 55000 | |
| Ca | 44 | 115 | 2 | 5014.68 | 5014.68 | ppb | 167832 | 0.74 | 55000 | |
| V | 51 | 115 | 2 | 0.32 | 0.32 | ppb | 3313 | 5.21 | 550 | |
| Cr | 52 | 115 | 2 | 0.53 | 0.53 | ppb | 7880 | 3.56 | 550 | |
| Mn | 55 | 115 | 2 | 18.25 | 18.25 | ppb | 119455 | 0.42 | 550 | |
| Fe | 56 | 115 | 2 | 486.29 | 486.29 | ppb | 4825434 | 1.17 | 55000 | |
| Co | 59 | 115 | 2 | 0.06 | 0.06 | ppb | 1678 | 8.21 | 550 | |
| Ni | 60 | 115 | 2 | 0.33 | 0.33 | ppb | 2880 | 6.54 | 550 | |
| Cu | 65 | 115 | 2 | 1.81 | 1.81 | ppb | 19881 | 3.19 | 550 | |
| Zn | 66 | 115 | 2 | 13.40 | 13.40 | ppb | 34888 | 0.85 | 550 | |
| As | 75 | 115 | 2 | 0.39 | 0.39 | ppb | 596 | 3.31 | 550 | |
| Se | 78 | 115 | 2 | 0.09 | 0.09 | ppb | 53 | 36.11 | 2750 | |
| Mo | 95 | 115 | 1 | 0.12 | 0.12 | ppb | 2499 | 2.01 | 550 | |
| Ag | 107 | 115 | 1 | 0.71 | 0.71 | ppb | 39807 | 10.94 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 126 | 3.19 | 550 | |
| Sb | 121 | 115 | 1 | 0.05 | 0.05 | ppb | 9867 | 2.40 | 550 | |
| Ba | 137 | 159 | 1 | 7.29 | 7.29 | ppb | 122320 | 0.96 | 550 | |
| Tl | 205 | 165 | 1 | 0.04 | 0.04 | ppb | 8049 | 7.66 | 550 | |
| Pb | 208 | 165 | 1 | 0.27 | 0.27 | ppb | 24947 | 0.78 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1625618 | 0.89 | 1698298 | 95.7 | 70 | 130 | |
| Sc | 45 | 2 | 72688 | 1.56 | 78845 | 92.2 | 70 | 130 | |
| In | 115 | 1 | 3174822 | 0.18 | 3231342 | 98.3 | 70 | 130 | |
| In | 115 | 2 | 703028 | 1.03 | 739504 | 95.1 | 70 | 130 | |
| Tb | 159 | 1 | 4849635 | 0.51 | 4783524 | 101.4 | 70 | 130 | |
| Tb | 159 | 2 | 2629078 | 0.60 | 2661694 | 98.8 | 70 | 130 | |
| Ho | 165 | 1 | 4768906 | 0.57 | 4675933 | 102.0 | 70 | 130 | |
| Ho | 165 | 2 | 2698494 | 0.80 | 2700827 | 99.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-002** |
| **Data File Name** | **033SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T13:16:47-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2211** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | 0.01 | ppb | 283 | 10.19 | 550 | |
| Na | 23 | 115 | 2 | 430575.51 | 430575.51 | ppb | 524266819 | 0.45 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 38423.76 | 38423.76 | ppb | 22484554 | 0.41 | 55000 | |
| Al | 27 | 115 | 2 | 208.89 | 208.89 | ppb | 42589 | 2.44 | 16500 | |
| K | 39 | 115 | 2 | 2289.57 | 2289.57 | ppb | 1252151 | 0.70 | 55000 | |
| Ca | 44 | 115 | 2 | 99897.56 | 99897.56 | ppb | 3043730 | 0.23 | 55000 | >LDR |
| V | 51 | 115 | 2 | 1.54 | 1.54 | ppb | 13461 | 3.19 | 550 | |
| Cr | 52 | 115 | 2 | 1.15 | 1.15 | ppb | 14051 | 1.51 | 550 | |
| Mn | 55 | 115 | 2 | 2627.22 | 2627.22 | ppb | 15486342 | 0.86 | 550 | >LDR |
| Fe | 56 | 115 | 2 | 483.26 | 483.26 | ppb | 4371536 | 4.56 | 55000 | |
| Co | 59 | 115 | 2 | 6.47 | 6.47 | ppb | 126519 | 0.56 | 550 | |
| Ni | 60 | 115 | 2 | 33.81 | 33.81 | ppb | 177704 | 0.59 | 550 | |
| Cu | 65 | 115 | 2 | 3.63 | 3.63 | ppb | 31549 | 1.10 | 550 | |
| Zn | 66 | 115 | 2 | 17.47 | 17.47 | ppb | 40582 | 1.44 | 550 | |
| As | 75 | 115 | 2 | 0.77 | 0.77 | ppb | 1057 | 3.11 | 550 | |
| Se | 78 | 115 | 2 | 0.24 | 0.24 | ppb | 61 | 11.63 | 2750 | |
| Mo | 95 | 115 | 1 | 1.84 | 1.84 | ppb | 32137 | 1.61 | 550 | |
| Ag | 107 | 115 | 1 | 0.67 | 0.67 | ppb | 35097 | 8.02 | 550 | |
| Cd | 111 | 115 | 1 | 0.11 | 0.11 | ppb | 1124 | 3.32 | 550 | |
| Sb | 121 | 115 | 1 | -0.01 | -0.01 | ppb | 6488 | 0.93 | 550 | |
| Ba | 137 | 159 | 1 | 136.45 | 136.45 | ppb | 2164353 | 0.35 | 550 | |
| Tl | 205 | 165 | 1 | 0.02 | 0.02 | ppb | 5243 | 6.26 | 550 | |
| Pb | 208 | 165 | 1 | 0.37 | 0.37 | ppb | 31219 | 1.70 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1644878 | 0.39 | 1698298 | 96.9 | 70 | 130 | |
| Sc | 45 | 2 | 72167 | 0.74 | 78845 | 91.5 | 70 | 130 | |
| In | 115 | 1 | 2923610 | 0.41 | 3231342 | 90.5 | 70 | 130 | |
| In | 115 | 2 | 640877 | 0.25 | 739504 | 86.7 | 70 | 130 | |
| Tb | 159 | 1 | 4618451 | 0.54 | 4783524 | 96.5 | 70 | 130 | |
| Tb | 159 | 2 | 2505146 | 1.07 | 2661694 | 94.1 | 70 | 130 | |
| Ho | 165 | 1 | 4536235 | 0.77 | 4675933 | 97.1 | 70 | 130 | |
| Ho | 165 | 2 | 2533080 | 1.12 | 2700827 | 93.8 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-005** |
| **Data File Name** | **034SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T13:21:11-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2212** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | 0.01 | ppb | 293 | 10.84 | 550 | |
| Na | 23 | 115 | 2 | 236.55 | 236.55 | ppb | 406678 | 0.28 | 55000 | |
| Mg | 24 | 115 | 2 | 15.21 | 15.21 | ppb | 12081 | 0.69 | 55000 | |
| Al | 27 | 115 | 2 | 15.00 | 15.00 | ppb | 3524 | 2.51 | 16500 | |
| K | 39 | 115 | 2 | 31.47 | 31.47 | ppb | 42639 | 1.28 | 55000 | |
| Ca | 44 | 115 | 2 | 81.69 | 81.69 | ppb | 3003 | 2.45 | 55000 | |
| V | 51 | 115 | 2 | 0.20 | 0.20 | ppb | 2120 | 1.25 | 550 | |
| Cr | 52 | 115 | 2 | 0.24 | 0.24 | ppb | 4466 | 3.60 | 550 | |
| Mn | 55 | 115 | 2 | 3.94 | 3.94 | ppb | 27278 | 0.31 | 550 | |
| Fe | 56 | 115 | 2 | 15.05 | 15.05 | ppb | 209632 | 0.58 | 55000 | |
| Co | 59 | 115 | 2 | 0.01 | 0.01 | ppb | 958 | 8.07 | 550 | |
| Ni | 60 | 115 | 2 | 0.31 | 0.31 | ppb | 2829 | 4.26 | 550 | |
| Cu | 65 | 115 | 2 | 2.00 | 2.00 | ppb | 21696 | 0.76 | 550 | |
| Zn | 66 | 115 | 2 | 7.85 | 7.85 | ppb | 21995 | 0.90 | 550 | |
| As | 75 | 115 | 2 | 0.05 | 0.05 | ppb | 103 | 21.01 | 550 | |
| Se | 78 | 115 | 2 | 0.11 | 0.11 | ppb | 56 | 18.00 | 2750 | |
| Mo | 95 | 115 | 1 | 0.02 | 0.02 | ppb | 619 | 9.11 | 550 | |
| Ag | 107 | 115 | 1 | 0.61 | 0.61 | ppb | 35314 | 10.63 | 550 | |
| Cd | 111 | 115 | 1 | 0.02 | 0.02 | ppb | 254 | 3.67 | 550 | |
| Sb | 121 | 115 | 1 | -0.10 | -0.10 | ppb | 3164 | 7.37 | 550 | |
| Ba | 137 | 159 | 1 | 0.32 | 0.32 | ppb | 6410 | 2.31 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 4674 | 10.29 | 550 | |
| Pb | 208 | 165 | 1 | 0.34 | 0.34 | ppb | 31210 | 0.71 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1646918 | 0.91 | 1698298 | 97.0 | 70 | 130 | |
| Sc | 45 | 2 | 73569 | 0.82 | 78845 | 93.3 | 70 | 130 | |
| In | 115 | 1 | 3249430 | 0.60 | 3231342 | 100.6 | 70 | 130 | |
| In | 115 | 2 | 710701 | 0.57 | 739504 | 96.1 | 70 | 130 | |
| Tb | 159 | 1 | 4933808 | 0.35 | 4783524 | 103.1 | 70 | 130 | |
| Tb | 159 | 2 | 2675302 | 0.46 | 2661694 | 100.5 | 70 | 130 | |
| Ho | 165 | 1 | 4862919 | 0.61 | 4675933 | 104.0 | 70 | 130 | |
| Ho | 165 | 2 | 2712357 | 1.10 | 2700827 | 100.4 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-008** |
| **Data File Name** | **035SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T13:25:43-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2301** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | 0.01 | ppb | 268 | 13.66 | 550 | |
| Na | 23 | 115 | 2 | 20449.13 | 20449.13 | ppb | 26496040 | 0.54 | 55000 | |
| Mg | 24 | 115 | 2 | 29271.75 | 29271.75 | ppb | 18173456 | 0.51 | 55000 | |
| Al | 27 | 115 | 2 | 71.24 | 71.24 | ppb | 15502 | 6.98 | 16500 | |
| K | 39 | 115 | 2 | 3654.69 | 3654.69 | ppb | 2106921 | 0.29 | 55000 | |
| Ca | 44 | 115 | 2 | 67142.94 | 67142.94 | ppb | 2170510 | 1.09 | 55000 | >LDR |
| V | 51 | 115 | 2 | 0.49 | 0.49 | ppb | 4683 | 4.63 | 550 | |
| Cr | 52 | 115 | 2 | 0.42 | 0.42 | ppb | 6411 | 3.66 | 550 | |
| Mn | 55 | 115 | 2 | 210.85 | 210.85 | ppb | 1319945 | 0.59 | 550 | |
| Fe | 56 | 115 | 2 | 856.77 | 856.77 | ppb | 8178239 | 0.37 | 55000 | |
| Co | 59 | 115 | 2 | 0.23 | 0.23 | ppb | 5417 | 2.11 | 550 | |
| Ni | 60 | 115 | 2 | 1.05 | 1.05 | ppb | 6778 | 1.07 | 550 | |
| Cu | 65 | 115 | 2 | 0.84 | 0.84 | ppb | 11659 | 1.43 | 550 | |
| Zn | 66 | 115 | 2 | 13.66 | 13.66 | ppb | 34341 | 1.57 | 550 | |
| As | 75 | 115 | 2 | 0.35 | 0.35 | ppb | 516 | 5.01 | 550 | |
| Se | 78 | 115 | 2 | -0.05 | -0.05 | ppb | 39 | 13.01 | 2750 | |
| Mo | 95 | 115 | 1 | 0.09 | 0.09 | ppb | 1926 | 2.95 | 550 | |
| Ag | 107 | 115 | 1 | 0.69 | 0.69 | ppb | 38219 | 8.21 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 91 | 18.87 | 550 | |
| Sb | 121 | 115 | 1 | -0.11 | -0.11 | ppb | 2738 | 8.40 | 550 | |
| Ba | 137 | 159 | 1 | 56.59 | 56.59 | ppb | 952406 | 1.47 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 3586 | 12.75 | 550 | |
| Pb | 208 | 165 | 1 | 0.16 | 0.16 | ppb | 16554 | 1.65 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1690254 | 0.82 | 1698298 | 99.5 | 70 | 130 | |
| Sc | 45 | 2 | 73653 | 0.78 | 78845 | 93.4 | 70 | 130 | |
| In | 115 | 1 | 3123538 | 0.85 | 3231342 | 96.7 | 70 | 130 | |
| In | 115 | 2 | 679942 | 0.22 | 739504 | 91.9 | 70 | 130 | |
| Tb | 159 | 1 | 4897820 | 0.81 | 4783524 | 102.4 | 70 | 130 | |
| Tb | 159 | 2 | 2628477 | 1.43 | 2661694 | 98.6 | 70 | 130 | |
| Ho | 165 | 1 | 4831633 | 1.03 | 4675933 | 103.3 | 70 | 130 | |
| Ho | 165 | 2 | 2680358 | 1.39 | 2700827 | 99.2 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-009** |
| **Data File Name** | **036SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T13:30:05-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2302** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.00 | 0.00 | ppb | 212 | 27.04 | 550 | |
| Na | 23 | 115 | 2 | 19230.22 | 19230.22 | ppb | 25015615 | 0.18 | 55000 | |
| Mg | 24 | 115 | 2 | 26342.91 | 26342.91 | ppb | 16417856 | 0.51 | 55000 | |
| Al | 27 | 115 | 2 | 58.60 | 58.60 | ppb | 12832 | 22.19 | 16500 | |
| K | 39 | 115 | 2 | 3287.01 | 3287.01 | ppb | 1904365 | 0.76 | 55000 | |
| Ca | 44 | 115 | 2 | 59502.10 | 59502.10 | ppb | 1930691 | 0.78 | 55000 | >LDR |
| V | 51 | 115 | 2 | 0.46 | 0.46 | ppb | 4415 | 3.20 | 550 | |
| Cr | 52 | 115 | 2 | 0.31 | 0.31 | ppb | 5103 | 17.54 | 550 | |
| Mn | 55 | 115 | 2 | 182.52 | 182.52 | ppb | 1147155 | 0.69 | 550 | |
| Fe | 56 | 115 | 2 | 735.73 | 735.73 | ppb | 7058058 | 0.76 | 55000 | |
| Co | 59 | 115 | 2 | 0.20 | 0.20 | ppb | 4720 | 2.29 | 550 | |
| Ni | 60 | 115 | 2 | 0.85 | 0.85 | ppb | 5707 | 3.16 | 550 | |
| Cu | 65 | 115 | 2 | 0.53 | 0.53 | ppb | 9270 | 4.16 | 550 | |
| Zn | 66 | 115 | 2 | 10.79 | 10.79 | ppb | 27887 | 1.20 | 550 | |
| As | 75 | 115 | 2 | 0.26 | 0.26 | ppb | 392 | 6.77 | 550 | |
| Se | 78 | 115 | 2 | 0.07 | 0.07 | ppb | 50 | 27.76 | 2750 | |
| Mo | 95 | 115 | 1 | 0.08 | 0.08 | ppb | 1721 | 5.89 | 550 | |
| Ag | 107 | 115 | 1 | 0.58 | 0.58 | ppb | 32819 | 7.81 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 58 | 26.72 | 550 | |
| Sb | 121 | 115 | 1 | -0.10 | -0.10 | ppb | 2993 | 5.03 | 550 | |
| Ba | 137 | 159 | 1 | 50.45 | 50.45 | ppb | 853599 | 1.03 | 550 | |
| Tl | 205 | 165 | 1 | 0.00 | 0.00 | ppb | 3056 | 9.51 | 550 | |
| Pb | 208 | 165 | 1 | 0.11 | 0.11 | ppb | 12253 | 1.08 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1700144 | 0.62 | 1696298 | 100.1 | 70 | 130 | |
| Sc | 45 | 2 | 73845 | 1.17 | 78845 | 93.7 | 70 | 130 | |
| In | 115 | 1 | 3160008 | 0.76 | 3231342 | 97.8 | 70 | 130 | |
| In | 115 | 2 | 682596 | 1.41 | 739504 | 92.3 | 70 | 130 | |
| Tb | 159 | 1 | 4922446 | 0.10 | 4783524 | 102.9 | 70 | 130 | |
| Tb | 159 | 2 | 2646512 | 0.37 | 2661694 | 99.4 | 70 | 130 | |
| Ho | 165 | 1 | 4870487 | 0.40 | 4675933 | 104.2 | 70 | 130 | |
| Ho | 165 | 2 | 2666180 | 0.54 | 2700827 | 98.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-011** |
| **Data File Name** | **037SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T13:34:30-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2303** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.00 | 0.00 | ppb | 244 | 5.51 | 550 | |
| Na | 23 | 115 | 2 | 9750.28 | 9750.28 | ppb | 12813862 | 0.13 | 55000 | |
| Mg | 24 | 115 | 2 | 7003.50 | 7003.50 | ppb | 4396760 | 0.49 | 55000 | |
| Al | 27 | 115 | 2 | 14.30 | 14.30 | ppb | 3255 | 5.79 | 16500 | |
| K | 39 | 115 | 2 | 743.32 | 743.32 | ppb | 451554 | 0.78 | 55000 | |
| Ca | 44 | 115 | 2 | 34615.59 | 34615.59 | ppb | 1131251 | 1.42 | 55000 | |
| V | 51 | 115 | 2 | 0.27 | 0.27 | ppb | 2707 | 1.63 | 550 | |
| Cr | 52 | 115 | 2 | 0.19 | 0.19 | ppb | 3744 | 2.73 | 550 | |
| Mn | 55 | 115 | 2 | 275.92 | 275.92 | ppb | 1745578 | 1.30 | 550 | |
| Fe | 56 | 115 | 2 | 110.36 | 110.36 | ppb | 1115825 | 0.36 | 55000 | |
| Co | 59 | 115 | 2 | 0.04 | 0.04 | ppb | 1515 | 2.08 | 550 | |
| Ni | 60 | 115 | 2 | 0.11 | 0.11 | ppb | 1582 | 7.01 | 550 | |
| Cu | 65 | 115 | 2 | 0.68 | 0.68 | ppb | 10522 | 0.86 | 550 | |
| Zn | 66 | 115 | 2 | 2.52 | 2.52 | ppb | 8958 | 4.77 | 550 | |
| As | 75 | 115 | 2 | 0.65 | 0.65 | ppb | 960 | 2.46 | 550 | |
| Se | 78 | 115 | 2 | -0.02 | -0.02 | ppb | 41 | 20.80 | 2750 | |
| Mo | 95 | 115 | 1 | 0.30 | 0.30 | ppb | 5791 | 1.50 | 550 | |
| Ag | 107 | 115 | 1 | 0.52 | 0.52 | ppb | 30204 | 6.85 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 60 | 6.42 | 550 | |
| Sb | 121 | 115 | 1 | -0.13 | -0.13 | ppb | 2021 | 1.28 | 550 | |
| Ba | 137 | 159 | 1 | 133.63 | 133.63 | ppb | 2255291 | 1.18 | 550 | |
| Tl | 205 | 165 | 1 | 0.00 | 0.00 | ppb | 2604 | 8.09 | 550 | |
| Pb | 208 | 165 | 1 | 0.11 | 0.11 | ppb | 11949 | 3.95 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1659380 | 1.00 | 1696296 | 97.7 | 70 | 130 | |
| Sc | 45 | 2 | 71480 | 1.92 | 76845 | 90.7 | 70 | 130 | |
| In | 115 | 1 | 3195850 | 0.96 | 3231342 | 98.9 | 70 | 130 | |
| In | 115 | 2 | 687289 | 0.55 | 739504 | 92.9 | 70 | 130 | |
| Tb | 159 | 1 | 4913714 | 0.16 | 4783524 | 102.7 | 70 | 130 | |
| Tb | 159 | 2 | 2655505 | 0.96 | 2661694 | 99.8 | 70 | 130 | |
| Ho | 165 | 1 | 4817441 | 0.30 | 4675933 | 103.0 | 70 | 130 | |
| Ho | 165 | 2 | 2680309 | 0.93 | 2700827 | 99.2 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-018** |
| **Data File Name** | **038SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T13:38:57-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2304** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.07 | 0.07 | ppb | 568 | 2.37 | 550 | |
| Na | 23 | 115 | 2 | 46253.58 | 46253.58 | ppb | 59092570 | 1.03 | 55000 | |
| Mg | 24 | 115 | 2 | 7468.03 | 7468.03 | ppb | 4581311 | 0.68 | 55000 | |
| Al | 27 | 115 | 2 | 844.01 | 844.01 | ppb | 179901 | 1.90 | 16500 | |
| K | 39 | 115 | 2 | 2237.77 | 2237.77 | ppb | 1283002 | 1.87 | 55000 | |
| Ca | 44 | 115 | 2 | 6443.24 | 6443.24 | ppb | 205942 | 0.97 | 55000 | |
| V | 51 | 115 | 2 | 2.89 | 2.89 | ppb | 26290 | 2.06 | 550 | |
| Cr | 52 | 115 | 2 | 4.83 | 4.83 | ppb | 56945 | 2.11 | 550 | |
| Mn | 55 | 115 | 2 | 85.58 | 85.58 | ppb | 530022 | 0.40 | 550 | |
| Fe | 56 | 115 | 2 | 2087.35 | 2087.35 | ppb | 19599364 | 1.38 | 55000 | |
| Co | 59 | 115 | 2 | 1.42 | 1.42 | ppb | 29619 | 2.32 | 550 | |
| Ni | 60 | 115 | 2 | 13.54 | 13.54 | ppb | 75160 | 1.50 | 550 | |
| Cu | 65 | 115 | 2 | 33.00 | 33.00 | ppb | 259956 | 1.14 | 550 | |
| Zn | 66 | 115 | 2 | 34.86 | 34.86 | ppb | 81805 | 0.07 | 550 | |
| As | 75 | 115 | 2 | 1.35 | 1.35 | ppb | 1925 | 4.80 | 550 | |
| Se | 78 | 115 | 2 | 0.11 | 0.11 | ppb | 53 | 8.48 | 2750 | |
| Mo | 95 | 115 | 1 | 0.88 | 0.88 | ppb | 16675 | 3.53 | 550 | |
| Ag | 107 | 115 | 1 | 0.56 | 0.56 | ppb | 31957 | 9.89 | 550 | |
| Cd | 111 | 115 | 1 | 0.06 | 0.06 | ppb | 615 | 7.94 | 550 | |
| Sb | 121 | 115 | 1 | -0.05 | -0.05 | ppb | 5239 | 4.28 | 550 | |
| Ba | 137 | 159 | 1 | 53.78 | 53.78 | ppb | 902623 | 1.53 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 3756 | 2.23 | 550 | |
| Pb | 208 | 165 | 1 | 5.30 | 5.30 | ppb | 437590 | 1.34 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1639215 | 0.38 | 1696298 | 96.5 | 70 | 130 | |
| Sc | 45 | 2 | 71572 | 0.80 | 78845 | 90.8 | 70 | 130 | |
| In | 115 | 1 | 3148985 | 1.19 | 3231342 | 97.5 | 70 | 130 | |
| In | 115 | 2 | 671617 | 0.87 | 739504 | 90.8 | 70 | 130 | |
| Tb | 159 | 1 | 4883920 | 1.85 | 4783524 | 102.1 | 70 | 130 | |
| Tb | 159 | 2 | 2587833 | 0.84 | 2661694 | 97.2 | 70 | 130 | |
| Ho | 165 | 1 | 4814302 | 0.85 | 4675933 | 103.0 | 70 | 130 | |
| Ho | 165 | 2 | 2622406 | 0.60 | 2700627 | 97.1 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-026** |
| **Data File Name** | **039SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T13:43:22-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2305** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.00 | 0.00 | ppb | 202 | 29.69 | 550 | |
| Na | 23 | 115 | 2 | 19326.27 | 19326.27 | ppb | 25325711 | 0.44 | 55000 | |
| Mg | 24 | 115 | 2 | 5902.69 | 5902.69 | ppb | 3707376 | 0.10 | 55000 | |
| Al | 27 | 115 | 2 | 75.10 | 75.10 | ppb | 16517 | 15.04 | 16500 | |
| K | 39 | 115 | 2 | 1178.50 | 1178.50 | ppb | 702649 | 0.72 | 55000 | |
| Ca | 44 | 115 | 2 | 26928.33 | 26928.33 | ppb | 880383 | 0.44 | 55000 | |
| V | 51 | 115 | 2 | 0.61 | 0.61 | ppb | 5914 | 1.24 | 550 | |
| Cr | 52 | 115 | 2 | 0.28 | 0.28 | ppb | 4776 | 0.98 | 550 | |
| Mn | 55 | 115 | 2 | 28.14 | 28.14 | ppb | 179358 | 0.70 | 550 | |
| Fe | 56 | 115 | 2 | 68.15 | 68.15 | ppb | 711716 | 1.60 | 55000 | |
| Co | 59 | 115 | 2 | 0.05 | 0.05 | ppb | 1668 | 7.21 | 550 | |
| Ni | 60 | 115 | 2 | 0.29 | 0.29 | ppb | 2613 | 3.53 | 550 | |
| Cu | 65 | 115 | 2 | 0.80 | 0.80 | ppb | 11517 | 2.60 | 550 | |
| Zn | 66 | 115 | 2 | 12.33 | 12.33 | ppb | 31657 | 1.74 | 550 | |
| As | 75 | 115 | 2 | 1.05 | 1.05 | ppb | 1539 | 2.68 | 550 | |
| Se | 78 | 115 | 2 | 0.10 | 0.10 | ppb | 53 | 7.51 | 2750 | |
| Mo | 95 | 115 | 1 | 2.88 | 2.88 | ppb | 54858 | 1.23 | 550 | |
| Ag | 107 | 115 | 1 | 0.44 | 0.44 | ppb | 25834 | 9.35 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 189 | 8.90 | 550 | |
| Sb | 121 | 115 | 1 | -0.06 | -0.06 | ppb | 4113 | 4.30 | 550 | |
| Ba | 137 | 159 | 1 | 191.63 | 191.63 | ppb | 3212587 | 0.92 | 550 | |
| Tl | 205 | 165 | 1 | 0.00 | 0.00 | ppb | 2575 | 4.60 | 550 | |
| Pb | 208 | 165 | 1 | 0.16 | 0.16 | ppb | 16208 | 4.36 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1652432 | 0.79 | 1698298 | 97.3 | 70 | 130 | |
| Sc | 45 | 2 | 71516 | 0.93 | 78845 | 90.7 | 70 | 130 | |
| In | 115 | 1 | 3203151 | 0.83 | 3231342 | 99.1 | 70 | 130 | |
| In | 115 | 2 | 687542 | 0.32 | 739504 | 93.0 | 70 | 130 | |
| Tb | 159 | 1 | 4881929 | 1.22 | 4783524 | 102.1 | 70 | 130 | |
| Tb | 159 | 2 | 2638647 | 0.15 | 2661694 | 99.1 | 70 | 130 | |
| Ho | 165 | 1 | 4877938 | 0.44 | 4675933 | 104.3 | 70 | 130 | |
| Ho | 165 | 2 | 2671569 | 0.51 | 2700827 | 98.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-027** |
| **Data File Name** | **040SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T13:47:51-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2306** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 373 | 19.58 | 550 | |
| Na | 23 | 115 | 2 | 170830.25 | 170830.25 | ppb | 212565737 | 0.75 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 3200.07 | 3200.07 | ppb | 1914961 | 1.16 | 55000 | |
| Al | 27 | 115 | 2 | 89.26 | 89.26 | ppb | 18668 | 2.57 | 16500 | |
| K | 39 | 115 | 2 | 7229.17 | 7229.17 | ppb | 3991845 | 0.47 | 55000 | |
| Ca | 44 | 115 | 2 | 2891.12 | 2891.12 | ppb | 90216 | 0.66 | 55000 | |
| V | 51 | 115 | 2 | 2.10 | 2.10 | ppb | 18689 | 0.70 | 550 | |
| Cr | 52 | 115 | 2 | 1.49 | 1.49 | ppb | 18151 | 2.10 | 550 | |
| Mn | 55 | 115 | 2 | 21.46 | 21.46 | ppb | 130600 | 0.48 | 550 | |
| Fe | 56 | 115 | 2 | 201.88 | 201.88 | ppb | 1896314 | 2.31 | 55000 | |
| Co | 59 | 115 | 2 | 0.10 | 0.10 | ppb | 2713 | 2.73 | 550 | |
| Ni | 60 | 115 | 2 | 2.00 | 2.00 | ppb | 11609 | 1.58 | 550 | |
| Cu | 65 | 115 | 2 | 1.09 | 1.09 | ppb | 13097 | 1.63 | 550 | |
| Zn | 66 | 115 | 2 | 3.40 | 3.40 | ppb | 10470 | 0.72 | 550 | |
| As | 75 | 115 | 2 | 4.53 | 4.53 | ppb | 6239 | 0.59 | 550 | |
| Se | 78 | 115 | 2 | 0.02 | 0.02 | ppb | 44 | 8.18 | 2750 | |
| Mo | 95 | 115 | 1 | 3.97 | 3.97 | ppb | 70820 | 1.40 | 550 | |
| Ag | 107 | 115 | 1 | 0.46 | 0.46 | ppb | 25294 | 6.96 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 147 | 22.02 | 550 | |
| Sb | 121 | 115 | 1 | 0.04 | 0.04 | ppb | 8580 | 3.54 | 550 | |
| Ba | 137 | 159 | 1 | 42.34 | 42.34 | ppb | 686519 | 0.37 | 550 | |
| Tl | 205 | 165 | 1 | -0.01 | -0.01 | ppb | 1900 | 12.47 | 550 | |
| Pb | 208 | 165 | 1 | 0.27 | 0.27 | ppb | 24502 | 0.46 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1818379 | 0.54 | 1696298 | 95.3 | 70 | 130 | |
| Sc | 45 | 2 | 70038 | 1.74 | 78845 | 88.8 | 70 | 130 | |
| In | 115 | 1 | 2998981 | 0.44 | 3231342 | 92.8 | 70 | 130 | |
| In | 115 | 2 | 654799 | 0.82 | 739504 | 88.5 | 70 | 130 | |
| Tb | 159 | 1 | 4716345 | 0.44 | 4783524 | 98.6 | 70 | 130 | |
| Tb | 159 | 2 | 2546616 | 1.22 | 2661694 | 95.7 | 70 | 130 | |
| Ho | 165 | 1 | 4658484 | 0.37 | 4675933 | 99.6 | 70 | 130 | |
| Ho | 165 | 2 | 2564389 | 0.35 | 2700827 | 94.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **041SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T13:52:15-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | -0.01 | -0.01 | ppb | 206 | 5.21 | 550 | |
| Na | 23 | 115 | 2 | 191.95 | 191.95 | ppb | 375906 | 1.08 | 55000 | |
| Mg | 24 | 115 | 2 | 2.86 | 2.86 | ppb | 4410 | 6.88 | 55000 | |
| Al | 27 | 115 | 2 | 1.07 | 1.07 | ppb | 416 | 9.12 | 16500 | |
| K | 39 | 115 | 2 | 28.57 | 28.57 | ppb | 44392 | 1.42 | 55000 | |
| Ca | 44 | 115 | 2 | 1.64 | 1.64 | ppb | 323 | 19.59 | 55000 | |
| V | 51 | 115 | 2 | 0.00 | 0.00 | ppb | 251 | 5.03 | 550 | |
| Cr | 52 | 115 | 2 | -0.04 | -0.04 | ppb | 1175 | 4.84 | 550 | |
| Mn | 55 | 115 | 2 | 0.01 | 0.01 | ppb | 1710 | 6.67 | 550 | |
| Fe | 56 | 115 | 2 | 2.07 | 2.07 | ppb | 87901 | 2.90 | 55000 | |
| Co | 59 | 115 | 2 | -0.01 | -0.01 | ppb | 487 | 18.54 | 550 | |
| Ni | 60 | 115 | 2 | -0.10 | -0.10 | ppb | 481 | 14.24 | 550 | |
| Cu | 65 | 115 | 2 | -0.49 | -0.49 | ppb | 1450 | 7.08 | 550 | |
| Zn | 66 | 115 | 2 | 0.63 | 0.63 | ppb | 5136 | 1.60 | 550 | |
| As | 75 | 115 | 2 | 0.01 | 0.01 | ppb | 37 | 13.53 | 550 | |
| Se | 78 | 115 | 2 | -0.01 | -0.01 | ppb | 48 | 22.65 | 2750 | |
| Mo | 95 | 115 | 1 | 0.02 | 0.02 | ppb | 639 | 12.24 | 550 | |
| Ag | 107 | 115 | 1 | 0.28 | 0.28 | ppb | 18366 | 10.29 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 116 | 16.47 | 550 | |
| Sb | 121 | 115 | 1 | -0.15 | -0.15 | ppb | 827 | 24.46 | 550 | |
| Ba | 137 | 159 | 1 | -0.03 | -0.03 | ppb | 480 | 7.51 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 4417 | 7.19 | 550 | |
| Pb | 208 | 165 | 1 | 0.00 | 0.00 | ppb | 3023 | 6.55 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1799914 | 0.75 | 1696298 | 106.0 | 70 | 130 | |
| Sc | 45 | 2 | 82858 | 1.32 | 78845 | 105.1 | 70 | 130 | |
| In | 115 | 1 | 3369201 | 0.36 | 3231342 | 104.3 | 70 | 130 | |
| In | 115 | 2 | 771111 | 0.56 | 739504 | 104.3 | 70 | 130 | |
| Tb | 159 | 1 | 4934608 | 0.36 | 4783524 | 103.2 | 70 | 130 | |
| Tb | 159 | 2 | 2745974 | 0.20 | 2661694 | 103.2 | 70 | 130 | |
| Ho | 165 | 1 | 4845948 | 0.95 | 4675933 | 103.6 | 70 | 130 | |
| Ho | 165 | 2 | 2765913 | 0.47 | 2700827 | 102.4 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Verification (CCV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCV V-357844** |
| **Data File Name** | **0426CCV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T13:56:43-04:00** |
| **Type** | **6-CCV** |
| **VialNumber** | **1201** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 50.83 | ppb | 50 | 265947 | 1.30 | 101.66 | 90 | 110 | |
| Na | 23 | 115 | 2 | 5225.33 | ppb | 5000 | 7379745 | 0.81 | 104.51 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 5160.44 | ppb | 5000 | 3462250 | 0.59 | 103.21 | 90 | 110 | |
| Al | 27 | 115 | 2 | 1510.80 | ppb | 1500 | 352041 | 0.30 | 100.72 | 90 | 110 | |
| K | 39 | 115 | 2 | 5062.31 | ppb | 5000 | 3142309 | 0.52 | 101.25 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 5002.29 | ppb | 5000 | 174884 | 0.33 | 100.05 | 90 | 110 | |
| V | 51 | 115 | 2 | 49.79 | ppb | 50 | 491350 | 0.38 | 99.57 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 49.87 | ppb | 50 | 628559 | 0.09 | 99.74 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 49.69 | ppb | 50 | 337193 | 0.93 | 99.39 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 5026.73 | ppb | 5000 | 51520352 | 0.79 | 100.53 | 90 | 110 | |
| Co | 59 | 115 | 2 | 49.86 | ppb | 50 | 1113205 | 0.57 | 99.73 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 49.64 | ppb | 50 | 298434 | 0.25 | 99.28 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 49.60 | ppb | 50 | 424492 | 0.50 | 99.20 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 49.81 | ppb | 50 | 126387 | 0.44 | 99.63 | 90 | 110 | |
| As | 75 | 115 | 2 | 49.82 | ppb | 50 | 76750 | 0.52 | 99.64 | 90 | 110 | |
| Se | 78 | 115 | 2 | 250.73 | ppb | 250 | 25056 | 0.55 | 100.29 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 48.51 | ppb | 50 | 945282 | 0.19 | 97.02 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 50.44 | ppb | 50 | 2737730 | 1.02 | 100.88 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 49.77 | ppb | 50 | 542537 | 0.80 | 99.55 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 50.96 | ppb | 50 | 2311672 | 0.80 | 101.92 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 49.19 | ppb | 50 | 833715 | 0.96 | 98.38 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 50.14 | ppb | 50 | 5838274 | 0.94 | 100.28 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 50.48 | ppb | 50 | 4173444 | 0.08 | 100.97 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1741838 | 0.86 | 1698298 | 102.6 | 70 | 130 | |
| Sc | 45 | 2 | 78534 | 1.18 | 78845 | 99.6 | 70 | 130 | |
| In | 115 | 1 | 3282983 | 0.70 | 3231342 | 101.6 | 70 | 130 | |
| In | 115 | 2 | 734386 | 0.90 | 739504 | 99.3 | 70 | 130 | |
| Tb | 159 | 1 | 4931308 | 0.22 | 4783524 | 103.1 | 70 | 130 | |
| Tb | 159 | 2 | 2694328 | 0.16 | 2661694 | 101.2 | 70 | 130 | |
| Ho | 165 | 1 | 4853790 | 0.62 | 4675933 | 103.8 | 70 | 130 | |
| Ho | 165 | 2 | 2742831 | 1.06 | 2700827 | 101.6 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Blank (CCB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCB V-357841** |
| **Data File Name** | **0436CCB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T14:01:01-04:00** |
| **Type** | **6-CCB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Mass Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.00 | ppb | 0.5 | |
| Na | 23 | 115 | 2 | 87.02 | ppb | 250 | |
| Mg | 24 | 115 | 2 | 0.75 | ppb | 250 | |
| Al | 27 | 115 | 2 | 0.46 | ppb | 100 | |
| K | 39 | 115 | 2 | 10.88 | ppb | 250 | |
| Ca | 44 | 115 | 2 | -2.04 | ppb | 250 | |
| V | 51 | 115 | 2 | 0.01 | ppb | 1 | |
| Cr | 52 | 115 | 2 | -0.02 | ppb | 1 | |
| Mn | 55 | 115 | 2 | -0.05 | ppb | 3 | |
| Fe | 56 | 115 | 2 | 1.89 | ppb | 150 | |
| Co | 59 | 115 | 2 | -0.02 | ppb | 1 | |
| Ni | 60 | 115 | 2 | -0.10 | ppb | 1.5 | |
| Cu | 65 | 115 | 2 | -0.35 | ppb | 5 | |
| Zn | 66 | 115 | 2 | -0.27 | ppb | 10 | |
| As | 75 | 115 | 2 | 0.01 | ppb | 1 | |
| Se | 78 | 115 | 2 | 0.08 | ppb | 5 | |
| Mo | 95 | 115 | 1 | 0.05 | ppb | 1 | |
| Ag | 107 | 115 | 1 | 0.04 | ppb | 0.5 | |
| Cd | 111 | 115 | 1 | 0.00 | ppb | 1 | |
| Sb | 121 | 115 | 1 | -0.12 | ppb | 1.5 | |
| Ba | 137 | 159 | 1 | -0.02 | ppb | 2.5 | |
| Tl | 205 | 165 | 1 | 0.11 | ppb | 1 | |
| Pb | 208 | 165 | 1 | 0.00 | ppb | 1.5 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1723465 | 0.27 | 1698298 | 101.5 | 70 | 130 | |
| Sc | 45 | 2 | 77588 | 0.91 | 78845 | 98.4 | 70 | 130 | |
| In | 115 | 1 | 3267301 | 0.07 | 3231342 | 101.1 | 70 | 130 | |
| In | 115 | 2 | 737361 | 0.59 | 739504 | 99.7 | 70 | 130 | |
| Tb | 159 | 1 | 4864878 | 0.54 | 4783524 | 101.7 | 70 | 130 | |
| Tb | 159 | 2 | 2716096 | 0.35 | 2661694 | 102.0 | 70 | 130 | |
| Ho | 165 | 1 | 4795079 | 1.05 | 4675933 | 102.5 | 70 | 130 | |
| Ho | 165 | 2 | 2734838 | 0.33 | 2700827 | 101.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-032** |
| **Data File Name** | **044SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T14:05:31-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2307** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.04 | 0.04 | ppb | 427 | 8.27 | 550 | |
| Na | 23 | 115 | 2 | 3238289.87 | 3238289.87 | ppb | 3801748352 | 1.02 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 366797.56 | 366797.56 | ppb | 206971281 | 1.43 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 26.86 | 26.86 | ppb | 5389 | 6.57 | 16500 | |
| K | 39 | 115 | 2 | 40602.21 | 40602.21 | ppb | 21065142 | 1.01 | 55000 | |
| Ca | 44 | 115 | 2 | 374723.19 | 374723.19 | ppb | 11009900 | 1.65 | 55000 | >LDR |
| V | 51 | 115 | 2 | 0.73 | 0.73 | ppb | 6282 | 2.15 | 550 | |
| Cr | 52 | 115 | 2 | 0.47 | 0.47 | ppb | 6314 | 2.51 | 550 | |
| Mn | 55 | 115 | 2 | 1568.33 | 1568.33 | ppb | 8915197 | 0.95 | 550 | >LDR |
| Fe | 56 | 115 | 2 | 13800.85 | 13800.85 | ppb | 118941125 | 0.76 | 55000 | |
| Co | 59 | 115 | 2 | 0.06 | 0.06 | ppb | 1718 | 4.07 | 550 | |
| Ni | 60 | 115 | 2 | 0.16 | 0.16 | ppb | 1671 | 10.48 | 550 | |
| Cu | 65 | 115 | 2 | 0.17 | 0.17 | ppb | 5846 | 3.88 | 550 | |
| Zn | 66 | 115 | 2 | 4.90 | 4.90 | ppb | 12995 | 0.46 | 550 | |
| As | 75 | 115 | 2 | 2.12 | 2.12 | ppb | 2769 | 2.69 | 550 | |
| Se | 78 | 115 | 2 | 0.41 | 0.41 | ppb | 74 | 13.17 | 2750 | |
| Mo | 95 | 115 | 1 | 0.93 | 0.93 | ppb | 14963 | 2.32 | 550 | |
| Ag | 107 | 115 | 1 | 0.71 | 0.71 | ppb | 34098 | 8.16 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 149 | 8.03 | 550 | |
| Sb | 121 | 115 | 1 | 0.18 | 0.18 | ppb | 12913 | 3.85 | 550 | |
| Ba | 137 | 159 | 1 | 37.44 | 37.44 | ppb | 522129 | 0.85 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 3504 | 8.18 | 550 | |
| Pb | 208 | 165 | 1 | 0.13 | 0.13 | ppb | 11340 | 3.34 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1711265 | 0.49 | 1696298 | 100.8 | 70 | 130 | |
| Sc | 45 | 2 | 83244 | 1.02 | 78845 | 105.6 | 70 | 130 | |
| In | 115 | 1 | 2690946 | 1.22 | 3231342 | 83.3 | 70 | 130 | |
| In | 115 | 2 | 618012 | 1.00 | 739504 | 83.6 | 70 | 130 | |
| Tb | 159 | 1 | 4056175 | 0.59 | 4783524 | 84.8 | 70 | 130 | |
| Tb | 159 | 2 | 2158379 | 1.01 | 2661694 | 81.1 | 70 | 130 | |
| Ho | 165 | 1 | 4010927 | 1.15 | 4675933 | 65.8 | 70 | 130 | |
| Ho | 165 | 2 | 2170684 | 1.16 | 2700827 | 80.4 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-033** |
| **Data File Name** | **045SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T14:09:58-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2308** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | -0.01 | -0.01 | ppb | 159 | 22.63 | 550 | |
| Na | 23 | 115 | 2 | 217.28 | 217.28 | ppb | 377864 | 1.61 | 55000 | |
| Mg | 24 | 115 | 2 | 9.34 | 9.34 | ppb | 8209 | 1.74 | 55000 | |
| Al | 27 | 115 | 2 | 7.69 | 7.69 | ppb | 1862 | 1.16 | 16500 | |
| K | 39 | 115 | 2 | 16.32 | 16.32 | ppb | 33370 | 0.35 | 55000 | |
| Ca | 44 | 115 | 2 | 51.91 | 51.91 | ppb | 1981 | 5.22 | 55000 | |
| V | 51 | 115 | 2 | 0.28 | 0.28 | ppb | 2908 | 4.96 | 550 | |
| Cr | 52 | 115 | 2 | 0.18 | 0.18 | ppb | 3662 | 1.23 | 550 | |
| Mn | 55 | 115 | 2 | 0.33 | 0.33 | ppb | 3856 | 2.11 | 550 | |
| Fe | 56 | 115 | 2 | 11.53 | 11.53 | ppb | 173477 | 0.87 | 55000 | |
| Co | 59 | 115 | 2 | -0.01 | -0.01 | ppb | 390 | 7.45 | 550 | |
| Ni | 60 | 115 | 2 | -0.05 | -0.05 | ppb | 743 | 12.29 | 550 | |
| Cu | 65 | 115 | 2 | 0.29 | 0.29 | ppb | 7619 | 2.33 | 550 | |
| Zn | 66 | 115 | 2 | 11.81 | 11.81 | ppb | 31250 | 1.26 | 550 | |
| As | 75 | 115 | 2 | 0.07 | 0.07 | ppb | 126 | 28.44 | 550 | |
| Se | 78 | 115 | 2 | -0.03 | -0.03 | ppb | 42 | 14.62 | 2750 | |
| Mo | 95 | 115 | 1 | 0.01 | 0.01 | ppb | 426 | 20.20 | 550 | |
| Ag | 107 | 115 | 1 | 0.42 | 0.42 | ppb | 25360 | 10.27 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 42 | 8.12 | 550 | |
| Sb | 121 | 115 | 1 | 0.00 | 0.00 | ppb | 7628 | 3.58 | 550 | |
| Ba | 137 | 159 | 1 | 0.24 | 0.24 | ppb | 4990 | 3.86 | 550 | |
| Tl | 205 | 165 | 1 | 0.00 | 0.00 | ppb | 2607 | 7.64 | 550 | |
| Pb | 208 | 165 | 1 | 0.06 | 0.06 | ppb | 8360 | 0.22 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1696682 | 1.15 | 1698296 | 99.9 | 70 | 130 | |
| Sc | 45 | 2 | 74171 | 1.29 | 78845 | 94.1 | 70 | 130 | |
| In | 115 | 1 | 3243722 | 0.54 | 3231342 | 100.4 | 70 | 130 | |
| In | 115 | 2 | 705560 | 0.86 | 739504 | 95.4 | 70 | 130 | |
| Tb | 159 | 1 | 4922006 | 1.01 | 4783524 | 102.9 | 70 | 130 | |
| Tb | 159 | 2 | 2672325 | 0.73 | 2661694 | 100.4 | 70 | 130 | |
| Ho | 165 | 1 | 4854761 | 0.97 | 4675933 | 103.8 | 70 | 130 | |
| Ho | 165 | 2 | 2719739 | 0.24 | 2700827 | 100.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-035** |
| **Data File Name** | **046SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T14:14:28-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2309** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | -0.01 | -0.01 | ppb | 163 | 25.08 | 550 | |
| Na | 23 | 115 | 2 | 138829.51 | 138829.51 | ppb | 179734380 | 0.74 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 10206.55 | 10206.55 | ppb | 6350101 | 0.83 | 55000 | |
| Al | 27 | 115 | 2 | 79.30 | 79.30 | ppb | 17267 | 5.44 | 16500 | |
| K | 39 | 115 | 2 | 15907.83 | 15907.83 | ppb | 9111215 | 0.62 | 55000 | |
| Ca | 44 | 115 | 2 | 35900.99 | 35900.99 | ppb | 1162873 | 1.28 | 55000 | |
| V | 51 | 115 | 2 | 0.50 | 0.50 | ppb | 4806 | 5.09 | 550 | |
| Cr | 52 | 115 | 2 | 0.58 | 0.58 | ppb | 8303 | 7.81 | 550 | |
| Mn | 55 | 115 | 2 | 3.62 | 3.62 | ppb | 25395 | 0.85 | 550 | |
| Fe | 56 | 115 | 2 | 136.44 | 136.44 | ppb | 1372516 | 0.45 | 55000 | |
| Co | 59 | 115 | 2 | 0.14 | 0.14 | ppb | 3657 | 5.31 | 550 | |
| Ni | 60 | 115 | 2 | 0.47 | 0.47 | ppb | 3603 | 5.44 | 550 | |
| Cu | 65 | 115 | 2 | 3.16 | 3.16 | ppb | 29830 | 0.61 | 550 | |
| Zn | 66 | 115 | 2 | 6.79 | 6.79 | ppb | 18665 | 0.71 | 550 | |
| As | 75 | 115 | 2 | 0.34 | 0.34 | ppb | 516 | 8.89 | 550 | |
| Se | 78 | 115 | 2 | 0.10 | 0.10 | ppb | 53 | 10.42 | 2750 | |
| Mo | 95 | 115 | 1 | 1.32 | 1.32 | ppb | 24511 | 2.02 | 550 | |
| Ag | 107 | 115 | 1 | 0.36 | 0.36 | ppb | 21210 | 8.99 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 143 | 1.62 | 550 | |
| Sb | 121 | 115 | 1 | -0.02 | -0.02 | ppb | 6591 | 1.71 | 550 | |
| Ba | 137 | 159 | 1 | 109.20 | 109.20 | ppb | 1789374 | 0.86 | 550 | |
| Tl | 205 | 165 | 1 | -0.01 | -0.01 | ppb | 1736 | 8.91 | 550 | |
| Pb | 208 | 165 | 1 | 0.33 | 0.33 | ppb | 29528 | 0.89 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1679768 | 0.98 | 1696298 | 98.9 | 70 | 130 | |
| Sc | 45 | 2 | 73861 | 0.53 | 78845 | 93.7 | 70 | 130 | |
| In | 115 | 1 | 3111652 | 0.24 | 3231342 | 96.3 | 70 | 130 | |
| In | 115 | 2 | 681213 | 0.45 | 739504 | 92.1 | 70 | 130 | |
| Tb | 159 | 1 | 4770803 | 0.91 | 4783524 | 99.7 | 70 | 130 | |
| Tb | 159 | 2 | 2586933 | 0.83 | 2661694 | 97.2 | 70 | 130 | |
| Ho | 165 | 1 | 4716668 | 0.53 | 4675933 | 100.9 | 70 | 130 | |
| Ho | 165 | 2 | 2639191 | 0.49 | 2700827 | 97.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **047SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T14:18:53-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.00 | 0.00 | ppb | 237 | 5.08 | 550 | |
| Na | 23 | 115 | 2 | 305.83 | 305.83 | ppb | 572617 | 0.57 | 55000 | |
| Mg | 24 | 115 | 2 | 3.37 | 3.37 | ppb | 5034 | 2.32 | 55000 | |
| Al | 27 | 115 | 2 | 1.06 | 1.06 | ppb | 437 | 16.25 | 16500 | |
| K | 39 | 115 | 2 | 46.50 | 46.50 | ppb | 59072 | 1.39 | 55000 | |
| Ca | 44 | 115 | 2 | 1.96 | 1.96 | ppb | 353 | 7.12 | 55000 | |
| V | 51 | 115 | 2 | -0.01 | -0.01 | ppb | 191 | 37.30 | 550 | |
| Cr | 52 | 115 | 2 | -0.03 | -0.03 | ppb | 1299 | 5.48 | 550 | |
| Mn | 55 | 115 | 2 | -0.01 | -0.01 | ppb | 1620 | 4.16 | 550 | |
| Fe | 56 | 115 | 2 | 1.27 | 1.27 | ppb | 83666 | 1.75 | 55000 | |
| Co | 59 | 115 | 2 | -0.02 | -0.02 | ppb | 393 | 10.62 | 550 | |
| Ni | 60 | 115 | 2 | -0.11 | -0.11 | ppb | 439 | 1.16 | 550 | |
| Cu | 65 | 115 | 2 | -0.50 | -0.50 | ppb | 1379 | 3.43 | 550 | |
| Zn | 66 | 115 | 2 | 0.53 | 0.53 | ppb | 5160 | 1.88 | 550 | |
| As | 75 | 115 | 2 | 0.00 | 0.00 | ppb | 24 | 10.67 | 550 | |
| Se | 78 | 115 | 2 | 0.09 | 0.09 | ppb | 61 | 9.95 | 2750 | |
| Mo | 95 | 115 | 1 | 0.02 | 0.02 | ppb | 722 | 5.51 | 550 | |
| Ag | 107 | 115 | 1 | 0.18 | 0.18 | ppb | 13775 | 5.81 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 115 | 18.74 | 550 | |
| Sb | 121 | 115 | 1 | -0.15 | -0.15 | ppb | 922 | 17.43 | 550 | |
| Ba | 137 | 159 | 1 | -0.03 | -0.03 | ppb | 517 | 13.33 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 4084 | 8.07 | 550 | |
| Pb | 208 | 165 | 1 | -0.01 | -0.01 | ppb | 2780 | 3.91 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1950345 | 0.58 | 1696298 | 114.8 | 70 | 130 | |
| Sc | 45 | 2 | 90040 | 0.72 | 78845 | 114.2 | 70 | 130 | |
| In | 115 | 1 | 3531478 | 0.45 | 3231342 | 109.3 | 70 | 130 | |
| In | 115 | 2 | 813563 | 0.69 | 739504 | 110.0 | 70 | 130 | |
| Tb | 159 | 1 | 5073138 | 1.25 | 4783524 | 106.1 | 70 | 130 | |
| Tb | 159 | 2 | 2827261 | 0.50 | 2661694 | 106.2 | 70 | 130 | |
| Ho | 165 | 1 | 4930707 | 0.38 | 4675933 | 105.4 | 70 | 130 | |
| Ho | 165 | 2 | 2869151 | 0.55 | 2700827 | 106.2 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Verification (CCV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCV V-357844** |
| **Data File Name** | **0486CCV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T14:23:22-04:00** |
| **Type** | **6-CCV** |
| **VialNumber** | **1201** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 50.75 | ppb | 50 | 274648 | 0.32 | 101.50 | 90 | 110 | |
| Na | 23 | 115 | 2 | 5366.52 | ppb | 5000 | 7718245 | 1.01 | 107.33 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 5231.90 | ppb | 5000 | 3575414 | 0.57 | 104.64 | 90 | 110 | |
| Al | 27 | 115 | 2 | 1536.01 | ppb | 1500 | 364583 | 0.43 | 102.40 | 90 | 110 | |
| K | 39 | 115 | 2 | 5172.53 | ppb | 5000 | 3270120 | 0.44 | 103.45 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 5034.36 | ppb | 5000 | 179289 | 0.79 | 100.69 | 90 | 110 | |
| V | 51 | 115 | 2 | 50.05 | ppb | 50 | 503131 | 0.81 | 100.09 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 50.34 | ppb | 50 | 646286 | 0.50 | 100.67 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 50.28 | ppb | 50 | 347473 | 0.11 | 100.56 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 5084.07 | ppb | 5000 | 53079229 | 0.52 | 101.68 | 90 | 110 | |
| Co | 59 | 115 | 2 | 50.18 | ppb | 50 | 1141125 | 0.25 | 100.36 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 50.23 | ppb | 50 | 307619 | 0.02 | 100.46 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 49.96 | ppb | 50 | 435475 | 0.78 | 99.91 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 49.76 | ppb | 50 | 128605 | 0.76 | 99.53 | 90 | 110 | |
| As | 75 | 115 | 2 | 50.35 | ppb | 50 | 79014 | 0.21 | 100.70 | 90 | 110 | |
| Se | 78 | 115 | 2 | 253.50 | ppb | 250 | 25807 | 1.43 | 101.40 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 48.28 | ppb | 50 | 959730 | 0.51 | 96.56 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 50.56 | ppb | 50 | 2799203 | 1.09 | 101.12 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 49.31 | ppb | 50 | 548311 | 0.71 | 98.62 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 50.55 | ppb | 50 | 2339301 | 0.78 | 101.10 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 49.35 | ppb | 50 | 845317 | 0.63 | 98.71 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 49.58 | ppb | 50 | 5855839 | 0.45 | 99.15 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 49.60 | ppb | 50 | 4159569 | 0.88 | 99.20 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1801444 | 0.72 | 1698298 | 106.1 | 70 | 130 | |
| Sc | 45 | 2 | 81628 | 0.69 | 78845 | 103.5 | 70 | 130 | |
| In | 115 | 1 | 3349000 | 0.46 | 3231342 | 103.6 | 70 | 130 | |
| In | 115 | 2 | 748165 | 1.56 | 739504 | 101.2 | 70 | 130 | |
| Tb | 159 | 1 | 4983153 | 0.22 | 4783524 | 104.2 | 70 | 130 | |
| Tb | 159 | 2 | 2742780 | 0.94 | 2661694 | 103.0 | 70 | 130 | |
| Ho | 165 | 1 | 4923842 | 1.25 | 4675933 | 105.3 | 70 | 130 | |
| Ho | 165 | 2 | 2749024 | 0.91 | 2700827 | 101.8 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Blank (CCB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCB V-357841** |
| **Data File Name** | **0496CCB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321A.b** |
| **Acq Date Time** | **2021-09-23T14:27:43-04:00** |
| **Type** | **6-CCB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

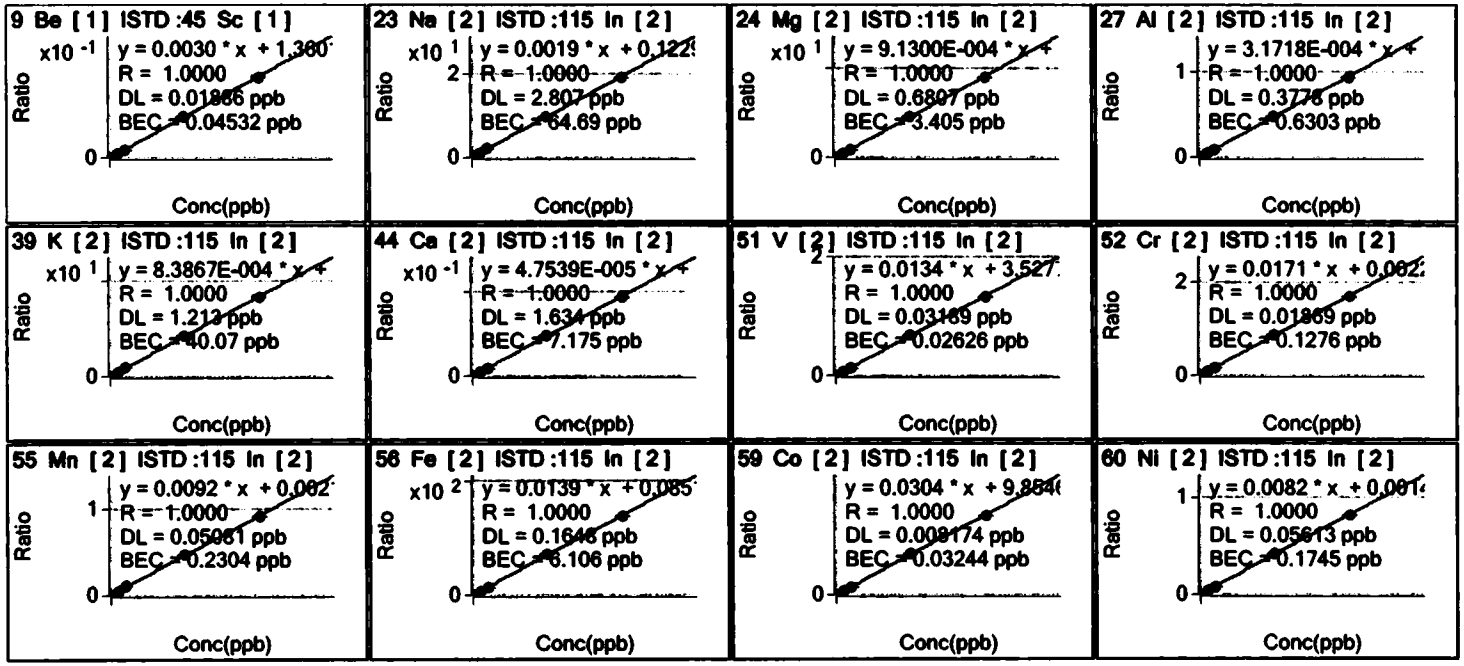
**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | -0.01 | ppb | 0.5 | |
| Na | 23 | 115 | 2 | 137.48 | ppb | 250 | |
| Mg | 24 | 115 | 2 | 1.13 | ppb | 250 | |
| Al | 27 | 115 | 2 | 0.23 | ppb | 100 | |
| K | 39 | 115 | 2 | 17.85 | ppb | 250 | |
| Ca | 44 | 115 | 2 | -0.47 | ppb | 250 | |
| V | 51 | 115 | 2 | 0.01 | ppb | 1 | |
| Cr | 52 | 115 | 2 | -0.02 | ppb | 1 | |
| Mn | 55 | 115 | 2 | -0.07 | ppb | 3 | |
| Fe | 56 | 115 | 2 | 1.95 | ppb | 150 | |
| Co | 59 | 115 | 2 | -0.02 | ppb | 1 | |
| Ni | 60 | 115 | 2 | -0.11 | ppb | 1.5 | |
| Cu | 65 | 115 | 2 | -0.38 | ppb | 5 | |
| Zn | 66 | 115 | 2 | -0.24 | ppb | 10 | |
| As | 75 | 115 | 2 | 0.02 | ppb | 1 | |
| Se | 78 | 115 | 2 | 0.03 | ppb | 5 | |
| Mo | 95 | 115 | 1 | 0.05 | ppb | 1 | |
| Ag | 107 | 115 | 1 | 0.03 | ppb | 0.5 | |
| Cd | 111 | 115 | 1 | 0.00 | ppb | 1 | |
| Sb | 121 | 115 | 1 | -0.12 | ppb | 1.5 | |
| Ba | 137 | 159 | 1 | -0.02 | ppb | 2.5 | |
| Tl | 205 | 165 | 1 | 0.11 | ppb | 1 | |
| Pb | 208 | 165 | 1 | 0.00 | ppb | 1.5 | |

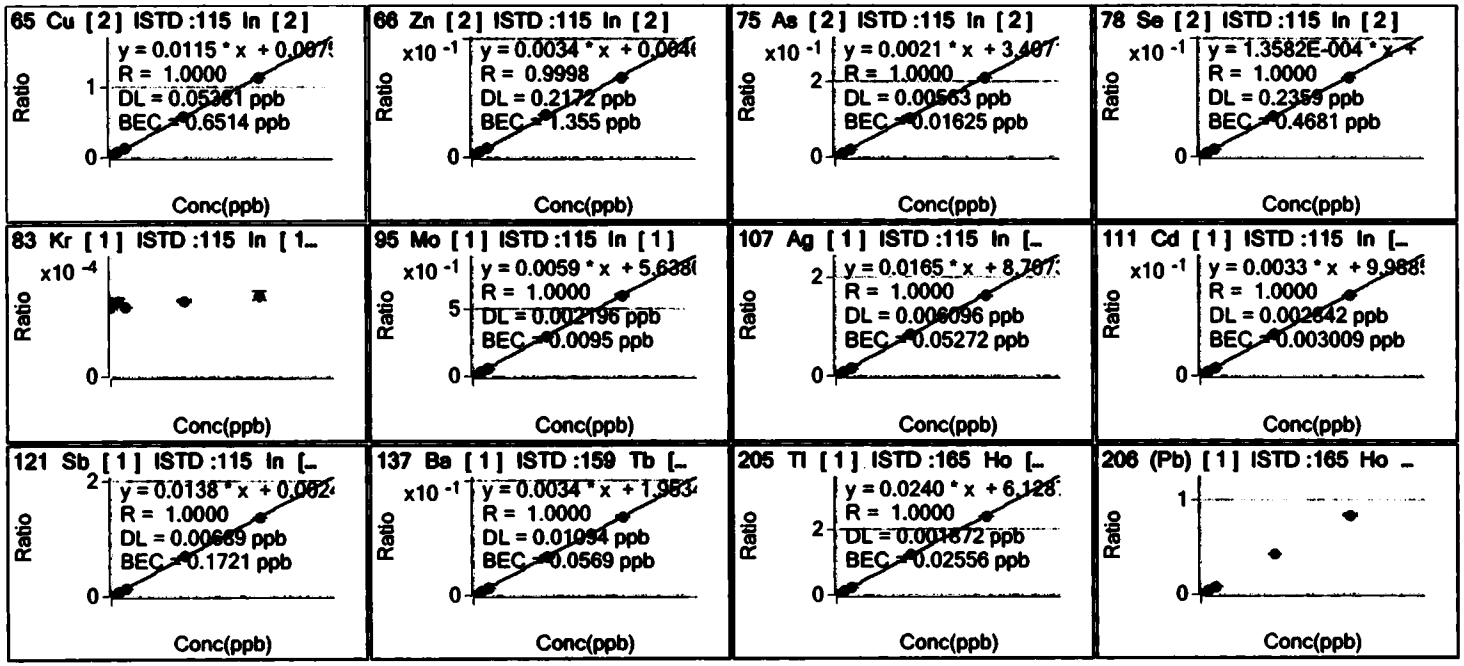
**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1776592 | 1.09 | 1698298 | 104.6 | 70 | 130 | |
| Sc | 45 | 2 | 79250 | 0.35 | 78845 | 100.5 | 70 | 130 | |
| In | 115 | 1 | 3309159 | 0.02 | 3231342 | 102.4 | 70 | 130 | |
| In | 115 | 2 | 748538 | 1.00 | 739504 | 101.2 | 70 | 130 | |
| Tb | 159 | 1 | 4899022 | 0.88 | 4783524 | 102.4 | 70 | 130 | |
| Tb | 159 | 2 | 2694887 | 0.85 | 2661694 | 101.2 | 70 | 130 | |
| Ho | 165 | 1 | 4774568 | 0.48 | 4675933 | 102.1 | 70 | 130 | |
| Ho | 165 | 2 | 2723226 | 0.53 | 2700827 | 100.8 | 70 | 130 | |

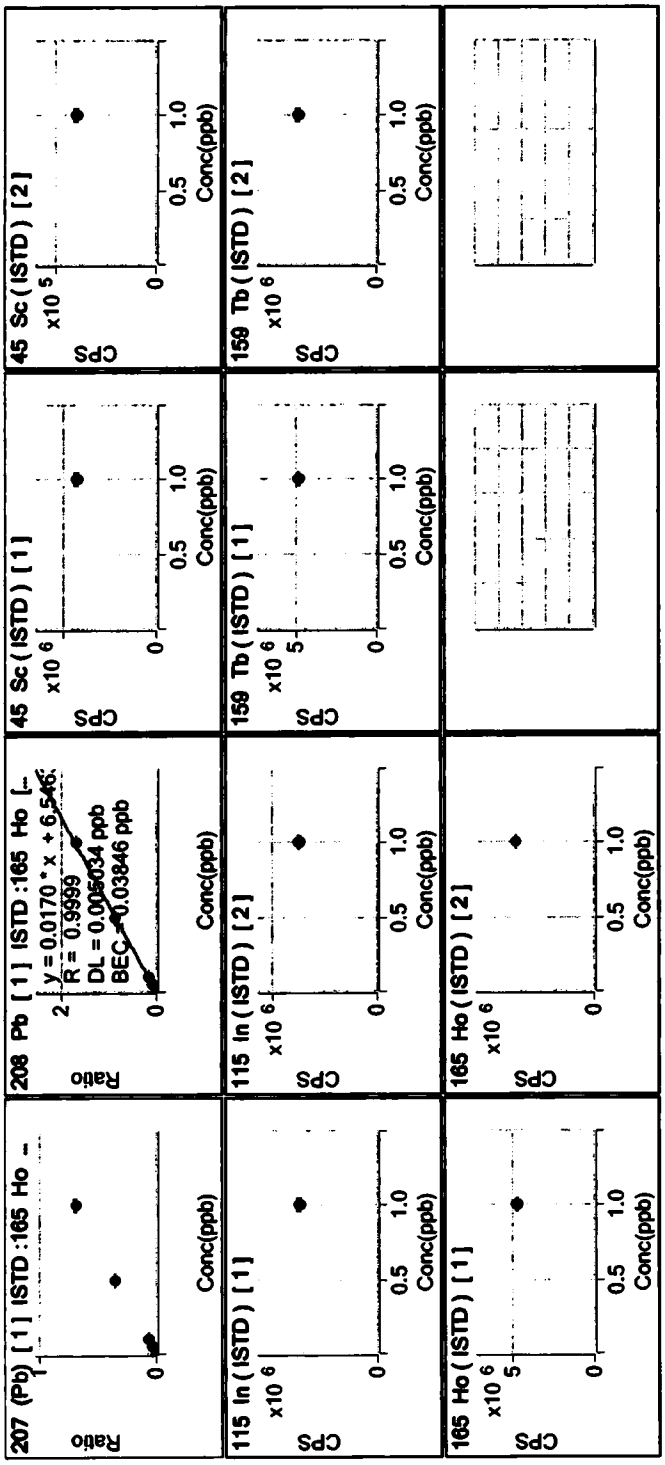
| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |




10917738 2397




10917738 2398


207 (Pb) [ 1 ] ISTD :165 Ho _
208 Pb [ 1 ] ISTD :165 Ho [_
y = 0.0170 * x + 6.546
R = 0.9999
DL = 0.005034 ppb
BEC = 0.03846 ppb
45 Sc ( ISTD ) [ 1 ]
45 Sc ( ISTD ) [ 2 ]
115 In ( ISTD ) [ 1 ]
115 In ( ISTD ) [ 2 ]
159 Tb ( ISTD ) [ 1 ]
159 Tb ( ISTD ) [ 2 ]
165 Ho ( ISTD ) [ 1 ]
165 Ho ( ISTD ) [ 2 ]
Ratio
CPS
Conc(ppb)

V-357868

Analysis Begun

Logged In Analyst: peservice Technique: AA FIMS-MHS
Spectrometer: FIMS-100, S/N B050-9550 Autosampler: S10

9/23/21

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\AA\Data\Sample Information\
H27669SW.sifx
Batch ID: H27669SW
Results Data Set: H27669SW
Results Library: C:\Users\Public\PerkinElmer Syngistix\AA\Data\Results\Results.mdb

9/24/21

Method Loaded
Method Name: HgCV4 SW846H2O (7470 Method Last Saved: 8/17/2021 12:33:24 PM
Method Description: HgCV4 SW846H2O (7470A)

Sequence No.: 1 Autosampler Location: 1
Sample ID: Calibration Blank Date Collected: 9/23/2021 1:48:17 PM
Analyst: Data Type: Original

Replicate Data: Calibration Blank Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [0.00] | 0.0000 | 0.0001 | 0.0000 | 1:49:05 PM | Yes |
| 2 | | [0.00] | 0.0000 | 0.0000 | 0.0000 | 1:49:42 PM | Yes |
| Mean: | | [0.00] | 0.0000 | | | | |
| SD: | | 0.0000 | 0.0000 | | | | |
| %RSD: | | 0.00% | 49.81% | | | | |

Auto-zero performed.

Sequence No.: 2 Autosampler Location: 2
Sample ID: .2 PPB Date Collected: 9/23/2021 1:49:45 PM
Analyst: Data Type: Original

Replicate Data: .2 PPB Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [0.2] | 0.0015 | 0.0072 | 0.0016 | 1:50:36 PM | Yes |
| 2 | | [0.2] | 0.0015 | 0.0067 | 0.0015 | 1:51:12 PM | Yes |
| Mean: | | [0.2] | 0.0015 | | | | |
| SD: | | 0.000 | 0.0000 | | | | |
| %RSD: | | 0.00% | 1.07% | | | | |

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00762 Intercept: 0.00000

Sequence No.: 3 Autosampler Location: 3
Sample ID: .5 PPB Date Collected: 9/23/2021 1:51:16 PM
Analyst: Data Type: Original

Replicate Data: .5 PPB Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [0.5] | 0.0035 | 0.0159 | 0.0036 | 1:52:07 PM | Yes |
| 2 | | [0.5] | 0.0035 | 0.0157 | 0.0035 | 1:52:43 PM | Yes |
| Mean: | | [0.5] | 0.0035 | | | | |
| SD: | | 0.000 | 0.0000 | | | | |
| %RSD: | | 0.00% | 0.83% | | | | |

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999313 Slope: 0.00702 Intercept: 0.00005

Sequence No.: 4 Autosampler Location: 4
Sample ID: 1 PPB Date Collected: 9/23/2021 1:52:46 PM
Analyst: Data Type: Original

Replicate Data: 1 PPB — Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [1] | 0.0069 | 0.0307 | 0.0069 | 1:53:37 PM | Yes |
| 2 | | [1] | 0.0069 | 0.0307 | 0.0069 | 1:54:14 PM | Yes |
| Mean: | | [1] | 0.0069 | | | | |
| SD: | | 0.00 | 0.0000 | | | | |
| %RSD: | | 0.00% | 0.54% | | | | |

Standard number 3 applied. [1]
Correlation Coef.: 0.999733 Slope: 0.00683 Intercept: 0.00008

---

Sequence No.: 5 — Autosampler Location: 5
Sample ID: 2 PPB — Date Collected: 9/23/2021 1:54:17 PM
Analyst: — Data Type: Original

Replicate Data: 2 PPB — Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [2] | 0.0140 | 0.0618 | 0.0140 | 1:55:08 PM | Yes |
| 2 | | [2] | 0.0140 | 0.0619 | 0.0140 | 1:55:44 PM | Yes |
| Mean: | | [2] | 0.0140 | | | | |
| SD: | | 0.00 | 0.0000 | | | | |
| %RSD: | | 0.00% | 0.07% | | | | |

Standard number 4 applied. [2]
Correlation Coef.: 0.999910 Slope: 0.00694 Intercept: 0.00004

---

Sequence No.: 6 — Autosampler Location: 6
Sample ID: 5 PPB — Date Collected: 9/23/2021 1:55:48 PM
Analyst: — Data Type: Original

Replicate Data: 5 PPB — Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [5] | 0.0342 | 0.1509 | 0.0343 | 1:56:39 PM | Yes |
| 2 | | [5] | 0.0348 | 0.1526 | 0.0348 | 1:57:15 PM | Yes |
| Mean: | | [5] | 0.0345 | | | | |
| SD: | | 0.00 | 0.0004 | | | | |
| %RSD: | | 0.00% | 1.08% | | | | |

Standard number 5 applied. [5]
Correlation Coef.: 0.999983 Slope: 0.00689 Intercept: 0.00007

---

Sequence No.: 7 — Autosampler Location: 7
Sample ID: 10 PPB — Date Collected: 9/23/2021 1:57:19 PM
Analyst: — Data Type: Original

Replicate Data: 10 PPB — Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [10] | 0.0682 | 0.3020 | 0.0683 | 1:58:11 PM | Yes |
| 2 | | [10] | 0.0680 | 0.3008 | 0.0681 | 1:58:48 PM | Yes |
| Mean: | | [10] | 0.0681 | | | | |
| SD: | | 0.00 | 0.0001 | | | | |
| %RSD: | | 0.00% | 0.21% | | | | |

Standard number 6 applied. [10]
Correlation Coef.: 0.999978 Slope: 0.00681 Intercept: 0.00016

---

Sequence No.: 8 — Autosampler Location: 8
Sample ID: 25 PPB — Date Collected: 9/23/2021 1:59:15 PM
Analyst: — Data Type: Original

Replicate Data: 25 PPB — Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [25] | 0.1721 | 0.7598 | 0.1721 | 2:00:06 PM | Yes |
| 2 | | [25] | 0.1724 | 0.7537 | 0.1724 | 2:00:42 PM | Yes |
| Mean: | | [25] | 0.1722 | | | | |

SD: 0.00 0.0003
%RSD: 0.00% 0.16%
Standard number 7 applied. [25]
Correlation Coef.: 0.999988 Slope: 0.00688 Intercept: 0.00002

---

**Calibration data for Hg 253.7** **Equation: Linear, Calculated Intercept**

| ID | Mean Signal (Abs) | Entered Conc. ug/L | Calculated Conc. ug/L | Standard Deviation | %RSD |
|---|---|---|---|---|---|
| Calibration Blank | 0.0000 | 0 | -0.003 | 0.00 | 49.81 |
| .2 PPB | 0.0015 | 0.2 | 0.219 | 0.00 | 1.07 |
| .5 PPB | 0.0035 | 0.5 | 0.510 | 0.00 | 0.83 |
| 1 PPB | 0.0069 | 1.0 | 0.998 | 0.00 | 0.54 |
| 2 PPB | 0.0140 | 2.0 | 2.027 | 0.00 | 0.07 |
| 5 PPB | 0.0345 | 5.0 | 5.013 | 0.00 | 1.08 |
| 10 PPB | 0.0681 | 10.0 | 9.902 | 0.00 | 0.21 |
| 25 PPB | 0.1722 | 25.0 | 25.034 | 0.00 | 0.16 |

Correlation Coef.: 0.999988 Slope: 0.00688 Intercept: 0.00002

==========

**Sequence No.: 9** **Autosampler Location: 10**
**Sample ID: ICV (2)** **Date Collected: 9/23/2021 2:01:09 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: ICV (2)** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 19.97 | 19.97 | 0.1374 | 0.6058 | 0.1374 | 2:02:01 PM | Yes |
| 2 | 19.86 | 19.86 | 0.1367 | 0.5991 | 0.1367 | 2:02:38 PM | Yes |
| Mean: | 19.92 | 19.92 | 0.1370 | | | | |
| SD: | 0.079 | 0.079 | 0.0005 | | | | |
| %RSD: | 0.40% | 0.40% | 0.40% | | | | |

QC value within limits for Hg 253.7 Recovery = 99.59%
All analyte(s) passed QC.

==========

**Sequence No.: 10** **Autosampler Location: 1**
**Sample ID: ICB** **Date Collected: 9/23/2021 2:03:05 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: ICB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.006 | -0.006 | -0.0000 | -0.0007 | -0.0000 | 2:03:56 PM | Yes |
| 2 | -0.001 | -0.001 | 0.0000 | -0.0004 | 0.0000 | 2:04:33 PM | Yes |
| Mean: | -0.004 | -0.004 | -0.0000 | | | | |
| SD: | 0.0033 | 0.0033 | 0.0000 | | | | |
| %RSD: | 91.10% | 91.10% | 312.54% | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

**Sequence No.: 11** **Autosampler Location: 11**
**Sample ID: MB 94427 (1)** **Date Collected: 9/23/2021 2:04:36 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: MB 94427 (1)** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.001 | -0.001 | 0.0000 | -0.0000 | 0.0000 | 2:05:28 PM | Yes |
| 2 | -0.004 | -0.004 | -0.0000 | -0.0003 | 0.0000 | 2:06:05 PM | Yes |
| Mean: | -0.003 | -0.003 | -0.0000 | | | | |
| SD: | 0.0020 | 0.0020 | 0.0000 | | | | |
| %RSD: | 73.40% | 73.40% | 992.51% | | | | |

==========

**Sequence No.: 12** **Autosampler Location: 12**
**Sample ID: LCS 94427** **Date Collected: 9/23/2021 2:06:08 PM**
**Analyst:** **Data Type: Original**

Replicate Data: LCS 94427 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 9.918 | 9.918 | 0.0683 | 0.2971 | 0.0683 | 2:06:59 PM | Yes |
| 2 | 9.936 | 9.936 | 0.0684 | 0.3010 | 0.0684 | 2:07:36 PM | Yes |
| Mean: | 9.927 | 9.927 | 0.0683 | | | | |
| SD: | 0.0129 | 0.0129 | 0.0001 | | | | |
| %RSD: | 0.13% | 0.13% | 0.13% | | | | |

Sequence No.: 13 Autosampler Location: 13
Sample ID: LCS 94427 MR Date Collected: 9/23/2021 2:08:04 PM
Analyst: Data Type: Original

Replicate Data: LCS 94427 MR Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 9.850 | 9.850 | 0.0678 | 0.2947 | 0.0678 | 2:08:56 PM | Yes |
| 2 | 9.906 | 9.906 | 0.0682 | 0.2974 | 0.0682 | 2:09:33 PM | Yes |
| Mean: | 9.878 | 9.878 | 0.0680 | | | | |
| SD: | 0.0392 | 0.0392 | 0.0003 | | | | |
| %RSD: | 0.40% | 0.40% | 0.40% | | | | |

Sequence No.: 14 Autosampler Location: 14
Sample ID: AD26083-048 Date Collected: 9/23/2021 2:10:02 PM
Analyst: Data Type: Original

Replicate Data: AD26083-048 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.007 | -0.007 | -0.0000 | -0.0006 | -0.0000 | 2:10:53 PM | Yes |
| 2 | -0.005 | -0.005 | -0.0000 | -0.0007 | -0.0000 | 2:11:30 PM | Yes |
| Mean: | -0.006 | -0.006 | -0.0000 | | | | |
| SD: | 0.0013 | 0.0013 | 0.0000 | | | | |
| %RSD: | 22.53% | 22.53% | 40.84% | | | | |

Sequence No.: 15 Autosampler Location: 15
Sample ID: AD26083- MR * NS 9/23/21 Date Collected: 9/23/2021 2:11:34 PM
Analyst: AD26083-048 MR Data Type: Original

Replicate Data: AD26083- MR * Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.003 | -0.003 | -0.0000 | -0.0005 | 0.0000 | 2:12:25 PM | Yes |
| 2 | -0.003 | -0.003 | -0.0000 | -0.0004 | 0.0000 | 2:13:01 PM | Yes |
| Mean: | -0.003 | -0.003 | -0.0000 | | | | |
| SD: | 0.0002 | 0.0002 | 0.0000 | | | | |
| %RSD: | 7.36% | 7.36% | 116.27% | | | | |

Sequence No.: 16 Autosampler Location: 16
Sample ID: AD26083-049 MS 1 Date Collected: 9/23/2021 2:13:05 PM
Analyst: Data Type: Original

Replicate Data: AD26083-049 MS 1 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 6.446 | 6.446 | 0.0444 | 0.2020 | 0.0444 | 2:13:56 PM | Yes |
| 2 | 6.430 | 6.430 | 0.0443 | 0.2009 | 0.0443 | 2:14:33 PM | Yes |
| Mean: | 6.438 | 6.438 | 0.0443 | | | | |
| SD: | 0.0113 | 0.0113 | 0.0001 | | | | |
| %RSD: | 0.18% | 0.18% | 0.18% | | | | |

Sequence No.: 17 Autosampler Location: 17
Sample ID: AD26083-050 MS 2 Date Collected: 9/23/2021 2:14:36 PM
Analyst: Data Type: Original

Replicate Data: AD26083-050 MS 2 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 6.403 | 6.403 | 0.0441 | 0.1969 | 0.0441 | 2:15:27 PM | Yes |
| 2 | 6.364 | 6.364 | 0.0438 | 0.1965 | 0.0438 | 2:16:04 PM | Yes |
| Mean: | 6.384 | 6.384 | 0.0439 | | | | |
| SD: | 0.0270 | 0.0270 | 0.0002 | | | | |
| %RSD: | 0.42% | 0.42% | 0.42% | | | | |

Sequence No.: 18 Autosampler Location: 18
Sample ID: AD26083-001 Date Collected: 9/23/2021 2:16:08 PM
Analyst: Data Type: Original

Replicate Data: AD26083-001 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.006 | -0.006 | -0.0000 | -0.0008 | -0.0000 | 2:16:58 PM | Yes |
| 2 | -0.005 | -0.005 | -0.0000 | -0.0007 | -0.0000 | 2:17:35 PM | Yes |
| Mean: | -0.005 | -0.005 | -0.0000 | | | | |
| SD: | 0.0003 | 0.0003 | 0.0000 | | | | |
| %RSD: | 5.20% | 5.20% | 9.90% | | | | |

Sequence No.: 19 Autosampler Location: 19
Sample ID: AD26083-002 Date Collected: 9/23/2021 2:17:38 PM
Analyst: Data Type: Original

Replicate Data: AD26083-002 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.006 | -0.006 | -0.0000 | -0.0007 | -0.0000 | 2:18:29 PM | Yes |
| 2 | -0.002 | -0.002 | 0.0000 | -0.0005 | 0.0000 | 2:19:05 PM | Yes |
| Mean: | -0.004 | -0.004 | -0.0000 | | | | |
| SD: | 0.0025 | 0.0025 | 0.0000 | | | | |
| %RSD: | 64.85% | 64.85% | 184.91% | | | | |

Sequence No.: 20 Autosampler Location: 20
Sample ID: AD26083-005 Date Collected: 9/23/2021 2:19:08 PM
Analyst: Data Type: Original

Replicate Data: AD26083-005 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.005 | -0.005 | -0.0000 | -0.0007 | -0.0000 | 2:19:59 PM | Yes |
| 2 | -0.004 | -0.004 | -0.0000 | -0.0004 | 0.0000 | 2:20:35 PM | Yes |
| Mean: | -0.005 | -0.005 | -0.0000 | | | | |
| SD: | 0.0008 | 0.0008 | 0.0000 | | | | |
| %RSD: | 16.45% | 16.45% | 36.19% | | | | |

Sequence No.: 21 Autosampler Location: 9
Sample ID: CCV Date Collected: 9/23/2021 2:20:39 PM
Analyst: Data Type: Original

Replicate Data: CCV Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 9.123 | 9.123 | 0.0628 | 0.2706 | 0.0628 | 2:21:31 PM | Yes |
| 2 | 9.205 | 9.205 | 0.0633 | 0.2717 | 0.0634 | 2:22:08 PM | Yes |
| Mean: | 9.164 | 9.164 | 0.0631 | | | | |
| SD: | 0.0582 | 0.0582 | 0.0004 | | | | |
| %RSD: | 0.64% | 0.64% | 0.64% | | | | |

QC value within limits for Hg 253.7 Recovery = 91.64%
All analyte(s) passed QC.

Sequence No.: 22 Autosampler Location: 1
Sample ID: CCB Date Collected: 9/23/2021 2:22:36 PM
Analyst: Data Type: Original

Replicate Data: CCB Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.008 | -0.008 | -0.0000 | -0.0011 | -0.0000 | 2:23:26 PM | Yes |
| 2 | -0.007 | -0.007 | -0.0000 | -0.0010 | -0.0000 | 2:24:03 PM | Yes |
| Mean: | -0.007 | -0.007 | -0.0000 | | | | |
| SD: | 0.0007 | 0.0007 | 0.0000 | | | | |
| %RSD: | 8.90% | 8.90% | 13.53% | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 23 Autosampler Location: 21
Sample ID: AD26083-008 Date Collected: 9/23/2021 2:24:07 PM
Analyst: Data Type: Original

Replicate Data: AD26083-008 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.017 | 0.017 | 0.0001 | 0.0001 | 0.0002 | 2:24:59 PM | Yes |
| 2 | 0.006 | 0.006 | 0.0001 | -0.0005 | 0.0001 | 2:25:35 PM | Yes |
| Mean: | 0.012 | 0.012 | 0.0001 | | | | |
| SD: | 0.0081 | 0.0081 | 0.0001 | | | | |
| %RSD: | 69.76% | 69.76% | 57.23% | | | | |

Sequence No.: 24 Autosampler Location: 22
Sample ID: AD26083-009 Date Collected: 9/23/2021 2:25:39 PM
Analyst: Data Type: Original

Replicate Data: AD26083-009 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.009 | -0.009 | -0.0000 | -0.0011 | -0.0000 | 2:26:30 PM | Yes |
| 2 | -0.005 | -0.005 | -0.0000 | -0.0005 | 0.0000 | 2:27:06 PM | Yes |
| Mean: | -0.007 | -0.007 | -0.0000 | | | | |
| SD: | 0.0030 | 0.0030 | 0.0000 | | | | |
| %RSD: | 44.91% | 44.91% | 71.77% | | | | |

Sequence No.: 25 Autosampler Location: 23
Sample ID: AD26083-011 Date Collected: 9/23/2021 2:27:10 PM
Analyst: Data Type: Original

Replicate Data: AD26083-011 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.005 | -0.005 | -0.0000 | -0.0005 | -0.0000 | 2:28:01 PM | Yes |
| 2 | -0.006 | -0.006 | -0.0000 | -0.0005 | -0.0000 | 2:28:38 PM | Yes |
| Mean: | -0.005 | -0.005 | -0.0000 | | | | |
| SD: | 0.0000 | 0.0000 | 0.0000 | | | | |
| %RSD: | 0.72% | 0.72% | 1.34% | | | | |

Sequence No.: 26 Autosampler Location: 24
Sample ID: AD26083-018 Date Collected: 9/23/2021 2:28:41 PM
Analyst: Data Type: Original

Replicate Data: AD26083-018 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.002 | 0.002 | 0.0000 | -0.0003 | 0.0000 | 2:29:32 PM | Yes |
| 2 | 0.004 | 0.004 | 0.0000 | -0.0001 | 0.0001 | 2:30:08 PM | Yes |
| Mean: | 0.003 | 0.003 | 0.0000 | | | | |
| SD: | 0.0020 | 0.0020 | 0.0000 | | | | |

%RSD: 65.90% 65.90% 36.09%

Sequence No.: 27 Autosampler Location: 25
Sample ID: AD26083-026 Date Collected: 9/23/2021 2:30:12 PM
Analyst: Data Type: Original

Replicate Data: AD26083-026 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.007 | -0.007 | -0.0000 | -0.0006 | -0.0000 | 2:31:03 PM | Yes |
| 2 | -0.004 | -0.004 | -0.0000 | -0.0004 | 0.0000 | 2:31:40 PM | Yes |
| Mean: | -0.005 | -0.005 | -0.0000 | | | | |
| SD: | 0.0019 | 0.0019 | 0.0000 | | | | |
| %RSD: | 36.74% | 36.74% | 71.12% | | | | |

Sequence No.: 28 Autosampler Location: 26
Sample ID: AD26083-027 Date Collected: 9/23/2021 2:31:43 PM
Analyst: Data Type: Original

Replicate Data: AD26083-027 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.006 | 0.006 | 0.0001 | -0.0002 | 0.0001 | 2:32:34 PM | Yes |
| 2 | 0.004 | 0.004 | 0.0000 | -0.0002 | 0.0001 | 2:33:11 PM | Yes |
| Mean: | 0.005 | 0.005 | 0.0001 | | | | |
| SD: | 0.0013 | 0.0013 | 0.0000 | | | | |
| %RSD: | 23.99% | 23.99% | 16.24% | | | | |

Sequence No.: 29 Autosampler Location: 27
Sample ID: AD26083-032 Date Collected: 9/23/2021 2:33:15 PM
Analyst: Data Type: Original

Replicate Data: AD26083-032 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.004 | -0.004 | -0.0000 | -0.0003 | 0.0000 | 2:34:05 PM | Yes |
| 2 | -0.006 | -0.006 | -0.0000 | -0.0006 | -0.0000 | 2:34:42 PM | Yes |
| Mean: | -0.005 | -0.005 | -0.0000 | | | | |
| SD: | 0.0019 | 0.0019 | 0.0000 | | | | |
| %RSD: | 39.60% | 39.60% | 81.85% | | | | |

Sequence No.: 30 Autosampler Location: 28
Sample ID: AD26083-033 Date Collected: 9/23/2021 2:34:46 PM
Analyst: Data Type: Original

Replicate Data: AD26083-033 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.005 | -0.005 | -0.0000 | -0.0005 | -0.0000 | 2:35:38 PM | Yes |
| 2 | -0.005 | -0.005 | -0.0000 | -0.0004 | 0.0000 | 2:36:14 PM | Yes |
| Mean: | -0.005 | -0.005 | -0.0000 | | | | |
| SD: | 0.0005 | 0.0005 | 0.0000 | | | | |
| %RSD: | 9.43% | 9.43% | 19.35% | | | | |

Sequence No.: 31 Autosampler Location: 29
Sample ID: AD26083-035 Date Collected: 9/23/2021 2:36:18 PM
Analyst: Data Type: Original

Replicate Data: AD26083-035 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.005 | -0.005 | -0.0000 | -0.0006 | -0.0000 | 2:37:09 PM | Yes |
| 2 | -0.003 | -0.003 | -0.0000 | -0.0003 | 0.0000 | 2:37:45 PM | Yes |
| Mean: | -0.004 | -0.004 | -0.0000 | | | | |

| | | | |
|---|---|---|---|
| SD: | 0.0017 | 0.0017 | 0.0000 |
| %RSD: | 44.71% | 44.71% | 127.95% |

**Sequence No.: 32** **Autosampler Location: 9**
**Sample ID: CCV** **Date Collected: 9/23/2021 2:37:49 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: CCV** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 9.147 | 9.147 | 0.0629 | 0.2718 | 0.0630 | 2:38:41 PM | Yes |
| 2 | 9.063 | 9.063 | 0.0624 | 0.2687 | 0.0624 | 2:39:17 PM | Yes |
| Mean: | 9.105 | 9.105 | 0.0627 | | | | |
| SD: | 0.0593 | 0.0593 | 0.0004 | | | | |
| %RSD: | 0.65% | 0.65% | 0.65% | | | | |

QC value within limits for Hg 253.7 Recovery = 91.05%
All analyte(s) passed QC.

**Sequence No.: 33** **Autosampler Location: 1**
**Sample ID: CCB** **Date Collected: 9/23/2021 2:39:45 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: CCB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.100 | 0.100 | 0.0007 | 0.0020 | 0.0007 | 2:40:36 PM | Yes |
| 2 | 0.003 | 0.003 | 0.0000 | -0.0004 | 0.0001 | 2:41:12 PM | Yes |
| Mean: | 0.052 | 0.052 | 0.0004 | | | | |
| SD: | 0.0687 | 0.0687 | 0.0005 | | | | |
| %RSD: | 132.73% | 132.73% | 126.55% | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Method: PE2 4300DV SWAQ AX Page: 1 Date: 9/29/2021 10:05:42 AM

SW27669C2 27688 / 27669/27670/27671 SW846

Analysis Begun

Start Time: 9/29/2021 10:02:00 AM
Logged In Analyst: shiamala
Spectrometer Model: Optima 4300 DV, S/N 069N-na

Plasma On Time: 9/29/2021 9:44:10 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\administrator\Sample Information\09.29.21.sif
Batch ID:
Results Data Set: SW27669C2
Results Library: C:\pe\administrator\Results\Results.mdb

10/6/21

Sequence No.: 1
Sample ID: CALBLK V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/29/2021 10:02:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-352951

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 810144.2 | 4222.16 | 0.52% | 100 | % |
| Y 371.029 | 850009.3 | 5577.21 | 0.66% | 100 | % |
| Ag 328.068† | -575.3 | 10.61 | 1.84% | [0.00] | mg/L |
| Al 308.215† | 10512.6 | 66.55 | 0.63% | [0.00] | mg/L |
| As 188.979† | 57.0 | 3.52 | 6.18% | [0.00] | mg/L |
| Ba 233.527† | -1174.3 | 5.58 | 0.47% | [0.00] | mg/L |
| Be 313.107† | 2782.6 | 92.94 | 3.34% | [0.00] | mg/L |
| Ca 315.887† | 5610.9 | 122.85 | 2.19% | [0.00] | mg/L |
| Cd 228.802† | 32.1 | 22.54 | 70.16% | [0.00] | mg/L |
| Co 228.616† | 93.2 | 2.04 | 2.19% | [0.00] | mg/L |
| Cr 267.716† | -1258.8 | 20.24 | 1.61% | [0.00] | mg/L |
| Cu 327.393† | -6497.0 | 50.00 | 0.77% | [0.00] | mg/L |
| Fe 273.955† | -858.8 | 7.72 | 0.90% | [0.00] | mg/L |
| K 404.721† | 4362.3 | 84.01 | 1.93% | [0.00] | mg/L |
| Mg 279.077† | -1830.3 | 112.31 | 6.14% | [0.00] | mg/L |
| Mn 257.610† | 647.6 | 74.93 | 11.57% | [0.00] | mg/L |
| Mo 202.031† | 196.3 | 4.51 | 2.30% | [0.00] | mg/L |
| Na 330.237† | -3395.6 | 75.04 | 2.21% | [0.00] | mg/L |
| Ni 231.604† | 1126.8 | 3.97 | 0.35% | [0.00] | mg/L |
| Pb 220.353† | -332.9 | 1.34 | 0.40% | [0.00] | mg/L |
| Sb 206.836† | -322.6 | 2.97 | 0.92% | [0.00] | mg/L |
| Se 196.026† | -18.9 | 3.63 | 19.23% | [0.00] | mg/L |
| Sn 189.927† | -66.0 | 4.40 | 6.66% | [0.00] | mg/L |
| Ti 334.940† | 1303.0 | 54.28 | 4.17% | [0.00] | mg/L |
| Tl 190.801† | -7.4 | 2.56 | 34.45% | [0.00] | mg/L |
| V 290.880† | 4404.0 | 85.39 | 1.94% | [0.00] | mg/L |
| Zn 206.200† | 233.9 | 10.17 | 4.35% | [0.00] | mg/L |
| Si 251.611† | 1391.0 | 101.83 | 7.32% | [0.00] | mg/L |
| B 249.772† | 446.4 | 43.14 | 9.66% | [0.00] | mg/L |
| Ce 413.764 | 2039.4 | 30.97 | 1.52% | [0.00] | mg/L |

~~267~~ 27670/94428

All Reported

Al K Na NOT Reported

26083-037 (100)

Ca Mg Reported

Sequence No.: 2
Sample ID: CALST2 V-352961
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 9/29/2021 10:06:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-352961

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 798485.2 | 15414.63 | 1.93% | 98.6 | % |
| Y 371.029 | 829959.3 | 15076.36 | 1.82% | 97.6 | % |
| Ag 328.068† | 3586.7 | 85.52 | 2.38% | [0.02] | mg/L |
| Al 308.215† | 6575.6 | 239.76 | 3.65% | [0.2] | mg/L |
| As 188.979† | 54.1 | 3.20 | 5.92% | [0.040] | mg/L |
| Ba 233.527† | 4901.1 | 71.98 | 1.47% | [0.050] | mg/L |
| Be 313.107† | 38636.4 | 680.04 | 1.76% | [0.012] | mg/L |
| Ca 315.887† | 702305.9 | 12390.86 | 1.76% | [5] | mg/L |
| Cd 228.802† | 570.4 | 1.25 | 0.22% | [0.012] | mg/L |
| Co 228.616† | 678.2 | 9.02 | 1.33% | [0.020] | mg/L |
| Cr 267.716† | 5924.3 | 87.53 | 1.48% | [0.050] | mg/L |
| Cu 327.393† | 5984.0 | 27.99 | 0.47% | [0.050] | mg/L |
| Fe 273.955† | 9480.1 | 223.28 | 2.36% | [0.30] | mg/L |
| K 404.721† | 1090.2 | 111.30 | 10.21% | [5.0] | mg/L |
| Mg 279.077† | 135566.1 | 2272.75 | 1.68% | [5.0] | mg/L |
| Mn 257.610† | 34270.4 | 641.75 | 1.87% | [0.040] | mg/L |
| Mo 202.031† | 259.5 | 9.74 | 3.76% | [0.020] | mg/L |
| Na 330.237† | 6112.7 | 140.90 | 2.31% | [5.0] | mg/L |
| Ni 231.604† | 1736.3 | 37.75 | 2.17% | [0.050] | mg/L |
| Pb 220.353† | 197.4 | 9.68 | 4.90% | [0.050] | mg/L |
| Sb 206.836† | 57.7 | 4.84 | 8.39% | [0.050] | mg/L |
| Se 196.026† | 54.8 | 5.83 | 10.63% | [0.050] | mg/L |
| Sn 189.927† | 206.0 | 6.76 | 3.28% | [0.050] | mg/L |
| Ti 334.940† | 43228.6 | 846.13 | 1.96% | [0.050] | mg/L |
| Tl 190.801† | 42.4 | 0.29 | 0.68% | [0.050] | mg/L |
| V 290.880† | 7934.6 | 126.79 | 1.60% | [0.050] | mg/L |
| Zn 206.200† | 2495.9 | 37.31 | 1.50% | [0.050] | mg/L |
| Si 251.611† | 20518.1 | 395.84 | 1.93% | [0.2] | mg/L |
| B 249.772† | 19802.9 | 496.45 | 2.51% | [0.20] | mg/L |
| Ce 413.764 | 12146.6 | 51.70 | 0.43% | [0.2] | mg/L |

Sequence No.: 3
Sample ID: CALST3 V-352955
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 9/29/2021 10:10:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-352955

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 765978.7 | 1294.78 | 0.17% | 94.5 | % |
| Y 371.029 | 786031.5 | 1790.58 | 0.23% | 92.5 | % |
| Ag 328.068† | 17467.9 | 112.48 | 0.64% | [0.10] | mg/L |
| Al 308.215† | 152055.2 | 813.88 | 0.54% | [5.0] | mg/L |
| As 188.979† | 657.4 | 0.34 | 0.05% | [0.50] | mg/L |
| Ba 233.527† | 47417.9 | 254.01 | 0.54% | [0.50] | mg/L |
| Be 313.107† | 1587539.2 | 2380.14 | 0.15% | [0.50] | mg/L |
| Ca 315.887† | 6692676.9 | 8010.23 | 0.12% | [50] | mg/L |
| Cd 228.802† | 23909.5 | 37.54 | 0.16% | [0.50] | mg/L |
| Co 228.616† | 15759.3 | 14.12 | 0.09% | [0.50] | mg/L |
| Cr 267.716† | 57891.4 | 407.70 | 0.70% | [0.50] | mg/L |
| Cu 327.393† | 57519.8 | 486.80 | 0.85% | [0.50] | mg/L |
| Fe 273.955† | 148131.1 | 1020.38 | 0.69% | [5.0] | mg/L |
| K 404.721† | 6400.0 | 106.67 | 1.67% | [50] | mg/L |
| Mg 279.077† | 1241547.5 | 2895.66 | 0.23% | [50] | mg/L |
| Mn 257.610† | 409339.2 | 2700.75 | 0.66% | [0.50] | mg/L |
| Mo 202.031† | 6382.1 | 20.61 | 0.32% | [0.50] | mg/L |
| Na 330.237† | 66067.2 | 357.07 | 0.54% | [50] | mg/L |
| Ni 231.604† | 16217.5 | 48.53 | 0.30% | [0.50] | mg/L |
| Pb 220.353† | 1966.3 | 8.87 | 0.45% | [0.50] | mg/L |
| Sb 206.836† | 587.2 | 4.17 | 0.71% | [0.50] | mg/L |
| Se 196.026† | 500.6 | 4.31 | 0.86% | [0.50] | mg/L |
| Sn 189.927† | 2056.4 | 4.46 | 0.22% | [0.50] | mg/L |
| Ti 334.940† | 422948.6 | 2472.95 | 0.58% | [0.50] | mg/L |
| Tl 190.801† | 427.9 | 3.93 | 0.92% | [0.50] | mg/L |
| V 290.880† | 79523.1 | 452.17 | 0.57% | [0.50] | mg/L |
| Zn 206.200† | 24713.0 | 35.13 | 0.14% | [0.50] | mg/L |
| Si 251.611† | 223167.0 | 1359.59 | 0.61% | [5] | mg/L |
| B 249.772† | 48562.9 | 641.09 | 1.32% | [0.50] | mg/L |
| Ce 413.764 | 27330.6 | 122.63 | 0.45% | [0.5] | mg/L |

Sequence No.: 4
Sample ID: CALST4 V-352956
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 9/29/2021 10:14:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-352956

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 725784.9 | 26375.14 | 3.63% | 89.6 | % |
| Y 371.029 | 740369.4 | 26942.13 | 3.64% | 87.1 | % |
| Ag 328.068† | 35813.5 | 1402.50 | 3.92% | [0.20] | mg/L |
| Al 308.215† | 309480.8 | 12667.40 | 4.09% | [10] | mg/L |
| As 188.979† | 1362.9 | 44.58 | 3.27% | [1.0] | mg/L |
| Ba 233.527† | 96791.9 | 3803.86 | 3.93% | [1.0] | mg/L |
| Be 313.107† | 3302385.0 | 159821.11 | 4.84% | [1.0] | mg/L |
| Ca 315.887† | 13844292.4 | 667142.84 | 4.82% | [100] | mg/L |
| Cd 228.802† | 49477.3 | 1901.16 | 3.84% | [1.0] | mg/L |
| Co 228.616† | 31921.2 | 1070.40 | 3.35% | [1.0] | mg/L |
| Cr 267.716† | 118053.8 | 4610.08 | 3.91% | [1.0] | mg/L |
| Cu 327.393† | 117248.5 | 4254.95 | 3.63% | [1.0] | mg/L |
| Fe 273.955† | 301180.8 | 11973.19 | 3.98% | [10] | mg/L |
| K 404.721† | 13984.0 | 696.72 | 4.98% | [100] | mg/L |
| Mg 279.077† | 2528560.8 | 97838.11 | 3.87% | [100] | mg/L |
| Mn 257.610† | 834962.7 | 33143.92 | 3.97% | [1.0] | mg/L |
| Mo 202.031† | 13027.6 | 444.36 | 3.41% | [1.0] | mg/L |
| Na 330.237† | 143372.8 | 5691.57 | 3.97% | [100] | mg/L |
| Ni 231.604† | 33142.0 | 1300.50 | 3.92% | [1.0] | mg/L |
| Pb 220.353† | 4001.3 | 129.20 | 3.23% | [1.0] | mg/L |
| Sb 206.836† | 1216.8 | 32.01 | 2.63% | [1.0] | mg/L |
| Se 196.026† | 1031.6 | 34.25 | 3.32% | [1.0] | mg/L |
| Sn 189.927† | 4113.4 | 138.37 | 3.36% | [1.0] | mg/L |
| Ti 334.940† | 875951.6 | 35506.19 | 4.05% | [1.0] | mg/L |
| Tl 190.801† | 878.5 | 32.09 | 3.65% | [1.0] | mg/L |
| V 290.880† | 164153.8 | 6572.90 | 4.00% | [1.0] | mg/L |
| Zn 206.200† | 50860.9 | 1937.80 | 3.81% | [1.0] | mg/L |
| Si 251.611† | 456904.2 | 17937.40 | 3.93% | [10] | mg/L |
| B 249.772† | 101251.4 | 4658.42 | 4.60% | [1.0] | mg/L |
| Ce 413.764 | 51819.0 | 348.27 | 0.67% | [1] | mg/L |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| Ag 328.068 | 3 | Lin, Calc Int | -79.0 | 178700 | 0.00000 | 0.999910 | |
| Al 308.215 | 3 | Lin, Calc Int | -314.4 | 30880 | 0.00000 | 0.999955 | |
| As 188.979 | 3 | Lin, Calc Int | -4.6 | 1359 | 0.00000 | 0.999829 | |
| Ba 233.527 | 3 | Lin, Calc Int | -151.4 | 96590 | 0.00000 | 0.999940 | |
| Be 313.107 | 3 | Lin, Calc Int | -12038.0 | 3291000 | 0.00000 | 0.999801 | |
| Ca 315.887 | 3 | Lin, Calc Int | -37474.3 | 138000 | 0.00000 | 0.999841 | |
| Cd 228.802 | 3 | Lin, Calc Int | -161.5 | 49340 | 0.00000 | 0.999851 | |
| Co 228.616 | 3 | Lin, Calc Int | -18.7 | 31860 | 0.00000 | 0.999976 | |
| Cr 267.716 | 3 | Lin, Calc Int | -198.2 | 117800 | 0.00000 | 0.999947 | |
| Cu 327.393 | 3 | Lin, Calc Int | -147.5 | 117000 | 0.00000 | 0.999947 | |
| Fe 273.955 | 3 | Lin, Calc Int | -247.5 | 30050 | 0.00000 | 0.999959 | |
| K 404.721 | 3 | Lin, Calc Int | 67.8 | 136.8 | 0.00000 | 0.998231 | |
| Mg 279.077 | 3 | Lin, Calc Int | -45.2 | 25200 | 0.00000 | 0.999939 | |
| Mn 257.610 | 3 | Lin, Calc Int | -1094.5 | 833100 | 0.00000 | 0.999944 | |
| Mo 202.031 | 3 | Lin, Calc Int | -24.5 | 13000 | 0.00000 | 0.999945 | |
| Na 330.237 | 3 | Lin, Calc Int | -1504.8 | 1429 | 0.00000 | 0.999196 | |
| Ni 231.604 | 3 | Lin, Calc Int | -29.1 | 33040 | 0.00000 | 0.999926 | |
| Pb 220.353 | 3 | Lin, Calc Int | -7.5 | 3997 | 0.00000 | 0.999960 | |
| Sb 206.836 | 3 | Lin, Calc Int | -5.3 | 1215 | 0.00000 | 0.999840 | |
| Se 196.026 | 3 | Lin, Calc Int | -1.3 | 1027 | 0.00000 | 0.999859 | |
| Sn 189.927 | 3 | Lin, Calc Int | 0.1 | 4113 | 0.00000 | 1.000000 | |
| Ti 334.940 | 3 | Lin, Calc Int | -3008.2 | 873700 | 0.00000 | 0.999837 | |
| Tl 190.801 | 3 | Lin, Calc Int | -2.8 | 877.3 | 0.00000 | 0.999911 | |
| V 290.880 | 3 | Lin, Calc Int | -590.7 | 163900 | 0.00000 | 0.999870 | |
| Zn 206.200 | 3 | Lin, Calc Int | -152.6 | 50760 | 0.00000 | 0.999892 | |
| Si 251.611 | 3 | Lin, Calc Int | 4195.8 | 44990 | 0.00000 | 0.999578 | |
| B 249.772 | 3 | Lin, Calc Int | -587.1 | 101200 | 0.00000 | 0.999753 | |
| Ce 413.764 | 3 | Lin, Calc Int | 1021.6 | 51300 | 0.00000 | 0.999171 | |

Sequence No.: 5
Sample ID: ICV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 10:20:24 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 755261.0 | 93.2 | % | 0.07 | | | | 0.07% |
| Y 371.029 | 765113.4 | 90.0 | % | 1.41 | | | | 1.57% |
| Ag 328.068† | 17323.4 | 0.0980900 | mg/L | 0.00032460 | 0.0980900 | mg/L | 0.00032460 | 0.33% |
| QC value within limits for Ag 328.068 Recovery = 98.09% | | | | | | | | |
| Al 308.215† | 152959.1 | 4.96359 | mg/L | 0.021278 | 4.96359 | mg/L | 0.021278 | 0.43% |
| QC value within limits for Al 308.215 Recovery = 99.27% | | | | | | | | |
| As 188.979† | 667.2 | 0.494006 | mg/L | 0.0037698 | 0.494006 | mg/L | 0.0037698 | 0.76% |
| QC value within limits for As 188.979 Recovery = 98.80% | | | | | | | | |
| Ba 233.527† | 47627.3 | 0.494649 | mg/L | 0.0026626 | 0.494649 | mg/L | 0.0026626 | 0.54% |
| QC value within limits for Ba 233.527 Recovery = 98.93% | | | | | | | | |
| Be 313.107† | 1592585.3 | 0.487509 | mg/L | 0.0000872 | 0.487509 | mg/L | 0.0000872 | 0.02% |
| QC value within limits for Be 313.107 Recovery = 97.50% | | | | | | | | |
| Ca 315.887† | 6707514.1 | 48.8786 | mg/L | 0.03829 | 48.8786 | mg/L | 0.03829 | 0.08% |
| QC value within limits for Ca 315.887 Recovery = 97.76% | | | | | | | | |
| Cd 228.802† | 24005.3 | 0.495783 | mg/L | 0.0018614 | 0.495783 | mg/L | 0.0018614 | 0.38% |
| QC value within limits for Cd 228.802 Recovery = 99.16% | | | | | | | | |
| Co 228.616† | 15814.0 | 0.497035 | mg/L | 0.0011520 | 0.497035 | mg/L | 0.0011520 | 0.23% |
| QC value within limits for Co 228.616 Recovery = 99.41% | | | | | | | | |
| Cr 267.716† | 58316.3 | 0.496531 | mg/L | 0.0025901 | 0.496531 | mg/L | 0.0025901 | 0.52% |
| QC value within limits for Cr 267.716 Recovery = 99.31% | | | | | | | | |
| Cu 327.393† | 57980.1 | 0.496857 | mg/L | 0.0029061 | 0.496857 | mg/L | 0.0029061 | 0.58% |
| QC value within limits for Cu 327.393 Recovery = 99.37% | | | | | | | | |
| Fe 273.955† | 148702.2 | 4.95655 | mg/L | 0.024906 | 4.95655 | mg/L | 0.024906 | 0.50% |
| QC value within limits for Fe 273.955 Recovery = 99.13% | | | | | | | | |
| K 404.721† | 6520.8 | 47.1730 | mg/L | 0.64210 | 47.1730 | mg/L | 0.64210 | 1.36% |
| QC value within limits for K 404.721 Recovery = 94.35% | | | | | | | | |
| Mg 279.077† | 1242422.7 | 49.3061 | mg/L | 0.02866 | 49.3061 | mg/L | 0.02866 | 0.06% |
| QC value within limits for Mg 279.077 Recovery = 98.61% | | | | | | | | |
| Mn 257.610† | 411568.8 | 0.495344 | mg/L | 0.0024572 | 0.495344 | mg/L | 0.0024572 | 0.50% |
| QC value within limits for Mn 257.610 Recovery = 99.07% | | | | | | | | |
| Mo 202.031† | 6431.5 | 0.496820 | mg/L | 0.0011730 | 0.496820 | mg/L | 0.0011730 | 0.24% |
| QC value within limits for Mo 202.031 Recovery = 99.36% | | | | | | | | |
| Na 330.237† | 66288.9 | 47.4249 | mg/L | 0.19488 | 47.4249 | mg/L | 0.19488 | 0.41% |
| QC value within limits for Na 330.237 Recovery = 94.85% | | | | | | | | |
| Ni 231.604† | 16324.5 | 0.494962 | mg/L | 0.0017827 | 0.494962 | mg/L | 0.0017827 | 0.36% |
| QC value within limits for Ni 231.604 Recovery = 98.99% | | | | | | | | |
| Pb 220.353† | 1964.9 | 0.497502 | mg/L | 0.0027575 | 0.497502 | mg/L | 0.0027575 | 0.55% |
| QC value within limits for Pb 220.353 Recovery = 99.50% | | | | | | | | |
| Sb 206.836† | 582.1 | 0.488922 | mg/L | 0.0051331 | 0.488922 | mg/L | 0.0051331 | 1.05% |
| QC value within limits for Sb 206.836 Recovery = 97.78% | | | | | | | | |
| Se 196.026† | 497.0 | 0.484620 | mg/L | 0.0053411 | 0.484620 | mg/L | 0.0053411 | 1.10% |
| QC value within limits for Se 196.026 Recovery = 96.92% | | | | | | | | |
| Sn 189.927† | 2042.2 | 0.496482 | mg/L | 0.0030073 | 0.496482 | mg/L | 0.0030073 | 0.61% |
| QC value within limits for Sn 189.927 Recovery = 99.30% | | | | | | | | |
| Ti 334.940† | 425838.0 | 0.490866 | mg/L | 0.0024687 | 0.490866 | mg/L | 0.0024687 | 0.50% |
| QC value within limits for Ti 334.940 Recovery = 98.17% | | | | | | | | |
| Tl 190.801† | 431.4 | 0.500148 | mg/L | 0.0011886 | 0.500148 | mg/L | 0.0011886 | 0.24% |
| QC value within limits for Tl 190.801 Recovery = 100.03% | | | | | | | | |
| V 290.880† | 80111.4 | 0.492523 | mg/L | 0.0021023 | 0.492523 | mg/L | 0.0021023 | 0.43% |
| QC value within limits for V 290.880 Recovery = 98.50% | | | | | | | | |
| Zn 206.200† | 24754.5 | 0.490670 | mg/L | 0.0019605 | 0.490670 | mg/L | 0.0019605 | 0.40% |
| QC value within limits for Zn 206.200 Recovery = 98.13% | | | | | | | | |
| Si 251.611† | 221081.5 | 4.82328 | mg/L | 0.026764 | 4.82328 | mg/L | 0.026764 | 0.55% |
| QC value within limits for Si 251.611 Recovery = 96.47% | | | | | | | | |
| B 249.772† | 49232.2 | 0.473430 | mg/L | 0.0018073 | 0.473430 | mg/L | 0.0018073 | 0.38% |
| QC value within limits for B 249.772 Recovery = 94.69% | | | | | | | | |
| Ce 413.764 | 27116.0 | 0.508664 | mg/L | 0.0049561 | 0.508664 | mg/L | 0.0049561 | 0.97% |
| QC value within limits for Ce 413.764 Recovery = 101.73% | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/29/2021 10:24:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 803482.5 | 99.2 | % | 0.22 | | | | 0.23% |
| Y 371.029 | 846100.9 | 99.5 | % | 0.17 | | | | 0.17% |
| Ag 328.068† | 17.2 | 0.0005223 | mg/L | 0.00021293 | 0.0005223 | mg/L | 0.00021293 | 40.77% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 88.9 | 0.0130591 | mg/L | 0.00109566 | 0.0130591 | mg/L | 0.00109566 | 8.39% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 5.7 | 0.0075510 | mg/L | 0.00205838 | 0.0075510 | mg/L | 0.00205838 | 27.26% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -28.0 | 0.0012768 | mg/L | 0.00014842 | 0.0012768 | mg/L | 0.00014842 | 11.62% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 274.9 | 0.0037408 | mg/L | 0.00002389 | 0.0037408 | mg/L | 0.00002389 | 0.64% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 184.5 | 0.272901 | mg/L | 0.0002025 | 0.272901 | mg/L | 0.0002025 | 0.07% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 17.3 | 0.0036455 | mg/L | 0.00016575 | 0.0036455 | mg/L | 0.00016575 | 4.55% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 22.1 | 0.0012741 | mg/L | 0.00047191 | 0.0012741 | mg/L | 0.00047191 | 37.04% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 7.8 | 0.0017477 | mg/L | 0.00025405 | 0.0017477 | mg/L | 0.00025405 | 14.54% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -17.1 | 0.0011177 | mg/L | 0.00078610 | 0.0011177 | mg/L | 0.00078610 | 70.33% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -98.1 | 0.0049714 | mg/L | 0.00083212 | 0.0049714 | mg/L | 0.00083212 | 16.74% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 209.1 | 1.03336 | mg/L | 0.688234 | 1.03336 | mg/L | 0.688234 | 66.60% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -60.9 | -0.0006234 | mg/L | 0.00349611 | -0.0006234 | mg/L | 0.00349611 | 560.86% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -36.9 | 0.0012695 | mg/L | 0.00003179 | 0.0012695 | mg/L | 0.00003179 | 2.50% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 9.9 | 0.0026450 | mg/L | 0.00044100 | 0.0026450 | mg/L | 0.00044100 | 16.67% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | -45.8 | 1.02066 | mg/L | 0.030870 | 1.02066 | mg/L | 0.030870 | 3.02% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 40.1 | 0.0020927 | mg/L | 0.00047661 | 0.0020927 | mg/L | 0.00047661 | 22.77% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -4.4 | 0.0007890 | mg/L | 0.00102468 | 0.0007890 | mg/L | 0.00102468 | 129.87% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -4.4 | 0.0007063 | mg/L | 0.00191477 | 0.0007063 | mg/L | 0.00191477 | 271.10% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 3.8 | 0.0049652 | mg/L | 0.00540374 | 0.0049652 | mg/L | 0.00540374 | 108.83% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -4.8 | -0.0011892 | mg/L | 0.00124738 | -0.0011892 | mg/L | 0.00124738 | 104.90% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 139.6 | 0.0036031 | mg/L | 0.00004447 | 0.0036031 | mg/L | 0.00004447 | 1.23% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -2.0 | 0.0008337 | mg/L | 0.00231804 | 0.0008337 | mg/L | 0.00231804 | 278.05% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 18.1 | 0.0037154 | mg/L | 0.00054498 | 0.0037154 | mg/L | 0.00054498 | 14.67% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 0.6 | 0.0030186 | mg/L | 0.00010967 | 0.0030186 | mg/L | 0.00010967 | 3.63% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 52.5 | -0.0920963 | mg/L | 0.00038315 | -0.0920963 | mg/L | 0.00038315 | 0.42% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 711.3 | 0.0128160 | mg/L | 0.00190913 | 0.0128160 | mg/L | 0.00190913 | 14.90% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -97.7 | -0.0218181 | mg/L | 0.00215779 | -0.0218181 | mg/L | 0.00215779 | 9.89% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: LLICV V-352961
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 9/29/2021 10:28:21 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV V-352961

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Calib Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 792853.6 | 97.9 | % | 0.36 | | | | 0.37% |
| Y 371.029 | 827079.6 | 97.3 | % | 0.40 | | | | 0.41% |
| Ag 328.068† | 3529.9 | 0.0203733 | mg/L | 0.00029608 | 0.0203733 | mg/L | 0.00029608 | 1.45% |
| QC value within limits for Ag 328.068 Recovery = 101.87% | | | | | | | | |
| Al 308.215† | 6508.0 | 0.220935 | mg/L | 0.0017493 | 0.220935 | mg/L | 0.0017493 | 0.79% |
| QC value within limits for Al 308.215 Recovery = 110.47% | | | | | | | | |
| As 188.979† | 57.9 | 0.0459839 | mg/L | 0.00324430 | 0.0459839 | mg/L | 0.00324430 | 7.06% |
| QC value within limits for As 188.979 Recovery = 114.96% | | | | | | | | |
| Ba 233.527† | 4829.0 | 0.0515617 | mg/L | 0.00006720 | 0.0515617 | mg/L | 0.00006720 | 0.13% |
| QC value within limits for Ba 233.527 Recovery = 103.12% | | | | | | | | |
| Be 313.107† | 38565.7 | 0.0153742 | mg/L | 0.00000804 | 0.0153742 | mg/L | 0.00000804 | 0.05% |
| QC value greater than the upper limit for Be 313.107 Recovery = 128.12% | | | | | | | | |
| Ca 315.887† | 698263.0 | 5.33164 | mg/L | 0.000563 | 5.33164 | mg/L | 0.000563 | 0.01% |
| QC value within limits for Ca 315.887 Recovery = 106.63% | | | | | | | | |
| Cd 228.802† | 596.1 | 0.0159531 | mg/L | 0.00013044 | 0.0159531 | mg/L | 0.00013044 | 0.82% |
| QC value greater than the upper limit for Cd 228.802 Recovery = 132.94% | | | | | | | | |
| Co 228.616† | 689.9 | 0.0222490 | mg/L | 0.00055354 | 0.0222490 | mg/L | 0.00055354 | 2.49% |
| QC value within limits for Co 228.616 Recovery = 111.25% | | | | | | | | |
| Cr 267.716† | 5930.7 | 0.0520079 | mg/L | 0.00020701 | 0.0520079 | mg/L | 0.00020701 | 0.40% |
| QC value within limits for Cr 267.716 Recovery = 104.02% | | | | | | | | |
| Cu 327.393† | 6006.3 | 0.0526010 | mg/L | 0.00027591 | 0.0526010 | mg/L | 0.00027591 | 0.52% |
| QC value within limits for Cu 327.393 Recovery = 105.20% | | | | | | | | |
| Fe 273.955† | 9345.0 | 0.319208 | mg/L | 0.0010635 | 0.319208 | mg/L | 0.0010635 | 0.33% |
| QC value within limits for Fe 273.955 Recovery = 106.40% | | | | | | | | |
| K 404.721† | 1036.4 | 7.08093 | mg/L | 0.287396 | 7.08093 | mg/L | 0.287396 | 4.06% |
| QC value greater than the upper limit for K 404.721 Recovery = 141.62% | | | | | | | | |
| Mg 279.077† | 134499.1 | 5.33926 | mg/L | 0.000951 | 5.33926 | mg/L | 0.000951 | 0.02% |
| QC value within limits for Mg 279.077 Recovery = 106.79% | | | | | | | | |
| Mn 257.610† | 33908.1 | 0.0420157 | mg/L | 0.00008181 | 0.0420157 | mg/L | 0.00008181 | 0.19% |
| QC value within limits for Mn 257.610 Recovery = 105.04% | | | | | | | | |
| Mo 202.031† | 266.5 | 0.0223953 | mg/L | 0.00025549 | 0.0223953 | mg/L | 0.00025549 | 1.14% |
| QC value within limits for Mo 202.031 Recovery = 111.98% | | | | | | | | |
| Na 330.237† | 6048.0 | 5.28354 | mg/L | 0.014882 | 5.28354 | mg/L | 0.014882 | 0.28% |
| QC value within limits for Na 330.237 Recovery = 105.67% | | | | | | | | |
| Ni 231.604† | 1751.3 | 0.0538860 | mg/L | 0.00033430 | 0.0538860 | mg/L | 0.00033430 | 0.62% |
| QC value within limits for Ni 231.604 Recovery = 107.77% | | | | | | | | |
| Pb 220.353† | 196.8 | 0.0514156 | mg/L | 0.00204681 | 0.0514156 | mg/L | 0.00204681 | 3.98% |
| QC value within limits for Pb 220.353 Recovery = 102.83% | | | | | | | | |
| Sb 206.836† | 55.9 | 0.0506204 | mg/L | 0.00236383 | 0.0506204 | mg/L | 0.00236383 | 4.67% |
| QC value within limits for Sb 206.836 Recovery = 101.24% | | | | | | | | |
| Se 196.026† | 63.3 | 0.0629124 | mg/L | 0.00384144 | 0.0629124 | mg/L | 0.00384144 | 6.11% |
| QC value greater than the upper limit for Se 196.026 Recovery = 125.82% | | | | | | | | |
| Sn 189.927† | 202.4 | 0.0491946 | mg/L | 0.00042136 | 0.0491946 | mg/L | 0.00042136 | 0.86% |
| QC value within limits for Sn 189.927 Recovery = 98.39% | | | | | | | | |
| Ti 334.940† | 42977.1 | 0.0526358 | mg/L | 0.00007615 | 0.0526358 | mg/L | 0.00007615 | 0.14% |
| QC value within limits for Ti 334.940 Recovery = 105.27% | | | | | | | | |
| Tl 190.801† | 43.5 | 0.0537730 | mg/L | 0.00065605 | 0.0537730 | mg/L | 0.00065605 | 1.22% |
| QC value within limits for Tl 190.801 Recovery = 107.55% | | | | | | | | |
| V 290.880† | 7875.7 | 0.0516706 | mg/L | 0.00023578 | 0.0516706 | mg/L | 0.00023578 | 0.46% |
| QC value within limits for V 290.880 Recovery = 103.34% | | | | | | | | |
| Zn 206.200† | 2459.2 | 0.0514531 | mg/L | 0.00019997 | 0.0514531 | mg/L | 0.00019997 | 0.39% |
| QC value within limits for Zn 206.200 Recovery = 102.91% | | | | | | | | |
| Si 251.611† | 20305.4 | 0.358236 | mg/L | 0.0016575 | 0.358236 | mg/L | 0.0016575 | 0.46% |
| QC value greater than the upper limit for Si 251.611 Recovery = 179.12% | | | | | | | | |
| B 249.772† | 19344.5 | 0.195809 | mg/L | 0.0024080 | 0.195809 | mg/L | 0.0024080 | 1.23% |
| QC value within limits for B 249.772 Recovery = 97.90% | | | | | | | | |
| Ce 413.764 | 11754.8 | 0.209224 | mg/L | 0.0015938 | 0.209224 | mg/L | 0.0015938 | 0.76% |
| QC value within limits for Ce 413.764 Recovery = 104.61% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 8
Sample ID: LRS V-352964
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 9/29/2021 10:32:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LRS V-352964

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 682748.4 | 84.3 | % | 1.34 | | | | 1.58% |
| Y 371.029 | 659661.7 | 77.6 | % | 1.29 | | | | 1.66% |
| Ag 328.068† | 181798.7 | 1.04557 | mg/L | 0.020579 | 1.04557 | mg/L | 0.020579 | 1.97% |
| QC value within limits for Ag 328.068 Recovery = 104.56% | | | | | | | | |
| Al 308.215† | 14635000.5 | 473.949 | mg/L | 9.0625 | 473.949 | mg/L | 9.0625 | 1.91% |
| QC value within limits for Al 308.215 Recovery = 94.79% | | | | | | | | |
| As 188.979† | 14085.7 | 10.3360 | mg/L | 0.19359 | 10.3360 | mg/L | 0.19359 | 1.87% |
| QC value within limits for As 188.979 Recovery = 103.36% | | | | | | | | |
| Ba 233.527† | 975559.9 | 10.1014 | mg/L | 0.20091 | 10.1014 | mg/L | 0.20091 | 1.99% |
| QC value within limits for Ba 233.527 Recovery = 101.01% | | | | | | | | |
| Be 313.107† | 15699596.4 | 4.77343 | mg/L | 0.096382 | 4.77343 | mg/L | 0.096382 | 2.02% |
| QC value within limits for Be 313.107 Recovery = 95.47% | | | | | | | | |
| Ca 315.887† | 65584311.2 | 475.539 | mg/L | 9.5342 | 475.539 | mg/L | 9.5342 | 2.00% |
| QC value within limits for Ca 315.887 Recovery = 95.11% | | | | | | | | |
| Cd 228.802† | 257254.4 | 5.35613 | mg/L | 0.101592 | 5.35613 | mg/L | 0.101592 | 1.90% |
| QC value within limits for Cd 228.802 Recovery = 107.12% | | | | | | | | |
| Co 228.616† | 155851.3 | 4.89516 | mg/L | 0.093545 | 4.89516 | mg/L | 0.093545 | 1.91% |
| QC value within limits for Co 228.616 Recovery = 97.90% | | | | | | | | |
| Cr 267.716† | 1143942.2 | 9.70872 | mg/L | 0.189779 | 9.70872 | mg/L | 0.189779 | 1.95% |
| QC value within limits for Cr 267.716 Recovery = 97.09% | | | | | | | | |
| Cu 327.393† | 1199372.0 | 10.2529 | mg/L | 0.19960 | 10.2529 | mg/L | 0.19960 | 1.95% |
| QC value within limits for Cu 327.393 Recovery = 102.53% | | | | | | | | |
| Fe 273.955† | 5753845.0 | 191.477 | mg/L | 3.7583 | 191.477 | mg/L | 3.7583 | 1.96% |
| QC value within limits for Fe 273.955 Recovery = 95.74% | | | | | | | | |
| K 404.721† | 66406.0 | 484.949 | mg/L | 10.6229 | 484.949 | mg/L | 10.6229 | 2.19% |
| QC value greater than the upper limit for K 404.721 Recovery = 242.47% | | | | | | | | |
| Mg 279.077† | 12170754.9 | 482.986 | mg/L | 9.8263 | 482.986 | mg/L | 9.8263 | 2.03% |
| QC value within limits for Mg 279.077 Recovery = 96.60% | | | | | | | | |
| Mn 257.610† | 8068846.6 | 9.68682 | mg/L | 0.193604 | 9.68682 | mg/L | 0.193604 | 2.00% |
| QC value within limits for Mn 257.610 Recovery = 96.87% | | | | | | | | |
| Mo 202.031† | 126662.5 | 9.77826 | mg/L | 0.188963 | 9.77826 | mg/L | 0.188963 | 1.93% |
| QC value within limits for Mo 202.031 Recovery = 97.78% | | | | | | | | |
| Na 330.237† | 1653569.0 | 1157.80 | mg/L | 23.334 | 1157.80 | mg/L | 23.334 | 2.02% |
| QC value greater than the upper limit for Na 330.237 Recovery = 115.78% | | | | | | | | |
| Ni 231.604† | 315565.7 | 9.55190 | mg/L | 0.178625 | 9.55190 | mg/L | 0.178625 | 1.87% |
| QC value within limits for Ni 231.604 Recovery = 95.52% | | | | | | | | |
| Pb 220.353† | 38879.5 | 9.96781 | mg/L | 0.170007 | 9.96781 | mg/L | 0.170007 | 1.71% |
| QC value within limits for Pb 220.353 Recovery = 99.68% | | | | | | | | |
| Sb 206.836† | 6011.5 | 5.18515 | mg/L | 0.074705 | 5.18515 | mg/L | 0.074705 | 1.44% |
| QC value within limits for Sb 206.836 Recovery = 103.70% | | | | | | | | |
| Se 196.026† | 5241.9 | 5.04212 | mg/L | 0.077775 | 5.04212 | mg/L | 0.077775 | 1.54% |
| QC value within limits for Se 196.026 Recovery = 100.84% | | | | | | | | |
| Sn 189.927† | 40546.4 | 9.85764 | mg/L | 0.157542 | 9.85764 | mg/L | 0.157542 | 1.60% |
| QC value within limits for Sn 189.927 Recovery = 98.58% | | | | | | | | |
| Ti 334.940† | 8654963.8 | 9.91008 | mg/L | 0.206786 | 9.91008 | mg/L | 0.206786 | 2.09% |
| QC value within limits for Ti 334.940 Recovery = 99.10% | | | | | | | | |
| Tl 190.801† | 4117.0 | 4.82866 | mg/L | 0.088239 | 4.82866 | mg/L | 0.088239 | 1.83% |
| QC value within limits for Tl 190.801 Recovery = 96.57% | | | | | | | | |
| V 290.880† | 1635107.0 | 9.98262 | mg/L | 0.203593 | 9.98262 | mg/L | 0.203593 | 2.04% |
| QC value within limits for V 290.880 Recovery = 99.83% | | | | | | | | |
| Zn 206.200† | 495766.6 | 9.76960 | mg/L | 0.176628 | 9.76960 | mg/L | 0.176628 | 1.81% |
| QC value within limits for Zn 206.200 Recovery = 97.70% | | | | | | | | |
| Si 251.611† | 1053212.9 | 23.4044 | mg/L | 0.42908 | 23.4044 | mg/L | 0.42908 | 1.83% |
| QC value within limits for Si 251.611 Recovery = 93.62% | | | | | | | | |
| B 249.772† | 513982.2 | 4.35022 | mg/L | 0.083809 | 4.35022 | mg/L | 0.083809 | 1.93% |
| QC value less than the lower limit for B 249.772 Recovery = 87.00% | | | | | | | | |
| Ce 413.764 | 1041987.0 | 20.2917 | mg/L | 0.09635 | 20.2917 | mg/L | 0.09635 | 0.47% |
| QC value less than the lower limit for Ce 413.764 Recovery = 81.17% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 9
Sample ID: ICS3 V-352955
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 9/29/2021 10:38:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-352955

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 766073.3 | 94.6 | % | 0.21 | | | | 0.22% |
| Y 371.029 | 788326.8 | 92.7 | % | 0.21 | | | | 0.22% |
| Ag 328.068† | 17745.5 | 0.100462 | mg/L | 0.0005674 | 0.100462 | mg/L | 0.0005674 | 0.56% |
| QC value within limits for Ag 328.068 Recovery = 100.46% | | | | | | | | |
| Al 308.215† | 154929.5 | 5.02740 | mg/L | 0.034247 | 5.02740 | mg/L | 0.034247 | 0.68% |
| QC value within limits for Al 308.215 Recovery = 100.55% | | | | | | | | |
| As 188.979† | 679.0 | 0.502653 | mg/L | 0.0025251 | 0.502653 | mg/L | 0.0025251 | 0.50% |
| QC value within limits for As 188.979 Recovery = 100.53% | | | | | | | | |
| Ba 233.527† | 48072.4 | 0.499257 | mg/L | 0.0035996 | 0.499257 | mg/L | 0.0035996 | 0.72% |
| QC value within limits for Ba 233.527 Recovery = 99.85% | | | | | | | | |
| Be 313.107† | 1604572.8 | 0.491151 | mg/L | 0.0002251 | 0.491151 | mg/L | 0.0002251 | 0.05% |
| QC value within limits for Be 313.107 Recovery = 98.23% | | | | | | | | |
| Ca 315.887† | 6778235.8 | 49.3911 | mg/L | 0.01827 | 49.3911 | mg/L | 0.01827 | 0.04% |
| QC value within limits for Ca 315.887 Recovery = 98.78% | | | | | | | | |
| Cd 228.802† | 24396.8 | 0.503807 | mg/L | 0.0027213 | 0.503807 | mg/L | 0.0027213 | 0.54% |
| QC value within limits for Cd 228.802 Recovery = 100.76% | | | | | | | | |
| Co 228.616† | 16002.6 | 0.502957 | mg/L | 0.0024700 | 0.502957 | mg/L | 0.0024700 | 0.49% |
| QC value within limits for Co 228.616 Recovery = 100.59% | | | | | | | | |
| Cr 267.716† | 59125.2 | 0.503395 | mg/L | 0.0035954 | 0.503395 | mg/L | 0.0035954 | 0.71% |
| QC value within limits for Cr 267.716 Recovery = 100.68% | | | | | | | | |
| Cu 327.393† | 58671.5 | 0.502764 | mg/L | 0.0039821 | 0.502764 | mg/L | 0.0039821 | 0.79% |
| QC value within limits for Cu 327.393 Recovery = 100.55% | | | | | | | | |
| Fe 273.955† | 151062.3 | 5.03508 | mg/L | 0.033501 | 5.03508 | mg/L | 0.033501 | 0.67% |
| QC value within limits for Fe 273.955 Recovery = 100.70% | | | | | | | | |
| K 404.721† | 6752.1 | 48.8644 | mg/L | 1.27724 | 48.8644 | mg/L | 1.27724 | 2.61% |
| QC value within limits for K 404.721 Recovery = 97.73% | | | | | | | | |
| Mg 279.077† | 1261295.0 | 50.0550 | mg/L | 0.06094 | 50.0550 | mg/L | 0.06094 | 0.12% |
| QC value within limits for Mg 279.077 Recovery = 100.11% | | | | | | | | |
| Mn 257.610† | 416448.7 | 0.501201 | mg/L | 0.0035340 | 0.501201 | mg/L | 0.0035340 | 0.71% |
| QC value within limits for Mn 257.610 Recovery = 100.24% | | | | | | | | |
| Mo 202.031† | 6499.5 | 0.502055 | mg/L | 0.0014809 | 0.502055 | mg/L | 0.0014809 | 0.29% |
| QC value within limits for Mo 202.031 Recovery = 100.41% | | | | | | | | |
| Na 330.237† | 67494.8 | 48.2685 | mg/L | 0.30587 | 48.2685 | mg/L | 0.30587 | 0.63% |
| QC value within limits for Na 330.237 Recovery = 96.54% | | | | | | | | |
| Ni 231.604† | 16567.1 | 0.502306 | mg/L | 0.0029394 | 0.502306 | mg/L | 0.0029394 | 0.59% |
| QC value within limits for Ni 231.604 Recovery = 100.46% | | | | | | | | |
| Pb 220.353† | 2007.2 | 0.508163 | mg/L | 0.0037387 | 0.508163 | mg/L | 0.0037387 | 0.74% |
| QC value within limits for Pb 220.353 Recovery = 101.63% | | | | | | | | |
| Sb 206.836† | 590.9 | 0.496217 | mg/L | 0.0026701 | 0.496217 | mg/L | 0.0026701 | 0.54% |
| QC value within limits for Sb 206.836 Recovery = 99.24% | | | | | | | | |
| Se 196.026† | 507.9 | 0.495160 | mg/L | 0.0016013 | 0.495160 | mg/L | 0.0016013 | 0.32% |
| QC value within limits for Se 196.026 Recovery = 99.03% | | | | | | | | |
| Sn 189.927† | 2108.1 | 0.512493 | mg/L | 0.0051063 | 0.512493 | mg/L | 0.0051063 | 1.00% |
| QC value within limits for Sn 189.927 Recovery = 102.50% | | | | | | | | |
| Ti 334.940† | 429477.8 | 0.495032 | mg/L | 0.0031741 | 0.495032 | mg/L | 0.0031741 | 0.64% |
| QC value within limits for Ti 334.940 Recovery = 99.01% | | | | | | | | |
| Tl 190.801† | 442.7 | 0.513149 | mg/L | 0.0073494 | 0.513149 | mg/L | 0.0073494 | 1.43% |
| QC value within limits for Tl 190.801 Recovery = 102.63% | | | | | | | | |
| V 290.880† | 80995.0 | 0.497916 | mg/L | 0.0038848 | 0.497916 | mg/L | 0.0038848 | 0.78% |
| QC value within limits for V 290.880 Recovery = 99.58% | | | | | | | | |
| Zn 206.200† | 25204.0 | 0.499524 | mg/L | 0.0033823 | 0.499524 | mg/L | 0.0033823 | 0.68% |
| QC value within limits for Zn 206.200 Recovery = 99.90% | | | | | | | | |
| Si 251.611† | 227394.1 | 4.96364 | mg/L | 0.036962 | 4.96364 | mg/L | 0.036962 | 0.74% |
| QC value within limits for Si 251.611 Recovery = 99.27% | | | | | | | | |
| B 249.772† | 54372.9 | 0.523947 | mg/L | 0.0067907 | 0.523947 | mg/L | 0.0067907 | 1.30% |
| QC value within limits for B 249.772 Recovery = 104.79% | | | | | | | | |
| Ce 413.764 | 27486.0 | 0.515877 | mg/L | 0.0026435 | 0.515877 | mg/L | 0.0026435 | 0.51% |
| QC value within limits for Ce 413.764 Recovery = 103.18% | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: RINSE
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 9/29/2021 10:42:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: RINSE

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 807383.3 | 99.7 | % | 0.60 | | | | 0.60% |
| Y 371.029 | 849682.3 | 100.0 | % | 0.77 | | | | 0.77% |
| Ag 328.068† | 95.9 | 0.0009651 | mg/L | 0.00018196 | 0.0009651 | mg/L | 0.00018196 | 18.85% |
| Al 308.215† | 182.6 | 0.0160926 | mg/L | 0.00136443 | 0.0160926 | mg/L | 0.00136443 | 8.48% |
| As 188.979† | 9.3 | 0.0102173 | mg/L | 0.00162501 | 0.0102173 | mg/L | 0.00162501 | 15.90% |
| Ba 233.527† | -69.4 | 0.0008492 | mg/L | 0.00013929 | 0.0008492 | mg/L | 0.00013929 | 16.40% |
| Be 313.107† | 511.7 | 0.0038128 | mg/L | 0.00002851 | 0.0038128 | mg/L | 0.00002851 | 0.75% |
| Ca 315.887† | -273.2 | 0.269584 | mg/L | 0.0007937 | 0.269584 | mg/L | 0.0007937 | 0.29% |
| Cd 228.802† | 25.6 | 0.0038187 | mg/L | 0.00018707 | 0.0038187 | mg/L | 0.00018707 | 4.90% |
| Co 228.616† | 20.6 | 0.0012250 | mg/L | 0.00094770 | 0.0012250 | mg/L | 0.00094770 | 77.36% |
| Cr 267.716† | -15.2 | 0.0015531 | mg/L | 0.00063041 | 0.0015531 | mg/L | 0.00063041 | 40.59% |
| Cu 327.393† | 38.8 | 0.0015956 | mg/L | 0.00014845 | 0.0015956 | mg/L | 0.00014845 | 9.30% |
| Fe 273.955† | -161.7 | 0.0028543 | mg/L | 0.00092913 | 0.0028543 | mg/L | 0.00092913 | 32.55% |
| K 404.721† | 328.0 | 1.90260 | mg/L | 1.004569 | 1.90260 | mg/L | 1.004569 | 52.80% |
| Mg 279.077† | -139.0 | -0.0037233 | mg/L | 0.00264695 | -0.0037233 | mg/L | 0.00264695 | 71.09% |
| Mn 257.610† | -12.1 | 0.0012993 | mg/L | 0.00007298 | 0.0012993 | mg/L | 0.00007298 | 5.62% |
| Mo 202.031† | 14.7 | 0.0030139 | mg/L | 0.00030309 | 0.0030139 | mg/L | 0.00030309 | 10.06% |
| Na 330.237† | 65.2 | 1.09833 | mg/L | 0.035240 | 1.09833 | mg/L | 0.035240 | 3.21% |
| Ni 231.604† | 56.1 | 0.0025785 | mg/L | 0.00028548 | 0.0025785 | mg/L | 0.00028548 | 11.07% |
| Pb 220.353† | 3.9 | 0.0028569 | mg/L | 0.00038994 | 0.0028569 | mg/L | 0.00038994 | 13.65% |
| Sb 206.836† | -5.4 | -0.0000600 | mg/L | 0.00189281 | -0.0000600 | mg/L | 0.00189281 | >999.9% |
| Se 196.026† | 2.9 | 0.0041123 | mg/L | 0.00811429 | 0.0041123 | mg/L | 0.00811429 | 197.32% |
| Sn 189.927† | 5.3 | 0.0012714 | mg/L | 0.00193863 | 0.0012714 | mg/L | 0.00193863 | 152.48% |
| Ti 334.940† | 138.9 | 0.0036023 | mg/L | 0.00003963 | 0.0036023 | mg/L | 0.00003963 | 1.10% |
| Tl 190.801† | 0.5 | 0.0037314 | mg/L | 0.00114424 | 0.0037314 | mg/L | 0.00114424 | 30.66% |
| V 290.880† | 23.1 | 0.0037460 | mg/L | 0.00064165 | 0.0037460 | mg/L | 0.00064165 | 17.13% |
| Zn 206.200† | 68.7 | 0.0043602 | mg/L | 0.00009541 | 0.0043602 | mg/L | 0.00009541 | 2.19% |
| Si 251.611† | 13.7 | -0.0929598 | mg/L | 0.00037163 | -0.0929598 | mg/L | 0.00037163 | 0.40% |
| B 249.772† | 1991.3 | 0.0254778 | mg/L | 0.00367140 | 0.0254778 | mg/L | 0.00367140 | 14.41% |
| Ce 413.764 | 75.9 | -0.0184344 | mg/L | 0.00272719 | -0.0184344 | mg/L | 0.00272719 | 14.79% |

Sequence No.: 11 Autosampler Location: 7
Sample ID: ICSA V-352957 Date Collected: 9/29/2021 10:46:12 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: ICSA V-352957

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 673342.2 | 83.1 | % | 0.53 | | | | 0.63% |
| Y 371.029 | 687365.9 | 80.9 | % | 0.45 | | | | 0.55% |
| Ag 328.068† | -3539.6 | -0.0068673 | mg/L | 0.00036353 | -0.0068673 | mg/L | 0.00036353 | 5.29% |
| Al 308.215† | 14982912.5 | 485.215 | mg/L | 6.1471 | 485.215 | mg/L | 6.1471 | 1.27% |
| QC value within limits for Al 308.215 Recovery = 97.04% | | | | | | | | |
| As 188.979† | 43.2 | 0.0014930 | mg/L | 0.00463947 | 0.0014930 | mg/L | 0.00463947 | 310.74% |
| Ba 233.527† | -271.3 | -0.0012411 | mg/L | 0.00010662 | -0.0012411 | mg/L | 0.00010662 | 8.59% |
| Be 313.107† | -2790.2 | 0.0028096 | mg/L | 0.00005577 | 0.0028096 | mg/L | 0.00005577 | 1.98% |
| Ca 315.887† | 67106909.1 | 486.572 | mg/L | 5.9701 | 486.572 | mg/L | 5.9701 | 1.23% |
| QC value within limits for Ca 315.887 Recovery = 97.31% | | | | | | | | |
| Cd 228.802† | -1820.6 | 0.0131343 | mg/L | 0.00033031 | 0.0131343 | mg/L | 0.00033031 | 2.51% |
| Co 228.616† | 161.5 | 0.0056282 | mg/L | 0.00050497 | 0.0056282 | mg/L | 0.00050497 | 8.97% |
| Cr 267.716† | -1606.5 | -0.0119499 | mg/L | 0.00026018 | -0.0119499 | mg/L | 0.00026018 | 2.18% |
| Cu 327.393† | -4531.9 | -0.0372862 | mg/L | 0.00152296 | -0.0372862 | mg/L | 0.00152296 | 4.08% |
| Fe 273.955† | 5715517.2 | 190.201 | mg/L | 0.1241 | 190.201 | mg/L | 0.1241 | 0.07% |
| QC value within limits for Fe 273.955 Recovery = 95.10% | | | | | | | | |
| K 404.721† | -129.9 | -1.44493 | mg/L | 1.040032 | -1.44493 | mg/L | 1.040032 | 71.98% |
| Mg 279.077† | 12354112.9 | 490.263 | mg/L | 5.7319 | 490.263 | mg/L | 5.7319 | 1.17% |
| QC value within limits for Mg 279.077 Recovery = 98.05% | | | | | | | | |
| Mn 257.610† | 1325.4 | 0.0029047 | mg/L | 0.00005410 | 0.0029047 | mg/L | 0.00005410 | 1.86% |
| Mo 202.031† | 262.9 | 0.0596092 | mg/L | 0.00061697 | 0.0596092 | mg/L | 0.00061697 | 1.04% |
| Na 330.237† | -1199.2 | 0.213789 | mg/L | 0.0874477 | 0.213789 | mg/L | 0.0874477 | 40.90% |
| Ni 231.604† | 542.3 | 0.0172937 | mg/L | 0.00071838 | 0.0172937 | mg/L | 0.00071838 | 4.15% |
| Pb 220.353† | -446.7 | 0.133898 | mg/L | 0.0038507 | 0.133898 | mg/L | 0.0038507 | 2.88% |
| Sb 206.836† | -395.7 | -0.158590 | mg/L | 0.0084738 | -0.158590 | mg/L | 0.0084738 | 5.34% |
| Se 196.026† | -110.5 | -0.169647 | mg/L | 0.0032302 | -0.169647 | mg/L | 0.0032302 | 1.90% |
| Sn 189.927† | -134.5 | -0.0327227 | mg/L | 0.00025022 | -0.0327227 | mg/L | 0.00025022 | 0.76% |
| Ti 334.940† | 4533.5 | 0.0086324 | mg/L | 0.00011864 | 0.0086324 | mg/L | 0.00011864 | 1.37% |
| Tl 190.801† | -13.3 | 0.0611263 | mg/L | 0.00871226 | 0.0611263 | mg/L | 0.00871226 | 14.25% |
| V 290.880† | -996.5 | -0.0024761 | mg/L | 0.00026914 | -0.0024761 | mg/L | 0.00026914 | 10.87% |
| Zn 206.200† | 450.8 | 0.0118881 | mg/L | 0.00011477 | 0.0118881 | mg/L | 0.00011477 | 0.97% |
| Si 251.611† | 1519.7 | 0.0262117 | mg/L | 0.00075796 | 0.0262117 | mg/L | 0.00075796 | 2.89% |
| B 249.772† | 83830.4 | 0.102775 | mg/L | 0.0164703 | 0.102775 | mg/L | 0.0164703 | 16.03% |
| Ce 413.764 | -295.8 | -0.0256797 | mg/L | 0.00118913 | -0.0256797 | mg/L | 0.00118913 | 4.63% |

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 10:52:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 749341.5 | 92.5 | % | 0.46 | | | | 0.50% |
| Y 371.029 | 771450.2 | 90.8 | % | 0.48 | | | | 0.53% |
| Ag 328.068† | 17427.9 | 0.0986764 | mg/L | 0.00063524 | 0.0986764 | mg/L | 0.00063524 | 0.64% |
| QC value within limits for Ag 328.068 Recovery = 98.68% | | | | | | | | |
| Al 308.215† | 154803.4 | 5.02332 | mg/L | 0.024570 | 5.02332 | mg/L | 0.024570 | 0.49% |
| QC value within limits for Al 308.215 Recovery = 100.47% | | | | | | | | |
| As 188.979† | 676.7 | 0.501023 | mg/L | 0.0029494 | 0.501023 | mg/L | 0.0029494 | 0.59% |
| QC value within limits for As 188.979 Recovery = 100.20% | | | | | | | | |
| Ba 233.527† | 47962.0 | 0.498113 | mg/L | 0.0023105 | 0.498113 | mg/L | 0.0023105 | 0.46% |
| QC value within limits for Ba 233.527 Recovery = 99.62% | | | | | | | | |
| Be 313.107† | 1611015.8 | 0.493108 | mg/L | 0.0014708 | 0.493108 | mg/L | 0.0014708 | 0.30% |
| QC value within limits for Be 313.107 Recovery = 98.62% | | | | | | | | |
| Ca 315.887† | 6797902.8 | 49.5336 | mg/L | 0.16029 | 49.5336 | mg/L | 0.16029 | 0.32% |
| QC value within limits for Ca 315.887 Recovery = 99.07% | | | | | | | | |
| Cd 228.802† | 24345.8 | 0.502764 | mg/L | 0.0020018 | 0.502764 | mg/L | 0.0020018 | 0.40% |
| QC value within limits for Cd 228.802 Recovery = 100.55% | | | | | | | | |
| Co 228.616† | 15933.0 | 0.500771 | mg/L | 0.0017175 | 0.500771 | mg/L | 0.0017175 | 0.34% |
| QC value within limits for Co 228.616 Recovery = 100.15% | | | | | | | | |
| Cr 267.716† | 58812.3 | 0.500740 | mg/L | 0.0033906 | 0.500740 | mg/L | 0.0033906 | 0.68% |
| QC value within limits for Cr 267.716 Recovery = 100.15% | | | | | | | | |
| Cu 327.393† | 58278.0 | 0.499403 | mg/L | 0.0025526 | 0.499403 | mg/L | 0.0025526 | 0.51% |
| QC value within limits for Cu 327.393 Recovery = 99.88% | | | | | | | | |
| Fe 273.955† | 150295.4 | 5.00956 | mg/L | 0.031170 | 5.00956 | mg/L | 0.031170 | 0.62% |
| QC value within limits for Fe 273.955 Recovery = 100.19% | | | | | | | | |
| K 404.721† | 6814.7 | 49.3214 | mg/L | 1.19561 | 49.3214 | mg/L | 1.19561 | 2.42% |
| QC value within limits for K 404.721 Recovery = 98.64% | | | | | | | | |
| Mg 279.077† | 1260126.2 | 50.0087 | mg/L | 0.12805 | 50.0087 | mg/L | 0.12805 | 0.26% |
| QC value within limits for Mg 279.077 Recovery = 100.02% | | | | | | | | |
| Mn 257.610† | 415197.1 | 0.499699 | mg/L | 0.0029228 | 0.499699 | mg/L | 0.0029228 | 0.58% |
| QC value within limits for Mn 257.610 Recovery = 99.94% | | | | | | | | |
| Mo 202.031† | 6506.8 | 0.502616 | mg/L | 0.0013442 | 0.502616 | mg/L | 0.0013442 | 0.27% |
| QC value within limits for Mo 202.031 Recovery = 100.52% | | | | | | | | |
| Na 330.237† | 66757.1 | 47.7524 | mg/L | 0.21955 | 47.7524 | mg/L | 0.21955 | 0.46% |
| QC value within limits for Na 330.237 Recovery = 95.50% | | | | | | | | |
| Ni 231.604† | 16559.9 | 0.502086 | mg/L | 0.0021825 | 0.502086 | mg/L | 0.0021825 | 0.43% |
| QC value within limits for Ni 231.604 Recovery = 100.42% | | | | | | | | |
| Pb 220.353† | 1987.6 | 0.503252 | mg/L | 0.0041387 | 0.503252 | mg/L | 0.0041387 | 0.82% |
| QC value within limits for Pb 220.353 Recovery = 100.65% | | | | | | | | |
| Sb 206.836† | 582.1 | 0.488971 | mg/L | 0.0025086 | 0.488971 | mg/L | 0.0025086 | 0.51% |
| QC value within limits for Sb 206.836 Recovery = 97.79% | | | | | | | | |
| Se 196.026† | 503.2 | 0.490576 | mg/L | 0.0105182 | 0.490576 | mg/L | 0.0105182 | 2.14% |
| QC value within limits for Se 196.026 Recovery = 98.12% | | | | | | | | |
| Sn 189.927† | 2064.9 | 0.502006 | mg/L | 0.0011545 | 0.502006 | mg/L | 0.0011545 | 0.23% |
| QC value within limits for Sn 189.927 Recovery = 100.40% | | | | | | | | |
| Ti 334.940† | 429253.9 | 0.494776 | mg/L | 0.0025318 | 0.494776 | mg/L | 0.0025318 | 0.51% |
| QC value within limits for Ti 334.940 Recovery = 98.96% | | | | | | | | |
| Tl 190.801† | 437.1 | 0.506738 | mg/L | 0.0040421 | 0.506738 | mg/L | 0.0040421 | 0.80% |
| QC value within limits for Tl 190.801 Recovery = 101.35% | | | | | | | | |
| V 290.880† | 80852.6 | 0.497047 | mg/L | 0.0026579 | 0.497047 | mg/L | 0.0026579 | 0.53% |
| QC value within limits for V 290.880 Recovery = 99.41% | | | | | | | | |
| Zn 206.200† | 24949.7 | 0.494516 | mg/L | 0.0015032 | 0.494516 | mg/L | 0.0015032 | 0.30% |
| QC value within limits for Zn 206.200 Recovery = 98.90% | | | | | | | | |
| Si 251.611† | 223322.7 | 4.87312 | mg/L | 0.028300 | 4.87312 | mg/L | 0.028300 | 0.58% |
| QC value within limits for Si 251.611 Recovery = 97.46% | | | | | | | | |
| B 249.772† | 47712.7 | 0.458204 | mg/L | 0.0081337 | 0.458204 | mg/L | 0.0081337 | 1.78% |
| QC value within limits for B 249.772 Recovery = 91.64% | | | | | | | | |
| Ce 413.764 | 26969.7 | 0.505811 | mg/L | 0.0033001 | 0.505811 | mg/L | 0.0033001 | 0.65% |
| QC value within limits for Ce 413.764 Recovery = 101.16% | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 10:56:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 774687.1 | 95.6 | % | 5.07 | | | | 5.31% |
| Y 371.029 | 817457.2 | 96.2 | % | 5.04 | | | | 5.24% |
| Ag 328.068† | 123.2 | 0.0011168 | mg/L | 0.00006562 | 0.0011168 | mg/L | 0.00006562 | 5.88% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 591.3 | 0.0293294 | mg/L | 0.02043625 | 0.0293294 | mg/L | 0.02043625 | 69.68% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 10.2 | 0.0108410 | mg/L | 0.00404042 | 0.0108410 | mg/L | 0.00404042 | 37.27% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -116.9 | 0.0003572 | mg/L | 0.00079626 | 0.0003572 | mg/L | 0.00079626 | 222.91% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 626.6 | 0.0038477 | mg/L | 0.00006462 | 0.0038477 | mg/L | 0.00006462 | 1.68% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 876.7 | 0.277917 | mg/L | 0.0017000 | 0.277917 | mg/L | 0.0017000 | 0.61% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 23.9 | 0.0038012 | mg/L | 0.00023243 | 0.0038012 | mg/L | 0.00023243 | 6.11% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 24.4 | 0.0013430 | mg/L | 0.00035482 | 0.0013430 | mg/L | 0.00035482 | 26.42% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -77.0 | 0.0010285 | mg/L | 0.00039876 | 0.0010285 | mg/L | 0.00039876 | 38.77% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -143.7 | 0.0000358 | mg/L | 0.00350043 | 0.0000358 | mg/L | 0.00350043 | >999.9% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -157.1 | 0.0030085 | mg/L | 0.00120355 | 0.0030085 | mg/L | 0.00120355 | 40.01% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 409.2 | 2.49575 | mg/L | 3.644538 | 2.49575 | mg/L | 3.644538 | 146.03% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -231.3 | -0.0073857 | mg/L | 0.00535342 | -0.0073857 | mg/L | 0.00535342 | 72.48% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 12.1 | 0.0013283 | mg/L | 0.00008785 | 0.0013283 | mg/L | 0.00008785 | 6.61% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 24.4 | 0.0037631 | mg/L | 0.00082401 | 0.0037631 | mg/L | 0.00082401 | 21.90% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | -51.9 | 1.01640 | mg/L | 0.156769 | 1.01640 | mg/L | 0.156769 | 15.42% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 116.3 | 0.0043997 | mg/L | 0.00207664 | 0.0043997 | mg/L | 0.00207664 | 47.20% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -17.3 | -0.0024315 | mg/L | 0.00604942 | -0.0024315 | mg/L | 0.00604942 | 248.80% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -21.1 | -0.0129742 | mg/L | 0.01399397 | -0.0129742 | mg/L | 0.01399397 | 107.86% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -0.4 | 0.0009022 | mg/L | 0.00396143 | 0.0009022 | mg/L | 0.00396143 | 439.08% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -1.2 | -0.0003187 | mg/L | 0.00036433 | -0.0003187 | mg/L | 0.00036433 | 114.30% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 197.4 | 0.0036693 | mg/L | 0.00016602 | 0.0036693 | mg/L | 0.00016602 | 4.52% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | 0.1 | 0.0032235 | mg/L | 0.00102657 | 0.0032235 | mg/L | 0.00102657 | 31.85% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 185.9 | 0.0047398 | mg/L | 0.00155771 | 0.0047398 | mg/L | 0.00155771 | 32.86% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 28.8 | 0.0035743 | mg/L | 0.00017232 | 0.0035743 | mg/L | 0.00017232 | 4.82% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 105.0 | -0.0909306 | mg/L | 0.00192853 | -0.0909306 | mg/L | 0.00192853 | 2.12% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -179.1 | 0.0040212 | mg/L | 0.00171711 | 0.0040212 | mg/L | 0.00171711 | 42.70% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | 0.4 | -0.0199055 | mg/L | 0.00155441 | -0.0199055 | mg/L | 0.00155441 | 7.81% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: AD26083-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 9/29/2021 11:00:24 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-002

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 688265.1 | 85.0 | % | 0.53 | | | | 0.63% |
| Y 371.029 | 699289.5 | 82.3 | % | 0.47 | | | | 0.57% |
| Ag 328.068† | 138.9 | 0.0012625 | mg/L | 0.00027830 | 0.0012625 | mg/L | 0.00027830 | 22.04% |
| Al 308.215† | 13006.5 | 0.431381 | mg/L | 0.0134672 | 0.431381 | mg/L | 0.0134672 | 3.12% |
| As 188.979† | 7.7 | 0.0090010 | mg/L | 0.00285103 | 0.0090010 | mg/L | 0.00285103 | 31.67% |
| Ba 233.527† | 27387.4 | 0.285106 | mg/L | 0.0016959 | 0.285106 | mg/L | 0.0016959 | 0.59% |
| Be 313.107† | 316.6 | 0.0037535 | mg/L | 0.00005533 | 0.0037535 | mg/L | 0.00005533 | 1.47% |
| Ca 315.887† | 26474477.3 | 192.123 | mg/L | 1.6087 | 192.123 | mg/L | 1.6087 | 0.84% |
| Cd 228.802† | 1.2 | 0.0043269 | mg/L | 0.00021910 | 0.0043269 | mg/L | 0.00021910 | 5.06% |
| Co 228.616† | 453.0 | 0.0155569 | mg/L | 0.00024060 | 0.0155569 | mg/L | 0.00024060 | 1.55% |
| Cr 267.716† | 200.7 | 0.0033850 | mg/L | 0.00027978 | 0.0033850 | mg/L | 0.00027978 | 8.27% |
| Cu 327.393† | -1449.6 | -0.0096807 | mg/L | 0.00097839 | -0.0096807 | mg/L | 0.00097839 | 10.11% |
| Fe 273.955† | 27265.5 | 0.915541 | mg/L | 0.0006440 | 0.915541 | mg/L | 0.0006440 | 0.07% |
| K 404.721† | 1385.6 | 9.63335 | mg/L | 0.840216 | 9.63335 | mg/L | 0.840216 | 8.72% |
| Mg 279.077† | 1898032.6 | 75.3233 | mg/L | 0.14427 | 75.3233 | mg/L | 0.14427 | 0.19% |
| Mn 257.610† | 4509355.5 | 5.41416 | mg/L | 0.006147 | 5.41416 | mg/L | 0.006147 | 0.11% |
| Mo 202.031† | 159.8 | 0.0142023 | mg/L | 0.00092035 | 0.0142023 | mg/L | 0.00092035 | 6.48% |
| Na 330.237† | 1367995.1 | 958.029 | mg/L | 3.6622 | 958.029 | mg/L | 3.6622 | 0.38% |
| Ni 231.604† | 2727.7 | 0.0834368 | mg/L | 0.00097581 | 0.0834368 | mg/L | 0.00097581 | 1.17% |
| Pb 220.353† | -56.3 | -0.0094110 | mg/L | 0.00024450 | -0.0094110 | mg/L | 0.00024450 | 2.60% |
| Sb 206.836† | -70.3 | -0.0532447 | mg/L | 0.00403937 | -0.0532447 | mg/L | 0.00403937 | 7.59% |
| Se 196.026† | -21.3 | -0.0194450 | mg/L | 0.00716161 | -0.0194450 | mg/L | 0.00716161 | 36.83% |
| Sn 189.927† | -5.6 | -0.0013836 | mg/L | 0.00054928 | -0.0013836 | mg/L | 0.00054928 | 39.70% |
| Ti 334.940† | 15465.8 | 0.0211457 | mg/L | 0.00147396 | 0.0211457 | mg/L | 0.00147396 | 6.97% |
| Tl 190.801† | -11.7 | 0.0029112 | mg/L | 0.00346169 | 0.0029112 | mg/L | 0.00346169 | 118.91% |
| V 290.880† | -244.6 | 0.0021124 | mg/L | 0.00065203 | 0.0021124 | mg/L | 0.00065203 | 30.87% |
| Zn 206.200† | 1559.3 | 0.0337241 | mg/L | 0.00038338 | 0.0337241 | mg/L | 0.00038338 | 1.14% |
| Si 251.611† | 637107.7 | 14.0691 | mg/L | 0.03221 | 14.0691 | mg/L | 0.03221 | 0.23% |
| B 249.772† | 95032.0 | 0.941739 | mg/L | 0.0122414 | 0.941739 | mg/L | 0.0122414 | 1.30% |
| Ce 413.764 | -169.9 | -0.0232250 | mg/L | 0.00099168 | -0.0232250 | mg/L | 0.00099168 | 4.27% |

Sequence No.: 15
Sample ID: AD26083-005
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 9/29/2021 11:04:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-005

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 804140.6 | 99.3 | % | 1.51 | | | | 1.52% |
| Y 371.029 | 846253.6 | 99.6 | % | 1.43 | | | | 1.43% |
| Ag 328.068† | 99.7 | 0.0009884 | mg/L | 0.00025869 | 0.0009884 | mg/L | 0.00025869 | 26.17% |
| Al 308.215† | 723.7 | 0.0336166 | mg/L | 0.00364517 | 0.0336166 | mg/L | 0.00364517 | 10.84% |
| As 188.979† | 3.5 | 0.0059609 | mg/L | 0.00123616 | 0.0059609 | mg/L | 0.00123616 | 20.74% |
| Ba 233.527† | -37.8 | 0.0011760 | mg/L | 0.00023272 | 0.0011760 | mg/L | 0.00023272 | 19.79% |
| Be 313.107† | 529.2 | 0.0038181 | mg/L | 0.00001494 | 0.0038181 | mg/L | 0.00001494 | 0.39% |
| Ca 315.887† | 11077.1 | 0.351836 | mg/L | 0.0039559 | 0.351836 | mg/L | 0.0039559 | 1.12% |
| Cd 228.802† | 11.0 | 0.0035338 | mg/L | 0.00018108 | 0.0035338 | mg/L | 0.00018108 | 5.12% |
| Co 228.616† | 22.9 | 0.0012983 | mg/L | 0.00005176 | 0.0012983 | mg/L | 0.00005176 | 3.99% |
| Cr 267.716† | -17.5 | 0.0015330 | mg/L | 0.00059024 | 0.0015330 | mg/L | 0.00059024 | 38.50% |
| Cu 327.393† | 87.3 | 0.0020113 | mg/L | 0.00065401 | 0.0020113 | mg/L | 0.00065401 | 32.52% |
| Fe 273.955† | 359.0 | 0.0201837 | mg/L | 0.00164865 | 0.0201837 | mg/L | 0.00164865 | 8.17% |
| K 404.721† | 420.5 | 2.57877 | mg/L | 0.970328 | 2.57877 | mg/L | 0.970328 | 37.63% |
| Mg 279.077† | 53.7 | 0.0039238 | mg/L | 0.00172501 | 0.0039238 | mg/L | 0.00172501 | 43.96% |
| Mn 257.610† | 599.8 | 0.0020337 | mg/L | 0.00005367 | 0.0020337 | mg/L | 0.00005367 | 2.64% |
| Mo 202.031† | 22.8 | 0.0036380 | mg/L | 0.00024208 | 0.0036380 | mg/L | 0.00024208 | 6.65% |
| Na 330.237† | 184.1 | 1.18148 | mg/L | 0.088512 | 1.18148 | mg/L | 0.088512 | 7.49% |
| Ni 231.604† | 82.3 | 0.0033718 | mg/L | 0.00096685 | 0.0033718 | mg/L | 0.00096685 | 28.67% |
| Pb 220.353† | -10.4 | -0.0007133 | mg/L | 0.00086850 | -0.0007133 | mg/L | 0.00086850 | 121.76% |
| Sb 206.836† | -11.4 | -0.0049624 | mg/L | 0.00349199 | -0.0049624 | mg/L | 0.00349199 | 70.37% |
| Se 196.026† | 2.5 | 0.0037189 | mg/L | 0.00389171 | 0.0037189 | mg/L | 0.00389171 | 104.65% |
| Sn 189.927† | 4.0 | 0.0009556 | mg/L | 0.00092097 | 0.0009556 | mg/L | 0.00092097 | 96.38% |
| Ti 334.940† | 552.9 | 0.0040761 | mg/L | 0.00010343 | 0.0040761 | mg/L | 0.00010343 | 2.54% |
| Tl 190.801† | -1.7 | 0.0012197 | mg/L | 0.00245447 | 0.0012197 | mg/L | 0.00245447 | 201.24% |
| V 290.880† | -72.7 | 0.0031612 | mg/L | 0.00041992 | 0.0031612 | mg/L | 0.00041992 | 13.28% |
| Zn 206.200† | 213.3 | 0.0072081 | mg/L | 0.00013971 | 0.0072081 | mg/L | 0.00013971 | 1.94% |
| Si 251.611† | 2177.8 | -0.0448481 | mg/L | 0.00213301 | -0.0448481 | mg/L | 0.00213301 | 4.76% |
| B 249.772† | 342.2 | 0.0091086 | mg/L | 0.00245744 | 0.0091086 | mg/L | 0.00245744 | 26.98% |
| Ce 413.764 | 118.3 | -0.0176073 | mg/L | 0.00043690 | -0.0176073 | mg/L | 0.00043690 | 2.48% |

Sequence No.: 16
Sample ID: AD26083-008
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 9/29/2021 11:08:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-008

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 737854.6 | 91.1 | % | 0.16 | | | | 0.17% |
| Y 371.029 | 759535.1 | 89.4 | % | 0.17 | | | | 0.19% |
| Ag 328.068† | 107.0 | 0.0011379 | mg/L | 0.00028483 | 0.0011379 | mg/L | 0.00028483 | 25.03% |
| Al 308.215† | 5800.0 | 0.198007 | mg/L | 0.0068828 | 0.198007 | mg/L | 0.0068828 | 3.48% |
| As 188.979† | 5.4 | 0.0073275 | mg/L | 0.00408600 | 0.0073275 | mg/L | 0.00408600 | 55.76% |
| Ba 233.527† | 11801.2 | 0.123744 | mg/L | 0.0005697 | 0.123744 | mg/L | 0.0005697 | 0.46% |
| Be 313.107† | 316.7 | 0.0037535 | mg/L | 0.00004828 | 0.0037535 | mg/L | 0.00004828 | 1.29% |
| Ca 315.887† | 18687825.5 | 135.696 | mg/L | 0.8956 | 135.696 | mg/L | 0.8956 | 0.66% |
| Cd 228.802† | -4.2 | 0.0036919 | mg/L | 0.00043281 | 0.0036919 | mg/L | 0.00043281 | 11.72% |
| Co 228.616† | 39.2 | 0.0021367 | mg/L | 0.00029376 | 0.0021367 | mg/L | 0.00029376 | 13.75% |
| Cr 267.716† | -187.4 | 0.0000919 | mg/L | 0.00033513 | 0.0000919 | mg/L | 0.00033513 | 364.56% |
| Cu 327.393† | -1290.3 | -0.0088252 | mg/L | 0.00026452 | -0.0088252 | mg/L | 0.00026452 | 3.00% |
| Fe 273.955† | 50852.5 | 1.70044 | mg/L | 0.006012 | 1.70044 | mg/L | 0.006012 | 0.35% |
| K 404.721† | 1583.0 | 11.0764 | mg/L | 0.44841 | 11.0764 | mg/L | 0.44841 | 4.05% |
| Mg 279.077† | 1515861.9 | 60.1573 | mg/L | 0.02226 | 60.1573 | mg/L | 0.02226 | 0.04% |
| Mn 257.610† | 360838.9 | 0.434450 | mg/L | 0.0003654 | 0.434450 | mg/L | 0.0003654 | 0.08% |
| Mo 202.031† | 90.7 | 0.0088763 | mg/L | 0.00011380 | 0.0088763 | mg/L | 0.00011380 | 1.28% |
| Na 330.237† | 55594.1 | 39.9434 | mg/L | 0.10518 | 39.9434 | mg/L | 0.10518 | 0.26% |
| Ni 231.604† | 266.0 | 0.0089306 | mg/L | 0.00031051 | 0.0089306 | mg/L | 0.00031051 | 3.48% |
| Pb 220.353† | -44.4 | -0.0070635 | mg/L | 0.00153793 | -0.0070635 | mg/L | 0.00153793 | 21.77% |
| Sb 206.836† | -43.2 | -0.0310502 | mg/L | 0.00242308 | -0.0310502 | mg/L | 0.00242308 | 7.80% |
| Se 196.026† | -14.4 | -0.0126685 | mg/L | 0.00935449 | -0.0126685 | mg/L | 0.00935449 | 73.84% |
| Sn 189.927† | -21.6 | -0.0052824 | mg/L | 0.00240850 | -0.0052824 | mg/L | 0.00240850 | 45.60% |
| Ti 334.940† | 7344.6 | 0.0118501 | mg/L | 0.00035037 | 0.0118501 | mg/L | 0.00035037 | 2.96% |
| Tl 190.801† | -16.0 | -0.0059156 | mg/L | 0.00294076 | -0.0059156 | mg/L | 0.00294076 | 49.71% |
| V 290.880† | -938.3 | -0.0021211 | mg/L | 0.00066066 | -0.0021211 | mg/L | 0.00066066 | 31.15% |
| Zn 206.200† | 1130.6 | 0.0252784 | mg/L | 0.00019271 | 0.0252784 | mg/L | 0.00019271 | 0.76% |
| Si 251.611† | 714196.8 | 15.7830 | mg/L | 0.03013 | 15.7830 | mg/L | 0.03013 | 0.19% |
| B 249.772† | 8261.7 | 0.0809348 | mg/L | 0.00050943 | 0.0809348 | mg/L | 0.00050943 | 0.63% |
| Ce 413.764 | 9.1 | -0.0197373 | mg/L | 0.00212747 | -0.0197373 | mg/L | 0.00212747 | 10.78% |

Sequence No.: 17
Sample ID: AD26083-009
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 9/29/2021 11:12:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-009

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 734570.5 | 90.7 | % | 0.53 | | | | 0.58% |
| Y 371.029 | 756050.4 | 88.9 | % | 0.60 | | | | 0.68% |
| Ag 328.068† | 98.2 | 0.0010886 | mg/L | 0.00039953 | 0.0010886 | mg/L | 0.00039953 | 36.70% |
| Al 308.215† | 3977.7 | 0.138995 | mg/L | 0.0009799 | 0.138995 | mg/L | 0.0009799 | 0.70% |
| As 188.979† | 5.0 | 0.0070468 | mg/L | 0.00162476 | 0.0070468 | mg/L | 0.00162476 | 23.06% |
| Ba 233.527† | 11780.7 | 0.123532 | mg/L | 0.0010091 | 0.123532 | mg/L | 0.0010091 | 0.82% |
| Be 313.107† | 267.3 | 0.0037385 | mg/L | 0.00003007 | 0.0037385 | mg/L | 0.00003007 | 0.80% |
| Ca 315.887† | 18585335.2 | 134.953 | mg/L | 1.5050 | 134.953 | mg/L | 1.5050 | 1.12% |
| Cd 228.802† | 0.4 | 0.0037904 | mg/L | 0.00024474 | 0.0037904 | mg/L | 0.00024474 | 6.46% |
| Co 228.616† | 24.7 | 0.0016889 | mg/L | 0.00041762 | 0.0016889 | mg/L | 0.00041762 | 24.73% |
| Cr 267.716† | -202.5 | -0.0000362 | mg/L | 0.00019638 | -0.0000362 | mg/L | 0.00019638 | 542.87% |
| Cu 327.393† | -1294.4 | -0.0088681 | mg/L | 0.00034872 | -0.0088681 | mg/L | 0.00034872 | 3.93% |
| Fe 273.955† | 50475.4 | 1.68789 | mg/L | 0.000493 | 1.68789 | mg/L | 0.000493 | 0.03% |
| K 404.721† | 1774.9 | 12.4792 | mg/L | 1.34081 | 12.4792 | mg/L | 1.34081 | 10.74% |
| Mg 279.077† | 1513415.5 | 60.0602 | mg/L | 0.11346 | 60.0602 | mg/L | 0.11346 | 0.19% |
| Mn 257.610† | 354988.1 | 0.427427 | mg/L | 0.0003947 | 0.427427 | mg/L | 0.0003947 | 0.09% |
| Mo 202.031† | 94.4 | 0.0091507 | mg/L | 0.00079998 | 0.0091507 | mg/L | 0.00079998 | 8.74% |
| Na 330.237† | 58517.3 | 41.9883 | mg/L | 0.01763 | 41.9883 | mg/L | 0.01763 | 0.04% |
| Ni 231.604† | 295.7 | 0.0098284 | mg/L | 0.00063065 | 0.0098284 | mg/L | 0.00063065 | 6.42% |
| Pb 220.353† | -43.5 | -0.0068795 | mg/L | 0.00079356 | -0.0068795 | mg/L | 0.00079356 | 11.54% |
| Sb 206.836† | -43.6 | -0.0314302 | mg/L | 0.00306087 | -0.0314302 | mg/L | 0.00306087 | 9.74% |
| Se 196.026† | -7.0 | -0.0054891 | mg/L | 0.00851425 | -0.0054891 | mg/L | 0.00851425 | 155.11% |
| Sn 189.927† | -27.8 | -0.0067826 | mg/L | 0.00220842 | -0.0067826 | mg/L | 0.00220842 | 32.56% |
| Ti 334.940† | 4839.1 | 0.0089822 | mg/L | 0.00005702 | 0.0089822 | mg/L | 0.00005702 | 0.63% |
| Tl 190.801† | -12.7 | -0.0021000 | mg/L | 0.00557480 | -0.0021000 | mg/L | 0.00557480 | 265.47% |
| V 290.880† | -904.2 | -0.0019129 | mg/L | 0.00038530 | -0.0019129 | mg/L | 0.00038530 | 20.14% |
| Zn 206.200† | 1090.5 | 0.0244902 | mg/L | 0.00024597 | 0.0244902 | mg/L | 0.00024597 | 1.00% |
| Si 251.611† | 716119.3 | 15.8258 | mg/L | 0.01678 | 15.8258 | mg/L | 0.01678 | 0.11% |
| B 249.772† | 9103.8 | 0.0893072 | mg/L | 0.00100418 | 0.0893072 | mg/L | 0.00100418 | 1.12% |
| Ce 413.764 | 24.8 | -0.0194309 | mg/L | 0.00153125 | -0.0194309 | mg/L | 0.00153125 | 7.88% |

Sequence No.: 18
Sample ID: AD26083-011
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 9/29/2021 11:17:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-011

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 755550.7 | 93.3 | % | 0.37 | | | | 0.40% |
| Y 371.029 | 782215.6 | 92.0 | % | 0.42 | | | | 0.45% |
| Ag 328.068† | 107.7 | 0.0010468 | mg/L | 0.00041485 | 0.0010468 | mg/L | 0.00041485 | 39.63% |
| Al 308.215† | 1373.2 | 0.0546508 | mg/L | 0.00062474 | 0.0546508 | mg/L | 0.00062474 | 1.14% |
| As 188.979† | 9.9 | 0.0106692 | mg/L | 0.00094394 | 0.0106692 | mg/L | 0.00094394 | 8.85% |
| Ba 233.527† | 29275.8 | 0.304657 | mg/L | 0.0004107 | 0.304657 | mg/L | 0.0004107 | 0.13% |
| Be 313.107† | 457.5 | 0.0037963 | mg/L | 0.00001668 | 0.0037963 | mg/L | 0.00001668 | 0.44% |
| Ca 315.887† | 10677563.2 | 77.6482 | mg/L | 0.28285 | 77.6482 | mg/L | 0.28285 | 0.36% |
| Cd 228.802† | 4.2 | 0.0034775 | mg/L | 0.00007499 | 0.0034775 | mg/L | 0.00007499 | 2.16% |
| Co 228.616† | 6.9 | 0.0016544 | mg/L | 0.00007190 | 0.0016544 | mg/L | 0.00007190 | 4.35% |
| Cr 267.716† | -82.9 | 0.0009785 | mg/L | 0.00002592 | 0.0009785 | mg/L | 0.00002592 | 2.65% |
| Cu 327.393† | -764.7 | -0.0045195 | mg/L | 0.00022541 | -0.0045195 | mg/L | 0.00022541 | 4.99% |
| Fe 273.955† | 7105.3 | 0.244676 | mg/L | 0.0015776 | 0.244676 | mg/L | 0.0015776 | 0.64% |
| K 404.721† | 842.8 | 5.66590 | mg/L | 0.684913 | 5.66590 | mg/L | 0.684913 | 12.09% |
| Mg 279.077† | 397383.1 | 15.7715 | mg/L | 0.00690 | 15.7715 | mg/L | 0.00690 | 0.04% |
| Mn 257.610† | 513161.3 | 0.617291 | mg/L | 0.0004289 | 0.617291 | mg/L | 0.0004289 | 0.07% |
| Mo 202.031† | 77.9 | 0.0078793 | mg/L | 0.00015985 | 0.0078793 | mg/L | 0.00015985 | 2.03% |
| Na 330.237† | 27563.4 | 20.3346 | mg/L | 0.14569 | 20.3346 | mg/L | 0.14569 | 0.72% |
| Ni 231.604† | 170.6 | 0.0060432 | mg/L | 0.00039907 | 0.0060432 | mg/L | 0.00039907 | 6.60% |
| Pb 220.353† | -25.4 | -0.0039192 | mg/L | 0.00137087 | -0.0039192 | mg/L | 0.00137087 | 34.98% |
| Sb 206.836† | -31.4 | -0.0214112 | mg/L | 0.00350752 | -0.0214112 | mg/L | 0.00350752 | 16.38% |
| Se 196.026† | -9.2 | -0.0076838 | mg/L | 0.00796791 | -0.0076838 | mg/L | 0.00796791 | 103.70% |
| Sn 189.927† | -25.2 | -0.0061539 | mg/L | 0.00034162 | -0.0061539 | mg/L | 0.00034162 | 5.55% |
| Ti 334.940† | 1165.8 | 0.0047777 | mg/L | 0.00003291 | 0.0047777 | mg/L | 0.00003291 | 0.69% |
| Tl 190.801† | -9.5 | -0.0024213 | mg/L | 0.00432383 | -0.0024213 | mg/L | 0.00432383 | 178.58% |
| V 290.880† | -229.3 | 0.0022061 | mg/L | 0.00022246 | 0.0022061 | mg/L | 0.00022246 | 10.08% |
| Zn 206.200† | 45.6 | 0.0039056 | mg/L | 0.00010147 | 0.0039056 | mg/L | 0.00010147 | 2.60% |
| Si 251.611† | 430436.6 | 9.47481 | mg/L | 0.011544 | 9.47481 | mg/L | 0.011544 | 0.12% |
| B 249.772† | 845.3 | 0.0132188 | mg/L | 0.00051172 | 0.0132188 | mg/L | 0.00051172 | 3.87% |
| Ce 413.764 | 29.6 | -0.0193372 | mg/L | 0.00026172 | -0.0193372 | mg/L | 0.00026172 | 1.35% |

Sequence No.: 19
Sample ID: AD26083-018
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 9/29/2021 11:21:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-018

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 752464.9 | 92.9 | % | 0.49 | | | | 0.53% |
| Y 371.029 | 777259.7 | 91.4 | % | 0.46 | | | | 0.50% |
| Ag 328.068† | 143.9 | 0.0015135 | mg/L | 0.00026305 | 0.0015135 | mg/L | 0.00026305 | 17.38% |
| Al 308.215† | 49295.6 | 1.60656 | mg/L | 0.001403 | 1.60656 | mg/L | 0.001403 | 0.09% |
| As 188.979† | 19.3 | 0.0174481 | mg/L | 0.00062637 | 0.0174481 | mg/L | 0.00062637 | 3.59% |
| Ba 233.527† | 11139.7 | 0.116896 | mg/L | 0.0006904 | 0.116896 | mg/L | 0.0006904 | 0.59% |
| Be 313.107† | 1384.7 | 0.0040780 | mg/L | 0.00001872 | 0.0040780 | mg/L | 0.00001872 | 0.46% |
| Ca 315.887† | 1840108.4 | 13.6062 | mg/L | 0.01298 | 13.6062 | mg/L | 0.01298 | 0.10% |
| Cd 228.802† | -41.9 | 0.0037890 | mg/L | 0.00021452 | 0.0037890 | mg/L | 0.00021452 | 5.66% |
| Co 228.616† | 133.3 | 0.0048776 | mg/L | 0.00030968 | 0.0048776 | mg/L | 0.00030968 | 6.35% |
| Cr 267.716† | 899.7 | 0.0093166 | mg/L | 0.00057004 | 0.0093166 | mg/L | 0.00057004 | 6.12% |
| Cu 327.393† | 7939.6 | 0.0691047 | mg/L | 0.00016402 | 0.0691047 | mg/L | 0.00016402 | 0.24% |
| Fe 273.955† | 126008.8 | 4.20139 | mg/L | 0.002848 | 4.20139 | mg/L | 0.002848 | 0.07% |
| K 404.721† | 1234.6 | 8.53004 | mg/L | 0.570903 | 8.53004 | mg/L | 0.570903 | 6.69% |
| Mg 279.077† | 396558.3 | 15.7388 | mg/L | 0.03492 | 15.7388 | mg/L | 0.03492 | 0.22% |
| Mn 257.610† | 148511.1 | 0.179580 | mg/L | 0.0001759 | 0.179580 | mg/L | 0.0001759 | 0.10% |
| Mo 202.031† | 65.6 | 0.0070530 | mg/L | 0.00045040 | 0.0070530 | mg/L | 0.00045040 | 6.39% |
| Na 330.237† | 130428.8 | 92.2938 | mg/L | 0.14300 | 92.2938 | mg/L | 0.14300 | 0.15% |
| Ni 231.604† | 1121.5 | 0.0348218 | mg/L | 0.00110798 | 0.0348218 | mg/L | 0.00110798 | 3.18% |
| Pb 220.353† | 6.5 | 0.0048003 | mg/L | 0.00063782 | 0.0048003 | mg/L | 0.00063782 | 13.29% |
| Sb 206.836† | -42.0 | -0.0296571 | mg/L | 0.00666449 | -0.0296571 | mg/L | 0.00666449 | 22.47% |
| Se 196.026† | -6.4 | -0.0049426 | mg/L | 0.00292921 | -0.0049426 | mg/L | 0.00292921 | 59.26% |
| Sn 189.927† | -6.9 | -0.0016969 | mg/L | 0.00094841 | -0.0016969 | mg/L | 0.00094841 | 55.89% |
| Ti 334.940† | 73790.8 | 0.0879057 | mg/L | 0.00006330 | 0.0879057 | mg/L | 0.00006330 | 0.07% |
| Tl 190.801† | -8.5 | -0.0055434 | mg/L | 0.00010528 | -0.0055434 | mg/L | 0.00010528 | 1.90% |
| V 290.880† | 610.1 | 0.0073284 | mg/L | 0.00041555 | 0.0073284 | mg/L | 0.00041555 | 5.67% |
| Zn 206.200† | 3521.0 | 0.0723699 | mg/L | 0.00053264 | 0.0723699 | mg/L | 0.00053264 | 0.74% |
| Si 251.611† | 548318.9 | 12.0969 | mg/L | 0.01393 | 12.0969 | mg/L | 0.01393 | 0.12% |
| B 249.772† | 14771.8 | 0.135670 | mg/L | 0.0021337 | 0.135670 | mg/L | 0.0021337 | 1.57% |
| Ce 413.764 | 289.7 | -0.0142665 | mg/L | 0.00061743 | -0.0142665 | mg/L | 0.00061743 | 4.33% |

Sequence No.: 20
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 11:25:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 743710.9 | 91.8 | % | 0.46 | | | | 0.50% |
| Y 371.029 | 766794.9 | 90.2 | % | 0.48 | | | | 0.53% |
| Ag 328.068† | 17493.1 | 0.0990290 | mg/L | 0.00033321 | 0.0990290 | mg/L | 0.00033321 | 0.34% |
| QC value within limits for Ag 328.068 Recovery = 99.03% | | | | | | | | |
| Al 308.215† | 154096.8 | 5.00043 | mg/L | 0.008375 | 5.00043 | mg/L | 0.008375 | 0.17% |
| QC value within limits for Al 308.215 Recovery = 100.01% | | | | | | | | |
| As 188.979† | 681.9 | 0.504809 | mg/L | 0.0051730 | 0.504809 | mg/L | 0.0051730 | 1.02% |
| QC value within limits for As 188.979 Recovery = 100.96% | | | | | | | | |
| Ba 233.527† | 47397.3 | 0.492267 | mg/L | 0.0016542 | 0.492267 | mg/L | 0.0016542 | 0.34% |
| QC value within limits for Ba 233.527 Recovery = 98.45% | | | | | | | | |
| Be 313.107† | 1604103.2 | 0.491008 | mg/L | 0.0005750 | 0.491008 | mg/L | 0.0005750 | 0.12% |
| QC value within limits for Be 313.107 Recovery = 98.20% | | | | | | | | |
| Ca 315.887† | 6810464.0 | 49.6247 | mg/L | 0.05534 | 49.6247 | mg/L | 0.05534 | 0.11% |
| QC value within limits for Ca 315.887 Recovery = 99.25% | | | | | | | | |
| Cd 228.802† | 24351.2 | 0.502830 | mg/L | 0.0023632 | 0.502830 | mg/L | 0.0023632 | 0.47% |
| QC value within limits for Cd 228.802 Recovery = 100.57% | | | | | | | | |
| Co 228.616† | 15804.2 | 0.496725 | mg/L | 0.0031467 | 0.496725 | mg/L | 0.0031467 | 0.63% |
| QC value within limits for Co 228.616 Recovery = 99.35% | | | | | | | | |
| Cr 267.716† | 58304.9 | 0.496434 | mg/L | 0.0009258 | 0.496434 | mg/L | 0.0009258 | 0.19% |
| QC value within limits for Cr 267.716 Recovery = 99.29% | | | | | | | | |
| Cu 327.393† | 57666.9 | 0.494179 | mg/L | 0.0014792 | 0.494179 | mg/L | 0.0014792 | 0.30% |
| QC value within limits for Cu 327.393 Recovery = 98.84% | | | | | | | | |
| Fe 273.955† | 148632.1 | 4.95421 | mg/L | 0.013625 | 4.95421 | mg/L | 0.013625 | 0.28% |
| QC value within limits for Fe 273.955 Recovery = 99.08% | | | | | | | | |
| K 404.721† | 7143.5 | 51.7252 | mg/L | 1.38543 | 51.7252 | mg/L | 1.38543 | 2.68% |
| QC value within limits for K 404.721 Recovery = 103.45% | | | | | | | | |
| Mg 279.077† | 1263668.6 | 50.1492 | mg/L | 0.07160 | 50.1492 | mg/L | 0.07160 | 0.14% |
| QC value within limits for Mg 279.077 Recovery = 100.30% | | | | | | | | |
| Mn 257.610† | 410997.5 | 0.494658 | mg/L | 0.0012933 | 0.494658 | mg/L | 0.0012933 | 0.26% |
| QC value within limits for Mn 257.610 Recovery = 98.93% | | | | | | | | |
| Mo 202.031† | 6431.6 | 0.496828 | mg/L | 0.0032760 | 0.496828 | mg/L | 0.0032760 | 0.66% |
| QC value within limits for Mo 202.031 Recovery = 99.37% | | | | | | | | |
| Na 330.237† | 67499.0 | 48.2714 | mg/L | 0.17110 | 48.2714 | mg/L | 0.17110 | 0.35% |
| QC value within limits for Na 330.237 Recovery = 96.54% | | | | | | | | |
| Ni 231.604† | 16451.4 | 0.498804 | mg/L | 0.0027643 | 0.498804 | mg/L | 0.0027643 | 0.55% |
| QC value within limits for Ni 231.604 Recovery = 99.76% | | | | | | | | |
| Pb 220.353† | 1979.7 | 0.501271 | mg/L | 0.0040080 | 0.501271 | mg/L | 0.0040080 | 0.80% |
| QC value within limits for Pb 220.353 Recovery = 100.25% | | | | | | | | |
| Sb 206.836† | 567.1 | 0.476597 | mg/L | 0.0061477 | 0.476597 | mg/L | 0.0061477 | 1.29% |
| QC value within limits for Sb 206.836 Recovery = 95.32% | | | | | | | | |
| Se 196.026† | 495.5 | 0.483082 | mg/L | 0.0005619 | 0.483082 | mg/L | 0.0005619 | 0.12% |
| QC value within limits for Se 196.026 Recovery = 96.62% | | | | | | | | |
| Sn 189.927† | 2055.2 | 0.499651 | mg/L | 0.0039273 | 0.499651 | mg/L | 0.0039273 | 0.79% |
| QC value within limits for Sn 189.927 Recovery = 99.93% | | | | | | | | |
| Ti 334.940† | 424724.6 | 0.489591 | mg/L | 0.0009158 | 0.489591 | mg/L | 0.0009158 | 0.19% |
| QC value within limits for Ti 334.940 Recovery = 97.92% | | | | | | | | |
| Tl 190.801† | 435.4 | 0.504689 | mg/L | 0.0059238 | 0.504689 | mg/L | 0.0059238 | 1.17% |
| QC value within limits for Tl 190.801 Recovery = 100.94% | | | | | | | | |
| V 290.880† | 80136.1 | 0.492674 | mg/L | 0.0013038 | 0.492674 | mg/L | 0.0013038 | 0.26% |
| QC value within limits for V 290.880 Recovery = 98.53% | | | | | | | | |
| Zn 206.200† | 24800.9 | 0.491584 | mg/L | 0.0023353 | 0.491584 | mg/L | 0.0023353 | 0.48% |
| QC value within limits for Zn 206.200 Recovery = 98.32% | | | | | | | | |
| Si 251.611† | 222351.3 | 4.85151 | mg/L | 0.009426 | 4.85151 | mg/L | 0.009426 | 0.19% |
| QC value within limits for Si 251.611 Recovery = 97.03% | | | | | | | | |
| B 249.772† | 46596.9 | 0.447386 | mg/L | 0.0053758 | 0.447386 | mg/L | 0.0053758 | 1.20% |
| QC value less than the lower limit for B 249.772 Recovery = 89.48% | | | | | | | | |
| Ce 413.764 | 26389.7 | 0.494506 | mg/L | 0.0036720 | 0.494506 | mg/L | 0.0036720 | 0.74% |
| QC value within limits for Ce 413.764 Recovery = 98.90% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 21
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 11:29:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 790468.4 | 97.6 | % | 0.68 | | | | 0.70% |
| Y 371.029 | 835063.2 | 98.2 | % | 0.45 | | | | 0.46% |
| Ag 328.068† | 122.2 | 0.0011126 | mg/L | 0.00022920 | 0.0011126 | mg/L | 0.00022920 | 20.60% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 224.0 | 0.0174353 | mg/L | 0.00274261 | 0.0174353 | mg/L | 0.00274261 | 15.73% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 9.9 | 0.0106119 | mg/L | 0.00216722 | 0.0106119 | mg/L | 0.00216722 | 20.42% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -132.0 | 0.0002002 | mg/L | 0.00013706 | 0.0002002 | mg/L | 0.00013706 | 68.47% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 884.2 | 0.0039260 | mg/L | 0.00007545 | 0.0039260 | mg/L | 0.00007545 | 1.92% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 814.6 | 0.277467 | mg/L | 0.0005658 | 0.277467 | mg/L | 0.0005658 | 0.20% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 29.8 | 0.0039210 | mg/L | 0.00030520 | 0.0039210 | mg/L | 0.00030520 | 7.78% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 48.1 | 0.0020853 | mg/L | 0.00035111 | 0.0020853 | mg/L | 0.00035111 | 16.84% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -72.1 | 0.0010704 | mg/L | 0.00006690 | 0.0010704 | mg/L | 0.00006690 | 6.25% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -10.7 | 0.0011729 | mg/L | 0.00096615 | 0.0011729 | mg/L | 0.00096615 | 82.38% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -158.6 | 0.0029608 | mg/L | 0.00175094 | 0.0029608 | mg/L | 0.00175094 | 59.14% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 577.1 | 3.72335 | mg/L | 0.492057 | 3.72335 | mg/L | 0.492057 | 13.22% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -160.8 | -0.0045881 | mg/L | 0.00171883 | -0.0045881 | mg/L | 0.00171883 | 37.46% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 10.3 | 0.0013261 | mg/L | 0.00002606 | 0.0013261 | mg/L | 0.00002606 | 1.97% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 23.5 | 0.0036885 | mg/L | 0.00030088 | 0.0036885 | mg/L | 0.00030088 | 8.16% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | -110.1 | 0.975710 | mg/L | 0.0688928 | 0.975710 | mg/L | 0.0688928 | 7.06% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 118.2 | 0.0044569 | mg/L | 0.00029845 | 0.0044569 | mg/L | 0.00029845 | 6.70% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -17.6 | -0.0025156 | mg/L | 0.00142722 | -0.0025156 | mg/L | 0.00142722 | 56.74% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -20.7 | -0.0126636 | mg/L | 0.00261865 | -0.0126636 | mg/L | 0.00261865 | 20.68% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 4.9 | 0.0060978 | mg/L | 0.00863321 | 0.0060978 | mg/L | 0.00863321 | 141.58% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -7.1 | -0.0017398 | mg/L | 0.00124741 | -0.0017398 | mg/L | 0.00124741 | 71.70% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 77.2 | 0.0035317 | mg/L | 0.00005804 | 0.0035317 | mg/L | 0.00005804 | 1.64% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -3.0 | -0.0003327 | mg/L | 0.00216916 | -0.0003327 | mg/L | 0.00216916 | 651.99% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 5.7 | 0.0036402 | mg/L | 0.00096317 | 0.0036402 | mg/L | 0.00096317 | 26.46% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 10.5 | 0.0032131 | mg/L | 0.00003940 | 0.0032131 | mg/L | 0.00003940 | 1.23% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 289.7 | -0.0868267 | mg/L | 0.00127817 | -0.0868267 | mg/L | 0.00127817 | 1.47% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -585.6 | 0.0000032 | mg/L | 0.00135164 | 0.0000032 | mg/L | 0.00135164 | >999.9% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | 92.3 | -0.0181153 | mg/L | 0.00170602 | -0.0181153 | mg/L | 0.00170602 | 9.42% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 22
Sample ID: AD26083-026
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 9/29/2021 11:33:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-026

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 761691.4 | 94.0 | % | 0.15 | | | | 0.16% |
| Y 371.029 | 787726.2 | 92.7 | % | 0.09 | | | | 0.10% |
| Ag 328.068† | 142.3 | 0.0012366 | mg/L | 0.00071421 | 0.0012366 | mg/L | 0.00071421 | 57.76% |
| Al 308.215† | 4884.3 | 0.168353 | mg/L | 0.0018452 | 0.168353 | mg/L | 0.0018452 | 1.10% |
| As 188.979† | 8.3 | 0.0094598 | mg/L | 0.00352184 | 0.0094598 | mg/L | 0.00352184 | 37.23% |
| Ba 233.527† | 41677.6 | 0.433051 | mg/L | 0.0028794 | 0.433051 | mg/L | 0.0028794 | 0.66% |
| Be 313.107† | 729.1 | 0.0038788 | mg/L | 0.00004405 | 0.0038788 | mg/L | 0.00004405 | 1.14% |
| Ca 315.887† | 8281875.4 | 60.2875 | mg/L | 0.12368 | 60.2875 | mg/L | 0.12368 | 0.21% |
| Cd 228.802† | 35.6 | 0.0041882 | mg/L | 0.00042022 | 0.0041882 | mg/L | 0.00042022 | 10.03% |
| Co 228.616† | 6.0 | 0.0019837 | mg/L | 0.00036170 | 0.0019837 | mg/L | 0.00036170 | 18.23% |
| Cr 267.716† | -80.8 | 0.0009965 | mg/L | 0.00024823 | 0.0009965 | mg/L | 0.00024823 | 24.91% |
| Cu 327.393† | 300.7 | 0.0044069 | mg/L | 0.00034627 | 0.0044069 | mg/L | 0.00034627 | 7.86% |
| Fe 273.955† | 4728.4 | 0.165583 | mg/L | 0.0017008 | 0.165583 | mg/L | 0.0017008 | 1.03% |
| K 404.721† | 419.9 | 2.57437 | mg/L | 1.201694 | 2.57437 | mg/L | 1.201694 | 46.68% |
| Mg 279.077† | 331599.8 | 13.1610 | mg/L | 0.11309 | 13.1610 | mg/L | 0.11309 | 0.86% |
| Mn 257.610† | 63645.2 | 0.0777109 | mg/L | 0.00060579 | 0.0777109 | mg/L | 0.00060579 | 0.78% |
| Mo 202.031† | 141.8 | 0.0127978 | mg/L | 0.00011918 | 0.0127978 | mg/L | 0.00011918 | 0.93% |
| Na 330.237† | 56437.2 | 40.5332 | mg/L | 0.27438 | 40.5332 | mg/L | 0.27438 | 0.68% |
| Ni 231.604† | 495.3 | 0.0158716 | mg/L | 0.00051396 | 0.0158716 | mg/L | 0.00051396 | 3.24% |
| Pb 220.353† | -24.6 | -0.0037455 | mg/L | 0.00103824 | -0.0037455 | mg/L | 0.00103824 | 27.72% |
| Sb 206.836† | -29.8 | -0.0200002 | mg/L | 0.00290462 | -0.0200002 | mg/L | 0.00290462 | 14.52% |
| Se 196.026† | -5.0 | -0.0035559 | mg/L | 0.00473032 | -0.0035559 | mg/L | 0.00473032 | 133.03% |
| Sn 189.927† | -13.0 | -0.0031686 | mg/L | 0.00049804 | -0.0031686 | mg/L | 0.00049804 | 15.72% |
| Ti 334.940† | 3788.8 | 0.0077800 | mg/L | 0.00009545 | 0.0077800 | mg/L | 0.00009545 | 1.23% |
| Tl 190.801† | -10.6 | -0.0048494 | mg/L | 0.00084270 | -0.0048494 | mg/L | 0.00084270 | 17.38% |
| V 290.880† | -150.2 | 0.0026886 | mg/L | 0.00037983 | 0.0026886 | mg/L | 0.00037983 | 14.13% |
| Zn 206.200† | 3487.9 | 0.0717191 | mg/L | 0.00009080 | 0.0717191 | mg/L | 0.00009080 | 0.13% |
| Si 251.611† | 239541.8 | 5.23147 | mg/L | 0.041421 | 5.23147 | mg/L | 0.041421 | 0.79% |
| B 249.772† | 18924.7 | 0.192251 | mg/L | 0.0029893 | 0.192251 | mg/L | 0.0029893 | 1.55% |
| Ce 413.764 | 142.7 | -0.0171315 | mg/L | 0.00205847 | -0.0171315 | mg/L | 0.00205847 | 12.02% |

Sequence No.: 23
Sample ID: AD26083-027
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 9/29/2021 11:37:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-027

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 718006.8 | 88.6 | % | 1.35 | | | | 1.53% |
| Y 371.029 | 736811.4 | 86.7 | % | 1.18 | | | | 1.36% |
| Ag 328.068† | 236.7 | 0.0017798 | mg/L | 0.00033731 | 0.0017798 | mg/L | 0.00033731 | 18.95% |
| Al 308.215† | 5618.6 | 0.192132 | mg/L | 0.0079166 | 0.192132 | mg/L | 0.0079166 | 4.12% |
| As 188.979† | 29.6 | 0.0251375 | mg/L | 0.00193294 | 0.0251375 | mg/L | 0.00193294 | 7.69% |
| Ba 233.527† | 9101.4 | 0.0957935 | mg/L | 0.00114445 | 0.0957935 | mg/L | 0.00114445 | 1.19% |
| Be 313.107† | 1286.0 | 0.0040480 | mg/L | 0.00001890 | 0.0040480 | mg/L | 0.00001890 | 0.47% |
| Ca 315.887† | 848192.7 | 6.41813 | mg/L | 0.087719 | 6.41813 | mg/L | 0.087719 | 1.37% |
| Cd 228.802† | 14.3 | 0.0037960 | mg/L | 0.00025551 | 0.0037960 | mg/L | 0.00025551 | 6.73% |
| Co 228.616† | 39.6 | 0.0020706 | mg/L | 0.00017456 | 0.0020706 | mg/L | 0.00017456 | 8.43% |
| Cr 267.716† | 98.7 | 0.0025192 | mg/L | 0.00048599 | 0.0025192 | mg/L | 0.00048599 | 19.29% |
| Cu 327.393† | -543.8 | -0.0033899 | mg/L | 0.00045688 | -0.0033899 | mg/L | 0.00045688 | 13.48% |
| Fe 273.955† | 11899.5 | 0.404212 | mg/L | 0.0050527 | 0.404212 | mg/L | 0.0050527 | 1.25% |
| K 404.721† | 3135.2 | 22.4237 | mg/L | 1.05485 | 22.4237 | mg/L | 1.05485 | 4.70% |
| Mg 279.077† | 172807.5 | 6.85949 | mg/L | 0.097722 | 6.85949 | mg/L | 0.097722 | 1.42% |
| Mn 257.610† | 39133.0 | 0.0482874 | mg/L | 0.00068497 | 0.0482874 | mg/L | 0.00068497 | 1.42% |
| Mo 202.031† | 158.9 | 0.0141197 | mg/L | 0.00085636 | 0.0141197 | mg/L | 0.00085636 | 6.06% |
| Na 330.237† | 569980.9 | 399.781 | mg/L | 6.6158 | 399.781 | mg/L | 6.6158 | 1.65% |
| Ni 231.604† | 425.2 | 0.0137481 | mg/L | 0.00091832 | 0.0137481 | mg/L | 0.00091832 | 6.68% |
| Pb 220.353† | -59.7 | -0.0127243 | mg/L | 0.00260793 | -0.0127243 | mg/L | 0.00260793 | 20.50% |
| Sb 206.836† | -57.3 | -0.0426897 | mg/L | 0.00511948 | -0.0426897 | mg/L | 0.00511948 | 11.99% |
| Se 196.026† | -6.4 | -0.0049821 | mg/L | 0.00368047 | -0.0049821 | mg/L | 0.00368047 | 73.87% |
| Sn 189.927† | -11.0 | -0.0026917 | mg/L | 0.00067115 | -0.0026917 | mg/L | 0.00067115 | 24.93% |
| Ti 334.940† | 6952.8 | 0.0114016 | mg/L | 0.00019217 | 0.0114016 | mg/L | 0.00019217 | 1.69% |
| Tl 190.801† | -8.8 | -0.0065027 | mg/L | 0.00151284 | -0.0065027 | mg/L | 0.00151284 | 23.26% |
| V 290.880† | 845.9 | 0.0087680 | mg/L | 0.00034579 | 0.0087680 | mg/L | 0.00034579 | 3.94% |
| Zn 206.200† | 250.7 | 0.0079458 | mg/L | 0.00024845 | 0.0079458 | mg/L | 0.00024845 | 3.13% |
| Si 251.611† | 366952.0 | 8.06372 | mg/L | 0.124871 | 8.06372 | mg/L | 0.124871 | 1.55% |
| B 249.772† | 53701.2 | 0.535123 | mg/L | 0.0126997 | 0.535123 | mg/L | 0.0126997 | 2.37% |
| Ce 413.764 | 92.5 | -0.0181112 | mg/L | 0.00043992 | -0.0181112 | mg/L | 0.00043992 | 2.43% |

Sequence No.: 24
Sample ID: AD26083-032
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 9/29/2021 11:41:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-032

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 573674.8 | 70.8 | % | 0.10 | | | | 0.14% |
| Y 371.029 | 581087.2 | 68.4 | % | 0.13 | | | | 0.18% |
| Ag 328.068† | -318.3 | 0.0002928 | mg/L | 0.00044252 | 0.0002928 | mg/L | 0.00044252 | 151.15% |
| Al 308.215† | 3172.2 | 0.112909 | mg/L | 0.0013789 | 0.112909 | mg/L | 0.0013789 | 1.22% |
| As 188.979† | 21.2 | 0.0189210 | mg/L | 0.00652119 | 0.0189210 | mg/L | 0.00652119 | 34.47% |
| Ba 233.527† | 7195.7 | 0.0760637 | mg/L | 0.00130789 | 0.0760637 | mg/L | 0.00130789 | 1.72% |
| Be 313.107† | -39.9 | 0.0036452 | mg/L | 0.00003364 | 0.0036452 | mg/L | 0.00003364 | 0.92% |
| Ca 315.887† | 75482289.0 | 547.266 | mg/L | 7.1040 | 547.266 | mg/L | 7.1040 | 1.30% |
| Cd 228.802† | -203.3 | 0.0054648 | mg/L | 0.00026145 | 0.0054648 | mg/L | 0.00026145 | 4.78% |
| Co 228.616† | 48.3 | 0.0022944 | mg/L | 0.00017856 | 0.0022944 | mg/L | 0.00017856 | 7.78% |
| Cr 267.716† | -892.8 | -0.0058943 | mg/L | 0.00060254 | -0.0058943 | mg/L | 0.00060254 | 10.22% |
| Cu 327.393† | -5121.5 | -0.0424342 | mg/L | 0.00078074 | -0.0424342 | mg/L | 0.00078074 | 1.84% |
| Fe 273.955† | 753125.0 | 25.0697 | mg/L | 0.36527 | 25.0697 | mg/L | 0.36527 | 1.46% |
| K 404.721† | 12432.5 | 90.3892 | mg/L | 1.01527 | 90.3892 | mg/L | 1.01527 | 1.12% |
| Mg 279.077† | 14181765.9 | 562.791 | mg/L | 8.3284 | 562.791 | mg/L | 8.3284 | 1.48% |
| Mn 257.610† | 2411903.5 | 2.89646 | mg/L | 0.043715 | 2.89646 | mg/L | 0.043715 | 1.51% |
| Mo 202.031† | 200.9 | 0.0173389 | mg/L | 0.00164657 | 0.0173389 | mg/L | 0.00164657 | 9.50% |
| Na 330.237† | 7672162.4 | 5368.09 | mg/L | 35.120 | 5368.09 | mg/L | 35.120 | 0.65% |
| Ni 231.604† | 555.0 | 0.0176784 | mg/L | 0.00009772 | 0.0176784 | mg/L | 0.00009772 | 0.55% |
| Pb 220.353† | -111.7 | -0.0066658 | mg/L | 0.00197012 | -0.0066658 | mg/L | 0.00197012 | 29.56% |
| Sb 206.836† | -122.4 | -0.0962665 | mg/L | 0.00848937 | -0.0962665 | mg/L | 0.00848937 | 8.82% |
| Se 196.026† | -52.7 | -0.0487385 | mg/L | 0.01411874 | -0.0487385 | mg/L | 0.01411874 | 28.97% |
| Sn 189.927† | -32.3 | -0.0078633 | mg/L | 0.00302025 | -0.0078633 | mg/L | 0.00302025 | 38.41% |
| Ti 334.940† | 5146.5 | 0.0093341 | mg/L | 0.00025603 | 0.0093341 | mg/L | 0.00025603 | 2.74% |
| Tl 190.801† | -30.0 | 0.0062205 | mg/L | 0.00170050 | 0.0062205 | mg/L | 0.00170050 | 27.34% |
| V 290.880† | -2661.9 | -0.0126402 | mg/L | 0.00009641 | -0.0126402 | mg/L | 0.00009641 | 0.76% |
| Zn 206.200† | 329.9 | 0.0095049 | mg/L | 0.00018636 | 0.0095049 | mg/L | 0.00018636 | 1.96% |
| Si 251.611† | 606546.7 | 13.4007 | mg/L | 0.18874 | 13.4007 | mg/L | 0.18874 | 1.41% |
| B 249.772† | 159315.5 | 1.48430 | mg/L | 0.008987 | 1.48430 | mg/L | 0.008987 | 0.61% |
| Ce 413.764 | -238.7 | -0.0245676 | mg/L | 0.00104858 | -0.0245676 | mg/L | 0.00104858 | 4.27% |

Sequence No.: 25
Sample ID: AD26083-033
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 9/29/2021 11:47:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-033

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 813153.2 | 100 | % | 0.9 | | | | 0.92% |
| Y 371.029 | 857114.8 | 101 | % | 0.8 | | | | 0.83% |
| Ag 328.068† | 107.1 | 0.0010302 | mg/L | 0.00018382 | 0.0010302 | mg/L | 0.00018382 | 17.84% |
| Al 308.215† | 336.1 | 0.0210635 | mg/L | 0.00387291 | 0.0210635 | mg/L | 0.00387291 | 18.39% |
| As 188.979† | 10.4 | 0.0109906 | mg/L | 0.00182296 | 0.0109906 | mg/L | 0.00182296 | 16.59% |
| Ba 233.527† | -44.8 | 0.0011034 | mg/L | 0.00003958 | 0.0011034 | mg/L | 0.00003958 | 3.59% |
| Be 313.107† | 733.0 | 0.0038800 | mg/L | 0.00001191 | 0.0038800 | mg/L | 0.00001191 | 0.31% |
| Ca 315.887† | 14516.7 | 0.376761 | mg/L | 0.0136858 | 0.376761 | mg/L | 0.0136858 | 3.63% |
| Cd 228.802† | 28.2 | 0.0038865 | mg/L | 0.00004003 | 0.0038865 | mg/L | 0.00004003 | 1.03% |
| Co 228.616† | 43.9 | 0.0019572 | mg/L | 0.00033276 | 0.0019572 | mg/L | 0.00033276 | 17.00% |
| Cr 267.716† | -50.9 | 0.0012499 | mg/L | 0.00016469 | 0.0012499 | mg/L | 0.00016469 | 13.18% |
| Cu 327.393† | 239.0 | 0.0033075 | mg/L | 0.00138321 | 0.0033075 | mg/L | 0.00138321 | 41.82% |
| Fe 273.955† | 280.2 | 0.0175624 | mg/L | 0.00030819 | 0.0175624 | mg/L | 0.00030819 | 1.75% |
| K 404.721† | 441.0 | 2.72848 | mg/L | 0.588601 | 2.72848 | mg/L | 0.588601 | 21.57% |
| Mg 279.077† | 462.6 | 0.0201486 | mg/L | 0.01594361 | 0.0201486 | mg/L | 0.01594361 | 79.13% |
| Mn 257.610† | 438.7 | 0.0018404 | mg/L | 0.00005814 | 0.0018404 | mg/L | 0.00005814 | 3.16% |
| Mo 202.031† | 13.3 | 0.0029114 | mg/L | 0.00050627 | 0.0029114 | mg/L | 0.00050627 | 17.39% |
| Na 330.237† | 491.7 | 1.39669 | mg/L | 0.057797 | 1.39669 | mg/L | 0.057797 | 4.14% |
| Ni 231.604† | 94.1 | 0.0037287 | mg/L | 0.00042757 | 0.0037287 | mg/L | 0.00042757 | 11.47% |
| Pb 220.353† | -9.7 | -0.0005432 | mg/L | 0.00242067 | -0.0005432 | mg/L | 0.00242067 | 445.65% |
| Sb 206.836† | -11.5 | -0.0051291 | mg/L | 0.00117207 | -0.0051291 | mg/L | 0.00117207 | 22.85% |
| Se 196.026† | -3.6 | -0.0022321 | mg/L | 0.00506874 | -0.0022321 | mg/L | 0.00506874 | 227.09% |
| Sn 189.927† | 3.2 | 0.0007611 | mg/L | 0.00155737 | 0.0007611 | mg/L | 0.00155737 | 204.61% |
| Ti 334.940† | 371.7 | 0.0038688 | mg/L | 0.00004405 | 0.0038688 | mg/L | 0.00004405 | 1.14% |
| Tl 190.801† | -3.4 | -0.0007274 | mg/L | 0.00201050 | -0.0007274 | mg/L | 0.00201050 | 276.39% |
| V 290.880† | -141.4 | 0.0027420 | mg/L | 0.00040109 | 0.0027420 | mg/L | 0.00040109 | 14.63% |
| Zn 206.200† | 1118.4 | 0.0250394 | mg/L | 0.00019929 | 0.0250394 | mg/L | 0.00019929 | 0.80% |
| Si 251.611† | 1519.7 | -0.0594787 | mg/L | 0.00061028 | -0.0594787 | mg/L | 0.00061028 | 1.03% |
| B 249.772† | 168.3 | 0.0074001 | mg/L | 0.00188835 | 0.0074001 | mg/L | 0.00188835 | 25.52% |
| Ce 413.764 | 152.6 | -0.0169390 | mg/L | 0.00287000 | -0.0169390 | mg/L | 0.00287000 | 16.94% |

Sequence No.: 26
Sample ID: AD26083-035
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 9/29/2021 11:50:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-035

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 725540.4 | 89.6 | % | 0.88 | | | | 0.98% |
| Y 371.029 | 746162.7 | 87.8 | % | 0.70 | | | | 0.79% |
| Ag 328.068† | 191.2 | 0.0015179 | mg/L | 0.00021399 | 0.0015179 | mg/L | 0.00021399 | 14.10% |
| Al 308.215† | 3935.4 | 0.137623 | mg/L | 0.0012717 | 0.137623 | mg/L | 0.0012717 | 0.92% |
| As 188.979† | 16.3 | 0.0153182 | mg/L | 0.00593781 | 0.0153182 | mg/L | 0.00593781 | 38.76% |
| Ba 233.527† | 23322.2 | 0.243020 | mg/L | 0.0022305 | 0.243020 | mg/L | 0.0022305 | 0.92% |
| Be 313.107† | 1045.2 | 0.0039749 | mg/L | 0.00001196 | 0.0039749 | mg/L | 0.00001196 | 0.30% |
| Ca 315.887† | 2666700.2 | 19.5962 | mg/L | 0.14031 | 19.5962 | mg/L | 0.14031 | 0.72% |
| Cd 228.802† | 8.2 | 0.0036336 | mg/L | 0.00020595 | 0.0036336 | mg/L | 0.00020595 | 5.67% |
| Co 228.616† | 52.1 | 0.0028972 | mg/L | 0.00035716 | 0.0028972 | mg/L | 0.00035716 | 12.33% |
| Cr 267.716† | -91.8 | 0.0009031 | mg/L | 0.00016207 | 0.0009031 | mg/L | 0.00016207 | 17.95% |
| Cu 327.393† | 450.5 | 0.0050901 | mg/L | 0.00016823 | 0.0050901 | mg/L | 0.00016823 | 3.31% |
| Fe 273.955† | 8747.3 | 0.299318 | mg/L | 0.0023022 | 0.299318 | mg/L | 0.0023022 | 0.77% |
| K 404.721† | 4951.9 | 35.7040 | mg/L | 1.07041 | 35.7040 | mg/L | 1.07041 | 3.00% |
| Mg 279.077† | 559660.4 | 22.2114 | mg/L | 0.19111 | 22.2114 | mg/L | 0.19111 | 0.86% |
| Mn 257.610† | 8882.0 | 0.0119754 | mg/L | 0.00010068 | 0.0119754 | mg/L | 0.00010068 | 0.84% |
| Mo 202.031† | 70.6 | 0.0073226 | mg/L | 0.00041452 | 0.0073226 | mg/L | 0.00041452 | 5.66% |
| Na 330.237† | 449676.3 | 315.622 | mg/L | 1.6439 | 315.622 | mg/L | 1.6439 | 0.52% |
| Ni 231.604† | 383.6 | 0.0124902 | mg/L | 0.00057096 | 0.0124902 | mg/L | 0.00057096 | 4.57% |
| Pb 220.353† | -49.8 | -0.0097621 | mg/L | 0.00118201 | -0.0097621 | mg/L | 0.00118201 | 12.11% |
| Sb 206.836† | -47.1 | -0.0343574 | mg/L | 0.00247498 | -0.0343574 | mg/L | 0.00247498 | 7.20% |
| Se 196.026† | -11.0 | -0.0094439 | mg/L | 0.00842710 | -0.0094439 | mg/L | 0.00842710 | 89.23% |
| Sn 189.927† | -13.4 | -0.0032840 | mg/L | 0.00139625 | -0.0032840 | mg/L | 0.00139625 | 42.52% |
| Ti 334.940† | 1639.5 | 0.0053199 | mg/L | 0.00021544 | 0.0053199 | mg/L | 0.00021544 | 4.05% |
| Tl 190.801† | -10.8 | -0.0078270 | mg/L | 0.00196503 | -0.0078270 | mg/L | 0.00196503 | 25.11% |
| V 290.880† | -126.3 | 0.0028346 | mg/L | 0.00024570 | 0.0028346 | mg/L | 0.00024570 | 8.67% |
| Zn 206.200† | 1092.1 | 0.0245205 | mg/L | 0.00028174 | 0.0245205 | mg/L | 0.00028174 | 1.15% |
| Si 251.611† | 90570.0 | 1.92011 | mg/L | 0.011708 | 1.92011 | mg/L | 0.011708 | 0.61% |
| B 249.772† | 9540.7 | 0.0989686 | mg/L | 0.00106890 | 0.0989686 | mg/L | 0.00106890 | 1.08% |
| Ce 413.764 | 70.1 | -0.0185479 | mg/L | 0.00235495 | -0.0185479 | mg/L | 0.00235495 | 12.70% |

Sequence No.: 27
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 11:54:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 756166.5 | 93.3 | % | 0.85 | | | | 0.91% |
| Y 371.029 | 781852.2 | 92.0 | % | 0.78 | | | | 0.85% |
| Ag 328.068† | 17303.8 | 0.0979641 | mg/L | 0.00148415 | 0.0979641 | mg/L | 0.00148415 | 1.51% |
| QC value within limits for Ag 328.068 Recovery = 97.96% | | | | | | | | |
| Al 308.215† | 152041.8 | 4.93389 | mg/L | 0.070513 | 4.93389 | mg/L | 0.070513 | 1.43% |
| QC value within limits for Al 308.215 Recovery = 98.68% | | | | | | | | |
| As 188.979† | 674.2 | 0.499134 | mg/L | 0.0038348 | 0.499134 | mg/L | 0.0038348 | 0.77% |
| QC value within limits for As 188.979 Recovery = 99.83% | | | | | | | | |
| Ba 233.527† | 46838.8 | 0.486485 | mg/L | 0.0066164 | 0.486485 | mg/L | 0.0066164 | 1.36% |
| QC value within limits for Ba 233.527 Recovery = 97.30% | | | | | | | | |
| Be 313.107† | 1588137.8 | 0.486157 | mg/L | 0.0007706 | 0.486157 | mg/L | 0.0007706 | 0.16% |
| QC value within limits for Be 313.107 Recovery = 97.23% | | | | | | | | |
| Ca 315.887† | 6725668.8 | 49.0102 | mg/L | 0.06211 | 49.0102 | mg/L | 0.06211 | 0.13% |
| QC value within limits for Ca 315.887 Recovery = 98.02% | | | | | | | | |
| Cd 228.802† | 24197.3 | 0.499656 | mg/L | 0.0062983 | 0.499656 | mg/L | 0.0062983 | 1.26% |
| QC value within limits for Cd 228.802 Recovery = 99.93% | | | | | | | | |
| Co 228.616† | 15586.6 | 0.489891 | mg/L | 0.0060125 | 0.489891 | mg/L | 0.0060125 | 1.23% |
| QC value within limits for Co 228.616 Recovery = 97.98% | | | | | | | | |
| Cr 267.716† | 57696.9 | 0.491275 | mg/L | 0.0071474 | 0.491275 | mg/L | 0.0071474 | 1.45% |
| QC value within limits for Cr 267.716 Recovery = 98.26% | | | | | | | | |
| Cu 327.393† | 57435.2 | 0.492198 | mg/L | 0.0071843 | 0.492198 | mg/L | 0.0071843 | 1.46% |
| QC value within limits for Cu 327.393 Recovery = 98.44% | | | | | | | | |
| Fe 273.955† | 146867.4 | 4.89549 | mg/L | 0.070309 | 4.89549 | mg/L | 0.070309 | 1.44% |
| QC value within limits for Fe 273.955 Recovery = 97.91% | | | | | | | | |
| K 404.721† | 7032.1 | 50.9107 | mg/L | 1.13551 | 50.9107 | mg/L | 1.13551 | 2.23% |
| QC value within limits for K 404.721 Recovery = 101.82% | | | | | | | | |
| Mg 279.077† | 1248066.3 | 49.5301 | mg/L | 0.12099 | 49.5301 | mg/L | 0.12099 | 0.24% |
| QC value within limits for Mg 279.077 Recovery = 99.06% | | | | | | | | |
| Mn 257.610† | 406392.1 | 0.489130 | mg/L | 0.0069338 | 0.489130 | mg/L | 0.0069338 | 1.42% |
| QC value within limits for Mn 257.610 Recovery = 97.83% | | | | | | | | |
| Mo 202.031† | 6278.2 | 0.485027 | mg/L | 0.0061122 | 0.485027 | mg/L | 0.0061122 | 1.26% |
| QC value within limits for Mo 202.031 Recovery = 97.01% | | | | | | | | |
| Na 330.237† | 66933.9 | 47.8761 | mg/L | 0.66024 | 47.8761 | mg/L | 0.66024 | 1.38% |
| QC value within limits for Na 330.237 Recovery = 95.75% | | | | | | | | |
| Ni 231.604† | 16316.1 | 0.494708 | mg/L | 0.0063895 | 0.494708 | mg/L | 0.0063895 | 1.29% |
| QC value within limits for Ni 231.604 Recovery = 98.94% | | | | | | | | |
| Pb 220.353† | 1984.2 | 0.502341 | mg/L | 0.0052146 | 0.502341 | mg/L | 0.0052146 | 1.04% |
| QC value within limits for Pb 220.353 Recovery = 100.47% | | | | | | | | |
| Sb 206.836† | 564.4 | 0.474234 | mg/L | 0.0068194 | 0.474234 | mg/L | 0.0068194 | 1.44% |
| QC value within limits for Sb 206.836 Recovery = 94.85% | | | | | | | | |
| Se 196.026† | 484.6 | 0.472519 | mg/L | 0.0086215 | 0.472519 | mg/L | 0.0086215 | 1.82% |
| QC value within limits for Se 196.026 Recovery = 94.50% | | | | | | | | |
| Sn 189.927† | 2038.7 | 0.495628 | mg/L | 0.0058853 | 0.495628 | mg/L | 0.0058853 | 1.19% |
| QC value within limits for Sn 189.927 Recovery = 99.13% | | | | | | | | |
| Ti 334.940† | 420383.2 | 0.484622 | mg/L | 0.0065413 | 0.484622 | mg/L | 0.0065413 | 1.35% |
| QC value within limits for Ti 334.940 Recovery = 96.92% | | | | | | | | |
| Tl 190.801† | 435.4 | 0.504664 | mg/L | 0.0085213 | 0.504664 | mg/L | 0.0085213 | 1.69% |
| QC value within limits for Tl 190.801 Recovery = 100.93% | | | | | | | | |
| V 290.880† | 79237.6 | 0.487191 | mg/L | 0.0075619 | 0.487191 | mg/L | 0.0075619 | 1.55% |
| QC value within limits for V 290.880 Recovery = 97.44% | | | | | | | | |
| Zn 206.200† | 24487.2 | 0.485403 | mg/L | 0.0061085 | 0.485403 | mg/L | 0.0061085 | 1.26% |
| QC value within limits for Zn 206.200 Recovery = 97.08% | | | | | | | | |
| Si 251.611† | 220065.4 | 4.80067 | mg/L | 0.065800 | 4.80067 | mg/L | 0.065800 | 1.37% |
| QC value within limits for Si 251.611 Recovery = 96.01% | | | | | | | | |
| B 249.772† | 46218.5 | 0.443871 | mg/L | 0.0115443 | 0.443871 | mg/L | 0.0115443 | 2.60% |
| QC value less than the lower limit for B 249.772 Recovery = 88.77% | | | | | | | | |
| Ce 413.764 | 26283.8 | 0.492442 | mg/L | 0.0036592 | 0.492442 | mg/L | 0.0036592 | 0.74% |
| QC value within limits for Ce 413.764 Recovery = 98.49% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 28
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 11:59:03 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 804970.9 | 99.4 | % | 2.35 | | | | 2.36% |
| Y 371.029 | 852835.0 | 100 | % | 2.2 | | | | 2.24% |
| Ag 328.068† | 87.0 | 0.0009147 | mg/L | 0.00037948 | 0.0009147 | mg/L | 0.00037948 | 41.49% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 17.2 | 0.0107357 | mg/L | 0.00335399 | 0.0107357 | mg/L | 0.00335399 | 31.24% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 8.4 | 0.0095288 | mg/L | 0.00245726 | 0.0095288 | mg/L | 0.00245726 | 25.79% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -106.3 | 0.0004663 | mg/L | 0.00005033 | 0.0004663 | mg/L | 0.00005033 | 10.79% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 916.5 | 0.0039358 | mg/L | 0.00004871 | 0.0039358 | mg/L | 0.00004871 | 1.24% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 750.2 | 0.277000 | mg/L | 0.0013836 | 0.277000 | mg/L | 0.0013836 | 0.50% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 28.8 | 0.0038985 | mg/L | 0.00015428 | 0.0038985 | mg/L | 0.00015428 | 3.96% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 39.2 | 0.0018070 | mg/L | 0.00060491 | 0.0018070 | mg/L | 0.00060491 | 33.48% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -39.8 | 0.0013444 | mg/L | 0.00030331 | 0.0013444 | mg/L | 0.00030331 | 22.56% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 113.2 | 0.0022314 | mg/L | 0.00118459 | 0.0022314 | mg/L | 0.00118459 | 53.09% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -221.5 | 0.0008661 | mg/L | 0.00230233 | 0.0008661 | mg/L | 0.00230233 | 265.83% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 495.6 | 3.12738 | mg/L | 1.377503 | 3.12738 | mg/L | 1.377503 | 44.05% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -102.2 | -0.0022623 | mg/L | 0.00172240 | -0.0022623 | mg/L | 0.00172240 | 76.14% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 18.7 | 0.0013362 | mg/L | 0.00001749 | 0.0013362 | mg/L | 0.00001749 | 1.31% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 15.8 | 0.0031027 | mg/L | 0.00054217 | 0.0031027 | mg/L | 0.00054217 | 17.47% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 39.1 | 1.08004 | mg/L | 0.060944 | 1.08004 | mg/L | 0.060944 | 5.64% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 113.2 | 0.0043052 | mg/L | 0.00025576 | 0.0043052 | mg/L | 0.00025576 | 5.94% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -13.1 | -0.0014072 | mg/L | 0.00211927 | -0.0014072 | mg/L | 0.00211927 | 150.61% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -14.2 | -0.0072840 | mg/L | 0.00106224 | -0.0072840 | mg/L | 0.00106224 | 14.58% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -4.5 | -0.0031111 | mg/L | 0.00460588 | -0.0031111 | mg/L | 0.00460588 | 148.05% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -6.6 | -0.0016131 | mg/L | 0.00044244 | -0.0016131 | mg/L | 0.00044244 | 27.43% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 71.6 | 0.0035253 | mg/L | 0.00007818 | 0.0035253 | mg/L | 0.00007818 | 2.22% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -5.3 | -0.0029695 | mg/L | 0.00240108 | -0.0029695 | mg/L | 0.00240108 | 80.86% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -83.7 | 0.0030942 | mg/L | 0.00105451 | 0.0030942 | mg/L | 0.00105451 | 34.08% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 4.9 | 0.0031032 | mg/L | 0.00012966 | 0.0031032 | mg/L | 0.00012966 | 4.18% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 301.7 | -0.0865603 | mg/L | 0.00021307 | -0.0865603 | mg/L | 0.00021307 | 0.25% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -535.3 | 0.0005088 | mg/L | 0.00154890 | 0.0005088 | mg/L | 0.00154890 | 304.44% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | 10.3 | -0.0197137 | mg/L | 0.00223621 | -0.0197137 | mg/L | 0.00223621 | 11.34% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 29 Autosampler Location: 42
Sample ID: MB 94428 (1) Date Collected: 9/29/2021 12:02:54 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: MB 94428 (1)

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 813036.2 | 100 | % | 0.6 | | | | 0.64% |
| Y 371.029 | 860118.8 | 101 | % | 0.6 | | | | 0.62% |
| Ag 328.068† | 64.3 | 0.0007941 | mg/L | 0.00013318 | 0.0007941 | mg/L | 0.00013318 | 16.77% |
| Al 308.215† | 375.5 | 0.0223419 | mg/L | 0.00122472 | 0.0223419 | mg/L | 0.00122472 | 5.48% |
| As 188.979† | 9.2 | 0.0101302 | mg/L | 0.00210272 | 0.0101302 | mg/L | 0.00210272 | 20.76% |
| Ba 233.527† | -56.5 | 0.0009824 | mg/L | 0.00021014 | 0.0009824 | mg/L | 0.00021014 | 21.39% |
| Be 313.107† | 747.4 | 0.0038844 | mg/L | 0.00000935 | 0.0038844 | mg/L | 0.00000935 | 0.24% |
| Ca 315.887† | 23274.0 | 0.440222 | mg/L | 0.0016630 | 0.440222 | mg/L | 0.0016630 | 0.38% |
| Cd 228.802† | 15.4 | 0.0036395 | mg/L | 0.00020072 | 0.0036395 | mg/L | 0.00020072 | 5.52% |
| Co 228.616† | 48.6 | 0.0021049 | mg/L | 0.00059500 | 0.0021049 | mg/L | 0.00059500 | 28.27% |
| Cr 267.716† | 7.8 | 0.0017480 | mg/L | 0.00043382 | 0.0017480 | mg/L | 0.00043382 | 24.82% |
| Cu 327.393† | 322.3 | 0.0040203 | mg/L | 0.00048838 | 0.0040203 | mg/L | 0.00048838 | 12.15% |
| Fe 273.955† | 1923.3 | 0.0722387 | mg/L | 0.00074443 | 0.0722387 | mg/L | 0.00074443 | 1.03% |
| K 404.721† | 452.4 | 2.81180 | mg/L | 0.490939 | 2.81180 | mg/L | 0.490939 | 17.46% |
| Mg 279.077† | -13.2 | 0.0012675 | mg/L | 0.00554623 | 0.0012675 | mg/L | 0.00554623 | 437.57% |
| Mn 257.610† | 2065.8 | 0.0037935 | mg/L | 0.00006151 | 0.0037935 | mg/L | 0.00006151 | 1.62% |
| Mo 202.031† | 5.0 | 0.0022722 | mg/L | 0.00023176 | 0.0022722 | mg/L | 0.00023176 | 10.20% |
| Na 330.237† | 438.2 | 1.35923 | mg/L | 0.081525 | 1.35923 | mg/L | 0.081525 | 6.00% |
| Ni 231.604† | 96.1 | 0.0037893 | mg/L | 0.00043240 | 0.0037893 | mg/L | 0.00043240 | 11.41% |
| Pb 220.353† | 1.5 | 0.0022542 | mg/L | 0.00139082 | 0.0022542 | mg/L | 0.00139082 | 61.70% |
| Sb 206.836† | -6.2 | -0.0007345 | mg/L | 0.00293648 | -0.0007345 | mg/L | 0.00293648 | 399.79% |
| Se 196.026† | -5.6 | -0.0041680 | mg/L | 0.00301142 | -0.0041680 | mg/L | 0.00301142 | 72.25% |
| Sn 189.927† | 7.0 | 0.0016729 | mg/L | 0.00009781 | 0.0016729 | mg/L | 0.00009781 | 5.85% |
| Ti 334.940† | 189.0 | 0.0036596 | mg/L | 0.00003014 | 0.0036596 | mg/L | 0.00003014 | 0.82% |
| Tl 190.801† | -9.3 | -0.0074226 | mg/L | 0.00134716 | -0.0074226 | mg/L | 0.00134716 | 18.15% |
| V 290.880† | -160.2 | 0.0026275 | mg/L | 0.00040065 | 0.0026275 | mg/L | 0.00040065 | 15.25% |
| Zn 206.200† | 354.8 | 0.0099962 | mg/L | 0.00007758 | 0.0099962 | mg/L | 0.00007758 | 0.78% |
| Si 251.611† | 800.7 | -0.0754364 | mg/L | 0.00071152 | -0.0754364 | mg/L | 0.00071152 | 0.94% |
| B 249.772† | -1014.1 | -0.0044992 | mg/L | 0.00051321 | -0.0044992 | mg/L | 0.00051321 | 11.41% |
| Ce 413.764 | 137.6 | -0.0172305 | mg/L | 0.00014886 | -0.0172305 | mg/L | 0.00014886 | 0.86% |

Sequence No.: 30
Sample ID: LCS 94428
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 9/29/2021 12:06:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS 94428

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 765690.1 | 94.5 | % | 0.75 | | | | 0.80% |
| Y 371.029 | 791214.6 | 93.1 | % | 0.77 | | | | 0.82% |
| Ag 328.068† | 17414.0 | 0.0986344 | mg/L | 0.00053918 | 0.0986344 | mg/L | 0.00053918 | 0.55% |
| Al 308.215† | 156188.0 | 5.06816 | mg/L | 0.048761 | 5.06816 | mg/L | 0.048761 | 0.96% |
| As 188.979† | 693.9 | 0.513647 | mg/L | 0.0059092 | 0.513647 | mg/L | 0.0059092 | 1.15% |
| Ba 233.527† | 48068.0 | 0.499210 | mg/L | 0.0042859 | 0.499210 | mg/L | 0.0042859 | 0.86% |
| Be 313.107† | 1640947.6 | 0.502202 | mg/L | 0.0001129 | 0.502202 | mg/L | 0.0001129 | 0.02% |
| Ca 315.887† | 6922917.5 | 50.4396 | mg/L | 0.03510 | 50.4396 | mg/L | 0.03510 | 0.07% |
| Cd 228.802† | 24924.5 | 0.514629 | mg/L | 0.0050385 | 0.514629 | mg/L | 0.0050385 | 0.98% |
| Co 228.616† | 16202.0 | 0.509205 | mg/L | 0.0045596 | 0.509205 | mg/L | 0.0045596 | 0.90% |
| Cr 267.716† | 59689.7 | 0.508186 | mg/L | 0.0047251 | 0.508186 | mg/L | 0.0047251 | 0.93% |
| Cu 327.393† | 59724.2 | 0.511765 | mg/L | 0.0042726 | 0.511765 | mg/L | 0.0042726 | 0.83% |
| Fe 273.955† | 152570.6 | 5.08527 | mg/L | 0.045779 | 5.08527 | mg/L | 0.045779 | 0.90% |
| K 404.721† | 7092.3 | 51.3509 | mg/L | 1.42423 | 51.3509 | mg/L | 1.42423 | 2.77% |
| Mg 279.077† | 1279834.2 | 50.7908 | mg/L | 0.05591 | 50.7908 | mg/L | 0.05591 | 0.11% |
| Mn 257.610† | 417690.0 | 0.502692 | mg/L | 0.0046085 | 0.502692 | mg/L | 0.0046085 | 0.92% |
| Mo 202.031† | 6519.6 | 0.503601 | mg/L | 0.0048191 | 0.503601 | mg/L | 0.0048191 | 0.96% |
| Na 330.237† | 68395.1 | 48.8983 | mg/L | 0.30246 | 48.8983 | mg/L | 0.30246 | 0.62% |
| Ni 231.604† | 16959.6 | 0.514184 | mg/L | 0.0049619 | 0.514184 | mg/L | 0.0049619 | 0.97% |
| Pb 220.353† | 2063.9 | 0.522377 | mg/L | 0.0037067 | 0.522377 | mg/L | 0.0037067 | 0.71% |
| Sb 206.836† | 590.4 | 0.495820 | mg/L | 0.0007466 | 0.495820 | mg/L | 0.0007466 | 0.15% |
| Se 196.026† | 493.9 | 0.481522 | mg/L | 0.0028372 | 0.481522 | mg/L | 0.0028372 | 0.59% |
| Sn 189.927† | 2077.7 | 0.505113 | mg/L | 0.0040939 | 0.505113 | mg/L | 0.0040939 | 0.81% |
| Ti 334.940† | 432916.7 | 0.498968 | mg/L | 0.0049994 | 0.498968 | mg/L | 0.0049994 | 1.00% |
| Tl 190.801† | 440.2 | 0.510460 | mg/L | 0.0022986 | 0.510460 | mg/L | 0.0022986 | 0.45% |
| V 290.880† | 81597.8 | 0.501595 | mg/L | 0.0052166 | 0.501595 | mg/L | 0.0052166 | 1.04% |
| Zn 206.200† | 25377.8 | 0.502949 | mg/L | 0.0051790 | 0.502949 | mg/L | 0.0051790 | 1.03% |
| Si 251.611† | 26052.0 | 0.488122 | mg/L | 0.0051702 | 0.488122 | mg/L | 0.0051702 | 1.06% |
| B 249.772† | 48188.3 | 0.462615 | mg/L | 0.0096139 | 0.462615 | mg/L | 0.0096139 | 2.08% |
| Ce 413.764 | 29097.5 | 0.547290 | mg/L | 0.0027578 | 0.547290 | mg/L | 0.0027578 | 0.50% |

Sequence No.: 31
Sample ID: LCS MR 94428
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 9/29/2021 12:10:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS MR 94428

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 767653.3 | 94.8 | % | 0.22 | | | | 0.23% |
| Y 371.029 | 793435.7 | 93.3 | % | 0.18 | | | | 0.19% |
| Ag 328.068† | 17373.6 | 0.0984108 | mg/L | 0.00076203 | 0.0984108 | mg/L | 0.00076203 | 0.77% |
| Al 308.215† | 155907.2 | 5.05907 | mg/L | 0.010115 | 5.05907 | mg/L | 0.010115 | 0.20% |
| As 188.979† | 684.2 | 0.506497 | mg/L | 0.0025386 | 0.506497 | mg/L | 0.0025386 | 0.50% |
| Ba 233.527† | 48192.8 | 0.500503 | mg/L | 0.0009822 | 0.500503 | mg/L | 0.0009822 | 0.20% |
| Be 313.107† | 1638258.6 | 0.501385 | mg/L | 0.0007358 | 0.501385 | mg/L | 0.0007358 | 0.15% |
| Ca 315.887† | 6902713.6 | 50.2932 | mg/L | 0.05244 | 50.2932 | mg/L | 0.05244 | 0.10% |
| Cd 228.802† | 24784.7 | 0.511763 | mg/L | 0.0031181 | 0.511763 | mg/L | 0.0031181 | 0.61% |
| Co 228.616† | 16082.3 | 0.505448 | mg/L | 0.0040322 | 0.505448 | mg/L | 0.0040322 | 0.80% |
| Cr 267.716† | 59819.8 | 0.509289 | mg/L | 0.0017039 | 0.509289 | mg/L | 0.0017039 | 0.33% |
| Cu 327.393† | 59918.7 | 0.513428 | mg/L | 0.0014222 | 0.513428 | mg/L | 0.0014222 | 0.28% |
| Fe 273.955† | 151388.0 | 5.04592 | mg/L | 0.010053 | 5.04592 | mg/L | 0.010053 | 0.20% |
| K 404.721† | 7093.8 | 51.3621 | mg/L | 0.24674 | 51.3621 | mg/L | 0.24674 | 0.48% |
| Mg 279.077† | 1276353.8 | 50.6526 | mg/L | 0.02882 | 50.6526 | mg/L | 0.02882 | 0.06% |
| Mn 257.610† | 418333.8 | 0.503464 | mg/L | 0.0012068 | 0.503464 | mg/L | 0.0012068 | 0.24% |
| Mo 202.031† | 6463.7 | 0.499300 | mg/L | 0.0027714 | 0.499300 | mg/L | 0.0027714 | 0.56% |
| Na 330.237† | 68564.3 | 49.0166 | mg/L | 0.09097 | 49.0166 | mg/L | 0.09097 | 0.19% |
| Ni 231.604† | 16883.5 | 0.511880 | mg/L | 0.0036944 | 0.511880 | mg/L | 0.0036944 | 0.72% |
| Pb 220.353† | 2046.2 | 0.517956 | mg/L | 0.0036394 | 0.517956 | mg/L | 0.0036394 | 0.70% |
| Sb 206.836† | 584.5 | 0.490951 | mg/L | 0.0028181 | 0.490951 | mg/L | 0.0028181 | 0.57% |
| Se 196.026† | 497.5 | 0.485077 | mg/L | 0.0077429 | 0.485077 | mg/L | 0.0077429 | 1.60% |
| Sn 189.927† | 2068.6 | 0.502890 | mg/L | 0.0026548 | 0.502890 | mg/L | 0.0026548 | 0.53% |
| Ti 334.940† | 433891.4 | 0.500084 | mg/L | 0.0013439 | 0.500084 | mg/L | 0.0013439 | 0.27% |
| Tl 190.801† | 444.7 | 0.515565 | mg/L | 0.0045191 | 0.515565 | mg/L | 0.0045191 | 0.88% |
| V 290.880† | 81889.1 | 0.503372 | mg/L | 0.0013863 | 0.503372 | mg/L | 0.0013863 | 0.28% |
| Zn 206.200† | 25097.3 | 0.497424 | mg/L | 0.0035948 | 0.497424 | mg/L | 0.0035948 | 0.72% |
| Si 251.611† | 25982.6 | 0.486563 | mg/L | 0.0029474 | 0.486563 | mg/L | 0.0029474 | 0.61% |
| B 249.772† | 49101.5 | 0.471794 | mg/L | 0.0046945 | 0.471794 | mg/L | 0.0046945 | 1.00% |
| Ce 413.764 | 29441.6 | 0.553997 | mg/L | 0.0038687 | 0.553997 | mg/L | 0.0038687 | 0.70% |

Sequence No.: 32
Sample ID: AD26083-040
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 9/29/2021 12:15:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 690611.1 | 85.2 | % | 0.49 | | | | 0.57% |
| Y 371.029 | 704467.1 | 82.9 | % | 0.48 | | | | 0.57% |
| Ag 328.068† | -80.4 | 0.0007500 | mg/L | 0.00011179 | 0.0007500 | mg/L | 0.00011179 | 14.91% |
| Al 308.215† | 6941.0 | 0.234955 | mg/L | 0.0032274 | 0.234955 | mg/L | 0.0032274 | 1.37% |
| As 188.979† | 17.5 | 0.0162364 | mg/L | 0.00264245 | 0.0162364 | mg/L | 0.00264245 | 16.27% |
| Ba 233.527† | 227404.6 | 2.35587 | mg/L | 0.008294 | 2.35587 | mg/L | 0.008294 | 0.35% |
| Be 313.107† | 1785.4 | 0.0041998 | mg/L | 0.00002379 | 0.0041998 | mg/L | 0.00002379 | 0.57% |
| Ca 315.887† | 13869959.4 | 100.782 | mg/L | 2.0227 | 100.782 | mg/L | 2.0227 | 2.01% |
| Cd 228.802† | -107.2 | 0.0042883 | mg/L | 0.00025752 | 0.0042883 | mg/L | 0.00025752 | 6.01% |
| Co 228.616† | 158.4 | 0.0122074 | mg/L | 0.00079937 | 0.0122074 | mg/L | 0.00079937 | 6.55% |
| Cr 267.716† | 296.9 | 0.0042010 | mg/L | 0.00035611 | 0.0042010 | mg/L | 0.00035611 | 8.48% |
| Cu 327.393† | -1354.3 | -0.0108505 | mg/L | 0.00012904 | -0.0108505 | mg/L | 0.00012904 | 1.19% |
| Fe 273.955† | 352983.4 | 11.7543 | mg/L | 0.04210 | 11.7543 | mg/L | 0.04210 | 0.36% |
| K 404.721† | 16639.7 | 121.145 | mg/L | 0.3223 | 121.145 | mg/L | 0.3223 | 0.27% |
| Mg 279.077† | 3805340.9 | 151.013 | mg/L | 0.7795 | 151.013 | mg/L | 0.7795 | 0.52% |
| Mn 257.610† | 473814.9 | 0.570061 | mg/L | 0.0019188 | 0.570061 | mg/L | 0.0019188 | 0.34% |
| Mo 202.031† | 108.9 | 0.0102746 | mg/L | 0.00028090 | 0.0102746 | mg/L | 0.00028090 | 2.73% |
| Na 330.237† | 2240885.2 | 1568.66 | mg/L | 7.202 | 1568.66 | mg/L | 7.202 | 0.46% |
| Ni 231.604† | 1028.0 | 0.0319940 | mg/L | 0.00063129 | 0.0319940 | mg/L | 0.00063129 | 1.97% |
| Pb 220.353† | -55.2 | -0.0066264 | mg/L | 0.00198683 | -0.0066264 | mg/L | 0.00198683 | 29.98% |
| Sb 206.836† | -79.4 | -0.0608672 | mg/L | 0.00325049 | -0.0608672 | mg/L | 0.00325049 | 5.34% |
| Se 196.026† | -32.1 | -0.0293899 | mg/L | 0.00327390 | -0.0293899 | mg/L | 0.00327390 | 11.14% |
| Sn 189.927† | -14.5 | -0.0035433 | mg/L | 0.00284548 | -0.0035433 | mg/L | 0.00284548 | 80.31% |
| Ti 334.940† | 10201.9 | 0.0151206 | mg/L | 0.00046130 | 0.0151206 | mg/L | 0.00046130 | 3.05% |
| Tl 190.801† | -19.5 | -0.0121996 | mg/L | 0.00218090 | -0.0121996 | mg/L | 0.00218090 | 17.88% |
| V 290.880† | 580.6 | 0.0071488 | mg/L | 0.00051409 | 0.0071488 | mg/L | 0.00051409 | 7.19% |
| Zn 206.200† | 240.9 | 0.0077529 | mg/L | 0.00001486 | 0.0077529 | mg/L | 0.00001486 | 0.19% |
| Si 251.611† | 431583.6 | 9.50550 | mg/L | 0.046149 | 9.50550 | mg/L | 0.046149 | 0.49% |
| B 249.772† | 196376.7 | 1.90190 | mg/L | 0.025038 | 1.90190 | mg/L | 0.025038 | 1.32% |
| Ce 413.764 | -58.4 | -0.0210524 | mg/L | 0.00051499 | -0.0210524 | mg/L | 0.00051499 | 2.45% |

Sequence No.: 33
Sample ID: AD26083-040 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 9/29/2021 12:19:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040 MR

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 667648.6 | 82.4 | % | 1.76 | | | | 2.13% |
| Y 371.029 | 681883.1 | 80.2 | % | 1.70 | | | | 2.12% |
| Ag 328.068† | -99.1 | 0.0006526 | mg/L | 0.00013824 | 0.0006526 | mg/L | 0.00013824 | 21.18% |
| Al 308.215† | 6726.6 | 0.228015 | mg/L | 0.0064472 | 0.228015 | mg/L | 0.0064472 | 2.83% |
| As 188.979† | 18.9 | 0.0172724 | mg/L | 0.00478181 | 0.0172724 | mg/L | 0.00478181 | 27.68% |
| Ba 233.527† | 229975.8 | 2.38249 | mg/L | 0.004310 | 2.38249 | mg/L | 0.004310 | 0.18% |
| Be 313.107† | 2088.6 | 0.0042919 | mg/L | 0.00001975 | 0.0042919 | mg/L | 0.00001975 | 0.46% |
| Ca 315.887† | 13942926.7 | 101.311 | mg/L | 1.4308 | 101.311 | mg/L | 1.4308 | 1.41% |
| Cd 228.802† | -115.5 | 0.0041565 | mg/L | 0.00030627 | 0.0041565 | mg/L | 0.00030627 | 7.37% |
| Co 228.616† | 156.1 | 0.0122149 | mg/L | 0.00040233 | 0.0122149 | mg/L | 0.00040233 | 3.29% |
| Cr 267.716† | 232.4 | 0.0036542 | mg/L | 0.00016306 | 0.0036542 | mg/L | 0.00016306 | 4.46% |
| Cu 327.393† | -1591.0 | -0.0128826 | mg/L | 0.00088694 | -0.0128826 | mg/L | 0.00088694 | 6.88% |
| Fe 273.955† | 355854.6 | 11.8499 | mg/L | 0.02293 | 11.8499 | mg/L | 0.02293 | 0.19% |
| K 404.721† | 17230.4 | 125.463 | mg/L | 1.8538 | 125.463 | mg/L | 1.8538 | 1.48% |
| Mg 279.077† | 3838555.6 | 152.331 | mg/L | 0.6054 | 152.331 | mg/L | 0.6054 | 0.40% |
| Mn 257.610† | 478448.5 | 0.575623 | mg/L | 0.0009175 | 0.575623 | mg/L | 0.0009175 | 0.16% |
| Mo 202.031† | 116.8 | 0.0108825 | mg/L | 0.00074542 | 0.0108825 | mg/L | 0.00074542 | 6.85% |
| Na 330.237† | 2305721.8 | 1614.01 | mg/L | 7.839 | 1614.01 | mg/L | 7.839 | 0.49% |
| Ni 231.604† | 1069.2 | 0.0332412 | mg/L | 0.00140676 | 0.0332412 | mg/L | 0.00140676 | 4.23% |
| Pb 220.353† | -63.3 | -0.0086253 | mg/L | 0.00186378 | -0.0086253 | mg/L | 0.00186378 | 21.61% |
| Sb 206.836† | -91.2 | -0.0705655 | mg/L | 0.00722055 | -0.0705655 | mg/L | 0.00722055 | 10.23% |
| Se 196.026† | -36.2 | -0.0333082 | mg/L | 0.00191012 | -0.0333082 | mg/L | 0.00191012 | 5.73% |
| Sn 189.927† | -22.4 | -0.0054666 | mg/L | 0.00314719 | -0.0054666 | mg/L | 0.00314719 | 57.57% |
| Ti 334.940† | 9272.0 | 0.0140562 | mg/L | 0.00011465 | 0.0140562 | mg/L | 0.00011465 | 0.82% |
| Tl 190.801† | -18.7 | -0.0112480 | mg/L | 0.00595976 | -0.0112480 | mg/L | 0.00595976 | 52.98% |
| V 290.880† | 613.3 | 0.0073481 | mg/L | 0.00042687 | 0.0073481 | mg/L | 0.00042687 | 5.81% |
| Zn 206.200† | 316.2 | 0.0092359 | mg/L | 0.00023530 | 0.0092359 | mg/L | 0.00023530 | 2.55% |
| Si 251.611† | 434807.5 | 9.57720 | mg/L | 0.021542 | 9.57720 | mg/L | 0.021542 | 0.22% |
| B 249.772† | 198708.0 | 1.92458 | mg/L | 0.009506 | 1.92458 | mg/L | 0.009506 | 0.49% |
| Ce 413.764 | -16.7 | -0.0202390 | mg/L | 0.00257225 | -0.0202390 | mg/L | 0.00257225 | 12.71% |

Sequence No.: 34
Sample ID: AD26083-042 MS 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 9/29/2021 12:23:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-042 MS 1

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 678199.2 | 83.7 | % | 1.13 | | | | 1.35% |
| Y 371.029 | 692311.0 | 81.4 | % | 1.14 | | | | 1.40% |
| Ag 328.068† | 17996.4 | 0.102596 | mg/L | 0.0004839 | 0.102596 | mg/L | 0.0004839 | 0.47% |
| Al 308.215† | 158291.1 | 5.13626 | mg/L | 0.008433 | 5.13626 | mg/L | 0.008433 | 0.16% |
| As 188.979† | 754.9 | 0.558561 | mg/L | 0.0012677 | 0.558561 | mg/L | 0.0012677 | 0.23% |
| Ba 233.527† | 278614.0 | 2.88603 | mg/L | 0.003170 | 2.88603 | mg/L | 0.003170 | 0.11% |
| Be 313.107† | 1660536.0 | 0.508153 | mg/L | 0.0012752 | 0.508153 | mg/L | 0.0012752 | 0.25% |
| Ca 315.887† | 20754096.2 | 150.669 | mg/L | 2.3120 | 150.669 | mg/L | 2.3120 | 1.53% |
| Cd 228.802† | 26107.9 | 0.541723 | mg/L | 0.0029949 | 0.541723 | mg/L | 0.0029949 | 0.55% |
| Co 228.616† | 16465.6 | 0.524209 | mg/L | 0.0019999 | 0.524209 | mg/L | 0.0019999 | 0.38% |
| Cr 267.716† | 59217.9 | 0.504181 | mg/L | 0.0009803 | 0.504181 | mg/L | 0.0009803 | 0.19% |
| Cu 327.393† | 59879.1 | 0.512549 | mg/L | 0.0016379 | 0.512549 | mg/L | 0.0016379 | 0.32% |
| Fe 273.955† | 505720.3 | 16.8369 | mg/L | 0.04896 | 16.8369 | mg/L | 0.04896 | 0.29% |
| K 404.721† | 25564.3 | 186.386 | mg/L | 0.5148 | 186.386 | mg/L | 0.5148 | 0.28% |
| Mg 279.077† | 5081984.0 | 201.675 | mg/L | 3.1668 | 201.675 | mg/L | 3.1668 | 1.57% |
| Mn 257.610† | 891646.5 | 1.07161 | mg/L | 0.002096 | 1.07161 | mg/L | 0.002096 | 0.20% |
| Mo 202.031† | 6674.7 | 0.515530 | mg/L | 0.0017059 | 0.515530 | mg/L | 0.0017059 | 0.33% |
| Na 330.237† | 2362202.9 | 1653.52 | mg/L | 1.152 | 1653.52 | mg/L | 1.152 | 0.07% |
| Ni 231.604† | 17755.0 | 0.538258 | mg/L | 0.0023574 | 0.538258 | mg/L | 0.0023574 | 0.44% |
| Pb 220.353† | 2039.4 | 0.521464 | mg/L | 0.0032227 | 0.521464 | mg/L | 0.0032227 | 0.62% |
| Sb 206.836† | 548.0 | 0.461065 | mg/L | 0.0053774 | 0.461065 | mg/L | 0.0053774 | 1.17% |
| Se 196.026† | 514.8 | 0.502496 | mg/L | 0.0012064 | 0.502496 | mg/L | 0.0012064 | 0.24% |
| Sn 189.927† | 2152.4 | 0.523273 | mg/L | 0.0019971 | 0.523273 | mg/L | 0.0019971 | 0.38% |
| Ti 334.940† | 448642.2 | 0.516968 | mg/L | 0.0005804 | 0.516968 | mg/L | 0.0005804 | 0.11% |
| Tl 190.801† | 422.9 | 0.497235 | mg/L | 0.0023120 | 0.497235 | mg/L | 0.0023120 | 0.46% |
| V 290.880† | 83874.0 | 0.515487 | mg/L | 0.0010580 | 0.515487 | mg/L | 0.0010580 | 0.21% |
| Zn 206.200† | 26769.8 | 0.530371 | mg/L | 0.0035778 | 0.530371 | mg/L | 0.0035778 | 0.67% |
| Si 251.611† | 475563.5 | 10.4854 | mg/L | 0.03090 | 10.4854 | mg/L | 0.03090 | 0.29% |
| B 249.772† | 253498.2 | 2.44704 | mg/L | 0.028239 | 2.44704 | mg/L | 0.028239 | 1.15% |
| Ce 413.764 | 24227.9 | 0.452366 | mg/L | 0.0062352 | 0.452366 | mg/L | 0.0062352 | 1.38% |

Sequence No.: 35
Sample ID: AD26083-043 MS 2
Analyst:
Initial Sample Wt: -0.044 gm
Dilution:

Autosampler Location: 48
Date Collected: 9/29/2021 12:28:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-043 MS 2

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 666245.7 | 82.2 | % | 1.16 | | | | 1.41% |
| Y 371.029 | 679501.0 | 79.9 | % | 1.09 | | | | 1.36% |
| Ag 328.068† | 17884.7 | 0.101966 | mg/L | 0.0017846 | 0.101966 | mg/L | 0.0017846 | 1.75% |
| Al 308.215† | 158081.7 | 5.12948 | mg/L | 0.074098 | 5.12948 | mg/L | 0.074098 | 1.44% |
| As 188.979† | 732.9 | 0.542356 | mg/L | 0.0093503 | 0.542356 | mg/L | 0.0093503 | 1.72% |
| Ba 233.527† | 279907.1 | 2.89942 | mg/L | 0.036703 | 2.89942 | mg/L | 0.036703 | 1.27% |
| Be 313.107† | 1647159.6 | 0.504089 | mg/L | 0.0063482 | 0.504089 | mg/L | 0.0063482 | 1.26% |
| Ca 315.887† | 20970239.7 | 152.236 | mg/L | 1.2825 | 152.236 | mg/L | 1.2825 | 0.84% |
| Cd 228.802† | 25751.7 | 0.534450 | mg/L | 0.0106545 | 0.534450 | mg/L | 0.0106545 | 1.99% |
| Co 228.616† | 16235.6 | 0.517036 | mg/L | 0.0102875 | 0.517036 | mg/L | 0.0102875 | 1.99% |
| Cr 267.716† | 58874.4 | 0.501267 | mg/L | 0.0067479 | 0.501267 | mg/L | 0.0067479 | 1.35% |
| Cu 327.393† | 59380.0 | 0.508301 | mg/L | 0.0052379 | 0.508301 | mg/L | 0.0052379 | 1.03% |
| Fe 273.955† | 507143.1 | 16.8843 | mg/L | 0.21036 | 16.8843 | mg/L | 0.21036 | 1.25% |
| K 404.721† | 25964.8 | 189.313 | mg/L | 2.6179 | 189.313 | mg/L | 2.6179 | 1.38% |
| Mg 279.077† | 5085557.3 | 201.817 | mg/L | 2.5630 | 201.817 | mg/L | 2.5630 | 1.27% |
| Mn 257.610† | 892436.6 | 1.07256 | mg/L | 0.014009 | 1.07256 | mg/L | 0.014009 | 1.31% |
| Mo 202.031† | 6590.9 | 0.509091 | mg/L | 0.0105075 | 0.509091 | mg/L | 0.0105075 | 2.06% |
| Na 330.237† | 2389188.1 | 1672.40 | mg/L | 26.202 | 1672.40 | mg/L | 26.202 | 1.57% |
| Ni 231.604† | 17530.1 | 0.531452 | mg/L | 0.0106325 | 0.531452 | mg/L | 0.0106325 | 2.00% |
| Pb 220.353† | 2013.6 | 0.515031 | mg/L | 0.0074384 | 0.515031 | mg/L | 0.0074384 | 1.44% |
| Sb 206.836† | 535.1 | 0.450364 | mg/L | 0.0057286 | 0.450364 | mg/L | 0.0057286 | 1.27% |
| Se 196.026† | 493.6 | 0.481924 | mg/L | 0.0082629 | 0.481924 | mg/L | 0.0082629 | 1.71% |
| Sn 189.927† | 2142.3 | 0.520813 | mg/L | 0.0095256 | 0.520813 | mg/L | 0.0095256 | 1.83% |
| Ti 334.940† | 446670.1 | 0.514711 | mg/L | 0.0067046 | 0.514711 | mg/L | 0.0067046 | 1.30% |
| Tl 190.801† | 418.4 | 0.492168 | mg/L | 0.0177616 | 0.492168 | mg/L | 0.0177616 | 3.61% |
| V 290.880† | 83279.1 | 0.511856 | mg/L | 0.0078008 | 0.511856 | mg/L | 0.0078008 | 1.52% |
| Zn 206.200† | 26309.0 | 0.521293 | mg/L | 0.0110069 | 0.521293 | mg/L | 0.0110069 | 2.11% |
| Si 251.611† | 482029.7 | 10.6292 | mg/L | 0.15883 | 10.6292 | mg/L | 0.15883 | 1.49% |
| B 249.772† | 254927.0 | 2.46098 | mg/L | 0.039681 | 2.46098 | mg/L | 0.039681 | 1.61% |
| Ce 413.764 | 23668.4 | 0.441458 | mg/L | 0.0033512 | 0.441458 | mg/L | 0.0033512 | 0.76% |

Sequence No.: 36
Sample ID: AD26083-040 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 9/29/2021 12:32:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040 PS

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 673064.4 | 83.1 | % | 1.45 | | | | 1.75% |
| Y 371.029 | 686571.2 | 80.8 | % | 1.35 | | | | 1.67% |
| Ag 328.068† | 10583.9 | 0.0611090 | mg/L | 0.00052581 | 0.0611090 | mg/L | 0.00052581 | 0.86% |
| Al 308.215† | 171967.5 | 5.57916 | mg/L | 0.029644 | 5.57916 | mg/L | 0.029644 | 0.53% |
| As 188.979† | 817.7 | 0.604678 | mg/L | 0.0070160 | 0.604678 | mg/L | 0.0070160 | 1.16% |
| Ba 233.527† | 274309.1 | 2.84146 | mg/L | 0.012840 | 2.84146 | mg/L | 0.012840 | 0.45% |
| Be 313.107† | 1828312.4 | 0.559126 | mg/L | 0.0004527 | 0.559126 | mg/L | 0.0004527 | 0.08% |
| Ca 315.887† | 20512515.4 | 148.919 | mg/L | 1.6926 | 148.919 | mg/L | 1.6926 | 1.14% |
| Cd 228.802† | 28541.3 | 0.591477 | mg/L | 0.0128296 | 0.591477 | mg/L | 0.0128296 | 2.17% |
| Co 228.616† | 17966.8 | 0.571068 | mg/L | 0.0124254 | 0.571068 | mg/L | 0.0124254 | 2.18% |
| Cr 267.716† | 65332.6 | 0.556069 | mg/L | 0.0014922 | 0.556069 | mg/L | 0.0014922 | 0.27% |
| Cu 327.393† | 66277.7 | 0.567249 | mg/L | 0.0002764 | 0.567249 | mg/L | 0.0002764 | 0.05% |
| Fe 273.955† | 505393.1 | 16.8260 | mg/L | 0.06962 | 16.8260 | mg/L | 0.06962 | 0.41% |
| K 404.721† | 25580.1 | 186.501 | mg/L | 2.4214 | 186.501 | mg/L | 2.4214 | 1.30% |
| Mg 279.077† | 5017389.0 | 199.112 | mg/L | 1.3976 | 199.112 | mg/L | 1.3976 | 0.70% |
| Mn 257.610† | 915289.3 | 1.09999 | mg/L | 0.003625 | 1.09999 | mg/L | 0.003625 | 0.33% |
| Mo 202.031† | 7263.0 | 0.560807 | mg/L | 0.0113700 | 0.560807 | mg/L | 0.0113700 | 2.03% |
| Na 330.237† | 2288568.6 | 1602.01 | mg/L | 15.053 | 1602.01 | mg/L | 15.053 | 0.94% |
| Ni 231.604† | 19255.1 | 0.583661 | mg/L | 0.0109130 | 0.583661 | mg/L | 0.0109130 | 1.87% |
| Pb 220.353† | 2235.7 | 0.570705 | mg/L | 0.0101155 | 0.570705 | mg/L | 0.0101155 | 1.77% |
| Sb 206.836† | 600.6 | 0.504889 | mg/L | 0.0182323 | 0.504889 | mg/L | 0.0182323 | 3.61% |
| Se 196.026† | 549.7 | 0.536451 | mg/L | 0.0132081 | 0.536451 | mg/L | 0.0132081 | 2.46% |
| Sn 189.927† | 2337.0 | 0.568147 | mg/L | 0.0097758 | 0.568147 | mg/L | 0.0097758 | 1.72% |
| Ti 334.940† | 492594.1 | 0.567276 | mg/L | 0.0012145 | 0.567276 | mg/L | 0.0012145 | 0.21% |
| Tl 190.801† | 468.0 | 0.548568 | mg/L | 0.0061526 | 0.548568 | mg/L | 0.0061526 | 1.12% |
| V 290.880† | 92274.5 | 0.566755 | mg/L | 0.0017739 | 0.566755 | mg/L | 0.0017739 | 0.31% |
| Zn 206.200† | 29007.1 | 0.574446 | mg/L | 0.0113801 | 0.574446 | mg/L | 0.0113801 | 1.98% |
| Si 251.611† | 475582.2 | 10.4858 | mg/L | 0.00449 | 10.4858 | mg/L | 0.00449 | 0.04% |
| B 249.772† | 246208.8 | 2.37502 | mg/L | 0.015823 | 2.37502 | mg/L | 0.015823 | 0.67% |
| Ce 413.764 | 23799.1 | 0.444007 | mg/L | 0.0078939 | 0.444007 | mg/L | 0.0078939 | 1.78% |

Sequence No.: 37
Sample ID: AD26083-040 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 9/29/2021 12:36:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040 SD

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 730617.0 | 90.2 | % | 0.03 | | | | 0.03% |
| Y 371.029 | 753565.4 | 88.7 | % | 0.02 | | | | 0.03% |
| Ag 328.068† | 38.1 | 0.0007965 | mg/L | 0.00021731 | 0.0007965 | mg/L | 0.00021731 | 27.28% |
| Al 308.215† | 2203.9 | 0.0815504 | mg/L | 0.00201165 | 0.0815504 | mg/L | 0.00201165 | 2.47% |
| As 188.979† | 22.0 | 0.0195477 | mg/L | 0.00301881 | 0.0195477 | mg/L | 0.00301881 | 15.44% |
| Ba 233.527† | 44897.1 | 0.466383 | mg/L | 0.0015009 | 0.466383 | mg/L | 0.0015009 | 0.32% |
| Be 313.107† | 1484.6 | 0.0041084 | mg/L | 0.00002540 | 0.0041084 | mg/L | 0.00002540 | 0.62% |
| Ca 315.887† | 2786633.1 | 20.4653 | mg/L | 0.02746 | 20.4653 | mg/L | 0.02746 | 0.13% |
| Cd 228.802† | 5.6 | 0.0040932 | mg/L | 0.00027038 | 0.0040932 | mg/L | 0.00027038 | 6.61% |
| Co 228.616† | 79.1 | 0.0043794 | mg/L | 0.00057880 | 0.0043794 | mg/L | 0.00057880 | 13.22% |
| Cr 267.716† | -79.7 | 0.0010057 | mg/L | 0.00039926 | 0.0010057 | mg/L | 0.00039926 | 39.70% |
| Cu 327.393† | -559.0 | -0.0036277 | mg/L | 0.00075521 | -0.0036277 | mg/L | 0.00075521 | 20.82% |
| Fe 273.955† | 70104.6 | 2.34108 | mg/L | 0.013614 | 2.34108 | mg/L | 0.013614 | 0.58% |
| K 404.721† | 3351.4 | 24.0039 | mg/L | 0.28550 | 24.0039 | mg/L | 0.28550 | 1.19% |
| Mg 279.077† | 776577.1 | 30.8195 | mg/L | 0.02732 | 30.8195 | mg/L | 0.02732 | 0.09% |
| Mn 257.610† | 94214.3 | 0.114405 | mg/L | 0.0005668 | 0.114405 | mg/L | 0.0005668 | 0.50% |
| Mo 202.031† | 56.0 | 0.0061992 | mg/L | 0.00027687 | 0.0061992 | mg/L | 0.00027687 | 4.47% |
| Na 330.237† | 418948.9 | 294.127 | mg/L | 2.2249 | 294.127 | mg/L | 2.2249 | 0.76% |
| Ni 231.604† | 427.9 | 0.0138293 | mg/L | 0.00034002 | 0.0138293 | mg/L | 0.00034002 | 2.46% |
| Pb 220.353† | -31.2 | -0.0048252 | mg/L | 0.00265424 | -0.0048252 | mg/L | 0.00265424 | 55.01% |
| Sb 206.836† | -52.2 | -0.0385479 | mg/L | 0.00229247 | -0.0385479 | mg/L | 0.00229247 | 5.95% |
| Se 196.026† | -16.3 | -0.0144156 | mg/L | 0.00541406 | -0.0144156 | mg/L | 0.00541406 | 37.56% |
| Sn 189.927† | -13.6 | -0.0033288 | mg/L | 0.00073390 | -0.0033288 | mg/L | 0.00073390 | 22.05% |
| Ti 334.940† | 1919.4 | 0.0056402 | mg/L | 0.00017059 | 0.0056402 | mg/L | 0.00017059 | 3.02% |
| Tl 190.801† | -7.7 | -0.0042328 | mg/L | 0.00201986 | -0.0042328 | mg/L | 0.00201986 | 47.72% |
| V 290.880† | 49.5 | 0.0039073 | mg/L | 0.00017602 | 0.0039073 | mg/L | 0.00017602 | 4.50% |
| Zn 206.200† | 111.4 | 0.0052010 | mg/L | 0.00015040 | 0.0052010 | mg/L | 0.00015040 | 2.89% |
| Si 251.611† | 84471.6 | 1.78547 | mg/L | 0.009678 | 1.78547 | mg/L | 0.009678 | 0.54% |
| B 249.772† | 40255.8 | 0.394754 | mg/L | 0.0038329 | 0.394754 | mg/L | 0.0038329 | 0.97% |
| Ce 413.764 | 128.2 | -0.0174139 | mg/L | 0.00277761 | -0.0174139 | mg/L | 0.00277761 | 15.95% |

Sequence No.: 38
Sample ID: AD26083-003
Analyst:
Initial Sample Wt: .006 gm
Dilution:

Autosampler Location: 51
Date Collected: 9/29/2021 12:41:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-003

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 772924.0 | 95.4 | % | 0.63 | | | | 0.66% |
| Y 371.029 | 812097.2 | 95.5 | % | 0.21 | | | | 0.22% |
| Ag 328.068† | -65.9 | 0.0001285 | mg/L | 0.00018603 | 0.0001285 | mg/L | 0.00018603 | 144.72% |
| Al 308.215† | 18133.8 | 0.597423 | mg/L | 0.0026841 | 0.597423 | mg/L | 0.0026841 | 0.45% |
| As 188.979† | 9.6 | 0.0104209 | mg/L | 0.00172727 | 0.0104209 | mg/L | 0.00172727 | 16.58% |
| Ba 233.527† | 32395.5 | 0.336955 | mg/L | 0.0025650 | 0.336955 | mg/L | 0.0025650 | 0.76% |
| Be 313.107† | 1141.2 | 0.0040040 | mg/L | 0.00002689 | 0.0040040 | mg/L | 0.00002689 | 0.67% |
| Ca 315.887† | 8326624.4 | 60.6118 | mg/L | 0.41355 | 60.6118 | mg/L | 0.41355 | 0.68% |
| Cd 228.802† | 9.3 | 0.0038351 | mg/L | 0.00006912 | 0.0038351 | mg/L | 0.00006912 | 1.80% |
| Co 228.616† | 52.6 | 0.0031271 | mg/L | 0.00066193 | 0.0031271 | mg/L | 0.00066193 | 21.17% |
| Cr 267.716† | 266.7 | 0.0039451 | mg/L | 0.00016369 | 0.0039451 | mg/L | 0.00016369 | 4.15% |
| Cu 327.393† | -35.0 | 0.0014209 | mg/L | 0.00047433 | 0.0014209 | mg/L | 0.00047433 | 33.38% |
| Fe 273.955† | 31491.0 | 1.05615 | mg/L | 0.004119 | 1.05615 | mg/L | 0.004119 | 0.39% |
| K 404.721† | 558.7 | 3.58879 | mg/L | 1.273133 | 3.58879 | mg/L | 1.273133 | 35.48% |
| Mg 279.077† | 592966.1 | 23.5331 | mg/L | 0.03393 | 23.5331 | mg/L | 0.03393 | 0.14% |
| Mn 257.610† | 398042.1 | 0.479107 | mg/L | 0.0005153 | 0.479107 | mg/L | 0.0005153 | 0.11% |
| Mo 202.031† | 60.6 | 0.0065904 | mg/L | 0.00035696 | 0.0065904 | mg/L | 0.00035696 | 5.42% |
| Na 330.237† | 15690.6 | 12.0290 | mg/L | 0.03221 | 12.0290 | mg/L | 0.03221 | 0.27% |
| Ni 231.604† | 364.3 | 0.0119062 | mg/L | 0.00021203 | 0.0119062 | mg/L | 0.00021203 | 1.78% |
| Pb 220.353† | 0.8 | 0.0031598 | mg/L | 0.00055700 | 0.0031598 | mg/L | 0.00055700 | 17.63% |
| Sb 206.836† | -23.7 | -0.0149328 | mg/L | 0.00467060 | -0.0149328 | mg/L | 0.00467060 | 31.28% |
| Se 196.026† | -16.9 | -0.0151438 | mg/L | 0.00683622 | -0.0151438 | mg/L | 0.00683622 | 45.14% |
| Sn 189.927† | -8.5 | -0.0020762 | mg/L | 0.00125166 | -0.0020762 | mg/L | 0.00125166 | 60.28% |
| Ti 334.940† | 19680.7 | 0.0259702 | mg/L | 0.00038709 | 0.0259702 | mg/L | 0.00038709 | 1.49% |
| Tl 190.801† | -13.7 | -0.0082949 | mg/L | 0.00065774 | -0.0082949 | mg/L | 0.00065774 | 7.93% |
| V 290.880† | -161.0 | 0.0026226 | mg/L | 0.00057692 | 0.0026226 | mg/L | 0.00057692 | 22.00% |
| Zn 206.200† | 1294.6 | 0.0285100 | mg/L | 0.00025520 | 0.0285100 | mg/L | 0.00025520 | 0.90% |
| Si 251.611† | 485870.1 | 10.7074 | mg/L | 0.00646 | 10.7074 | mg/L | 0.00646 | 0.06% |
| B 249.772† | 2926.9 | 0.0306750 | mg/L | 0.00225425 | 0.0306750 | mg/L | 0.00225425 | 7.35% |
| Ce 413.764 | 27.0 | -0.0193880 | mg/L | 0.00154929 | -0.0193880 | mg/L | 0.00154929 | 7.99% |

Sequence No.: 39
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 12:45:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 772377.3 | 95.3 | % | 0.40 | | | | 0.42% |
| Y 371.029 | 800138.4 | 94.1 | % | 0.38 | | | | 0.40% |
| Ag 328.068† | 17174.0 | 0.0972407 | mg/L | 0.00145487 | 0.0972407 | mg/L | 0.00145487 | 1.50% |
| QC value within limits for Ag 328.068 Recovery = 97.24% | | | | | | | | |
| Al 308.215† | 150299.8 | 4.87748 | mg/L | 0.039617 | 4.87748 | mg/L | 0.039617 | 0.81% |
| QC value within limits for Al 308.215 Recovery = 97.55% | | | | | | | | |
| As 188.979† | 677.0 | 0.501249 | mg/L | 0.0045778 | 0.501249 | mg/L | 0.0045778 | 0.91% |
| QC value within limits for As 188.979 Recovery = 100.25% | | | | | | | | |
| Ba 233.527† | 46536.5 | 0.483355 | mg/L | 0.0041033 | 0.483355 | mg/L | 0.0041033 | 0.85% |
| QC value within limits for Ba 233.527 Recovery = 96.67% | | | | | | | | |
| Be 313.107† | 1586147.5 | 0.485553 | mg/L | 0.0010043 | 0.485553 | mg/L | 0.0010043 | 0.21% |
| QC value within limits for Be 313.107 Recovery = 97.11% | | | | | | | | |
| Ca 315.887† | 6703169.5 | 48.8471 | mg/L | 0.04141 | 48.8471 | mg/L | 0.04141 | 0.08% |
| QC value within limits for Ca 315.887 Recovery = 97.69% | | | | | | | | |
| Cd 228.802† | 24344.3 | 0.502636 | mg/L | 0.0023386 | 0.502636 | mg/L | 0.0023386 | 0.47% |
| QC value within limits for Cd 228.802 Recovery = 100.53% | | | | | | | | |
| Co 228.616† | 15617.3 | 0.490857 | mg/L | 0.0025854 | 0.490857 | mg/L | 0.0025854 | 0.53% |
| QC value within limits for Co 228.616 Recovery = 98.17% | | | | | | | | |
| Cr 267.716† | 57391.2 | 0.488681 | mg/L | 0.0054569 | 0.488681 | mg/L | 0.0054569 | 1.12% |
| QC value within limits for Cr 267.716 Recovery = 97.74% | | | | | | | | |
| Cu 327.393† | 57418.0 | 0.492050 | mg/L | 0.0055157 | 0.492050 | mg/L | 0.0055157 | 1.12% |
| QC value within limits for Cu 327.393 Recovery = 98.41% | | | | | | | | |
| Fe 273.955† | 145692.6 | 4.85639 | mg/L | 0.050300 | 4.85639 | mg/L | 0.050300 | 1.04% |
| QC value within limits for Fe 273.955 Recovery = 97.13% | | | | | | | | |
| K 404.721† | 6748.4 | 48.8371 | mg/L | 0.51936 | 48.8371 | mg/L | 0.51936 | 1.06% |
| QC value within limits for K 404.721 Recovery = 97.67% | | | | | | | | |
| Mg 279.077† | 1245750.8 | 49.4382 | mg/L | 0.09240 | 49.4382 | mg/L | 0.09240 | 0.19% |
| QC value within limits for Mg 279.077 Recovery = 98.88% | | | | | | | | |
| Mn 257.610† | 403516.6 | 0.485678 | mg/L | 0.0047571 | 0.485678 | mg/L | 0.0047571 | 0.98% |
| QC value within limits for Mn 257.610 Recovery = 97.14% | | | | | | | | |
| Mo 202.031† | 6243.6 | 0.482366 | mg/L | 0.0023324 | 0.482366 | mg/L | 0.0023324 | 0.48% |
| QC value within limits for Mo 202.031 Recovery = 96.47% | | | | | | | | |
| Na 330.237† | 65913.7 | 47.1625 | mg/L | 0.41453 | 47.1625 | mg/L | 0.41453 | 0.88% |
| QC value within limits for Na 330.237 Recovery = 94.32% | | | | | | | | |
| Ni 231.604† | 16353.5 | 0.495841 | mg/L | 0.0018320 | 0.495841 | mg/L | 0.0018320 | 0.37% |
| QC value within limits for Ni 231.604 Recovery = 99.17% | | | | | | | | |
| Pb 220.353† | 2024.5 | 0.512383 | mg/L | 0.0023219 | 0.512383 | mg/L | 0.0023219 | 0.45% |
| QC value within limits for Pb 220.353 Recovery = 102.48% | | | | | | | | |
| Sb 206.836† | 566.5 | 0.475924 | mg/L | 0.0045097 | 0.475924 | mg/L | 0.0045097 | 0.95% |
| QC value within limits for Sb 206.836 Recovery = 95.18% | | | | | | | | |
| Se 196.026† | 488.8 | 0.476639 | mg/L | 0.0055187 | 0.476639 | mg/L | 0.0055187 | 1.16% |
| QC value within limits for Se 196.026 Recovery = 95.33% | | | | | | | | |
| Sn 189.927† | 2056.4 | 0.499928 | mg/L | 0.0025310 | 0.499928 | mg/L | 0.0025310 | 0.51% |
| QC value within limits for Sn 189.927 Recovery = 99.99% | | | | | | | | |
| Ti 334.940† | 417050.9 | 0.480808 | mg/L | 0.0042098 | 0.480808 | mg/L | 0.0042098 | 0.88% |
| QC value within limits for Ti 334.940 Recovery = 96.16% | | | | | | | | |
| Tl 190.801† | 435.9 | 0.505300 | mg/L | 0.0008521 | 0.505300 | mg/L | 0.0008521 | 0.17% |
| QC value within limits for Tl 190.801 Recovery = 101.06% | | | | | | | | |
| V 290.880† | 78602.9 | 0.483317 | mg/L | 0.0053050 | 0.483317 | mg/L | 0.0053050 | 1.10% |
| QC value within limits for V 290.880 Recovery = 96.66% | | | | | | | | |
| Zn 206.200† | 24504.1 | 0.485738 | mg/L | 0.0024111 | 0.485738 | mg/L | 0.0024111 | 0.50% |
| QC value within limits for Zn 206.200 Recovery = 97.15% | | | | | | | | |
| Si 251.611† | 219184.7 | 4.78107 | mg/L | 0.043727 | 4.78107 | mg/L | 0.043727 | 0.91% |
| QC value within limits for Si 251.611 Recovery = 95.62% | | | | | | | | |
| B 249.772† | 46785.2 | 0.449624 | mg/L | 0.0100161 | 0.449624 | mg/L | 0.0100161 | 2.23% |
| QC value less than the lower limit for B 249.772 Recovery = 89.92% | | | | | | | | |
| Ce 413.764 | 26643.7 | 0.499457 | mg/L | 0.0039237 | 0.499457 | mg/L | 0.0039237 | 0.79% |
| QC value within limits for Ce 413.764 Recovery = 99.89% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 40
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 12:49:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 822436.3 | 102 | % | 0.6 | | | | 0.56% |
| Y 371.029 | 872776.7 | 103 | % | 0.6 | | | | 0.56% |
| Ag 328.068† | -73.1 | 0.0000177 | mg/L | 0.00014832 | 0.0000177 | mg/L | 0.00014832 | 839.65% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -89.3 | 0.0072894 | mg/L | 0.00337951 | 0.0072894 | mg/L | 0.00337951 | 46.36% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 11.9 | 0.0120935 | mg/L | 0.00226992 | 0.0120935 | mg/L | 0.00226992 | 18.77% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -68.9 | 0.0008541 | mg/L | 0.00014209 | 0.0008541 | mg/L | 0.00014209 | 16.64% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1072.7 | 0.0039832 | mg/L | 0.00005561 | 0.0039832 | mg/L | 0.00005561 | 1.40% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 739.2 | 0.276920 | mg/L | 0.0005005 | 0.276920 | mg/L | 0.0005005 | 0.18% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 40.2 | 0.0041283 | mg/L | 0.00021749 | 0.0041283 | mg/L | 0.00021749 | 5.27% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 60.0 | 0.0024629 | mg/L | 0.00028862 | 0.0024629 | mg/L | 0.00028862 | 11.72% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 13.6 | 0.0017971 | mg/L | 0.00018109 | 0.0017971 | mg/L | 0.00018109 | 10.08% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 386.7 | 0.0045691 | mg/L | 0.00095788 | 0.0045691 | mg/L | 0.00095788 | 20.96% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -215.3 | 0.0010732 | mg/L | 0.00100819 | 0.0010732 | mg/L | 0.00100819 | 93.94% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 322.2 | 1.86005 | mg/L | 0.495031 | 1.86005 | mg/L | 0.495031 | 26.61% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -1.9 | 0.0017181 | mg/L | 0.00174384 | 0.0017181 | mg/L | 0.00174384 | 101.50% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 26.1 | 0.0013452 | mg/L | 0.00003445 | 0.0013452 | mg/L | 0.00003445 | 2.56% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 11.7 | 0.0027806 | mg/L | 0.00061864 | 0.0027806 | mg/L | 0.00061864 | 22.25% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 71.0 | 1.10236 | mg/L | 0.065704 | 1.10236 | mg/L | 0.065704 | 5.96% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 104.4 | 0.0040384 | mg/L | 0.00020382 | 0.0040384 | mg/L | 0.00020382 | 5.05% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 21.8 | 0.0073444 | mg/L | 0.00044763 | 0.0073444 | mg/L | 0.00044763 | 6.09% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -5.2 | 0.0001098 | mg/L | 0.00444702 | 0.0001098 | mg/L | 0.00444702 | >999.9% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -6.7 | -0.0052164 | mg/L | 0.00723206 | -0.0052164 | mg/L | 0.00723206 | 138.64% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -3.5 | -0.0008620 | mg/L | 0.00159272 | -0.0008620 | mg/L | 0.00159272 | 184.78% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -38.5 | 0.0033992 | mg/L | 0.00005606 | 0.0033992 | mg/L | 0.00005606 | 1.65% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -4.0 | -0.0014888 | mg/L | 0.00361696 | -0.0014888 | mg/L | 0.00361696 | 242.95% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -8.8 | 0.0035513 | mg/L | 0.00019529 | 0.0035513 | mg/L | 0.00019529 | 5.50% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -9.4 | 0.0028219 | mg/L | 0.00007456 | 0.0028219 | mg/L | 0.00007456 | 2.64% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 590.9 | -0.0801305 | mg/L | 0.00090205 | -0.0801305 | mg/L | 0.00090205 | 1.13% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -198.8 | 0.0038339 | mg/L | 0.00186068 | 0.0038339 | mg/L | 0.00186068 | 48.53% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -60.4 | -0.0210916 | mg/L | 0.00215579 | -0.0210916 | mg/L | 0.00215579 | 10.22% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: AD26083-006
Analyst:
Initial Sample Wt: 0.1294
Dilution:

Autosampler Location: 52
Date Collected: 9/29/2021 12:53:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-006

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 800244.0 | 98.8 | % | 0.45 | | | | 0.46% |
| Y 371.029 | 839288.2 | 98.7 | % | 0.50 | | | | 0.51% |
| Ag 328.068† | -353.4 | -0.0002375 | mg/L | 0.00025344 | -0.0002375 | mg/L | 0.00025344 | 106.70% |
| Al 308.215† | 9415.2 | 0.315081 | mg/L | 0.0022032 | 0.315081 | mg/L | 0.0022032 | 0.70% |
| As 188.979† | 9.4 | 0.0102279 | mg/L | 0.00372473 | 0.0102279 | mg/L | 0.00372473 | 36.42% |
| Ba 233.527† | 10778.8 | 0.113159 | mg/L | 0.0006013 | 0.113159 | mg/L | 0.0006013 | 0.53% |
| Be 313.107† | 1038.5 | 0.0039728 | mg/L | 0.00000925 | 0.0039728 | mg/L | 0.00000925 | 0.23% |
| Ca 315.887† | 1175801.9 | 8.79220 | mg/L | 0.003198 | 8.79220 | mg/L | 0.003198 | 0.04% |
| Cd 228.802† | -131.5 | 0.0055542 | mg/L | 0.00032901 | 0.0055542 | mg/L | 0.00032901 | 5.92% |
| Co 228.616† | 77.2 | 0.0033067 | mg/L | 0.00067283 | 0.0033067 | mg/L | 0.00067283 | 20.35% |
| Cr 267.716† | 106.9 | 0.0025888 | mg/L | 0.00020783 | 0.0025888 | mg/L | 0.00020783 | 8.03% |
| Cu 327.393† | 479.8 | 0.0054003 | mg/L | 0.00061732 | 0.0054003 | mg/L | 0.00061732 | 11.43% |
| Fe 273.955† | 598121.5 | 19.9117 | mg/L | 0.01778 | 19.9117 | mg/L | 0.01778 | 0.09% |
| K 404.721† | 691.0 | 4.55623 | mg/L | 0.345473 | 4.55623 | mg/L | 0.345473 | 7.58% |
| Mg 279.077† | 145976.3 | 5.79472 | mg/L | 0.001645 | 5.79472 | mg/L | 0.001645 | 0.03% |
| Mn 257.610† | 620422.8 | 0.746043 | mg/L | 0.0007150 | 0.746043 | mg/L | 0.0007150 | 0.10% |
| Mo 202.031† | 39.1 | 0.0049157 | mg/L | 0.00030966 | 0.0049157 | mg/L | 0.00030966 | 6.30% |
| Na 330.237† | 10632.4 | 8.49058 | mg/L | 0.015852 | 8.49058 | mg/L | 0.015852 | 0.19% |
| Ni 231.604† | 203.1 | 0.0070274 | mg/L | 0.00041002 | 0.0070274 | mg/L | 0.00041002 | 5.83% |
| Pb 220.353† | 10.5 | 0.0048472 | mg/L | 0.00013222 | 0.0048472 | mg/L | 0.00013222 | 2.73% |
| Sb 206.836† | -11.2 | -0.0047438 | mg/L | 0.00316298 | -0.0047438 | mg/L | 0.00316298 | 66.68% |
| Se 196.026† | -11.5 | -0.0089433 | mg/L | 0.00291510 | -0.0089433 | mg/L | 0.00291510 | 32.60% |
| Sn 189.927† | -7.3 | -0.0017949 | mg/L | 0.00086573 | -0.0017949 | mg/L | 0.00086573 | 48.23% |
| Ti 334.940† | 5101.8 | 0.0092830 | mg/L | 0.00006070 | 0.0092830 | mg/L | 0.00006070 | 0.65% |
| Tl 190.801† | -9.5 | -0.0070640 | mg/L | 0.00342612 | -0.0070640 | mg/L | 0.00342612 | 48.50% |
| V 290.880† | 349.2 | 0.0057364 | mg/L | 0.00079432 | 0.0057364 | mg/L | 0.00079432 | 13.85% |
| Zn 206.200† | 1942.3 | 0.0412694 | mg/L | 0.00033376 | 0.0412694 | mg/L | 0.00033376 | 0.81% |
| Si 251.611† | 222903.6 | 4.87052 | mg/L | 0.003179 | 4.87052 | mg/L | 0.003179 | 0.07% |
| B 249.772† | 10383.4 | 0.0318457 | mg/L | 0.00039134 | 0.0318457 | mg/L | 0.00039134 | 1.23% |
| Ce 413.764 | 156.6 | -0.0168607 | mg/L | 0.00148082 | -0.0168607 | mg/L | 0.00148082 | 8.78% |

Sequence No.: 42
Sample ID: AD26083-012
Analyst:
Initial Sample Wt: .014 gm
Dilution:

Autosampler Location: 53
Date Collected: 9/29/2021 12:56:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-012

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 786428.0 | 97.1 | % | 0.73 | | | | 0.75% |
| Y 371.029 | 815668.4 | 96.0 | % | 0.85 | | | | 0.89% |
| Ag 328.068† | -70.8 | 0.0000896 | mg/L | 0.00015736 | 0.0000896 | mg/L | 0.00015736 | 175.60% |
| Al 308.215† | 9757.7 | 0.326173 | mg/L | 0.0029334 | 0.326173 | mg/L | 0.0029334 | 0.90% |
| As 188.979† | 30.2 | 0.0255775 | mg/L | 0.00438281 | 0.0255775 | mg/L | 0.00438281 | 17.14% |
| Ba 233.527† | 11104.0 | 0.116526 | mg/L | 0.0010332 | 0.116526 | mg/L | 0.0010332 | 0.89% |
| Be 313.107† | 1340.9 | 0.0040647 | mg/L | 0.00002670 | 0.0040647 | mg/L | 0.00002670 | 0.66% |
| Ca 315.887† | 2662180.1 | 19.5635 | mg/L | 0.05460 | 19.5635 | mg/L | 0.05460 | 0.28% |
| Cd 228.802† | 30.2 | 0.0041725 | mg/L | 0.00005210 | 0.0041725 | mg/L | 0.00005210 | 1.25% |
| Co 228.616† | 76.7 | 0.0032733 | mg/L | 0.00035556 | 0.0032733 | mg/L | 0.00035556 | 10.86% |
| Cr 267.716† | 112.7 | 0.0026383 | mg/L | 0.00001948 | 0.0026383 | mg/L | 0.00001948 | 0.74% |
| Cu 327.393† | 200.2 | 0.0030951 | mg/L | 0.00097780 | 0.0030951 | mg/L | 0.00097780 | 31.59% |
| Fe 273.955† | 25513.6 | 0.857244 | mg/L | 0.0069092 | 0.857244 | mg/L | 0.0069092 | 0.81% |
| K 404.721† | 445.7 | 2.76262 | mg/L | 1.055862 | 2.76262 | mg/L | 1.055862 | 38.22% |
| Mg 279.077† | 246067.9 | 9.76675 | mg/L | 0.078858 | 9.76675 | mg/L | 0.078858 | 0.81% |
| Mn 257.610† | 86485.2 | 0.105127 | mg/L | 0.0009318 | 0.105127 | mg/L | 0.0009318 | 0.89% |
| Mo 202.031† | 68.9 | 0.0072072 | mg/L | 0.00005006 | 0.0072072 | mg/L | 0.00005006 | 0.69% |
| Na 330.237† | 147764.3 | 104.421 | mg/L | 0.8663 | 104.421 | mg/L | 0.8663 | 0.83% |
| Ni 231.604† | 233.6 | 0.0079492 | mg/L | 0.00049085 | 0.0079492 | mg/L | 0.00049085 | 6.17% |
| Pb 220.353† | 10.3 | 0.0049376 | mg/L | 0.00132663 | 0.0049376 | mg/L | 0.00132663 | 26.87% |
| Sb 206.836† | -15.5 | -0.0082810 | mg/L | 0.00168813 | -0.0082810 | mg/L | 0.00168813 | 20.39% |
| Se 196.026† | -9.1 | -0.0075478 | mg/L | 0.00493235 | -0.0075478 | mg/L | 0.00493235 | 65.35% |
| Sn 189.927† | -5.4 | -0.0013223 | mg/L | 0.00032667 | -0.0013223 | mg/L | 0.00032667 | 24.70% |
| Ti 334.940† | 14219.6 | 0.0197194 | mg/L | 0.00055961 | 0.0197194 | mg/L | 0.00055961 | 2.84% |
| Tl 190.801† | -10.3 | -0.0072377 | mg/L | 0.00239227 | -0.0072377 | mg/L | 0.00239227 | 33.05% |
| V 290.880† | 36.2 | 0.0038262 | mg/L | 0.00025767 | 0.0038262 | mg/L | 0.00025767 | 6.73% |
| Zn 206.200† | 1212.4 | 0.0268916 | mg/L | 0.00051329 | 0.0268916 | mg/L | 0.00051329 | 1.91% |
| Si 251.611† | 363053.8 | 7.97727 | mg/L | 0.061153 | 7.97727 | mg/L | 0.061153 | 0.77% |
| B 249.772† | 3178.2 | 0.0339240 | mg/L | 0.00058030 | 0.0339240 | mg/L | 0.00058030 | 1.71% |
| Ce 413.764 | 134.4 | -0.0172948 | mg/L | 0.00232271 | -0.0172948 | mg/L | 0.00232271 | 13.43% |

Sequence No.: 43
Sample ID: AD26083-014
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 9/29/2021 1:01:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-014

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 805390.0 | 99.4 | % | 0.49 | | | | 0.50% |
| Y 371.029 | 840632.1 | 98.9 | % | 0.48 | | | | 0.49% |
| Ag 328.068† | -54.8 | 0.0001387 | mg/L | 0.00008595 | 0.0001387 | mg/L | 0.00008595 | 61.96% |
| Al 308.215† | 3368.5 | 0.119266 | mg/L | 0.0033152 | 0.119266 | mg/L | 0.0033152 | 2.78% |
| As 188.979† | 11.3 | 0.0116399 | mg/L | 0.00066275 | 0.0116399 | mg/L | 0.00066275 | 5.69% |
| Ba 233.527† | 17666.8 | 0.184469 | mg/L | 0.0018714 | 0.184469 | mg/L | 0.0018714 | 1.01% |
| Be 313.107† | 1025.7 | 0.0039689 | mg/L | 0.00001605 | 0.0039689 | mg/L | 0.00001605 | 0.40% |
| Ca 315.887† | 5729073.8 | 41.7882 | mg/L | 0.08773 | 41.7882 | mg/L | 0.08773 | 0.21% |
| Cd 228.802† | 23.9 | 0.0038841 | mg/L | 0.00038026 | 0.0038841 | mg/L | 0.00038026 | 9.79% |
| Co 228.616† | 53.6 | 0.0027706 | mg/L | 0.00006721 | 0.0027706 | mg/L | 0.00006721 | 2.43% |
| Cr 267.716† | 32.0 | 0.0019537 | mg/L | 0.00031230 | 0.0019537 | mg/L | 0.00031230 | 15.99% |
| Cu 327.393† | 201.3 | 0.0033583 | mg/L | 0.00047045 | 0.0033583 | mg/L | 0.00047045 | 14.01% |
| Fe 273.955† | 8029.7 | 0.275438 | mg/L | 0.0041759 | 0.275438 | mg/L | 0.0041759 | 1.52% |
| K 404.721† | 144.0 | 0.557229 | mg/L | 0.0920332 | 0.557229 | mg/L | 0.0920332 | 16.52% |
| Mg 279.077† | 278335.9 | 11.0473 | mg/L | 0.13220 | 11.0473 | mg/L | 0.13220 | 1.20% |
| Mn 257.610† | 216848.0 | 0.261609 | mg/L | 0.0024685 | 0.261609 | mg/L | 0.0024685 | 0.94% |
| Mo 202.031† | 71.3 | 0.0073778 | mg/L | 0.00020804 | 0.0073778 | mg/L | 0.00020804 | 2.82% |
| Na 330.237† | 18269.4 | 13.8330 | mg/L | 0.09426 | 13.8330 | mg/L | 0.09426 | 0.68% |
| Ni 231.604† | 168.7 | 0.0059868 | mg/L | 0.00019725 | 0.0059868 | mg/L | 0.00019725 | 3.29% |
| Pb 220.353† | 18.1 | 0.0068444 | mg/L | 0.00145357 | 0.0068444 | mg/L | 0.00145357 | 21.24% |
| Sb 206.836† | -10.1 | -0.0038838 | mg/L | 0.00261829 | -0.0038838 | mg/L | 0.00261829 | 67.41% |
| Se 196.026† | -6.3 | -0.0048717 | mg/L | 0.00165029 | -0.0048717 | mg/L | 0.00165029 | 33.88% |
| Sn 189.927† | -7.6 | -0.0018622 | mg/L | 0.00031830 | -0.0018622 | mg/L | 0.00031830 | 17.09% |
| Ti 334.940† | 4324.0 | 0.0083926 | mg/L | 0.00026737 | 0.0083926 | mg/L | 0.00026737 | 3.19% |
| Tl 190.801† | -12.6 | -0.0084566 | mg/L | 0.00298006 | -0.0084566 | mg/L | 0.00298006 | 35.24% |
| V 290.880† | -159.5 | 0.0026316 | mg/L | 0.00080291 | 0.0026316 | mg/L | 0.00080291 | 30.51% |
| Zn 206.200† | 743.4 | 0.0176516 | mg/L | 0.00016941 | 0.0176516 | mg/L | 0.00016941 | 0.96% |
| Si 251.611† | 342999.6 | 7.53123 | mg/L | 0.078001 | 7.53123 | mg/L | 0.078001 | 1.04% |
| B 249.772† | 2139.5 | 0.0258942 | mg/L | 0.00046351 | 0.0258942 | mg/L | 0.00046351 | 1.79% |
| Ce 413.764 | -4.1 | -0.0199943 | mg/L | 0.00257528 | -0.0199943 | mg/L | 0.00257528 | 12.88% |

Sequence No.: 44
Sample ID: AD26083-016
Analyst:
Initial Sample Wt: -019 gr
Dilution:

Autosampler Location: 55
Date Collected: 9/29/2021 1:05:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-016

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 732528.4 | 90.4 | % | 0.39 | | | | 0.43% |
| Y 371.029 | 753239.3 | 88.6 | % | 0.38 | | | | 0.43% |
| Ag 328.068† | 32.2 | 0.0006980 | mg/L | 0.00031513 | 0.0006980 | mg/L | 0.00031513 | 45.14% |
| Al 308.215† | 8346.3 | 0.280467 | mg/L | 0.0040509 | 0.280467 | mg/L | 0.0040509 | 1.44% |
| As 188.979† | 28.1 | 0.0240199 | mg/L | 0.00093071 | 0.0240199 | mg/L | 0.00093071 | 3.87% |
| Ba 233.527† | 7504.7 | 0.0792628 | mg/L | 0.00071766 | 0.0792628 | mg/L | 0.00071766 | 0.91% |
| Be 313.107† | 1421.8 | 0.0040893 | mg/L | 0.00005203 | 0.0040893 | mg/L | 0.00005203 | 1.27% |
| Ca 315.887† | 4405737.1 | 32.1984 | mg/L | 0.02587 | 32.1984 | mg/L | 0.02587 | 0.08% |
| Cd 228.802† | 17.0 | 0.0040790 | mg/L | 0.00007594 | 0.0040790 | mg/L | 0.00007594 | 1.86% |
| Co 228.616† | 88.3 | 0.0035423 | mg/L | 0.00025892 | 0.0035423 | mg/L | 0.00025892 | 7.31% |
| Cr 267.716† | -66.3 | 0.0011190 | mg/L | 0.00015429 | 0.0011190 | mg/L | 0.00015429 | 13.79% |
| Cu 327.393† | -363.5 | -0.0019570 | mg/L | 0.00086807 | -0.0019570 | mg/L | 0.00086807 | 44.36% |
| Fe 273.955† | 41839.3 | 1.40051 | mg/L | 0.001352 | 1.40051 | mg/L | 0.001352 | 0.10% |
| K 404.721† | 4486.3 | 32.3007 | mg/L | 0.49762 | 32.3007 | mg/L | 0.49762 | 1.54% |
| Mg 279.077† | 1083932.2 | 43.0166 | mg/L | 0.02694 | 43.0166 | mg/L | 0.02694 | 0.06% |
| Mn 257.610† | 102225.3 | 0.124021 | mg/L | 0.0001288 | 0.124021 | mg/L | 0.0001288 | 0.10% |
| Mo 202.031† | 103.8 | 0.0098880 | mg/L | 0.00011475 | 0.0098880 | mg/L | 0.00011475 | 1.16% |
| Na 330.237† | 909669.1 | 637.409 | mg/L | 0.9267 | 637.409 | mg/L | 0.9267 | 0.15% |
| Ni 231.604† | 375.3 | 0.0122376 | mg/L | 0.00028796 | 0.0122376 | mg/L | 0.00028796 | 2.35% |
| Pb 220.353† | -14.1 | -0.0000400 | mg/L | 0.00023150 | -0.0000400 | mg/L | 0.00023150 | 578.38% |
| Sb 206.836† | -47.4 | -0.0345463 | mg/L | 0.00278433 | -0.0345463 | mg/L | 0.00278433 | 8.06% |
| Se 196.026† | -14.5 | -0.0127566 | mg/L | 0.00763777 | -0.0127566 | mg/L | 0.00763777 | 59.87% |
| Sn 189.927† | -16.4 | -0.0040091 | mg/L | 0.00079595 | -0.0040091 | mg/L | 0.00079595 | 19.85% |
| Ti 334.940† | 10455.8 | 0.0154112 | mg/L | 0.00051296 | 0.0154112 | mg/L | 0.00051296 | 3.33% |
| Tl 190.801† | -13.7 | -0.0102830 | mg/L | 0.00080486 | -0.0102830 | mg/L | 0.00080486 | 7.83% |
| V 290.880† | -579.2 | 0.0000703 | mg/L | 0.00053331 | 0.0000703 | mg/L | 0.00053331 | 758.47% |
| Zn 206.200† | 320.6 | 0.0093231 | mg/L | 0.00014827 | 0.0093231 | mg/L | 0.00014827 | 1.59% |
| Si 251.611† | 489834.4 | 10.7957 | mg/L | 0.01417 | 10.7957 | mg/L | 0.01417 | 0.13% |
| B 249.772† | 39935.3 | 0.395205 | mg/L | 0.0047996 | 0.395205 | mg/L | 0.0047996 | 1.21% |
| Ce 413.764 | -123.3 | -0.0223172 | mg/L | 0.00264576 | -0.0223172 | mg/L | 0.00264576 | 11.86% |

Sequence No.: 45
Sample ID: AD26083-019
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 56
Date Collected: 9/29/2021 1:09:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-019

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 804944.7 | 99.4 | % | 1.19 | | | | 1.20% |
| Y 371.029 | 840517.8 | 98.9 | % | 1.03 | | | | 1.04% |
| Ag 328.068† | -77.6 | 0.0001183 | mg/L | 0.00042686 | 0.0001183 | mg/L | 0.00042686 | 360.88% |
| Al 308.215† | 30482.4 | 0.997320 | mg/L | 0.0179564 | 0.997320 | mg/L | 0.0179564 | 1.80% |
| As 188.979† | 11.2 | 0.0115391 | mg/L | 0.00320537 | 0.0115391 | mg/L | 0.00320537 | 27.78% |
| Ba 233.527† | 19631.7 | 0.204813 | mg/L | 0.0021708 | 0.204813 | mg/L | 0.0021708 | 1.06% |
| Be 313.107† | 1340.2 | 0.0040645 | mg/L | 0.00005830 | 0.0040645 | mg/L | 0.00005830 | 1.43% |
| Ca 315.887† | 4933721.0 | 36.0245 | mg/L | 0.03529 | 36.0245 | mg/L | 0.03529 | 0.10% |
| Cd 228.802† | 12.7 | 0.0040883 | mg/L | 0.00026686 | 0.0040883 | mg/L | 0.00026686 | 6.53% |
| Co 228.616† | 92.7 | 0.0039768 | mg/L | 0.00053915 | 0.0039768 | mg/L | 0.00053915 | 13.56% |
| Cr 267.716† | 447.5 | 0.0054794 | mg/L | 0.00044212 | 0.0054794 | mg/L | 0.00044212 | 8.07% |
| Cu 327.393† | 348.7 | 0.0045416 | mg/L | 0.00034957 | 0.0045416 | mg/L | 0.00034957 | 7.70% |
| Fe 273.955† | 55497.4 | 1.85500 | mg/L | 0.018597 | 1.85500 | mg/L | 0.018597 | 1.00% |
| K 404.721† | 121.2 | 0.390384 | mg/L | 1.0687379 | 0.390384 | mg/L | 1.0687379 | 273.77% |
| Mg 279.077† | 293854.7 | 11.6631 | mg/L | 0.10712 | 11.6631 | mg/L | 0.10712 | 0.92% |
| Mn 257.610† | 197086.6 | 0.237888 | mg/L | 0.0024990 | 0.237888 | mg/L | 0.0024990 | 1.05% |
| Mo 202.031† | 91.3 | 0.0089794 | mg/L | 0.00071499 | 0.0089794 | mg/L | 0.00071499 | 7.96% |
| Na 330.237† | 27251.7 | 20.1166 | mg/L | 0.14272 | 20.1166 | mg/L | 0.14272 | 0.71% |
| Ni 231.604† | 325.0 | 0.0107147 | mg/L | 0.00036671 | 0.0107147 | mg/L | 0.00036671 | 3.42% |
| Pb 220.353† | 17.8 | 0.0071914 | mg/L | 0.00135131 | 0.0071914 | mg/L | 0.00135131 | 18.79% |
| Sb 206.836† | -15.6 | -0.0080859 | mg/L | 0.00422365 | -0.0080859 | mg/L | 0.00422365 | 52.23% |
| Se 196.026† | -10.9 | -0.0093160 | mg/L | 0.00597078 | -0.0093160 | mg/L | 0.00597078 | 64.09% |
| Sn 189.927† | 0.2 | 0.0000243 | mg/L | 0.00098855 | 0.0000243 | mg/L | 0.00098855 | >999.9% |
| Ti 334.940† | 30956.7 | 0.0388770 | mg/L | 0.00050260 | 0.0388770 | mg/L | 0.00050260 | 1.29% |
| Tl 190.801† | -11.3 | -0.0072510 | mg/L | 0.00075900 | -0.0072510 | mg/L | 0.00075900 | 10.47% |
| V 290.880† | 379.7 | 0.0059225 | mg/L | 0.00012908 | 0.0059225 | mg/L | 0.00012908 | 2.18% |
| Zn 206.200† | 1670.9 | 0.0359225 | mg/L | 0.00027653 | 0.0359225 | mg/L | 0.00027653 | 0.77% |
| Si 251.611† | 381435.2 | 8.38631 | mg/L | 0.012624 | 8.38631 | mg/L | 0.012624 | 0.15% |
| B 249.772† | 6516.1 | 0.0630832 | mg/L | 0.00041792 | 0.0630832 | mg/L | 0.00041792 | 0.66% |
| Ce 413.764 | 208.3 | -0.0158529 | mg/L | 0.00025521 | -0.0158529 | mg/L | 0.00025521 | 1.61% |

Sequence No.: 46
Sample ID: AD26083-021
Analyst:
Initial Sample Wt:
Dilution: -023CP

Autosampler Location: 57
Date Collected: 9/29/2021 1:13:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-021

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 812743.6 | 100 | % | 1.5 | | | | 1.48% |
| Y 371.029 | 849938.6 | 100.0 | % | 1.41 | | | | 1.41% |
| Ag 328.068† | -89.8 | 0.0000422 | mg/L | 0.00011954 | 0.0000422 | mg/L | 0.00011954 | 283.50% |
| Al 308.215† | 27747.2 | 0.908744 | mg/L | 0.0046169 | 0.908744 | mg/L | 0.0046169 | 0.51% |
| As 188.979† | 8.3 | 0.0093748 | mg/L | 0.00289618 | 0.0093748 | mg/L | 0.00289618 | 30.89% |
| Ba 233.527† | 18777.7 | 0.195971 | mg/L | 0.0004515 | 0.195971 | mg/L | 0.0004515 | 0.23% |
| Be 313.107† | 1385.7 | 0.0040783 | mg/L | 0.00002466 | 0.0040783 | mg/L | 0.00002466 | 0.60% |
| Ca 315.887† | 4802333.4 | 35.0724 | mg/L | 0.09639 | 35.0724 | mg/L | 0.09639 | 0.27% |
| Cd 228.802† | 17.0 | 0.0041374 | mg/L | 0.00011154 | 0.0041374 | mg/L | 0.00011154 | 2.70% |
| Co 228.616† | 87.2 | 0.0037845 | mg/L | 0.00045688 | 0.0037845 | mg/L | 0.00045688 | 12.07% |
| Cr 267.716† | 474.9 | 0.0057121 | mg/L | 0.00022357 | 0.0057121 | mg/L | 0.00022357 | 3.91% |
| Cu 327.393† | 514.1 | 0.0059503 | mg/L | 0.00088921 | 0.0059503 | mg/L | 0.00088921 | 14.94% |
| Fe 273.955† | 51989.2 | 1.73826 | mg/L | 0.004359 | 1.73826 | mg/L | 0.004359 | 0.25% |
| K 404.721† | 394.5 | 2.38809 | mg/L | 0.868387 | 2.38809 | mg/L | 0.868387 | 36.36% |
| Mg 279.077† | 278958.8 | 11.0720 | mg/L | 0.05191 | 11.0720 | mg/L | 0.05191 | 0.47% |
| Mn 257.610† | 188799.9 | 0.227941 | mg/L | 0.0006916 | 0.227941 | mg/L | 0.0006916 | 0.30% |
| Mo 202.031† | 84.1 | 0.0084193 | mg/L | 0.00060367 | 0.0084193 | mg/L | 0.00060367 | 7.17% |
| Na 330.237† | 26018.6 | 19.2539 | mg/L | 0.04568 | 19.2539 | mg/L | 0.04568 | 0.24% |
| Ni 231.604† | 290.9 | 0.0096851 | mg/L | 0.00014780 | 0.0096851 | mg/L | 0.00014780 | 1.53% |
| Pb 220.353† | 30.1 | 0.0102098 | mg/L | 0.00203215 | 0.0102098 | mg/L | 0.00203215 | 19.90% |
| Sb 206.836† | -9.8 | -0.0033517 | mg/L | 0.00250356 | -0.0033517 | mg/L | 0.00250356 | 74.70% |
| Se 196.026† | -5.0 | -0.0036223 | mg/L | 0.01050564 | -0.0036223 | mg/L | 0.01050564 | 290.03% |
| Sn 189.927† | 4.3 | 0.0010343 | mg/L | 0.00145546 | 0.0010343 | mg/L | 0.00145546 | 140.72% |
| Ti 334.940† | 28934.3 | 0.0365621 | mg/L | 0.00017500 | 0.0365621 | mg/L | 0.00017500 | 0.48% |
| Tl 190.801† | -14.1 | -0.0105064 | mg/L | 0.00276806 | -0.0105064 | mg/L | 0.00276806 | 26.35% |
| V 290.880† | 253.4 | 0.0051518 | mg/L | 0.00045826 | 0.0051518 | mg/L | 0.00045826 | 8.90% |
| Zn 206.200† | 1953.5 | 0.0414901 | mg/L | 0.00038472 | 0.0414901 | mg/L | 0.00038472 | 0.93% |
| Si 251.611† | 368516.5 | 8.09909 | mg/L | 0.018895 | 8.09909 | mg/L | 0.018895 | 0.23% |
| B 249.772† | 5862.4 | 0.0570699 | mg/L | 0.00022434 | 0.0570699 | mg/L | 0.00022434 | 0.39% |
| Ce 413.764 | 184.3 | -0.0163212 | mg/L | 0.00037241 | -0.0163212 | mg/L | 0.00037241 | 2.28% |

Sequence No.: 47
Sample ID: AD26083-028
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 58
Date Collected: 9/29/2021 1:17:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-028

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 752866.2 | 92.9 | % | 0.52 | | | | 0.56% |
| Y 371.029 | 779949.6 | 91.8 | % | 0.49 | | | | 0.54% |
| Ag 328.068† | -396.1 | -0.0008018 | mg/L | 0.00034791 | -0.0008018 | mg/L | 0.00034791 | 43.39% |
| Al 308.215† | 243132.4 | 7.88376 | mg/L | 0.006453 | 7.88376 | mg/L | 0.006453 | 0.08% |
| As 188.979† | 11.3 | 0.0111567 | mg/L | 0.00131969 | 0.0111567 | mg/L | 0.00131969 | 11.83% |
| Ba 233.527† | 155809.9 | 1.61465 | mg/L | 0.002319 | 1.61465 | mg/L | 0.002319 | 0.14% |
| Be 313.107† | 3693.6 | 0.0047795 | mg/L | 0.00002193 | 0.0047795 | mg/L | 0.00002193 | 0.46% |
| Ca 315.887† | 32058143.7 | 232.586 | mg/L | 3.6449 | 232.586 | mg/L | 3.6449 | 1.57% |
| Cd 228.802† | -141.1 | 0.0043683 | mg/L | 0.00011754 | 0.0043683 | mg/L | 0.00011754 | 2.69% |
| Co 228.616† | 227.4 | 0.0113009 | mg/L | 0.00044859 | 0.0113009 | mg/L | 0.00044859 | 3.97% |
| Cr 267.716† | 2388.7 | 0.0219513 | mg/L | 0.00022503 | 0.0219513 | mg/L | 0.00022503 | 1.03% |
| Cu 327.393† | 678.6 | 0.0090242 | mg/L | 0.00012348 | 0.0090242 | mg/L | 0.00012348 | 1.37% |
| Fe 273.955† | 442461.5 | 14.7319 | mg/L | 0.03124 | 14.7319 | mg/L | 0.03124 | 0.21% |
| K 404.721† | 1868.3 | 13.1623 | mg/L | 0.90166 | 13.1623 | mg/L | 0.90166 | 6.85% |
| Mg 279.077† | 1843980.2 | 73.1783 | mg/L | 0.26191 | 73.1783 | mg/L | 0.26191 | 0.36% |
| Mn 257.610† | 920079.8 | 1.10574 | mg/L | 0.002543 | 1.10574 | mg/L | 0.002543 | 0.23% |
| Mo 202.031† | 136.3 | 0.0129714 | mg/L | 0.00114341 | 0.0129714 | mg/L | 0.00114341 | 8.81% |
| Na 330.237† | 313520.1 | 220.375 | mg/L | 0.2943 | 220.375 | mg/L | 0.2943 | 0.13% |
| Ni 231.604† | 1153.9 | 0.0358043 | mg/L | 0.00081552 | 0.0358043 | mg/L | 0.00081552 | 2.28% |
| Pb 220.353† | 30.2 | 0.0156394 | mg/L | 0.00034187 | 0.0156394 | mg/L | 0.00034187 | 2.19% |
| Sb 206.836† | -44.1 | -0.0292477 | mg/L | 0.00086907 | -0.0292477 | mg/L | 0.00086907 | 2.97% |
| Se 196.026† | -31.7 | -0.0300185 | mg/L | 0.00126439 | -0.0300185 | mg/L | 0.00126439 | 4.21% |
| Sn 189.927† | -15.5 | -0.0037795 | mg/L | 0.00099498 | -0.0037795 | mg/L | 0.00099498 | 26.33% |
| Ti 334.940† | 342215.0 | 0.395149 | mg/L | 0.0012776 | 0.395149 | mg/L | 0.0012776 | 0.32% |
| Tl 190.801† | -22.0 | -0.0053275 | mg/L | 0.00199223 | -0.0053275 | mg/L | 0.00199223 | 37.40% |
| V 290.880† | 2567.5 | 0.0192749 | mg/L | 0.00089357 | 0.0192749 | mg/L | 0.00089357 | 4.64% |
| Zn 206.200† | 4256.2 | 0.0868544 | mg/L | 0.00131477 | 0.0868544 | mg/L | 0.00131477 | 1.51% |
| Si 251.611† | 950156.5 | 21.0339 | mg/L | 0.04477 | 21.0339 | mg/L | 0.04477 | 0.21% |
| B 249.772† | 32462.3 | 0.270039 | mg/L | 0.0016876 | 0.270039 | mg/L | 0.0016876 | 0.62% |
| Ce 413.764 | 1203.6 | 0.0035481 | mg/L | 0.00206806 | 0.0035481 | mg/L | 0.00206806 | 58.29% |

Sequence No.: 48
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 9/29/2021 1:21:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 781065.4 | 96.4 | % | 0.54 | | | | 0.56% |
| Y 371.029 | 813176.8 | 95.7 | % | 0.56 | | | | 0.58% |
| Ag 328.068† | 17390.6 | 0.0984587 | mg/L | 0.00037817 | 0.0984587 | mg/L | 0.00037817 | 0.38% |
| QC value within limits for Ag 328.068 Recovery = 98.46% | | | | | | | | |
| Al 308.215† | 151503.4 | 4.91645 | mg/L | 0.030890 | 4.91645 | mg/L | 0.030890 | 0.63% |
| QC value within limits for Al 308.215 Recovery = 98.33% | | | | | | | | |
| As 188.979† | 685.7 | 0.507585 | mg/L | 0.0055352 | 0.507585 | mg/L | 0.0055352 | 1.09% |
| QC value within limits for As 188.979 Recovery = 101.52% | | | | | | | | |
| Ba 233.527† | 46768.6 | 0.485758 | mg/L | 0.0036764 | 0.485758 | mg/L | 0.0036764 | 0.76% |
| QC value within limits for Ba 233.527 Recovery = 97.15% | | | | | | | | |
| Be 313.107† | 1578141.6 | 0.483120 | mg/L | 0.0009366 | 0.483120 | mg/L | 0.0009366 | 0.19% |
| QC value within limits for Be 313.107 Recovery = 96.62% | | | | | | | | |
| Ca 315.887† | 6698647.1 | 48.8144 | mg/L | 0.11189 | 48.8144 | mg/L | 0.11189 | 0.23% |
| QC value within limits for Ca 315.887 Recovery = 97.63% | | | | | | | | |
| Cd 228.802† | 24476.6 | 0.505326 | mg/L | 0.0036636 | 0.505326 | mg/L | 0.0036636 | 0.73% |
| QC value within limits for Cd 228.802 Recovery = 101.07% | | | | | | | | |
| Co 228.616† | 15585.9 | 0.489869 | mg/L | 0.0033161 | 0.489869 | mg/L | 0.0033161 | 0.68% |
| QC value within limits for Co 228.616 Recovery = 97.97% | | | | | | | | |
| Cr 267.716† | 57934.0 | 0.493287 | mg/L | 0.0043335 | 0.493287 | mg/L | 0.0043335 | 0.88% |
| QC value within limits for Cr 267.716 Recovery = 98.66% | | | | | | | | |
| Cu 327.393† | 57832.8 | 0.495597 | mg/L | 0.0028738 | 0.495597 | mg/L | 0.0028738 | 0.58% |
| QC value within limits for Cu 327.393 Recovery = 99.12% | | | | | | | | |
| Fe 273.955† | 146259.4 | 4.87526 | mg/L | 0.043222 | 4.87526 | mg/L | 0.043222 | 0.89% |
| QC value within limits for Fe 273.955 Recovery = 97.51% | | | | | | | | |
| K 404.721† | 6642.1 | 48.0597 | mg/L | 1.23122 | 48.0597 | mg/L | 1.23122 | 2.56% |
| QC value within limits for K 404.721 Recovery = 96.12% | | | | | | | | |
| Mg 279.077† | 1242846.4 | 49.3229 | mg/L | 0.17153 | 49.3229 | mg/L | 0.17153 | 0.35% |
| QC value within limits for Mg 279.077 Recovery = 98.65% | | | | | | | | |
| Mn 257.610† | 405396.6 | 0.487935 | mg/L | 0.0036741 | 0.487935 | mg/L | 0.0036741 | 0.75% |
| QC value within limits for Mn 257.610 Recovery = 97.59% | | | | | | | | |
| Mo 202.031† | 6192.7 | 0.478454 | mg/L | 0.0042597 | 0.478454 | mg/L | 0.0042597 | 0.89% |
| QC value within limits for Mo 202.031 Recovery = 95.69% | | | | | | | | |
| Na 330.237† | 67275.6 | 48.1151 | mg/L | 0.27895 | 48.1151 | mg/L | 0.27895 | 0.58% |
| QC value within limits for Na 330.237 Recovery = 96.23% | | | | | | | | |
| Ni 231.604† | 16367.5 | 0.496263 | mg/L | 0.0038737 | 0.496263 | mg/L | 0.0038737 | 0.78% |
| QC value within limits for Ni 231.604 Recovery = 99.25% | | | | | | | | |
| Pb 220.353† | 2060.2 | 0.521342 | mg/L | 0.0032292 | 0.521342 | mg/L | 0.0032292 | 0.62% |
| QC value within limits for Pb 220.353 Recovery = 104.27% | | | | | | | | |
| Sb 206.836† | 571.5 | 0.480024 | mg/L | 0.0049219 | 0.480024 | mg/L | 0.0049219 | 1.03% |
| QC value within limits for Sb 206.836 Recovery = 96.00% | | | | | | | | |
| Se 196.026† | 488.3 | 0.476143 | mg/L | 0.0066654 | 0.476143 | mg/L | 0.0066654 | 1.40% |
| QC value within limits for Se 196.026 Recovery = 95.23% | | | | | | | | |
| Sn 189.927† | 2076.4 | 0.504797 | mg/L | 0.0047863 | 0.504797 | mg/L | 0.0047863 | 0.95% |
| QC value within limits for Sn 189.927 Recovery = 100.96% | | | | | | | | |
| Ti 334.940† | 419712.8 | 0.483855 | mg/L | 0.0031276 | 0.483855 | mg/L | 0.0031276 | 0.65% |
| QC value within limits for Ti 334.940 Recovery = 96.77% | | | | | | | | |
| Tl 190.801† | 437.9 | 0.507588 | mg/L | 0.0013795 | 0.507588 | mg/L | 0.0013795 | 0.27% |
| QC value within limits for Tl 190.801 Recovery = 101.52% | | | | | | | | |
| V 290.880† | 79183.3 | 0.486859 | mg/L | 0.0036963 | 0.486859 | mg/L | 0.0036963 | 0.76% |
| QC value within limits for V 290.880 Recovery = 97.37% | | | | | | | | |
| Zn 206.200† | 24523.5 | 0.486119 | mg/L | 0.0037292 | 0.486119 | mg/L | 0.0037292 | 0.77% |
| QC value within limits for Zn 206.200 Recovery = 97.22% | | | | | | | | |
| Si 251.611† | 220626.1 | 4.81312 | mg/L | 0.036736 | 4.81312 | mg/L | 0.036736 | 0.76% |
| QC value within limits for Si 251.611 Recovery = 96.26% | | | | | | | | |
| B 249.772† | 45969.8 | 0.441491 | mg/L | 0.0079422 | 0.441491 | mg/L | 0.0079422 | 1.80% |
| QC value less than the lower limit for B 249.772 Recovery = 88.30% | | | | | | | | |
| Ce 413.764 | 26971.8 | 0.505853 | mg/L | 0.0056018 | 0.505853 | mg/L | 0.0056018 | 1.11% |
| QC value within limits for Ce 413.764 Recovery = 101.17% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 49
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 1:25:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 838151.9 | 103 | % | 0.7 | | | | 0.70% |
| Y 371.029 | 894065.7 | 105 | % | 0.6 | | | | 0.56% |
| Ag 328.068† | -101.2 | -0.0001395 | mg/L | 0.00043323 | -0.0001395 | mg/L | 0.00043323 | 310.56% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -367.6 | -0.0017228 | mg/L | 0.00434328 | -0.0017228 | mg/L | 0.00434328 | 252.11% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 10.2 | 0.0108777 | mg/L | 0.00141013 | 0.0108777 | mg/L | 0.00141013 | 12.96% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -60.9 | 0.0009371 | mg/L | 0.00010967 | 0.0009371 | mg/L | 0.00010967 | 11.70% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1308.0 | 0.0040547 | mg/L | 0.00004441 | 0.0040547 | mg/L | 0.00004441 | 1.10% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 1179.2 | 0.280109 | mg/L | 0.0023029 | 0.280109 | mg/L | 0.0023029 | 0.82% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 30.2 | 0.0039279 | mg/L | 0.00004385 | 0.0039279 | mg/L | 0.00004385 | 1.12% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 85.8 | 0.0032710 | mg/L | 0.00014104 | 0.0032710 | mg/L | 0.00014104 | 4.31% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 38.5 | 0.0020086 | mg/L | 0.00010557 | 0.0020086 | mg/L | 0.00010557 | 5.26% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 562.3 | 0.0060698 | mg/L | 0.00038137 | 0.0060698 | mg/L | 0.00038137 | 6.28% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -170.6 | 0.0025589 | mg/L | 0.00101366 | 0.0025589 | mg/L | 0.00101366 | 39.61% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 114.7 | 0.342980 | mg/L | 0.2726006 | 0.342980 | mg/L | 0.2726006 | 79.48% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 143.9 | 0.0075032 | mg/L | 0.00194042 | 0.0075032 | mg/L | 0.00194042 | 25.86% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 49.2 | 0.0013729 | mg/L | 0.00008598 | 0.0013729 | mg/L | 0.00008598 | 6.26% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 17.0 | 0.0031937 | mg/L | 0.00040657 | 0.0031937 | mg/L | 0.00040657 | 12.73% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 133.8 | 1.14633 | mg/L | 0.038266 | 1.14633 | mg/L | 0.038266 | 3.34% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 112.3 | 0.0042796 | mg/L | 0.00021622 | 0.0042796 | mg/L | 0.00021622 | 5.05% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 39.8 | 0.0118418 | mg/L | 0.00040455 | 0.0118418 | mg/L | 0.00040455 | 3.42% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -1.2 | 0.0033855 | mg/L | 0.00157099 | 0.0033855 | mg/L | 0.00157099 | 46.40% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -11.3 | -0.0097162 | mg/L | 0.00697319 | -0.0097162 | mg/L | 0.00697319 | 71.77% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -4.2 | -0.0010361 | mg/L | 0.00105586 | -0.0010361 | mg/L | 0.00105586 | 101.91% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 15.0 | 0.0034604 | mg/L | 0.00002220 | 0.0034604 | mg/L | 0.00002220 | 0.64% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -6.2 | -0.0040000 | mg/L | 0.00106373 | -0.0040000 | mg/L | 0.00106373 | 26.59% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 22.0 | 0.0037397 | mg/L | 0.00043540 | 0.0037397 | mg/L | 0.00043540 | 11.64% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -19.1 | 0.0026300 | mg/L | 0.00005779 | 0.0026300 | mg/L | 0.00005779 | 2.20% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 272.8 | -0.0872015 | mg/L | 0.00057462 | -0.0872015 | mg/L | 0.00057462 | 0.66% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -808.6 | -0.0021997 | mg/L | 0.00109351 | -0.0021997 | mg/L | 0.00109351 | 49.71% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -43.0 | -0.0207520 | mg/L | 0.00146722 | -0.0207520 | mg/L | 0.00146722 | 7.07% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 50
Sample ID: AD26083-030
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 59
Date Collected: 9/29/2021 1:29:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-030

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 786761.2 | 97.1 | % | 2.35 | | | | 2.42% |
| Y 371.029 | 820674.0 | 96.5 | % | 2.38 | | | | 2.46% |
| Ag 328.068† | -16.4 | 0.0003489 | mg/L | 0.00031976 | 0.0003489 | mg/L | 0.00031976 | 91.64% |
| Al 308.215† | 3545.1 | 0.124983 | mg/L | 0.0096030 | 0.124983 | mg/L | 0.0096030 | 7.68% |
| As 188.979† | 15.3 | 0.0145896 | mg/L | 0.00225251 | 0.0145896 | mg/L | 0.00225251 | 15.44% |
| Ba 233.527† | 10679.9 | 0.112135 | mg/L | 0.0020792 | 0.112135 | mg/L | 0.0020792 | 1.85% |
| Be 313.107† | 1347.2 | 0.0040666 | mg/L | 0.00003410 | 0.0040666 | mg/L | 0.00003410 | 0.84% |
| Ca 315.887† | 904936.2 | 6.82933 | mg/L | 0.153077 | 6.82933 | mg/L | 0.153077 | 2.24% |
| Cd 228.802† | 10.4 | 0.0036057 | mg/L | 0.00039959 | 0.0036057 | mg/L | 0.00039959 | 11.08% |
| Co 228.616† | 80.9 | 0.0034182 | mg/L | 0.00025915 | 0.0034182 | mg/L | 0.00025915 | 7.58% |
| Cr 267.716† | 19.4 | 0.0018469 | mg/L | 0.00058092 | 0.0018469 | mg/L | 0.00058092 | 31.45% |
| Cu 327.393† | 124.1 | 0.0023308 | mg/L | 0.00167914 | 0.0023308 | mg/L | 0.00167914 | 72.04% |
| Fe 273.955† | 5711.2 | 0.198287 | mg/L | 0.0053775 | 0.198287 | mg/L | 0.0053775 | 2.71% |
| K 404.721† | 1320.9 | 9.16094 | mg/L | 1.380796 | 9.16094 | mg/L | 1.380796 | 15.07% |
| Mg 279.077† | 159190.9 | 6.31913 | mg/L | 0.149547 | 6.31913 | mg/L | 0.149547 | 2.37% |
| Mn 257.610† | 41724.5 | 0.0513982 | mg/L | 0.00129165 | 0.0513982 | mg/L | 0.00129165 | 2.51% |
| Mo 202.031† | 44.2 | 0.0052921 | mg/L | 0.00046978 | 0.0052921 | mg/L | 0.00046978 | 8.88% |
| Na 330.237† | 123829.5 | 87.6772 | mg/L | 2.17134 | 87.6772 | mg/L | 2.17134 | 2.48% |
| Ni 231.604† | 221.2 | 0.0075738 | mg/L | 0.00046869 | 0.0075738 | mg/L | 0.00046869 | 6.19% |
| Pb 220.353† | 21.2 | 0.0074534 | mg/L | 0.00101704 | 0.0074534 | mg/L | 0.00101704 | 13.65% |
| Sb 206.836† | -16.6 | -0.0092277 | mg/L | 0.00835700 | -0.0092277 | mg/L | 0.00835700 | 90.56% |
| Se 196.026† | -5.3 | -0.0038907 | mg/L | 0.00735276 | -0.0038907 | mg/L | 0.00735276 | 188.98% |
| Sn 189.927† | -6.9 | -0.0017005 | mg/L | 0.00042452 | -0.0017005 | mg/L | 0.00042452 | 24.96% |
| Ti 334.940† | 4974.3 | 0.0091369 | mg/L | 0.00014556 | 0.0091369 | mg/L | 0.00014556 | 1.59% |
| Tl 190.801† | -8.0 | -0.0055346 | mg/L | 0.00273208 | -0.0055346 | mg/L | 0.00273208 | 49.36% |
| V 290.880† | 116.7 | 0.0043173 | mg/L | 0.00021985 | 0.0043173 | mg/L | 0.00021985 | 5.09% |
| Zn 206.200† | 556.7 | 0.0139745 | mg/L | 0.00041702 | 0.0139745 | mg/L | 0.00041702 | 2.98% |
| Si 251.611† | 260948.3 | 5.70732 | mg/L | 0.147273 | 5.70732 | mg/L | 0.147273 | 2.58% |
| B 249.772† | 10778.7 | 0.111595 | mg/L | 0.0033246 | 0.111595 | mg/L | 0.0033246 | 2.98% |
| Ce 413.764 | 7.2 | -0.0197742 | mg/L | 0.00111857 | -0.0197742 | mg/L | 0.00111857 | 5.66% |

Sequence No.: 51
Sample ID: AD26083-036
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 60
Date Collected: 9/29/2021 1:33:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-036

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 610531.7 | 75.4 | % | 0.87 | | | | 1.15% |
| Y 371.029 | 630972.9 | 74.2 | % | 0.93 | | | | 1.25% |
| Ag 328.068† | -303.6 | -0.0009532 | mg/L | 0.00055061 | -0.0009532 | mg/L | 0.00055061 | 57.77% |
| Al 308.215† | 17124.3 | 0.564731 | mg/L | 0.0038158 | 0.564731 | mg/L | 0.0038158 | 0.68% |
| As 188.979† | 24.0 | 0.0209974 | mg/L | 0.00125438 | 0.0209974 | mg/L | 0.00125438 | 5.97% |
| Ba 233.527† | 4946.5 | 0.0527781 | mg/L | 0.00044102 | 0.0527781 | mg/L | 0.00044102 | 0.84% |
| Be 313.107† | -917.2 | 0.0033787 | mg/L | 0.00001716 | 0.0033787 | mg/L | 0.00001716 | 0.51% |
| Ca 315.887† | Saturated3 | | | | | | | |
| Cd 228.802† | -0.1 | 0.0047292 | mg/L | 0.00033188 | 0.0047292 | mg/L | 0.00033188 | 7.02% |
| Co 228.616† | 342.0 | 0.0113701 | mg/L | 0.00045719 | 0.0113701 | mg/L | 0.00045719 | 4.02% |
| Cr 267.716† | -142.0 | 0.0004772 | mg/L | 0.00047703 | 0.0004772 | mg/L | 0.00047703 | 99.97% |
| Cu 327.393† | -7174.0 | -0.0641530 | mg/L | 0.00068827 | -0.0641530 | mg/L | 0.00068827 | 1.07% |
| Fe 273.955† | 148506.7 | 4.95004 | mg/L | 0.002750 | 4.95004 | mg/L | 0.002750 | 0.06% |
| K 404.721† | 7119.0 | 51.5465 | mg/L | 1.32271 | 51.5465 | mg/L | 1.32271 | 2.57% |
| Mg 279.077† | 8879361.2 | 352.370 | mg/L | 3.4116 | 352.370 | mg/L | 3.4116 | 0.97% |
| Mn 257.610† | 5594500.0 | 6.71672 | mg/L | 0.058387 | 6.71672 | mg/L | 0.058387 | 0.87% |
| Mo 202.031† | 206.0 | 0.0177693 | mg/L | 0.00121122 | 0.0177693 | mg/L | 0.00121122 | 6.82% |
| Na 330.237† | 4476241.3 | 3132.39 | mg/L | 25.964 | 3132.39 | mg/L | 25.964 | 0.83% |
| Ni 231.604† | 808.8 | 0.0253602 | mg/L | 0.00096036 | 0.0253602 | mg/L | 0.00096036 | 3.79% |
| Pb 220.353† | -52.1 | 0.0012372 | mg/L | 0.00221967 | 0.0012372 | mg/L | 0.00221967 | 179.40% |
| Sb 206.836† | -106.0 | -0.0825921 | mg/L | 0.00500869 | -0.0825921 | mg/L | 0.00500869 | 6.06% |
| Se 196.026† | -57.8 | -0.0548193 | mg/L | 0.00410287 | -0.0548193 | mg/L | 0.00410287 | 7.48% |
| Sn 189.927† | -43.7 | -0.0106508 | mg/L | 0.00232011 | -0.0106508 | mg/L | 0.00232011 | 21.78% |
| Ti 334.940† | 30939.0 | 0.0388567 | mg/L | 0.00057585 | 0.0388567 | mg/L | 0.00057585 | 1.48% |
| Tl 190.801† | -36.0 | -0.0379394 | mg/L | 0.00218613 | -0.0379394 | mg/L | 0.00218613 | 5.76% |
| V 290.880† | -1915.4 | -0.0080846 | mg/L | 0.00031721 | -0.0080846 | mg/L | 0.00031721 | 3.92% |
| Zn 206.200† | 417.2 | 0.0112253 | mg/L | 0.00005101 | 0.0112253 | mg/L | 0.00005101 | 0.45% |
| Si 251.611† | 462302.7 | 10.1853 | mg/L | 0.00688 | 10.1853 | mg/L | 0.00688 | 0.07% |
| B 249.772† | 53088.3 | 0.511575 | mg/L | 0.0036029 | 0.511575 | mg/L | 0.0036029 | 0.70% |
| Ce 413.764 | -504.4 | -0.0297458 | mg/L | 0.00170752 | -0.0297458 | mg/L | 0.00170752 | 5.74% |

Sequence No.: 52
Sample ID: AD26083-038
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 9/29/2021 1:38:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-038

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 780075.6 | 96.3 | % | 0.70 | | | | 0.73% |
| Y 371.029 | 820108.2 | 96.5 | % | 0.78 | | | | 0.81% |
| Ag 328.068† | -21.6 | 0.0003222 | mg/L | 0.00014424 | 0.0003222 | mg/L | 0.00014424 | 44.76% |
| Al 308.215† | 1189.2 | 0.0486917 | mg/L | 0.00197913 | 0.0486917 | mg/L | 0.00197913 | 4.06% |
| As 188.979† | 8.4 | 0.0095129 | mg/L | 0.00227907 | 0.0095129 | mg/L | 0.00227907 | 23.96% |
| Ba 233.527† | 5333.3 | 0.0567819 | mg/L | 0.00030024 | 0.0567819 | mg/L | 0.00030024 | 0.53% |
| Be 313.107† | 1330.5 | 0.0040616 | mg/L | 0.00001330 | 0.0040616 | mg/L | 0.00001330 | 0.33% |
| Ca 315.887† | 2678168.3 | 19.6793 | mg/L | 0.05571 | 19.6793 | mg/L | 0.05571 | 0.28% |
| Cd 228.802† | 33.9 | 0.0040993 | mg/L | 0.00022337 | 0.0040993 | mg/L | 0.00022337 | 5.45% |
| Co 228.616† | 76.5 | 0.0031362 | mg/L | 0.00042412 | 0.0031362 | mg/L | 0.00042412 | 13.52% |
| Cr 267.716† | 110.9 | 0.0026231 | mg/L | 0.00023704 | 0.0026231 | mg/L | 0.00023704 | 9.04% |
| Cu 327.393† | 378.1 | 0.0046538 | mg/L | 0.00027714 | 0.0046538 | mg/L | 0.00027714 | 5.96% |
| Fe 273.955† | 7277.7 | 0.250414 | mg/L | 0.0015422 | 0.250414 | mg/L | 0.0015422 | 0.62% |
| K 404.721† | 293.3 | 1.64834 | mg/L | 0.331909 | 1.64834 | mg/L | 0.331909 | 20.14% |
| Mg 279.077† | 166749.8 | 6.61909 | mg/L | 0.039834 | 6.61909 | mg/L | 0.039834 | 0.60% |
| Mn 257.610† | 5839.6 | 0.0083234 | mg/L | 0.00027580 | 0.0083234 | mg/L | 0.00027580 | 3.31% |
| Mo 202.031† | 59.6 | 0.0064670 | mg/L | 0.00071590 | 0.0064670 | mg/L | 0.00071590 | 11.07% |
| Na 330.237† | 23989.9 | 17.8347 | mg/L | 0.11282 | 17.8347 | mg/L | 0.11282 | 0.63% |
| Ni 231.604† | 235.4 | 0.0080037 | mg/L | 0.00035921 | 0.0080037 | mg/L | 0.00035921 | 4.49% |
| Pb 220.353† | 32.9 | 0.0103563 | mg/L | 0.00238932 | 0.0103563 | mg/L | 0.00238932 | 23.07% |
| Sb 206.836† | -5.9 | -0.0004741 | mg/L | 0.00211506 | -0.0004741 | mg/L | 0.00211506 | 446.15% |
| Se 196.026† | -8.9 | -0.0073598 | mg/L | 0.01128623 | -0.0073598 | mg/L | 0.01128623 | 153.35% |
| Sn 189.927† | -9.8 | -0.0023929 | mg/L | 0.00057263 | -0.0023929 | mg/L | 0.00057263 | 23.93% |
| Ti 334.940† | 1310.6 | 0.0049435 | mg/L | 0.00010724 | 0.0049435 | mg/L | 0.00010724 | 2.17% |
| Tl 190.801† | -10.4 | -0.0073621 | mg/L | 0.00161877 | -0.0073621 | mg/L | 0.00161877 | 21.99% |
| V 290.880† | 321.9 | 0.0055697 | mg/L | 0.00069836 | 0.0055697 | mg/L | 0.00069836 | 12.54% |
| Zn 206.200† | 352.5 | 0.0099505 | mg/L | 0.00009351 | 0.0099505 | mg/L | 0.00009351 | 0.94% |
| Si 251.611† | 115072.7 | 2.46474 | mg/L | 0.008441 | 2.46474 | mg/L | 0.008441 | 0.34% |
| B 249.772† | 874.9 | 0.0134891 | mg/L | 0.00014942 | 0.0134891 | mg/L | 0.00014942 | 1.11% |
| Ce 413.764 | -64.9 | -0.0211784 | mg/L | 0.00230376 | -0.0211784 | mg/L | 0.00230376 | 10.88% |

Sequence No.: 53
Sample ID: AD26083-046
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 62
Date Collected: 9/29/2021 1:42:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-046

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 769062.3 | 94.9 | % | 1.51 | | | | 1.59% |
| Y 371.029 | 806152.5 | 94.8 | % | 1.55 | | | | 1.63% |
| Ag 328.068† | -7.3 | 0.0004309 | mg/L | 0.00028752 | 0.0004309 | mg/L | 0.00028752 | 66.73% |
| Al 308.215† | 2241.9 | 0.0827811 | mg/L | 0.00801997 | 0.0827811 | mg/L | 0.00801997 | 9.69% |
| As 188.979† | 13.1 | 0.0130167 | mg/L | 0.00077407 | 0.0130167 | mg/L | 0.00077407 | 5.95% |
| Ba 233.527† | 4935.8 | 0.0526674 | mg/L | 0.00065325 | 0.0526674 | mg/L | 0.00065325 | 1.24% |
| Be 313.107† | 1465.1 | 0.0041024 | mg/L | 0.00003885 | 0.0041024 | mg/L | 0.00003885 | 0.95% |
| Ca 315.887† | 1597061.7 | 11.8449 | mg/L | 0.15483 | 11.8449 | mg/L | 0.15483 | 1.31% |
| Cd 228.802† | 64.5 | 0.0048159 | mg/L | 0.00038905 | 0.0048159 | mg/L | 0.00038905 | 8.08% |
| Co 228.616† | 86.6 | 0.0034377 | mg/L | 0.00004169 | 0.0034377 | mg/L | 0.00004169 | 1.21% |
| Cr 267.716† | 56.5 | 0.0021616 | mg/L | 0.00033613 | 0.0021616 | mg/L | 0.00033613 | 15.55% |
| Cu 327.393† | 512.2 | 0.0057581 | mg/L | 0.00114341 | 0.0057581 | mg/L | 0.00114341 | 19.86% |
| Fe 273.955† | 21027.5 | 0.707963 | mg/L | 0.0079974 | 0.707963 | mg/L | 0.0079974 | 1.13% |
| K 404.721† | 3421.9 | 24.5195 | mg/L | 1.73289 | 24.5195 | mg/L | 1.73289 | 7.07% |
| Mg 279.077† | 51007.2 | 2.02596 | mg/L | 0.025105 | 2.02596 | mg/L | 0.025105 | 1.24% |
| Mn 257.610† | 99739.5 | 0.121037 | mg/L | 0.0015936 | 0.121037 | mg/L | 0.0015936 | 1.32% |
| Mo 202.031† | 51.6 | 0.0058556 | mg/L | 0.00068460 | 0.0058556 | mg/L | 0.00068460 | 11.69% |
| Na 330.237† | 43872.8 | 31.7438 | mg/L | 0.34736 | 31.7438 | mg/L | 0.34736 | 1.09% |
| Ni 231.604† | 179.1 | 0.0062997 | mg/L | 0.00058161 | 0.0062997 | mg/L | 0.00058161 | 9.23% |
| Pb 220.353† | 34.8 | 0.0106819 | mg/L | 0.00059764 | 0.0106819 | mg/L | 0.00059764 | 5.59% |
| Sb 206.836† | -6.7 | -0.0011371 | mg/L | 0.00349591 | -0.0011371 | mg/L | 0.00349591 | 307.45% |
| Se 196.026† | -11.3 | -0.0096457 | mg/L | 0.00233650 | -0.0096457 | mg/L | 0.00233650 | 24.22% |
| Sn 189.927† | -8.3 | -0.0020289 | mg/L | 0.00196152 | -0.0020289 | mg/L | 0.00196152 | 96.68% |
| Ti 334.940† | 2011.7 | 0.0057459 | mg/L | 0.00012511 | 0.0057459 | mg/L | 0.00012511 | 2.18% |
| Tl 190.801† | -7.2 | -0.0042876 | mg/L | 0.00655393 | -0.0042876 | mg/L | 0.00655393 | 152.86% |
| V 290.880† | 152.1 | 0.0045337 | mg/L | 0.00061610 | 0.0045337 | mg/L | 0.00061610 | 13.59% |
| Zn 206.200† | 1549.7 | 0.0335360 | mg/L | 0.00046628 | 0.0335360 | mg/L | 0.00046628 | 1.39% |
| Si 251.611† | 165083.5 | 3.57662 | mg/L | 0.043323 | 3.57662 | mg/L | 0.043323 | 1.21% |
| B 249.772† | 1617.4 | 0.0190694 | mg/L | 0.00048462 | 0.0190694 | mg/L | 0.00048462 | 2.54% |
| Ce 413.764 | -166.2 | -0.0231529 | mg/L | 0.00116317 | -0.0231529 | mg/L | 0.00116317 | 5.02% |

Sequence No.: 54
Sample ID: AD26083-039
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 63
Date Collected: 9/29/2021 1:46:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-039

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 740898.3 | 91.5 | % | 0.10 | | | | 0.11% |
| Y 371.029 | 765574.8 | 90.1 | % | 0.58 | | | | 0.64% |
| Ag 328.068† | 309.4 | 0.0021657 | mg/L | 0.00059929 | 0.0021657 | mg/L | 0.00059929 | 27.67% |
| Al 308.215† | 1620.5 | 0.0626569 | mg/L | 0.01255985 | 0.0626569 | mg/L | 0.01255985 | 20.05% |
| As 188.979† | 59.2 | 0.0469407 | mg/L | 0.01279231 | 0.0469407 | mg/L | 0.01279231 | 27.25% |
| Ba 233.527† | 4537.3 | 0.0485418 | mg/L | 0.00114397 | 0.0485418 | mg/L | 0.00114397 | 2.36% |
| Be 313.107† | 2269.2 | 0.0043467 | mg/L | 0.00007871 | 0.0043467 | mg/L | 0.00007871 | 1.81% |
| Ca 315.887† | 2756959.8 | 20.2503 | mg/L | 0.50396 | 20.2503 | mg/L | 0.50396 | 2.49% |
| Cd 228.802† | 22.7 | 0.0040146 | mg/L | 0.00019692 | 0.0040146 | mg/L | 0.00019692 | 4.91% |
| Co 228.616† | 192.4 | 0.0067491 | mg/L | 0.00100365 | 0.0067491 | mg/L | 0.00100365 | 14.87% |
| Cr 267.716† | -530.3 | -0.0028180 | mg/L | 0.00092189 | -0.0028180 | mg/L | 0.00092189 | 32.71% |
| Cu 327.393† | -1915.0 | -0.0149452 | mg/L | 0.00569493 | -0.0149452 | mg/L | 0.00569493 | 38.11% |
| Fe 273.955† | -450.4 | -0.0067497 | mg/L | 0.00373050 | -0.0067497 | mg/L | 0.00373050 | 55.27% |
| K 404.721† | 1789.7 | 12.5878 | mg/L | 3.19683 | 12.5878 | mg/L | 3.19683 | 25.40% |
| Mg 279.077† | 178768.3 | 7.09604 | mg/L | 0.300174 | 7.09604 | mg/L | 0.300174 | 4.23% |
| Mn 257.610† | 529.0 | 0.0019488 | mg/L | 0.00007128 | 0.0019488 | mg/L | 0.00007128 | 3.66% |
| Mo 202.031† | 180.2 | 0.0157460 | mg/L | 0.00186212 | 0.0157460 | mg/L | 0.00186212 | 11.83% |
| Na 330.237† | 22486.2 | 16.7829 | mg/L | 0.16279 | 16.7829 | mg/L | 0.16279 | 0.97% |
| Ni 231.604† | 937.2 | 0.0292458 | mg/L | 0.00495753 | 0.0292458 | mg/L | 0.00495753 | 16.95% |
| Pb 220.353† | -135.6 | -0.0317719 | mg/L | 0.00928667 | -0.0317719 | mg/L | 0.00928667 | 29.23% |
| Sb 206.836† | -176.6 | -0.140887 | mg/L | 0.0205293 | -0.140887 | mg/L | 0.0205293 | 14.57% |
| Se 196.026† | -23.0 | -0.0211071 | mg/L | 0.00466409 | -0.0211071 | mg/L | 0.00466409 | 22.10% |
| Sn 189.927† | -48.0 | -0.0116939 | mg/L | 0.00169795 | -0.0116939 | mg/L | 0.00169795 | 14.52% |
| Ti 334.940† | 904.8 | 0.0044789 | mg/L | 0.00020908 | 0.0044789 | mg/L | 0.00020908 | 4.67% |
| Tl 190.801† | -13.9 | -0.0113361 | mg/L | 0.00211665 | -0.0113361 | mg/L | 0.00211665 | 18.67% |
| V 290.880† | 1211.0 | 0.0109959 | mg/L | 0.00169304 | 0.0109959 | mg/L | 0.00169304 | 15.40% |
| Zn 206.200† | 2201.9 | 0.0463836 | mg/L | 0.00169561 | 0.0463836 | mg/L | 0.00169561 | 3.66% |
| Si 251.611† | 116488.0 | 2.49609 | mg/L | 0.076555 | 2.49609 | mg/L | 0.076555 | 3.07% |
| B 249.772† | 274.6 | 0.0085439 | mg/L | 0.00230834 | 0.0085439 | mg/L | 0.00230834 | 27.02% |
| Ce 413.764 | 500.2 | -0.0101628 | mg/L | 0.00502916 | -0.0101628 | mg/L | 0.00502916 | 49.49% |

Sequence No.: 55
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 1:50:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 715743.8 | 88.3 | % | 0.93 | | | | 1.05% |
| Y 371.029 | 742066.7 | 87.3 | % | 1.06 | | | | 1.22% |
| Ag 328.068† | 17609.7 | 0.0996532 | mg/L | 0.00047318 | 0.0996532 | mg/L | 0.00047318 | 0.47% |
| QC value within limits for Ag 328.068 Recovery = 99.65% | | | | | | | | |
| Al 308.215† | 153103.5 | 4.96827 | mg/L | 0.040556 | 4.96827 | mg/L | 0.040556 | 0.82% |
| QC value within limits for Al 308.215 Recovery = 99.37% | | | | | | | | |
| As 188.979† | 725.6 | 0.536960 | mg/L | 0.0088149 | 0.536960 | mg/L | 0.0088149 | 1.64% |
| QC value within limits for As 188.979 Recovery = 107.39% | | | | | | | | |
| Ba 233.527† | 46850.5 | 0.486606 | mg/L | 0.0037413 | 0.486606 | mg/L | 0.0037413 | 0.77% |
| QC value within limits for Ba 233.527 Recovery = 97.32% | | | | | | | | |
| Be 313.107† | 1594337.2 | 0.488041 | mg/L | 0.0017875 | 0.488041 | mg/L | 0.0017875 | 0.37% |
| QC value within limits for Be 313.107 Recovery = 97.61% | | | | | | | | |
| Ca 315.887† | 6849773.8 | 49.9095 | mg/L | 0.23944 | 49.9095 | mg/L | 0.23944 | 0.48% |
| QC value within limits for Ca 315.887 Recovery = 99.82% | | | | | | | | |
| Cd 228.802† | 25046.1 | 0.517049 | mg/L | 0.0041529 | 0.517049 | mg/L | 0.0041529 | 0.80% |
| QC value within limits for Cd 228.802 Recovery = 103.41% | | | | | | | | |
| Co 228.616† | 15909.3 | 0.500025 | mg/L | 0.0040459 | 0.500025 | mg/L | 0.0040459 | 0.81% |
| QC value within limits for Co 228.616 Recovery = 100.01% | | | | | | | | |
| Cr 267.716† | 58131.4 | 0.494962 | mg/L | 0.0031924 | 0.494962 | mg/L | 0.0031924 | 0.64% |
| QC value within limits for Cr 267.716 Recovery = 98.99% | | | | | | | | |
| Cu 327.393† | 56896.3 | 0.487585 | mg/L | 0.0021719 | 0.487585 | mg/L | 0.0021719 | 0.45% |
| QC value within limits for Cu 327.393 Recovery = 97.52% | | | | | | | | |
| Fe 273.955† | 147160.6 | 4.90525 | mg/L | 0.038346 | 4.90525 | mg/L | 0.038346 | 0.78% |
| QC value within limits for Fe 273.955 Recovery = 98.10% | | | | | | | | |
| K 404.721† | 7424.3 | 53.7779 | mg/L | 0.51101 | 53.7779 | mg/L | 0.51101 | 0.95% |
| QC value within limits for K 404.721 Recovery = 107.56% | | | | | | | | |
| Mg 279.077† | 1286764.3 | 51.0658 | mg/L | 0.44459 | 51.0658 | mg/L | 0.44459 | 0.87% |
| QC value within limits for Mg 279.077 Recovery = 102.13% | | | | | | | | |
| Mn 257.610† | 408043.1 | 0.491112 | mg/L | 0.0040644 | 0.491112 | mg/L | 0.0040644 | 0.83% |
| QC value within limits for Mn 257.610 Recovery = 98.22% | | | | | | | | |
| Mo 202.031† | 6321.6 | 0.488368 | mg/L | 0.0037655 | 0.488368 | mg/L | 0.0037655 | 0.77% |
| QC value within limits for Mo 202.031 Recovery = 97.67% | | | | | | | | |
| Na 330.237† | 69357.7 | 49.5717 | mg/L | 0.49141 | 49.5717 | mg/L | 0.49141 | 0.99% |
| QC value within limits for Na 330.237 Recovery = 99.14% | | | | | | | | |
| Ni 231.604† | 16957.0 | 0.514106 | mg/L | 0.0050662 | 0.514106 | mg/L | 0.0050662 | 0.99% |
| QC value within limits for Ni 231.604 Recovery = 102.82% | | | | | | | | |
| Pb 220.353† | 2121.9 | 0.536861 | mg/L | 0.0045270 | 0.536861 | mg/L | 0.0045270 | 0.84% |
| QC value within limits for Pb 220.353 Recovery = 107.37% | | | | | | | | |
| Sb 206.836† | 515.6 | 0.434130 | mg/L | 0.0076856 | 0.434130 | mg/L | 0.0076856 | 1.77% |
| QC value less than the lower limit for Sb 206.836 Recovery = 86.83% | | | | | | | | |
| Se 196.026† | 499.5 | 0.486989 | mg/L | 0.0040618 | 0.486989 | mg/L | 0.0040618 | 0.83% |
| QC value within limits for Se 196.026 Recovery = 97.40% | | | | | | | | |
| Sn 189.927† | 2137.4 | 0.519622 | mg/L | 0.0065946 | 0.519622 | mg/L | 0.0065946 | 1.27% |
| QC value within limits for Sn 189.927 Recovery = 103.92% | | | | | | | | |
| Ti 334.940† | 418661.9 | 0.482652 | mg/L | 0.0031850 | 0.482652 | mg/L | 0.0031850 | 0.66% |
| QC value within limits for Ti 334.940 Recovery = 96.53% | | | | | | | | |
| Tl 190.801† | 455.0 | 0.526993 | mg/L | 0.0081905 | 0.526993 | mg/L | 0.0081905 | 1.55% |
| QC value within limits for Tl 190.801 Recovery = 105.40% | | | | | | | | |
| V 290.880† | 79810.7 | 0.490688 | mg/L | 0.0049647 | 0.490688 | mg/L | 0.0049647 | 1.01% |
| QC value within limits for V 290.880 Recovery = 98.14% | | | | | | | | |
| Zn 206.200† | 25677.4 | 0.508850 | mg/L | 0.0067236 | 0.508850 | mg/L | 0.0067236 | 1.32% |
| QC value within limits for Zn 206.200 Recovery = 101.77% | | | | | | | | |
| Si 251.611† | 221839.5 | 4.84011 | mg/L | 0.041847 | 4.84011 | mg/L | 0.041847 | 0.86% |
| QC value within limits for Si 251.611 Recovery = 96.80% | | | | | | | | |
| B 249.772† | 54814.3 | 0.528810 | mg/L | 0.0104499 | 0.528810 | mg/L | 0.0104499 | 1.98% |
| QC value within limits for B 249.772 Recovery = 105.76% | | | | | | | | |
| Ce 413.764 | 24662.4 | 0.460836 | mg/L | 0.0024810 | 0.460836 | mg/L | 0.0024810 | 0.54% |
| QC value within limits for Ce 413.764 Recovery = 92.17% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 56
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 1:54:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 790742.8 | 97.6 | % | 0.23 | | | | 0.24% |
| Y 371.029 | 840727.6 | 98.9 | % | 0.23 | | | | 0.24% |
| Ag 328.068† | 8.6 | 0.0004740 | mg/L | 0.00043948 | 0.0004740 | mg/L | 0.00043948 | 92.72% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -237.8 | 0.0024797 | mg/L | 0.00035209 | 0.0024797 | mg/L | 0.00035209 | 14.20% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 13.2 | 0.0130799 | mg/L | 0.00385697 | 0.0130799 | mg/L | 0.00385697 | 29.49% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -136.5 | 0.0001536 | mg/L | 0.00001735 | 0.0001536 | mg/L | 0.00001735 | 11.29% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1460.5 | 0.0041010 | mg/L | 0.00002412 | 0.0041010 | mg/L | 0.00002412 | 0.59% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 436.2 | 0.274725 | mg/L | 0.0015996 | 0.274725 | mg/L | 0.0015996 | 0.58% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 38.3 | 0.0041140 | mg/L | 0.00030306 | 0.0041140 | mg/L | 0.00030306 | 7.37% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 104.0 | 0.0038418 | mg/L | 0.00060264 | 0.0038418 | mg/L | 0.00060264 | 15.69% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -2.6 | 0.0016600 | mg/L | 0.00065982 | 0.0016600 | mg/L | 0.00065982 | 39.75% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 318.1 | 0.0039826 | mg/L | 0.00068090 | 0.0039826 | mg/L | 0.00068090 | 17.10% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -324.4 | -0.0025590 | mg/L | 0.00188430 | -0.0025590 | mg/L | 0.00188430 | 73.63% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 280.8 | 1.55737 | mg/L | 0.979717 | 1.55737 | mg/L | 0.979717 | 62.91% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -85.4 | -0.0015955 | mg/L | 0.00178381 | -0.0015955 | mg/L | 0.00178381 | 111.80% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -16.2 | 0.0012943 | mg/L | 0.00003505 | 0.0012943 | mg/L | 0.00003505 | 2.71% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 27.9 | 0.0040304 | mg/L | 0.00017185 | 0.0040304 | mg/L | 0.00017185 | 4.26% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 54.7 | 1.09097 | mg/L | 0.099898 | 1.09097 | mg/L | 0.099898 | 9.16% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 192.4 | 0.0067013 | mg/L | 0.00085461 | 0.0067013 | mg/L | 0.00085461 | 12.75% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 30.4 | 0.0094739 | mg/L | 0.00150376 | 0.0094739 | mg/L | 0.00150376 | 15.87% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -20.2 | -0.0122848 | mg/L | 0.00380670 | -0.0122848 | mg/L | 0.00380670 | 30.99% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -1.5 | -0.0001771 | mg/L | 0.00216673 | -0.0001771 | mg/L | 0.00216673 | >999.9% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.8 | -0.0007054 | mg/L | 0.00119507 | -0.0007054 | mg/L | 0.00119507 | 169.42% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 156.4 | 0.0036224 | mg/L | 0.00018966 | 0.0036224 | mg/L | 0.00018966 | 5.24% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -7.0 | -0.0049182 | mg/L | 0.00187807 | -0.0049182 | mg/L | 0.00187807 | 38.19% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 138.3 | 0.0044490 | mg/L | 0.00027139 | 0.0044490 | mg/L | 0.00027139 | 6.10% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -11.0 | 0.0027901 | mg/L | 0.00016519 | 0.0027901 | mg/L | 0.00016519 | 5.92% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 376.6 | -0.0848961 | mg/L | 0.00082213 | -0.0848961 | mg/L | 0.00082213 | 0.97% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 3897.2 | 0.0443400 | mg/L | 0.00161236 | 0.0443400 | mg/L | 0.00161236 | 3.64% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -112.4 | -0.0221042 | mg/L | 0.00068777 | -0.0221042 | mg/L | 0.00068777 | 3.11% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 57
Sample ID: MB 94429 (1)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 64
Date Collected: 9/29/2021 1:58:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 94429 (1)

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 783116.3 | 96.7 | % | 0.36 | | | | 0.37% |
| Y 371.029 | 835361.5 | 98.3 | % | 0.28 | | | | 0.28% |
| Ag 328.068† | 13.0 | 0.0004989 | mg/L | 0.00015205 | 0.0004989 | mg/L | 0.00015205 | 30.48% |
| Al 308.215† | -366.5 | -0.0016871 | mg/L | 0.00142624 | -0.0016871 | mg/L | 0.00142624 | 84.54% |
| As 188.979† | 11.7 | 0.0119736 | mg/L | 0.00076742 | 0.0119736 | mg/L | 0.00076742 | 6.41% |
| Ba 233.527† | -81.0 | 0.0007290 | mg/L | 0.00007943 | 0.0007290 | mg/L | 0.00007943 | 10.90% |
| Be 313.107† | 1345.9 | 0.0040662 | mg/L | 0.00001795 | 0.0040662 | mg/L | 0.00001795 | 0.44% |
| Ca 315.887† | 3735.3 | 0.298632 | mg/L | 0.0061687 | 0.298632 | mg/L | 0.0061687 | 2.07% |
| Cd 228.802† | 40.0 | 0.0041364 | mg/L | 0.00007709 | 0.0041364 | mg/L | 0.00007709 | 1.86% |
| Co 228.616† | 105.4 | 0.0038858 | mg/L | 0.00028029 | 0.0038858 | mg/L | 0.00028029 | 7.21% |
| Cr 267.716† | 83.9 | 0.0023942 | mg/L | 0.00028131 | 0.0023942 | mg/L | 0.00028131 | 11.75% |
| Cu 327.393† | 783.7 | 0.0079631 | mg/L | 0.00038408 | 0.0079631 | mg/L | 0.00038408 | 4.82% |
| Fe 273.955† | 148.2 | 0.0131678 | mg/L | 0.00078893 | 0.0131678 | mg/L | 0.00078893 | 5.99% |
| K 404.721† | 327.1 | 1.89586 | mg/L | 1.040790 | 1.89586 | mg/L | 1.040790 | 54.90% |
| Mg 279.077† | 74.7 | 0.0047569 | mg/L | 0.00304462 | 0.0047569 | mg/L | 0.00304462 | 64.00% |
| Mn 257.610† | 404.9 | 0.0017998 | mg/L | 0.00003385 | 0.0017998 | mg/L | 0.00003385 | 1.88% |
| Mo 202.031† | 16.1 | 0.0031229 | mg/L | 0.00048358 | 0.0031229 | mg/L | 0.00048358 | 15.48% |
| Na 330.237† | 264.9 | 1.23801 | mg/L | 0.063695 | 1.23801 | mg/L | 0.063695 | 5.14% |
| Ni 231.604† | 137.0 | 0.0050261 | mg/L | 0.00018276 | 0.0050261 | mg/L | 0.00018276 | 3.64% |
| Pb 220.353† | 45.2 | 0.0131863 | mg/L | 0.00125377 | 0.0131863 | mg/L | 0.00125377 | 9.51% |
| Sb 206.836† | -2.0 | 0.0027029 | mg/L | 0.00071403 | 0.0027029 | mg/L | 0.00071403 | 26.42% |
| Se 196.026† | -1.2 | 0.0001826 | mg/L | 0.00228741 | 0.0001826 | mg/L | 0.00228741 | >999.9% |
| Sn 189.927† | 2.4 | 0.0005751 | mg/L | 0.00139367 | 0.0005751 | mg/L | 0.00139367 | 242.31% |
| Ti 334.940† | 278.7 | 0.0037623 | mg/L | 0.00003306 | 0.0037623 | mg/L | 0.00003306 | 0.88% |
| Tl 190.801† | -8.0 | -0.0059602 | mg/L | 0.00305652 | -0.0059602 | mg/L | 0.00305652 | 51.28% |
| V 290.880† | -11.8 | 0.0035334 | mg/L | 0.00032968 | 0.0035334 | mg/L | 0.00032968 | 9.33% |
| Zn 206.200† | 151.4 | 0.0059899 | mg/L | 0.00003799 | 0.0059899 | mg/L | 0.00003799 | 0.63% |
| Si 251.611† | 856.5 | -0.0742221 | mg/L | 0.00111676 | -0.0742221 | mg/L | 0.00111676 | 1.50% |
| B 249.772† | 2619.9 | 0.0316525 | mg/L | 0.00226495 | 0.0316525 | mg/L | 0.00226495 | 7.16% |
| Ce 413.764 | -157.9 | -0.0229921 | mg/L | 0.00107383 | -0.0229921 | mg/L | 0.00107383 | 4.67% |

Sequence No.: 58
Sample ID: LCS 94429
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 65
Date Collected: 9/29/2021 2:02:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS 94429

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 730314.8 | 90.1 | % | 0.43 | | | | 0.48% |
| Y 371.029 | 760186.4 | 89.4 | % | 0.44 | | | | 0.49% |
| Ag 328.068† | 17439.2 | 0.0987297 | mg/L | 0.00088572 | 0.0987297 | mg/L | 0.00088572 | 0.90% |
| Al 308.215† | 154130.2 | 5.00152 | mg/L | 0.026923 | 5.00152 | mg/L | 0.026923 | 0.54% |
| As 188.979† | 690.5 | 0.511150 | mg/L | 0.0035102 | 0.511150 | mg/L | 0.0035102 | 0.69% |
| Ba 233.527† | 47163.0 | 0.489841 | mg/L | 0.0024963 | 0.489841 | mg/L | 0.0024963 | 0.51% |
| Be 313.107† | 1595268.7 | 0.488324 | mg/L | 0.0019387 | 0.488324 | mg/L | 0.0019387 | 0.40% |
| Ca 315.887† | 6787890.6 | 49.4611 | mg/L | 0.20012 | 49.4611 | mg/L | 0.20012 | 0.40% |
| Cd 228.802† | 24833.1 | 0.512634 | mg/L | 0.0025495 | 0.512634 | mg/L | 0.0025495 | 0.50% |
| Co 228.616† | 15797.1 | 0.496485 | mg/L | 0.0021089 | 0.496485 | mg/L | 0.0021089 | 0.42% |
| Cr 267.716† | 58736.8 | 0.500099 | mg/L | 0.0019408 | 0.500099 | mg/L | 0.0019408 | 0.39% |
| Cu 327.393† | 58664.7 | 0.502718 | mg/L | 0.0013741 | 0.502718 | mg/L | 0.0013741 | 0.27% |
| Fe 273.955† | 146859.3 | 4.89522 | mg/L | 0.025652 | 4.89522 | mg/L | 0.025652 | 0.52% |
| K 404.721† | 6789.1 | 49.1348 | mg/L | 0.47989 | 49.1348 | mg/L | 0.47989 | 0.98% |
| Mg 279.077† | 1236746.9 | 49.0809 | mg/L | 0.27813 | 49.0809 | mg/L | 0.27813 | 0.57% |
| Mn 257.610† | 408942.7 | 0.492192 | mg/L | 0.0023036 | 0.492192 | mg/L | 0.0023036 | 0.47% |
| Mo 202.031† | 6319.2 | 0.488187 | mg/L | 0.0024727 | 0.488187 | mg/L | 0.0024727 | 0.51% |
| Na 330.237† | 69075.6 | 49.3744 | mg/L | 0.18828 | 49.3744 | mg/L | 0.18828 | 0.38% |
| Ni 231.604† | 16634.8 | 0.504354 | mg/L | 0.0026290 | 0.504354 | mg/L | 0.0026290 | 0.52% |
| Pb 220.353† | 2111.6 | 0.534220 | mg/L | 0.0022949 | 0.534220 | mg/L | 0.0022949 | 0.43% |
| Sb 206.836† | 570.6 | 0.479401 | mg/L | 0.0043272 | 0.479401 | mg/L | 0.0043272 | 0.90% |
| Se 196.026† | 484.9 | 0.472759 | mg/L | 0.0118343 | 0.472759 | mg/L | 0.0118343 | 2.50% |
| Sn 189.927† | 2024.0 | 0.492053 | mg/L | 0.0020991 | 0.492053 | mg/L | 0.0020991 | 0.43% |
| Ti 334.940† | 428176.7 | 0.493543 | mg/L | 0.0020409 | 0.493543 | mg/L | 0.0020409 | 0.41% |
| Tl 190.801† | 442.3 | 0.512607 | mg/L | 0.0006780 | 0.512607 | mg/L | 0.0006780 | 0.13% |
| V 290.880† | 80652.0 | 0.495823 | mg/L | 0.0024007 | 0.495823 | mg/L | 0.0024007 | 0.48% |
| Zn 206.200† | 24661.1 | 0.488830 | mg/L | 0.0019751 | 0.488830 | mg/L | 0.0019751 | 0.40% |
| Si 251.611† | 25141.5 | 0.467798 | mg/L | 0.0052801 | 0.467798 | mg/L | 0.0052801 | 1.13% |
| B 249.772† | 48500.9 | 0.466436 | mg/L | 0.0001002 | 0.466436 | mg/L | 0.0001002 | 0.02% |
| Ce 413.764 | 26813.0 | 0.502758 | mg/L | 0.0029211 | 0.502758 | mg/L | 0.0029211 | 0.58% |

Sequence No.: 59
Sample ID: LCS MR 94429
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 66
Date Collected: 9/29/2021 2:06:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS MR 94429

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 739806.4 | 91.3 | % | 1.36 | | | | 1.49% |
| Y 371.029 | 762190.8 | 89.7 | % | 1.42 | | | | 1.59% |
| Ag 328.068† | 17143.8 | 0.0970720 | mg/L | 0.00250829 | 0.0970720 | mg/L | 0.00250829 | 2.58% |
| Al 308.215† | 151499.3 | 4.91632 | mg/L | 0.112403 | 4.91632 | mg/L | 0.112403 | 2.29% |
| As 188.979† | 669.0 | 0.495360 | mg/L | 0.0112855 | 0.495360 | mg/L | 0.0112855 | 2.28% |
| Ba 233.527† | 46516.1 | 0.483144 | mg/L | 0.0102867 | 0.483144 | mg/L | 0.0102867 | 2.13% |
| Be 313.107† | 1565015.8 | 0.479133 | mg/L | 0.0112204 | 0.479133 | mg/L | 0.0112204 | 2.34% |
| Ca 315.887† | 6658057.0 | 48.5202 | mg/L | 1.09513 | 48.5202 | mg/L | 1.09513 | 2.26% |
| Cd 228.802† | 24371.0 | 0.503148 | mg/L | 0.0099272 | 0.503148 | mg/L | 0.0099272 | 1.97% |
| Co 228.616† | 15505.1 | 0.487321 | mg/L | 0.0101320 | 0.487321 | mg/L | 0.0101320 | 2.08% |
| Cr 267.716† | 57952.5 | 0.493444 | mg/L | 0.0107644 | 0.493444 | mg/L | 0.0107644 | 2.18% |
| Cu 327.393† | 57887.1 | 0.496072 | mg/L | 0.0094765 | 0.496072 | mg/L | 0.0094765 | 1.91% |
| Fe 273.955† | 144808.6 | 4.82698 | mg/L | 0.104164 | 4.82698 | mg/L | 0.104164 | 2.16% |
| K 404.721† | 6567.0 | 47.5112 | mg/L | 1.61540 | 47.5112 | mg/L | 1.61540 | 3.40% |
| Mg 279.077† | 1211311.3 | 48.0715 | mg/L | 1.18519 | 48.0715 | mg/L | 1.18519 | 2.47% |
| Mn 257.610† | 402913.9 | 0.484955 | mg/L | 0.0108547 | 0.484955 | mg/L | 0.0108547 | 2.24% |
| Mo 202.031† | 6199.4 | 0.478964 | mg/L | 0.0090709 | 0.478964 | mg/L | 0.0090709 | 1.89% |
| Na 330.237† | 67794.6 | 48.4782 | mg/L | 1.04966 | 48.4782 | mg/L | 1.04966 | 2.17% |
| Ni 231.604† | 16280.4 | 0.493627 | mg/L | 0.0100484 | 0.493627 | mg/L | 0.0100484 | 2.04% |
| Pb 220.353† | 2075.6 | 0.525147 | mg/L | 0.0081095 | 0.525147 | mg/L | 0.0081095 | 1.54% |
| Sb 206.836† | 557.9 | 0.468868 | mg/L | 0.0053683 | 0.468868 | mg/L | 0.0053683 | 1.14% |
| Se 196.026† | 468.4 | 0.456786 | mg/L | 0.0096658 | 0.456786 | mg/L | 0.0096658 | 2.12% |
| Sn 189.927† | 1987.6 | 0.483199 | mg/L | 0.0093570 | 0.483199 | mg/L | 0.0093570 | 1.94% |
| Ti 334.940† | 421835.2 | 0.486284 | mg/L | 0.0104253 | 0.486284 | mg/L | 0.0104253 | 2.14% |
| Tl 190.801† | 439.3 | 0.509106 | mg/L | 0.0099526 | 0.509106 | mg/L | 0.0099526 | 1.95% |
| V 290.880† | 79438.1 | 0.488414 | mg/L | 0.0112465 | 0.488414 | mg/L | 0.0112465 | 2.30% |
| Zn 206.200† | 24239.2 | 0.480519 | mg/L | 0.0094553 | 0.480519 | mg/L | 0.0094553 | 1.97% |
| Si 251.611† | 24854.6 | 0.461390 | mg/L | 0.0126919 | 0.461390 | mg/L | 0.0126919 | 2.75% |
| B 249.772† | 47572.4 | 0.457520 | mg/L | 0.0093535 | 0.457520 | mg/L | 0.0093535 | 2.04% |
| Ce 413.764 | 26828.4 | 0.503057 | mg/L | 0.0054549 | 0.503057 | mg/L | 0.0054549 | 1.08% |

Sequence No.: 60
Sample ID: AD26083-041
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 67
Date Collected: 9/29/2021 2:10:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 665706.7 | 82.2 | % | 1.32 | | | | 1.61% |
| Y 371.029 | 685674.5 | 80.7 | % | 1.37 | | | | 1.70% |
| Ag 328.068† | -115.3 | 0.0003955 | mg/L | 0.00015497 | 0.0003955 | mg/L | 0.00015497 | 39.18% |
| Al 308.215† | 1895.5 | 0.0715635 | mg/L | 0.00675892 | 0.0715635 | mg/L | 0.00675892 | 9.44% |
| As 188.979† | 23.8 | 0.0208558 | mg/L | 0.00167055 | 0.0208558 | mg/L | 0.00167055 | 8.01% |
| Ba 233.527† | 188704.5 | 1.95521 | mg/L | 0.019048 | 1.95521 | mg/L | 0.019048 | 0.97% |
| Be 313.107† | 2382.5 | 0.0043812 | mg/L | 0.00006586 | 0.0043812 | mg/L | 0.00006586 | 1.50% |
| Ca 315.887† | 11412419.7 | 82.9735 | mg/L | 0.34694 | 82.9735 | mg/L | 0.34694 | 0.42% |
| Cd 228.802† | -84.5 | 0.0041306 | mg/L | 0.00009920 | 0.0041306 | mg/L | 0.00009920 | 2.40% |
| Co 228.616† | 200.1 | 0.0124006 | mg/L | 0.00077207 | 0.0124006 | mg/L | 0.00077207 | 6.23% |
| Cr 267.716† | 222.4 | 0.0035695 | mg/L | 0.00014360 | 0.0035695 | mg/L | 0.00014360 | 4.02% |
| Cu 327.393† | -1017.4 | -0.0078496 | mg/L | 0.00015375 | -0.0078496 | mg/L | 0.00015375 | 1.96% |
| Fe 273.955† | 281286.5 | 9.36851 | mg/L | 0.085457 | 9.36851 | mg/L | 0.085457 | 0.91% |
| K 404.721† | 13515.3 | 98.3049 | mg/L | 1.42259 | 98.3049 | mg/L | 1.42259 | 1.45% |
| Mg 279.077† | 3074994.8 | 122.030 | mg/L | 0.7974 | 122.030 | mg/L | 0.7974 | 0.65% |
| Mn 257.610† | 388027.0 | 0.467085 | mg/L | 0.0045360 | 0.467085 | mg/L | 0.0045360 | 0.97% |
| Mo 202.031† | 114.0 | 0.0106582 | mg/L | 0.00076397 | 0.0106582 | mg/L | 0.00076397 | 7.17% |
| Na 330.237† | 1883187.2 | 1318.43 | mg/L | 3.752 | 1318.43 | mg/L | 3.752 | 0.28% |
| Ni 231.604† | 910.4 | 0.0284340 | mg/L | 0.00072230 | 0.0284340 | mg/L | 0.00072230 | 2.54% |
| Pb 220.353† | -3.2 | 0.0052984 | mg/L | 0.00183802 | 0.0052984 | mg/L | 0.00183802 | 34.69% |
| Sb 206.836† | -67.3 | -0.0509307 | mg/L | 0.00109315 | -0.0509307 | mg/L | 0.00109315 | 2.15% |
| Se 196.026† | -29.5 | -0.0269718 | mg/L | 0.00446247 | -0.0269718 | mg/L | 0.00446247 | 16.54% |
| Sn 189.927† | -21.0 | -0.0051154 | mg/L | 0.00137442 | -0.0051154 | mg/L | 0.00137442 | 26.87% |
| Ti 334.940† | 2957.6 | 0.0068286 | mg/L | 0.00009412 | 0.0068286 | mg/L | 0.00009412 | 1.38% |
| Tl 190.801† | -21.5 | -0.0157390 | mg/L | 0.00436246 | -0.0157390 | mg/L | 0.00436246 | 27.72% |
| V 290.880† | 732.3 | 0.0080747 | mg/L | 0.00106918 | 0.0080747 | mg/L | 0.00106918 | 13.24% |
| Zn 206.200† | 195.3 | 0.0068539 | mg/L | 0.00042467 | 0.0068539 | mg/L | 0.00042467 | 6.20% |
| Si 251.611† | 345163.5 | 7.58343 | mg/L | 0.066024 | 7.58343 | mg/L | 0.066024 | 0.87% |
| B 249.772† | 159624.2 | 1.54776 | mg/L | 0.008584 | 1.54776 | mg/L | 0.008584 | 0.55% |
| Ce 413.764 | -213.6 | -0.0240784 | mg/L | 0.00095868 | -0.0240784 | mg/L | 0.00095868 | 3.98% |

Sequence No.: 61
Sample ID: AD26083-041 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 68
Date Collected: 9/29/2021 2:15:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 MR

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 669364.3 | 82.6 | % | 0.85 | | | | 1.03% |
| Y 371.029 | 695525.6 | 81.8 | % | 0.77 | | | | 0.94% |
| Ag 328.068† | -124.6 | 0.0003085 | mg/L | 0.00033558 | 0.0003085 | mg/L | 0.00033558 | 108.77% |
| Al 308.215† | 1785.5 | 0.0680026 | mg/L | 0.00456208 | 0.0680026 | mg/L | 0.00456208 | 6.71% |
| As 188.979† | 23.9 | 0.0209171 | mg/L | 0.00591108 | 0.0209171 | mg/L | 0.00591108 | 28.26% |
| Ba 233.527† | 177704.8 | 1.84133 | mg/L | 0.015403 | 1.84133 | mg/L | 0.015403 | 0.84% |
| Be 313.107† | 2275.0 | 0.0043485 | mg/L | 0.00001630 | 0.0043485 | mg/L | 0.00001630 | 0.37% |
| Ca 315.887† | 10913101.6 | 79.3551 | mg/L | 1.42611 | 79.3551 | mg/L | 1.42611 | 1.80% |
| Cd 228.802† | -79.6 | 0.0040892 | mg/L | 0.00028578 | 0.0040892 | mg/L | 0.00028578 | 6.99% |
| Co 228.616† | 200.5 | 0.0120888 | mg/L | 0.00057773 | 0.0120888 | mg/L | 0.00057773 | 4.78% |
| Cr 267.716† | 190.7 | 0.0033003 | mg/L | 0.00020335 | 0.0033003 | mg/L | 0.00020335 | 6.16% |
| Cu 327.393† | -1030.9 | -0.0079526 | mg/L | 0.00107559 | -0.0079526 | mg/L | 0.00107559 | 13.52% |
| Fe 273.955† | 265247.9 | 8.83480 | mg/L | 0.074582 | 8.83480 | mg/L | 0.074582 | 0.84% |
| K 404.721† | 12850.1 | 93.4417 | mg/L | 0.61190 | 93.4417 | mg/L | 0.61190 | 0.65% |
| Mg 279.077† | 2952748.7 | 117.179 | mg/L | 2.2495 | 117.179 | mg/L | 2.2495 | 1.92% |
| Mn 257.610† | 365483.4 | 0.440025 | mg/L | 0.0037033 | 0.440025 | mg/L | 0.0037033 | 0.84% |
| Mo 202.031† | 117.9 | 0.0109507 | mg/L | 0.00091297 | 0.0109507 | mg/L | 0.00091297 | 8.34% |
| Na 330.237† | 1804732.7 | 1263.55 | mg/L | 18.008 | 1263.55 | mg/L | 18.008 | 1.43% |
| Ni 231.604† | 878.3 | 0.0274632 | mg/L | 0.00177633 | 0.0274632 | mg/L | 0.00177633 | 6.47% |
| Pb 220.353† | -7.9 | 0.0039535 | mg/L | 0.00037443 | 0.0039535 | mg/L | 0.00037443 | 9.47% |
| Sb 206.836† | -72.7 | -0.0553833 | mg/L | 0.00913172 | -0.0553833 | mg/L | 0.00913172 | 16.49% |
| Se 196.026† | -26.8 | -0.0243678 | mg/L | 0.00920431 | -0.0243678 | mg/L | 0.00920431 | 37.77% |
| Sn 189.927† | -17.3 | -0.0042147 | mg/L | 0.00069917 | -0.0042147 | mg/L | 0.00069917 | 16.59% |
| Ti 334.940† | 3349.5 | 0.0072773 | mg/L | 0.00003075 | 0.0072773 | mg/L | 0.00003075 | 0.42% |
| Tl 190.801† | -21.0 | -0.0153933 | mg/L | 0.00342383 | -0.0153933 | mg/L | 0.00342383 | 22.24% |
| V 290.880† | 567.6 | 0.0070690 | mg/L | 0.00039194 | 0.0070690 | mg/L | 0.00039194 | 5.54% |
| Zn 206.200† | 181.6 | 0.0065843 | mg/L | 0.00011453 | 0.0065843 | mg/L | 0.00011453 | 1.74% |
| Si 251.611† | 325357.1 | 7.14292 | mg/L | 0.063325 | 7.14292 | mg/L | 0.063325 | 0.89% |
| B 249.772† | 150754.2 | 1.46212 | mg/L | 0.021860 | 1.46212 | mg/L | 0.021860 | 1.50% |
| Ce 413.764 | -191.3 | -0.0236423 | mg/L | 0.00053820 | -0.0236423 | mg/L | 0.00053820 | 2.28% |

Sequence No.: 62
Sample ID: AD26083-043 MS 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 69
Date Collected: 9/29/2021 2:19:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-043 MS 1

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 683257.1 | 84.3 | % | 0.29 | | | | 0.34% |
| Y 371.029 | 702721.1 | 82.7 | % | 0.32 | | | | 0.38% |
| Ag 328.068† | 17623.6 | 0.100235 | mg/L | 0.0004045 | 0.100235 | mg/L | 0.0004045 | 0.40% |
| Al 308.215† | 147368.3 | 4.78254 | mg/L | 0.011493 | 4.78254 | mg/L | 0.011493 | 0.24% |
| As 188.979† | 710.4 | 0.525828 | mg/L | 0.0079924 | 0.525828 | mg/L | 0.0079924 | 1.52% |
| Ba 233.527† | 209807.5 | 2.17368 | mg/L | 0.005482 | 2.17368 | mg/L | 0.005482 | 0.25% |
| Be 313.107† | 1591434.6 | 0.487159 | mg/L | 0.0007422 | 0.487159 | mg/L | 0.0007422 | 0.15% |
| Ca 315.887† | 16391376.6 | 119.054 | mg/L | 1.5488 | 119.054 | mg/L | 1.5488 | 1.30% |
| Cd 228.802† | 25115.5 | 0.520326 | mg/L | 0.0074235 | 0.520326 | mg/L | 0.0074235 | 1.43% |
| Co 228.616† | 15683.6 | 0.497704 | mg/L | 0.0068627 | 0.497704 | mg/L | 0.0068627 | 1.38% |
| Cr 267.716† | 57371.2 | 0.488511 | mg/L | 0.0003099 | 0.488511 | mg/L | 0.0003099 | 0.06% |
| Cu 327.393† | 58302.5 | 0.499235 | mg/L | 0.0006539 | 0.499235 | mg/L | 0.0006539 | 0.13% |
| Fe 273.955† | 386434.3 | 12.8675 | mg/L | 0.02920 | 12.8675 | mg/L | 0.02920 | 0.23% |
| K 404.721† | 19448.1 | 141.675 | mg/L | 0.5643 | 141.675 | mg/L | 0.5643 | 0.40% |
| Mg 279.077† | 3902062.4 | 154.851 | mg/L | 0.5502 | 154.851 | mg/L | 0.5502 | 0.36% |
| Mn 257.610† | 732136.5 | 0.880140 | mg/L | 0.0023188 | 0.880140 | mg/L | 0.0023188 | 0.26% |
| Mo 202.031† | 6287.8 | 0.485755 | mg/L | 0.0065280 | 0.485755 | mg/L | 0.0065280 | 1.34% |
| Na 330.237† | 1738454.4 | 1217.18 | mg/L | 4.578 | 1217.18 | mg/L | 4.578 | 0.38% |
| Ni 231.604† | 16689.2 | 0.506001 | mg/L | 0.0075713 | 0.506001 | mg/L | 0.0075713 | 1.50% |
| Pb 220.353† | 2044.2 | 0.520896 | mg/L | 0.0100209 | 0.520896 | mg/L | 0.0100209 | 1.92% |
| Sb 206.836† | 528.8 | 0.444887 | mg/L | 0.0078314 | 0.444887 | mg/L | 0.0078314 | 1.76% |
| Se 196.026† | 488.0 | 0.476299 | mg/L | 0.0123051 | 0.476299 | mg/L | 0.0123051 | 2.58% |
| Sn 189.927† | 2048.1 | 0.497925 | mg/L | 0.0071429 | 0.497925 | mg/L | 0.0071429 | 1.43% |
| Ti 334.940† | 428761.4 | 0.494212 | mg/L | 0.0010129 | 0.494212 | mg/L | 0.0010129 | 0.20% |
| Tl 190.801† | 418.4 | 0.489896 | mg/L | 0.0093241 | 0.489896 | mg/L | 0.0093241 | 1.90% |
| V 290.880† | 80868.4 | 0.497143 | mg/L | 0.0007148 | 0.497143 | mg/L | 0.0007148 | 0.14% |
| Zn 206.200† | 25227.8 | 0.499994 | mg/L | 0.0079578 | 0.499994 | mg/L | 0.0079578 | 1.59% |
| Si 251.611† | 330253.3 | 7.25357 | mg/L | 0.010732 | 7.25357 | mg/L | 0.010732 | 0.15% |
| B 249.772† | 188612.3 | 1.82086 | mg/L | 0.006939 | 1.82086 | mg/L | 0.006939 | 0.38% |
| Ce 413.764 | 23322.3 | 0.434712 | mg/L | 0.0022880 | 0.434712 | mg/L | 0.0022880 | 0.53% |

Sequence No.: 63
Sample ID: AD26083-045 MS 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 70
Date Collected: 9/29/2021 2:23:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-045 MS 2

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 662062.7 | 81.7 | % | 1.17 | | | | 1.44% |
| Y 371.029 | 681079.1 | 80.1 | % | 1.13 | | | | 1.41% |
| Ag 328.068† | 17745.5 | 0.100920 | mg/L | 0.0028729 | 0.100920 | mg/L | 0.0028729 | 2.85% |
| Al 308.215† | 149197.2 | 4.84177 | mg/L | 0.141101 | 4.84177 | mg/L | 0.141101 | 2.91% |
| As 188.979† | 715.6 | 0.529660 | mg/L | 0.0196434 | 0.529660 | mg/L | 0.0196434 | 3.71% |
| Ba 233.527† | 212315.9 | 2.19965 | mg/L | 0.060654 | 2.19965 | mg/L | 0.060654 | 2.76% |
| Be 313.107† | 1610536.8 | 0.492963 | mg/L | 0.0169135 | 0.492963 | mg/L | 0.0169135 | 3.43% |
| Ca 315.887† | 16712586.8 | 121.382 | mg/L | 2.2410 | 121.382 | mg/L | 2.2410 | 1.85% |
| Cd 228.802† | 25370.0 | 0.525566 | mg/L | 0.0157775 | 0.525566 | mg/L | 0.0157775 | 3.00% |
| Co 228.616† | 15817.6 | 0.501965 | mg/L | 0.0156492 | 0.501965 | mg/L | 0.0156492 | 3.12% |
| Cr 267.716† | 57844.4 | 0.492527 | mg/L | 0.0141302 | 0.492527 | mg/L | 0.0141302 | 2.87% |
| Cu 327.393† | 58838.9 | 0.503839 | mg/L | 0.0165972 | 0.503839 | mg/L | 0.0165972 | 3.29% |
| Fe 273.955† | 390559.0 | 13.0047 | mg/L | 0.36390 | 13.0047 | mg/L | 0.36390 | 2.80% |
| K 404.721† | 19673.5 | 143.323 | mg/L | 2.7838 | 143.323 | mg/L | 2.7838 | 1.94% |
| Mg 279.077† | 3919245.7 | 155.533 | mg/L | 3.6603 | 155.533 | mg/L | 3.6603 | 2.35% |
| Mn 257.610† | 740618.6 | 0.890322 | mg/L | 0.0264994 | 0.890322 | mg/L | 0.0264994 | 2.98% |
| Mo 202.031† | 6364.9 | 0.491690 | mg/L | 0.0159136 | 0.491690 | mg/L | 0.0159136 | 3.24% |
| Na 330.237† | 1762133.4 | 1233.75 | mg/L | 24.328 | 1233.75 | mg/L | 24.328 | 1.97% |
| Ni 231.604† | 16850.0 | 0.510867 | mg/L | 0.0156639 | 0.510867 | mg/L | 0.0156639 | 3.07% |
| Pb 220.353† | 2062.3 | 0.525488 | mg/L | 0.0140865 | 0.525488 | mg/L | 0.0140865 | 2.68% |
| Sb 206.836† | 526.2 | 0.442853 | mg/L | 0.0130321 | 0.442853 | mg/L | 0.0130321 | 2.94% |
| Se 196.026† | 477.3 | 0.465851 | mg/L | 0.0120256 | 0.465851 | mg/L | 0.0120256 | 2.58% |
| Sn 189.927† | 2061.9 | 0.501276 | mg/L | 0.0133782 | 0.501276 | mg/L | 0.0133782 | 2.67% |
| Ti 334.940† | 434565.5 | 0.500855 | mg/L | 0.0157940 | 0.500855 | mg/L | 0.0157940 | 3.15% |
| Tl 190.801† | 415.9 | 0.487168 | mg/L | 0.0113344 | 0.487168 | mg/L | 0.0113344 | 2.33% |
| V 290.880† | 81813.5 | 0.502911 | mg/L | 0.0156616 | 0.502911 | mg/L | 0.0156616 | 3.11% |
| Zn 206.200† | 25178.9 | 0.499031 | mg/L | 0.0141607 | 0.499031 | mg/L | 0.0141607 | 2.84% |
| Si 251.611† | 334325.2 | 7.34415 | mg/L | 0.215165 | 7.34415 | mg/L | 0.215165 | 2.93% |
| B 249.772† | 191212.1 | 1.84604 | mg/L | 0.067780 | 1.84604 | mg/L | 0.067780 | 3.67% |
| Ce 413.764 | 22906.1 | 0.426599 | mg/L | 0.0080409 | 0.426599 | mg/L | 0.0080409 | 1.88% |

Sequence No.: 64
Sample ID: AD26083-041 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 71
Date Collected: 9/29/2021 2:28:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 PS

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 669890.1 | 82.7 | % | 1.58 | | | | 1.92% |
| Y 371.029 | 688039.7 | 80.9 | % | 1.63 | | | | 2.02% |
| Ag 328.068† | 10057.7 | 0.0579692 | mg/L | 0.00083115 | 0.0579692 | mg/L | 0.00083115 | 1.43% |
| Al 308.215† | 158663.4 | 5.14832 | mg/L | 0.074018 | 5.14832 | mg/L | 0.074018 | 1.44% |
| As 188.979† | 761.2 | 0.563200 | mg/L | 0.0101268 | 0.563200 | mg/L | 0.0101268 | 1.80% |
| Ba 233.527† | 232899.8 | 2.41276 | mg/L | 0.035648 | 2.41276 | mg/L | 0.035648 | 1.48% |
| Be 313.107† | 1716323.9 | 0.525102 | mg/L | 0.0075624 | 0.525102 | mg/L | 0.0075624 | 1.44% |
| Ca 315.887† | 17961027.8 | 130.429 | mg/L | 2.5469 | 130.429 | mg/L | 2.5469 | 1.95% |
| Cd 228.802† | 27139.0 | 0.562024 | mg/L | 0.0069562 | 0.562024 | mg/L | 0.0069562 | 1.24% |
| Co 228.616† | 16910.4 | 0.536788 | mg/L | 0.0070500 | 0.536788 | mg/L | 0.0070500 | 1.31% |
| Cr 267.716† | 61577.3 | 0.524202 | mg/L | 0.0077665 | 0.524202 | mg/L | 0.0077665 | 1.48% |
| Cu 327.393† | 62475.7 | 0.534868 | mg/L | 0.0061303 | 0.534868 | mg/L | 0.0061303 | 1.15% |
| Fe 273.955† | 425073.9 | 14.1533 | mg/L | 0.22313 | 14.1533 | mg/L | 0.22313 | 1.58% |
| K 404.721† | 21390.1 | 155.872 | mg/L | 2.0426 | 155.872 | mg/L | 2.0426 | 1.31% |
| Mg 279.077† | 4280401.6 | 169.865 | mg/L | 3.1024 | 169.865 | mg/L | 3.1024 | 1.83% |
| Mn 257.610† | 802828.4 | 0.964996 | mg/L | 0.0142791 | 0.964996 | mg/L | 0.0142791 | 1.48% |
| Mo 202.031† | 6773.7 | 0.523143 | mg/L | 0.0073652 | 0.523143 | mg/L | 0.0073652 | 1.41% |
| Na 330.237† | 1938059.7 | 1356.82 | mg/L | 20.642 | 1356.82 | mg/L | 20.642 | 1.52% |
| Ni 231.604† | 17957.5 | 0.544388 | mg/L | 0.0081364 | 0.544388 | mg/L | 0.0081364 | 1.49% |
| Pb 220.353† | 2191.8 | 0.558519 | mg/L | 0.0063635 | 0.558519 | mg/L | 0.0063635 | 1.14% |
| Sb 206.836† | 570.7 | 0.479827 | mg/L | 0.0016218 | 0.479827 | mg/L | 0.0016218 | 0.34% |
| Se 196.026† | 514.5 | 0.502103 | mg/L | 0.0066182 | 0.502103 | mg/L | 0.0066182 | 1.32% |
| Sn 189.927† | 2196.9 | 0.534090 | mg/L | 0.0081696 | 0.534090 | mg/L | 0.0081696 | 1.53% |
| Ti 334.940† | 461646.8 | 0.531853 | mg/L | 0.0067858 | 0.531853 | mg/L | 0.0067858 | 1.28% |
| Tl 190.801† | 444.2 | 0.520074 | mg/L | 0.0032331 | 0.520074 | mg/L | 0.0032331 | 0.62% |
| V 290.880† | 87298.6 | 0.536387 | mg/L | 0.0081627 | 0.536387 | mg/L | 0.0081627 | 1.52% |
| Zn 206.200† | 26950.4 | 0.533929 | mg/L | 0.0063423 | 0.533929 | mg/L | 0.0063423 | 1.19% |
| Si 251.611† | 386676.3 | 8.50835 | mg/L | 0.172613 | 8.50835 | mg/L | 0.172613 | 2.03% |
| B 249.772† | 206307.1 | 1.99084 | mg/L | 0.040737 | 1.99084 | mg/L | 0.040737 | 2.05% |
| Ce 413.764 | 22478.5 | 0.418265 | mg/L | 0.0099402 | 0.418265 | mg/L | 0.0099402 | 2.38% |

Sequence No.: 65
Sample ID: AD26083-041 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 72
Date Collected: 9/29/2021 2:32:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 SD

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 729608.6 | 90.1 | % | 0.61 | | | | 0.68% |
| Y 371.029 | 758153.9 | 89.2 | % | 0.55 | | | | 0.62% |
| Ag 328.068† | -10.3 | 0.0004891 | mg/L | 0.00013968 | 0.0004891 | mg/L | 0.00013968 | 28.56% |
| Al 308.215† | 627.7 | 0.0305069 | mg/L | 0.00168636 | 0.0305069 | mg/L | 0.00168636 | 5.53% |
| As 188.979† | 19.0 | 0.0173544 | mg/L | 0.00144669 | 0.0173544 | mg/L | 0.00144669 | 8.34% |
| Ba 233.527† | 36888.2 | 0.383467 | mg/L | 0.0018897 | 0.383467 | mg/L | 0.0018897 | 0.49% |
| Be 313.107† | 1973.1 | 0.0042568 | mg/L | 0.00003239 | 0.0042568 | mg/L | 0.00003239 | 0.76% |
| Ca 315.887† | 2310987.5 | 17.0185 | mg/L | 0.10319 | 17.0185 | mg/L | 0.10319 | 0.61% |
| Cd 228.802† | 18.3 | 0.0042069 | mg/L | 0.00026171 | 0.0042069 | mg/L | 0.00026171 | 6.22% |
| Co 228.616† | 125.3 | 0.0055955 | mg/L | 0.00049633 | 0.0055955 | mg/L | 0.00049633 | 8.87% |
| Cr 267.716† | 40.6 | 0.0020267 | mg/L | 0.00032726 | 0.0020267 | mg/L | 0.00032726 | 16.15% |
| Cu 327.393† | -154.4 | -0.0001467 | mg/L | 0.00067959 | -0.0001467 | mg/L | 0.00067959 | 463.31% |
| Fe 273.955† | 55518.0 | 1.85569 | mg/L | 0.008289 | 1.85569 | mg/L | 0.008289 | 0.45% |
| K 404.721† | 2354.9 | 16.7194 | mg/L | 0.51034 | 16.7194 | mg/L | 0.51034 | 3.05% |
| Mg 279.077† | 635740.3 | 25.2305 | mg/L | 0.14726 | 25.2305 | mg/L | 0.14726 | 0.58% |
| Mn 257.610† | 76462.4 | 0.0930961 | mg/L | 0.00042266 | 0.0930961 | mg/L | 0.00042266 | 0.45% |
| Mo 202.031† | 53.9 | 0.0060335 | mg/L | 0.00027730 | 0.0060335 | mg/L | 0.00027730 | 4.60% |
| Na 330.237† | 342110.1 | 240.375 | mg/L | 1.4305 | 240.375 | mg/L | 1.4305 | 0.60% |
| Ni 231.604† | 340.0 | 0.0111690 | mg/L | 0.00090954 | 0.0111690 | mg/L | 0.00090954 | 8.14% |
| Pb 220.353† | 21.4 | 0.0081061 | mg/L | 0.00070054 | 0.0081061 | mg/L | 0.00070054 | 8.64% |
| Sb 206.836† | -33.7 | -0.0233369 | mg/L | 0.00496907 | -0.0233369 | mg/L | 0.00496907 | 21.29% |
| Se 196.026† | -13.8 | -0.0120083 | mg/L | 0.00836780 | -0.0120083 | mg/L | 0.00836780 | 69.68% |
| Sn 189.927† | -11.5 | -0.0028262 | mg/L | 0.00176774 | -0.0028262 | mg/L | 0.00176774 | 62.55% |
| Ti 334.940† | 706.3 | 0.0042518 | mg/L | 0.00007470 | 0.0042518 | mg/L | 0.00007470 | 1.76% |
| Tl 190.801† | -13.5 | -0.0111749 | mg/L | 0.00251137 | -0.0111749 | mg/L | 0.00251137 | 22.47% |
| V 290.880† | 205.2 | 0.0048576 | mg/L | 0.00043554 | 0.0048576 | mg/L | 0.00043554 | 8.97% |
| Zn 206.200† | 81.9 | 0.0046192 | mg/L | 0.00024940 | 0.0046192 | mg/L | 0.00024940 | 5.40% |
| Si 251.611† | 67328.5 | 1.40418 | mg/L | 0.003763 | 1.40418 | mg/L | 0.003763 | 0.27% |
| B 249.772† | 33375.5 | 0.328605 | mg/L | 0.0023068 | 0.328605 | mg/L | 0.0023068 | 0.70% |
| Ce 413.764 | -178.7 | -0.0233967 | mg/L | 0.00103454 | -0.0233967 | mg/L | 0.00103454 | 4.42% |

Sequence No.: 66
Sample ID: AD26083-004
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 73
Date Collected: 9/29/2021 2:36:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-004

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 762236.1 | 94.1 | % | 0.43 | | | | 0.46% |
| Y 371.029 | 799926.9 | 94.1 | % | 0.49 | | | | 0.52% |
| Ag 328.068† | -51.5 | 0.0001391 | mg/L | 0.00063222 | 0.0001391 | mg/L | 0.00063222 | 454.66% |
| Al 308.215† | 240.4 | 0.0179658 | mg/L | 0.00247570 | 0.0179658 | mg/L | 0.00247570 | 13.78% |
| As 188.979† | 11.4 | 0.0117284 | mg/L | 0.00225121 | 0.0117284 | mg/L | 0.00225121 | 19.19% |
| Ba 233.527† | 21179.7 | 0.220839 | mg/L | 0.0014899 | 0.220839 | mg/L | 0.0014899 | 0.67% |
| Be 313.107† | 1417.5 | 0.0040880 | mg/L | 0.00002330 | 0.0040880 | mg/L | 0.00002330 | 0.57% |
| Ca 315.887† | 7001247.0 | 51.0072 | mg/L | 0.28973 | 51.0072 | mg/L | 0.28973 | 0.57% |
| Cd 228.802† | 34.7 | 0.0040643 | mg/L | 0.00013009 | 0.0040643 | mg/L | 0.00013009 | 3.20% |
| Co 228.616† | 94.5 | 0.0041672 | mg/L | 0.00059153 | 0.0041672 | mg/L | 0.00059153 | 14.19% |
| Cr 267.716† | 14.5 | 0.0018054 | mg/L | 0.00027016 | 0.0018054 | mg/L | 0.00027016 | 14.96% |
| Cu 327.393† | 157.6 | 0.0029836 | mg/L | 0.00076979 | 0.0029836 | mg/L | 0.00076979 | 25.80% |
| Fe 273.955† | 1385.6 | 0.0543465 | mg/L | 0.00084518 | 0.0543465 | mg/L | 0.00084518 | 1.56% |
| K 404.721† | -228.0 | -2.16239 | mg/L | 0.642860 | -2.16239 | mg/L | 0.642860 | 29.73% |
| Mg 279.077† | 523288.3 | 20.7680 | mg/L | 0.13397 | 20.7680 | mg/L | 0.13397 | 0.65% |
| Mn 257.610† | 69138.2 | 0.0843043 | mg/L | 0.00052069 | 0.0843043 | mg/L | 0.00052069 | 0.62% |
| Mo 202.031† | 67.5 | 0.0070784 | mg/L | 0.00052209 | 0.0070784 | mg/L | 0.00052209 | 7.38% |
| Na 330.237† | 16506.1 | 12.5995 | mg/L | 0.08863 | 12.5995 | mg/L | 0.08863 | 0.70% |
| Ni 231.604† | 226.8 | 0.0077447 | mg/L | 0.00047220 | 0.0077447 | mg/L | 0.00047220 | 6.10% |
| Pb 220.353† | 42.6 | 0.0132498 | mg/L | 0.00078021 | 0.0132498 | mg/L | 0.00078021 | 5.89% |
| Sb 206.836† | -11.1 | -0.0047660 | mg/L | 0.00414743 | -0.0047660 | mg/L | 0.00414743 | 87.02% |
| Se 196.026† | -17.0 | -0.0152565 | mg/L | 0.00781568 | -0.0152565 | mg/L | 0.00781568 | 51.23% |
| Sn 189.927† | -17.8 | -0.0043569 | mg/L | 0.00149391 | -0.0043569 | mg/L | 0.00149391 | 34.29% |
| Ti 334.940† | 457.0 | 0.0039664 | mg/L | 0.00008755 | 0.0039664 | mg/L | 0.00008755 | 2.21% |
| Tl 190.801† | -16.2 | -0.0119010 | mg/L | 0.00105286 | -0.0119010 | mg/L | 0.00105286 | 8.85% |
| V 290.880† | -59.1 | 0.0032443 | mg/L | 0.00032708 | 0.0032443 | mg/L | 0.00032708 | 10.08% |
| Zn 206.200† | 897.9 | 0.0206959 | mg/L | 0.00014216 | 0.0206959 | mg/L | 0.00014216 | 0.69% |
| Si 251.611† | 399578.4 | 8.78880 | mg/L | 0.063335 | 8.78880 | mg/L | 0.063335 | 0.72% |
| B 249.772† | 3025.3 | 0.0355019 | mg/L | 0.00262326 | 0.0355019 | mg/L | 0.00262326 | 7.39% |
| Ce 413.764 | -236.7 | -0.0245272 | mg/L | 0.00039513 | -0.0245272 | mg/L | 0.00039513 | 1.61% |

Sequence No.: 67
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 2:40:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 734825.5 | 90.7 | % | 1.43 | | | | 1.57% |
| Y 371.029 | 781356.9 | 91.9 | % | 0.72 | | | | 0.78% |
| Ag 328.068† | 16833.5 | 0.0952907 | mg/L | 0.00031520 | 0.0952907 | mg/L | 0.00031520 | 0.33% |
| QC value within limits for Ag 328.068 Recovery = 95.29% | | | | | | | | |
| Al 308.215† | 145900.1 | 4.73500 | mg/L | 0.010925 | 4.73500 | mg/L | 0.010925 | 0.23% |
| QC value within limits for Al 308.215 Recovery = 94.70% | | | | | | | | |
| As 188.979† | 658.6 | 0.487674 | mg/L | 0.0016497 | 0.487674 | mg/L | 0.0016497 | 0.34% |
| QC value within limits for As 188.979 Recovery = 97.53% | | | | | | | | |
| Ba 233.527† | 45538.7 | 0.473025 | mg/L | 0.0044008 | 0.473025 | mg/L | 0.0044008 | 0.93% |
| QC value within limits for Ba 233.527 Recovery = 94.61% | | | | | | | | |
| Be 313.107† | 1537898.5 | 0.470894 | mg/L | 0.0066031 | 0.470894 | mg/L | 0.0066031 | 1.40% |
| QC value within limits for Be 313.107 Recovery = 94.18% | | | | | | | | |
| Ca 315.887† | 6533412.5 | 47.6170 | mg/L | 0.66162 | 47.6170 | mg/L | 0.66162 | 1.39% |
| QC value within limits for Ca 315.887 Recovery = 95.23% | | | | | | | | |
| Cd 228.802† | 23898.0 | 0.493352 | mg/L | 0.0044193 | 0.493352 | mg/L | 0.0044193 | 0.90% |
| QC value within limits for Cd 228.802 Recovery = 98.67% | | | | | | | | |
| Co 228.616† | 15085.1 | 0.474154 | mg/L | 0.0049909 | 0.474154 | mg/L | 0.0049909 | 1.05% |
| QC value within limits for Co 228.616 Recovery = 94.83% | | | | | | | | |
| Cr 267.716† | 55605.1 | 0.473525 | mg/L | 0.0014066 | 0.473525 | mg/L | 0.0014066 | 0.30% |
| QC value within limits for Cr 267.716 Recovery = 94.71% | | | | | | | | |
| Cu 327.393† | 55677.3 | 0.477181 | mg/L | 0.0013040 | 0.477181 | mg/L | 0.0013040 | 0.27% |
| QC value within limits for Cu 327.393 Recovery = 95.44% | | | | | | | | |
| Fe 273.955† | 139494.4 | 4.65014 | mg/L | 0.012506 | 4.65014 | mg/L | 0.012506 | 0.27% |
| QC value within limits for Fe 273.955 Recovery = 93.00% | | | | | | | | |
| K 404.721† | 6280.6 | 45.4169 | mg/L | 0.67878 | 45.4169 | mg/L | 0.67878 | 1.49% |
| QC value within limits for K 404.721 Recovery = 90.83% | | | | | | | | |
| Mg 279.077† | 1194398.3 | 47.4003 | mg/L | 0.67274 | 47.4003 | mg/L | 0.67274 | 1.42% |
| QC value within limits for Mg 279.077 Recovery = 94.80% | | | | | | | | |
| Mn 257.610† | 389023.2 | 0.468281 | mg/L | 0.0008597 | 0.468281 | mg/L | 0.0008597 | 0.18% |
| QC value within limits for Mn 257.610 Recovery = 93.66% | | | | | | | | |
| Mo 202.031† | 6021.3 | 0.465259 | mg/L | 0.0043802 | 0.465259 | mg/L | 0.0043802 | 0.94% |
| QC value within limits for Mo 202.031 Recovery = 93.05% | | | | | | | | |
| Na 330.237† | 64759.0 | 46.3547 | mg/L | 0.09384 | 46.3547 | mg/L | 0.09384 | 0.20% |
| QC value within limits for Na 330.237 Recovery = 92.71% | | | | | | | | |
| Ni 231.604† | 15709.1 | 0.476338 | mg/L | 0.0045884 | 0.476338 | mg/L | 0.0045884 | 0.96% |
| QC value within limits for Ni 231.604 Recovery = 95.27% | | | | | | | | |
| Pb 220.353† | 2027.2 | 0.512928 | mg/L | 0.0065006 | 0.512928 | mg/L | 0.0065006 | 1.27% |
| QC value within limits for Pb 220.353 Recovery = 102.59% | | | | | | | | |
| Sb 206.836† | 552.2 | 0.464041 | mg/L | 0.0050098 | 0.464041 | mg/L | 0.0050098 | 1.08% |
| QC value within limits for Sb 206.836 Recovery = 92.81% | | | | | | | | |
| Se 196.026† | 473.6 | 0.461784 | mg/L | 0.0093911 | 0.461784 | mg/L | 0.0093911 | 2.03% |
| QC value within limits for Se 196.026 Recovery = 92.36% | | | | | | | | |
| Sn 189.927† | 1982.6 | 0.481995 | mg/L | 0.0060808 | 0.481995 | mg/L | 0.0060808 | 1.26% |
| QC value within limits for Sn 189.927 Recovery = 96.40% | | | | | | | | |
| Ti 334.940† | 407114.1 | 0.469434 | mg/L | 0.0004151 | 0.469434 | mg/L | 0.0004151 | 0.09% |
| QC value within limits for Ti 334.940 Recovery = 93.89% | | | | | | | | |
| Tl 190.801† | 422.5 | 0.489724 | mg/L | 0.0030305 | 0.489724 | mg/L | 0.0030305 | 0.62% |
| QC value within limits for Tl 190.801 Recovery = 97.94% | | | | | | | | |
| V 290.880† | 76503.0 | 0.470501 | mg/L | 0.0013010 | 0.470501 | mg/L | 0.0013010 | 0.28% |
| QC value within limits for V 290.880 Recovery = 94.10% | | | | | | | | |
| Zn 206.200† | 23525.0 | 0.466449 | mg/L | 0.0046497 | 0.466449 | mg/L | 0.0046497 | 1.00% |
| QC value within limits for Zn 206.200 Recovery = 93.29% | | | | | | | | |
| Si 251.611† | 211313.2 | 4.60601 | mg/L | 0.007934 | 4.60601 | mg/L | 0.007934 | 0.17% |
| QC value within limits for Si 251.611 Recovery = 92.12% | | | | | | | | |
| B 249.772† | 44866.4 | 0.431449 | mg/L | 0.0054258 | 0.431449 | mg/L | 0.0054258 | 1.26% |
| QC value less than the lower limit for B 249.772 Recovery = 86.29% | | | | | | | | |
| Ce 413.764 | 24521.3 | 0.458085 | mg/L | 0.0088530 | 0.458085 | mg/L | 0.0088530 | 1.93% |
| QC value within limits for Ce 413.764 Recovery = 91.62% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 68
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 2:44:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 809680.9 | 99.9 | % | 0.97 | | | | 0.97% |
| Y 371.029 | 863806.4 | 102 | % | 1.1 | | | | 1.06% |
| Ag 328.068† | -49.5 | 0.0001465 | mg/L | 0.00019888 | 0.0001465 | mg/L | 0.00019888 | 135.72% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -353.1 | -0.0012548 | mg/L | 0.00115576 | -0.0012548 | mg/L | 0.00115576 | 92.11% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 12.4 | 0.0124880 | mg/L | 0.00307587 | 0.0124880 | mg/L | 0.00307587 | 24.63% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -66.4 | 0.0008794 | mg/L | 0.00010136 | 0.0008794 | mg/L | 0.00010136 | 11.53% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1654.0 | 0.0041598 | mg/L | 0.00002010 | 0.0041598 | mg/L | 0.00002010 | 0.48% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 857.5 | 0.277777 | mg/L | 0.0017230 | 0.277777 | mg/L | 0.0017230 | 0.62% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 47.3 | 0.0042716 | mg/L | 0.00031535 | 0.0042716 | mg/L | 0.00031535 | 7.38% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 107.7 | 0.0039602 | mg/L | 0.00049211 | 0.0039602 | mg/L | 0.00049211 | 12.43% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 57.0 | 0.0021659 | mg/L | 0.00020993 | 0.0021659 | mg/L | 0.00020993 | 9.69% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 579.9 | 0.0062203 | mg/L | 0.00018223 | 0.0062203 | mg/L | 0.00018223 | 2.93% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -238.2 | 0.0003101 | mg/L | 0.00132333 | 0.0003101 | mg/L | 0.00132333 | 426.73% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 18.8 | -0.357877 | mg/L | 0.8303294 | -0.357877 | mg/L | 0.8303294 | 232.02% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 145.0 | 0.0075463 | mg/L | 0.00163917 | 0.0075463 | mg/L | 0.00163917 | 21.72% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -46.1 | 0.0012584 | mg/L | 0.00006847 | 0.0012584 | mg/L | 0.00006847 | 5.44% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 25.3 | 0.0038298 | mg/L | 0.00048914 | 0.0038298 | mg/L | 0.00048914 | 12.77% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 168.3 | 1.17047 | mg/L | 0.111286 | 1.17047 | mg/L | 0.111286 | 9.51% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 107.4 | 0.0041287 | mg/L | 0.00023823 | 0.0041287 | mg/L | 0.00023823 | 5.77% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 45.6 | 0.0132913 | mg/L | 0.00278981 | 0.0132913 | mg/L | 0.00278981 | 20.99% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -1.7 | 0.0029539 | mg/L | 0.00343975 | 0.0029539 | mg/L | 0.00343975 | 116.45% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -11.2 | -0.0096229 | mg/L | 0.00437106 | -0.0096229 | mg/L | 0.00437106 | 45.42% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -0.0 | -0.0000197 | mg/L | 0.00106358 | -0.0000197 | mg/L | 0.00106358 | >999.9% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 90.3 | 0.0035467 | mg/L | 0.00003227 | 0.0035467 | mg/L | 0.00003227 | 0.91% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -6.9 | -0.0047974 | mg/L | 0.00172160 | -0.0047974 | mg/L | 0.00172160 | 35.89% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 175.5 | 0.0046761 | mg/L | 0.00048005 | 0.0046761 | mg/L | 0.00048005 | 10.27% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -15.2 | 0.0027065 | mg/L | 0.00003635 | 0.0027065 | mg/L | 0.00003635 | 1.34% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 473.8 | -0.0827344 | mg/L | 0.00058151 | -0.0827344 | mg/L | 0.00058151 | 0.70% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 263.8 | 0.0084105 | mg/L | 0.00163038 | 0.0084105 | mg/L | 0.00163038 | 19.39% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -262.5 | -0.0250307 | mg/L | 0.00115347 | -0.0250307 | mg/L | 0.00115347 | 4.61% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 69
Sample ID: AD26083-007
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 74
Date Collected: 9/29/2021 2:48:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-007

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 772369.8 | 95.3 | % | 1.17 | | | | 1.23% |
| Y 371.029 | 810937.0 | 95.4 | % | 1.19 | | | | 1.25% |
| Ag 328.068† | -69.0 | 0.0000428 | mg/L | 0.00050044 | 0.0000428 | mg/L | 0.00050044 | >999.9% |
| Al 308.215† | 532.1 | 0.0274126 | mg/L | 0.00469641 | 0.0274126 | mg/L | 0.00469641 | 17.13% |
| As 188.979† | 15.0 | 0.0143760 | mg/L | 0.00150361 | 0.0143760 | mg/L | 0.00150361 | 10.46% |
| Ba 233.527† | 24337.4 | 0.253530 | mg/L | 0.0021163 | 0.253530 | mg/L | 0.0021163 | 0.83% |
| Be 313.107† | 1472.6 | 0.0041047 | mg/L | 0.00003710 | 0.0041047 | mg/L | 0.00003710 | 0.90% |
| Ca 315.887† | 6376810.8 | 46.4821 | mg/L | 0.42304 | 46.4821 | mg/L | 0.42304 | 0.91% |
| Cd 228.802† | 44.1 | 0.0042492 | mg/L | 0.00035140 | 0.0042492 | mg/L | 0.00035140 | 8.27% |
| Co 228.616† | 110.8 | 0.0047732 | mg/L | 0.00046503 | 0.0047732 | mg/L | 0.00046503 | 9.74% |
| Cr 267.716† | 42.2 | 0.0020402 | mg/L | 0.00026104 | 0.0020402 | mg/L | 0.00026104 | 12.79% |
| Cu 327.393† | 155.0 | 0.0029412 | mg/L | 0.00019257 | 0.0029412 | mg/L | 0.00019257 | 6.55% |
| Fe 273.955† | 1826.4 | 0.0690138 | mg/L | 0.00140545 | 0.0690138 | mg/L | 0.00140545 | 2.04% |
| K 404.721† | -184.8 | -1.84616 | mg/L | 0.957898 | -1.84616 | mg/L | 0.957898 | 51.89% |
| Mg 279.077† | 448403.2 | 17.7962 | mg/L | 0.10225 | 17.7962 | mg/L | 0.10225 | 0.57% |
| Mn 257.610† | 293856.5 | 0.354047 | mg/L | 0.0022525 | 0.354047 | mg/L | 0.0022525 | 0.64% |
| Mo 202.031† | 72.6 | 0.0074661 | mg/L | 0.00060597 | 0.0074661 | mg/L | 0.00060597 | 8.12% |
| Na 330.237† | 12259.8 | 9.62900 | mg/L | 0.074003 | 9.62900 | mg/L | 0.074003 | 0.77% |
| Ni 231.604† | 190.5 | 0.0066462 | mg/L | 0.00070686 | 0.0066462 | mg/L | 0.00070686 | 10.64% |
| Pb 220.353† | 39.3 | 0.0123425 | mg/L | 0.00412665 | 0.0123425 | mg/L | 0.00412665 | 33.43% |
| Sb 206.836† | -15.0 | -0.0079180 | mg/L | 0.00473452 | -0.0079180 | mg/L | 0.00473452 | 59.79% |
| Se 196.026† | -19.8 | -0.0179896 | mg/L | 0.01096185 | -0.0179896 | mg/L | 0.01096185 | 60.93% |
| Sn 189.927† | -17.9 | -0.0043766 | mg/L | 0.00150814 | -0.0043766 | mg/L | 0.00150814 | 34.46% |
| Ti 334.940† | 518.0 | 0.0040362 | mg/L | 0.00013702 | 0.0040362 | mg/L | 0.00013702 | 3.39% |
| Tl 190.801† | -18.0 | -0.0142138 | mg/L | 0.00261868 | -0.0142138 | mg/L | 0.00261868 | 18.42% |
| V 290.880† | -122.5 | 0.0028575 | mg/L | 0.00022863 | 0.0028575 | mg/L | 0.00022863 | 8.00% |
| Zn 206.200† | 692.1 | 0.0166409 | mg/L | 0.00041085 | 0.0166409 | mg/L | 0.00041085 | 2.47% |
| Si 251.611† | 336274.9 | 7.38166 | mg/L | 0.053052 | 7.38166 | mg/L | 0.053052 | 0.72% |
| B 249.772† | 810.6 | 0.0135517 | mg/L | 0.00066700 | 0.0135517 | mg/L | 0.00066700 | 4.92% |
| Ce 413.764 | -221.4 | -0.0242297 | mg/L | 0.00101574 | -0.0242297 | mg/L | 0.00101574 | 4.19% |

Sequence No.: 70
Sample ID: AD26083-013
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 75
Date Collected: 9/29/2021 2:52:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-013

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 799556.3 | 98.7 | % | 0.44 | | | | 0.44% |
| Y 371.029 | 842338.0 | 99.1 | % | 0.42 | | | | 0.42% |
| Ag 328.068† | -361.1 | -0.0006386 | mg/L | 0.00009103 | -0.0006386 | mg/L | 0.00009103 | 14.25% |
| Al 308.215† | 96.5 | 0.0133060 | mg/L | 0.00156758 | 0.0133060 | mg/L | 0.00156758 | 11.78% |
| As 188.979† | 10.7 | 0.0112456 | mg/L | 0.00304609 | 0.0112456 | mg/L | 0.00304609 | 27.09% |
| Ba 233.527† | 7933.8 | 0.0837053 | mg/L | 0.00131738 | 0.0837053 | mg/L | 0.00131738 | 1.57% |
| Be 313.107† | 1359.7 | 0.0040704 | mg/L | 0.00002999 | 0.0040704 | mg/L | 0.00002999 | 0.74% |
| Ca 315.887† | 968646.8 | 7.29102 | mg/L | 0.011820 | 7.29102 | mg/L | 0.011820 | 0.16% |
| Cd 228.802† | -83.4 | 0.0051983 | mg/L | 0.00025606 | 0.0051983 | mg/L | 0.00025606 | 4.93% |
| Co 228.616† | 116.6 | 0.0044734 | mg/L | 0.00042962 | 0.0044734 | mg/L | 0.00042962 | 9.60% |
| Cr 267.716† | -25.9 | 0.0014622 | mg/L | 0.00020901 | 0.0014622 | mg/L | 0.00020901 | 14.29% |
| Cu 327.393† | 382.1 | 0.0045602 | mg/L | 0.00076686 | 0.0045602 | mg/L | 0.00076686 | 16.82% |
| Fe 273.955† | 437124.7 | 14.5543 | mg/L | 0.01646 | 14.5543 | mg/L | 0.01646 | 0.11% |
| K 404.721† | 363.3 | 2.16048 | mg/L | 0.370630 | 2.16048 | mg/L | 0.370630 | 17.15% |
| Mg 279.077† | 118079.9 | 4.68768 | mg/L | 0.003159 | 4.68768 | mg/L | 0.003159 | 0.07% |
| Mn 257.610† | 476509.5 | 0.573296 | mg/L | 0.0004505 | 0.573296 | mg/L | 0.0004505 | 0.08% |
| Mo 202.031† | 43.8 | 0.0052542 | mg/L | 0.00031447 | 0.0052542 | mg/L | 0.00031447 | 5.99% |
| Na 330.237† | 8960.4 | 7.32092 | mg/L | 0.089395 | 7.32092 | mg/L | 0.089395 | 1.22% |
| Ni 231.604† | 141.8 | 0.0051702 | mg/L | 0.00048785 | 0.0051702 | mg/L | 0.00048785 | 9.44% |
| Pb 220.353† | 45.2 | 0.0133626 | mg/L | 0.00018559 | 0.0133626 | mg/L | 0.00018559 | 1.39% |
| Sb 206.836† | -11.3 | -0.0049513 | mg/L | 0.00317861 | -0.0049513 | mg/L | 0.00317861 | 64.20% |
| Se 196.026† | -13.7 | -0.0112752 | mg/L | 0.00627857 | -0.0112752 | mg/L | 0.00627857 | 55.68% |
| Sn 189.927† | 1.9 | 0.0004489 | mg/L | 0.00049848 | 0.0004489 | mg/L | 0.00049848 | 111.04% |
| Ti 334.940† | 338.5 | 0.0038307 | mg/L | 0.00008455 | 0.0038307 | mg/L | 0.00008455 | 2.21% |
| Tl 190.801† | -11.4 | -0.0093854 | mg/L | 0.00512164 | -0.0093854 | mg/L | 0.00512164 | 54.57% |
| V 290.880† | 279.9 | 0.0053137 | mg/L | 0.00033791 | 0.0053137 | mg/L | 0.00033791 | 6.36% |
| Zn 206.200† | 920.1 | 0.0211328 | mg/L | 0.00047910 | 0.0211328 | mg/L | 0.00047910 | 2.27% |
| Si 251.611† | 168172.9 | 3.65153 | mg/L | 0.005952 | 3.65153 | mg/L | 0.005952 | 0.16% |
| B 249.772† | 7668.8 | 0.0256209 | mg/L | 0.00027773 | 0.0256209 | mg/L | 0.00027773 | 1.08% |
| Ce 413.764 | -204.7 | -0.0239033 | mg/L | 0.00022282 | -0.0239033 | mg/L | 0.00022282 | 0.93% |

Sequence No.: 71
Sample ID: AD26083-015
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 76
Date Collected: 9/29/2021 2:56:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-015

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 765340.6 | 94.5 | % | 0.64 | | | | 0.68% |
| Y 371.029 | 797743.4 | 93.9 | % | 0.57 | | | | 0.61% |
| Ag 328.068† | -37.3 | 0.0002277 | mg/L | 0.00047929 | 0.0002277 | mg/L | 0.00047929 | 210.51% |
| Al 308.215† | 693.0 | 0.0326222 | mg/L | 0.00224376 | 0.0326222 | mg/L | 0.00224376 | 6.88% |
| As 188.979† | 29.0 | 0.0246778 | mg/L | 0.00171643 | 0.0246778 | mg/L | 0.00171643 | 6.96% |
| Ba 233.527† | 9204.4 | 0.0968591 | mg/L | 0.00077931 | 0.0968591 | mg/L | 0.00077931 | 0.80% |
| Be 313.107† | 1656.3 | 0.0041605 | mg/L | 0.00002356 | 0.0041605 | mg/L | 0.00002356 | 0.57% |
| Ca 315.887† | 2258219.6 | 16.6361 | mg/L | 0.04203 | 16.6361 | mg/L | 0.04203 | 0.25% |
| Cd 228.802† | 45.1 | 0.0042916 | mg/L | 0.00024493 | 0.0042916 | mg/L | 0.00024493 | 5.71% |
| Co 228.616† | 118.6 | 0.0045713 | mg/L | 0.00031597 | 0.0045713 | mg/L | 0.00031597 | 6.91% |
| Cr 267.716† | 41.8 | 0.0020366 | mg/L | 0.00066517 | 0.0020366 | mg/L | 0.00066517 | 32.66% |
| Cu 327.393† | 192.8 | 0.0030151 | mg/L | 0.00043096 | 0.0030151 | mg/L | 0.00043096 | 14.29% |
| Fe 273.955† | 4892.2 | 0.171033 | mg/L | 0.0018672 | 0.171033 | mg/L | 0.0018672 | 1.09% |
| K 404.721† | 151.2 | 0.609846 | mg/L | 0.4029786 | 0.609846 | mg/L | 0.4029786 | 66.08% |
| Mg 279.077† | 204882.0 | 8.13233 | mg/L | 0.072743 | 8.13233 | mg/L | 0.072743 | 0.89% |
| Mn 257.610† | 64413.5 | 0.0786331 | mg/L | 0.00063256 | 0.0786331 | mg/L | 0.00063256 | 0.80% |
| Mo 202.031† | 74.7 | 0.0076322 | mg/L | 0.00003911 | 0.0076322 | mg/L | 0.00003911 | 0.51% |
| Na 330.237† | 126725.6 | 89.7032 | mg/L | 0.54872 | 89.7032 | mg/L | 0.54872 | 0.61% |
| Ni 231.604† | 181.8 | 0.0063822 | mg/L | 0.00030149 | 0.0063822 | mg/L | 0.00030149 | 4.72% |
| Pb 220.353† | 39.8 | 0.0121315 | mg/L | 0.00045172 | 0.0121315 | mg/L | 0.00045172 | 3.72% |
| Sb 206.836† | -17.0 | -0.0095518 | mg/L | 0.00067519 | -0.0095518 | mg/L | 0.00067519 | 7.07% |
| Se 196.026† | -14.0 | -0.0123599 | mg/L | 0.00465605 | -0.0123599 | mg/L | 0.00465605 | 37.67% |
| Sn 189.927† | -5.8 | -0.0014268 | mg/L | 0.00081605 | -0.0014268 | mg/L | 0.00081605 | 57.20% |
| Ti 334.940† | 772.6 | 0.0043277 | mg/L | 0.00003962 | 0.0043277 | mg/L | 0.00003962 | 0.92% |
| Tl 190.801† | -11.9 | -0.0093492 | mg/L | 0.00461010 | -0.0093492 | mg/L | 0.00461010 | 49.31% |
| V 290.880† | 213.5 | 0.0049081 | mg/L | 0.00007234 | 0.0049081 | mg/L | 0.00007234 | 1.47% |
| Zn 206.200† | 976.0 | 0.0222339 | mg/L | 0.00015995 | 0.0222339 | mg/L | 0.00015995 | 0.72% |
| Si 251.611† | 288160.9 | 6.31220 | mg/L | 0.047826 | 6.31220 | mg/L | 0.047826 | 0.76% |
| B 249.772† | 2396.0 | 0.0288314 | mg/L | 0.00014370 | 0.0288314 | mg/L | 0.00014370 | 0.50% |
| Ce 413.764 | -141.4 | -0.0226705 | mg/L | 0.00114070 | -0.0226705 | mg/L | 0.00114070 | 5.03% |

Sequence No.: 72
Sample ID: AD26083-017
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 77
Date Collected: 9/29/2021 3:00:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-017

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 769411.2 | 95.0 | % | 0.53 | | | | 0.56% |
| Y 371.029 | 807901.6 | 95.0 | % | 0.50 | | | | 0.52% |
| Ag 328.068† | -53.2 | 0.0001309 | mg/L | 0.00048853 | 0.0001309 | mg/L | 0.00048853 | 373.21% |
| Al 308.215† | 416.2 | 0.0236585 | mg/L | 0.00371564 | 0.0236585 | mg/L | 0.00371564 | 15.71% |
| As 188.979† | 11.8 | 0.0120222 | mg/L | 0.00451912 | 0.0120222 | mg/L | 0.00451912 | 37.59% |
| Ba 233.527† | 14057.7 | 0.147106 | mg/L | 0.0020191 | 0.147106 | mg/L | 0.0020191 | 1.37% |
| Be 313.107† | 1589.4 | 0.0041402 | mg/L | 0.00000547 | 0.0041402 | mg/L | 0.00000547 | 0.13% |
| Ca 315.887† | 4474015.8 | 32.6932 | mg/L | 0.12715 | 32.6932 | mg/L | 0.12715 | 0.39% |
| Cd 228.802† | 39.7 | 0.0041561 | mg/L | 0.00027250 | 0.0041561 | mg/L | 0.00027250 | 6.56% |
| Co 228.616† | 115.1 | 0.0046037 | mg/L | 0.00011967 | 0.0046037 | mg/L | 0.00011967 | 2.60% |
| Cr 267.716† | 49.5 | 0.0021016 | mg/L | 0.00010588 | 0.0021016 | mg/L | 0.00010588 | 5.04% |
| Cu 327.393† | 485.1 | 0.0057022 | mg/L | 0.00055144 | 0.0057022 | mg/L | 0.00055144 | 9.67% |
| Fe 273.955† | 2137.8 | 0.0793762 | mg/L | 0.00245070 | 0.0793762 | mg/L | 0.00245070 | 3.09% |
| K 404.721† | 108.7 | 0.299266 | mg/L | 1.4931168 | 0.299266 | mg/L | 1.4931168 | 498.93% |
| Mg 279.077† | 216581.2 | 8.59660 | mg/L | 0.159700 | 8.59660 | mg/L | 0.159700 | 1.86% |
| Mn 257.610† | 121080.1 | 0.146653 | mg/L | 0.0021951 | 0.146653 | mg/L | 0.0021951 | 1.50% |
| Mo 202.031† | 77.1 | 0.0078168 | mg/L | 0.00035435 | 0.0078168 | mg/L | 0.00035435 | 4.53% |
| Na 330.237† | 14705.4 | 11.3398 | mg/L | 0.16752 | 11.3398 | mg/L | 0.16752 | 1.48% |
| Ni 231.604† | 167.8 | 0.0059575 | mg/L | 0.00036674 | 0.0059575 | mg/L | 0.00036674 | 6.16% |
| Pb 220.353† | 41.1 | 0.0124569 | mg/L | 0.00166429 | 0.0124569 | mg/L | 0.00166429 | 13.36% |
| Sb 206.836† | -9.1 | -0.0030689 | mg/L | 0.00423763 | -0.0030689 | mg/L | 0.00423763 | 138.08% |
| Se 196.026† | -11.1 | -0.0094891 | mg/L | 0.00258109 | -0.0094891 | mg/L | 0.00258109 | 27.20% |
| Sn 189.927† | -8.3 | -0.0020456 | mg/L | 0.00085908 | -0.0020456 | mg/L | 0.00085908 | 42.00% |
| Ti 334.940† | 509.7 | 0.0040267 | mg/L | 0.00009827 | 0.0040267 | mg/L | 0.00009827 | 2.44% |
| Tl 190.801† | -15.7 | -0.0126260 | mg/L | 0.00232706 | -0.0126260 | mg/L | 0.00232706 | 18.43% |
| V 290.880† | 66.0 | 0.0040081 | mg/L | 0.00011185 | 0.0040081 | mg/L | 0.00011185 | 2.79% |
| Zn 206.200† | 724.1 | 0.0172717 | mg/L | 0.00012630 | 0.0172717 | mg/L | 0.00012630 | 0.73% |
| Si 251.611† | 261085.8 | 5.71032 | mg/L | 0.092741 | 5.71032 | mg/L | 0.092741 | 1.62% |
| B 249.772† | 1506.6 | 0.0203925 | mg/L | 0.00049010 | 0.0203925 | mg/L | 0.00049010 | 2.40% |
| Ce 413.764 | -280.8 | -0.0253877 | mg/L | 0.00136221 | -0.0253877 | mg/L | 0.00136221 | 5.37% |

Sequence No.: 73
Sample ID: AD26083-020
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 78
Date Collected: 9/29/2021 3:04:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-020

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 679810.1 | 83.9 | % | 0.04 | | | | 0.05% |
| Y 371.029 | 703182.4 | 82.7 | % | 0.15 | | | | 0.18% |
| Ag 328.068† | 74.8 | 0.0008828 | mg/L | 0.00030834 | 0.0008828 | mg/L | 0.00030834 | 34.93% |
| Al 308.215† | 1911.4 | 0.0720773 | mg/L | 0.00210955 | 0.0720773 | mg/L | 0.00210955 | 2.93% |
| As 188.979† | 29.4 | 0.0249837 | mg/L | 0.00071877 | 0.0249837 | mg/L | 0.00071877 | 2.88% |
| Ba 233.527† | 6004.5 | 0.0637310 | mg/L | 0.00011403 | 0.0637310 | mg/L | 0.00011403 | 0.18% |
| Be 313.107† | 2317.9 | 0.0043615 | mg/L | 0.00005441 | 0.0043615 | mg/L | 0.00005441 | 1.25% |
| Ca 315.887† | 3642338.9 | 26.6663 | mg/L | 0.07902 | 26.6663 | mg/L | 0.07902 | 0.30% |
| Cd 228.802† | 49.7 | 0.0045348 | mg/L | 0.00038920 | 0.0045348 | mg/L | 0.00038920 | 8.58% |
| Co 228.616† | 166.9 | 0.0059952 | mg/L | 0.00034453 | 0.0059952 | mg/L | 0.00034453 | 5.75% |
| Cr 267.716† | -224.9 | -0.0002261 | mg/L | 0.00035380 | -0.0002261 | mg/L | 0.00035380 | 156.46% |
| Cu 327.393† | -743.8 | -0.0051844 | mg/L | 0.00048156 | -0.0051844 | mg/L | 0.00048156 | 9.29% |
| Fe 273.955† | 17770.9 | 0.599591 | mg/L | 0.0051686 | 0.599591 | mg/L | 0.0051686 | 0.86% |
| K 404.721† | 3652.8 | 26.2071 | mg/L | 0.52180 | 26.2071 | mg/L | 0.52180 | 1.99% |
| Mg 279.077† | 889460.7 | 35.2992 | mg/L | 0.12254 | 35.2992 | mg/L | 0.12254 | 0.35% |
| Mn 257.610† | 76825.4 | 0.0935317 | mg/L | 0.00081961 | 0.0935317 | mg/L | 0.00081961 | 0.88% |
| Mo 202.031† | 117.3 | 0.0109075 | mg/L | 0.00065983 | 0.0109075 | mg/L | 0.00065983 | 6.05% |
| Na 330.237† | 755432.7 | 529.513 | mg/L | 2.1787 | 529.513 | mg/L | 2.1787 | 0.41% |
| Ni 231.604† | 338.9 | 0.0111361 | mg/L | 0.00025562 | 0.0111361 | mg/L | 0.00025562 | 2.30% |
| Pb 220.353† | 6.2 | 0.0046826 | mg/L | 0.00102876 | 0.0046826 | mg/L | 0.00102876 | 21.97% |
| Sb 206.836† | -62.9 | -0.0473418 | mg/L | 0.00082468 | -0.0473418 | mg/L | 0.00082468 | 1.74% |
| Se 196.026† | -21.7 | -0.0197857 | mg/L | 0.00763209 | -0.0197857 | mg/L | 0.00763209 | 38.57% |
| Sn 189.927† | -21.9 | -0.0053339 | mg/L | 0.00013694 | -0.0053339 | mg/L | 0.00013694 | 2.57% |
| Ti 334.940† | 526.4 | 0.0040458 | mg/L | 0.00008700 | 0.0040458 | mg/L | 0.00008700 | 2.15% |
| Tl 190.801† | -19.4 | -0.0171789 | mg/L | 0.00090619 | -0.0171789 | mg/L | 0.00090619 | 5.28% |
| V 290.880† | 106.6 | 0.0042556 | mg/L | 0.00075211 | 0.0042556 | mg/L | 0.00075211 | 17.67% |
| Zn 206.200† | 122.1 | 0.0054111 | mg/L | 0.00024283 | 0.0054111 | mg/L | 0.00024283 | 4.49% |
| Si 251.611† | 393214.2 | 8.64757 | mg/L | 0.060559 | 8.64757 | mg/L | 0.060559 | 0.70% |
| B 249.772† | 33228.9 | 0.331988 | mg/L | 0.0046050 | 0.331988 | mg/L | 0.0046050 | 1.39% |
| Ce 413.764 | -177.1 | -0.0233669 | mg/L | 0.00122559 | -0.0233669 | mg/L | 0.00122559 | 5.24% |

Sequence No.: 74
Sample ID: AD26083-022
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 79
Date Collected: 9/29/2021 3:09:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-022

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Calib Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 773354.3 | 95.5 | % | 1.09 | | | | 1.14% |
| Y 371.029 | 812525.0 | 95.6 | % | 0.90 | | | | 0.94% |
| Ag 328.068† | -5.8 | 0.0004078 | mg/L | 0.00020699 | 0.0004078 | mg/L | 0.00020699 | 50.76% |
| Al 308.215† | 400.7 | 0.0231551 | mg/L | 0.00513053 | 0.0231551 | mg/L | 0.00513053 | 22.16% |
| As 188.979† | 15.1 | 0.0145045 | mg/L | 0.00157167 | 0.0145045 | mg/L | 0.00157167 | 10.84% |
| Ba 233.527† | 15640.8 | 0.163495 | mg/L | 0.0016789 | 0.163495 | mg/L | 0.0016789 | 1.03% |
| Be 313.107† | 1586.8 | 0.0041394 | mg/L | 0.00003716 | 0.0041394 | mg/L | 0.00003716 | 0.90% |
| Ca 315.887† | 4200580.0 | 30.7117 | mg/L | 0.06219 | 30.7117 | mg/L | 0.06219 | 0.20% |
| Cd 228.802† | 38.2 | 0.0041658 | mg/L | 0.00030073 | 0.0041658 | mg/L | 0.00030073 | 7.22% |
| Co 228.616† | 114.1 | 0.0046196 | mg/L | 0.00008820 | 0.0046196 | mg/L | 0.00008820 | 1.91% |
| Cr 267.716† | 126.4 | 0.0027542 | mg/L | 0.00035266 | 0.0027542 | mg/L | 0.00035266 | 12.80% |
| Cu 327.393† | 239.9 | 0.0035741 | mg/L | 0.00136350 | 0.0035741 | mg/L | 0.00136350 | 38.15% |
| Fe 273.955† | 6930.0 | 0.238845 | mg/L | 0.0026086 | 0.238845 | mg/L | 0.0026086 | 1.09% |
| K 404.721† | 192.3 | 0.910411 | mg/L | 0.3307026 | 0.910411 | mg/L | 0.3307026 | 36.32% |
| Mg 279.077† | 235703.2 | 9.35544 | mg/L | 0.128633 | 9.35544 | mg/L | 0.128633 | 1.37% |
| Mn 257.610† | 142350.2 | 0.172185 | mg/L | 0.0021566 | 0.172185 | mg/L | 0.0021566 | 1.25% |
| Mo 202.031† | 94.3 | 0.0091382 | mg/L | 0.00039125 | 0.0091382 | mg/L | 0.00039125 | 4.28% |
| Na 330.237† | 23155.9 | 17.2513 | mg/L | 0.16747 | 17.2513 | mg/L | 0.16747 | 0.97% |
| Ni 231.604† | 171.2 | 0.0060622 | mg/L | 0.00025507 | 0.0060622 | mg/L | 0.00025507 | 4.21% |
| Pb 220.353† | 49.7 | 0.0146509 | mg/L | 0.00113215 | 0.0146509 | mg/L | 0.00113215 | 7.73% |
| Sb 206.836† | -14.0 | -0.0070942 | mg/L | 0.00146723 | -0.0070942 | mg/L | 0.00146723 | 20.68% |
| Se 196.026† | -15.4 | -0.0136599 | mg/L | 0.00292677 | -0.0136599 | mg/L | 0.00292677 | 21.43% |
| Sn 189.927† | 5.1 | 0.0012166 | mg/L | 0.00069778 | 0.0012166 | mg/L | 0.00069778 | 57.35% |
| Ti 334.940† | 508.9 | 0.0040258 | mg/L | 0.00001367 | 0.0040258 | mg/L | 0.00001367 | 0.34% |
| Tl 190.801† | -17.4 | -0.0146350 | mg/L | 0.00388035 | -0.0146350 | mg/L | 0.00388035 | 26.51% |
| V 290.880† | 51.0 | 0.0039164 | mg/L | 0.00031280 | 0.0039164 | mg/L | 0.00031280 | 7.99% |
| Zn 206.200† | 2003.6 | 0.0424778 | mg/L | 0.00038075 | 0.0424778 | mg/L | 0.00038075 | 0.90% |
| Si 251.611† | 269150.2 | 5.88965 | mg/L | 0.075103 | 5.88965 | mg/L | 0.075103 | 1.28% |
| B 249.772† | 4737.8 | 0.0517209 | mg/L | 0.00069789 | 0.0517209 | mg/L | 0.00069789 | 1.35% |
| Ce 413.764 | -210.3 | -0.0240130 | mg/L | 0.00100194 | -0.0240130 | mg/L | 0.00100194 | 4.17% |

Sequence No.: 75
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 3:13:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 734054.5 | 90.6 | % | 0.48 | | | | 0.53% |
| Y 371.029 | 765145.0 | 90.0 | % | 0.43 | | | | 0.47% |
| Ag 328.068† | 17329.9 | 0.0980909 | mg/L | 0.00129932 | 0.0980909 | mg/L | 0.00129932 | 1.32% |
| QC value within limits for Ag 328.068 Recovery = 98.09% | | | | | | | | |
| Al 308.215† | 151303.1 | 4.90997 | mg/L | 0.036125 | 4.90997 | mg/L | 0.036125 | 0.74% |
| QC value within limits for Al 308.215 Recovery = 98.20% | | | | | | | | |
| As 188.979† | 680.7 | 0.503936 | mg/L | 0.0081113 | 0.503936 | mg/L | 0.0081113 | 1.61% |
| QC value within limits for As 188.979 Recovery = 100.79% | | | | | | | | |
| Ba 233.527† | 46595.6 | 0.483967 | mg/L | 0.0032617 | 0.483967 | mg/L | 0.0032617 | 0.67% |
| QC value within limits for Ba 233.527 Recovery = 96.79% | | | | | | | | |
| Be 313.107† | 1567452.1 | 0.479873 | mg/L | 0.0009086 | 0.479873 | mg/L | 0.0009086 | 0.19% |
| QC value within limits for Be 313.107 Recovery = 95.97% | | | | | | | | |
| Ca 315.887† | 6679225.5 | 48.6736 | mg/L | 0.08614 | 48.6736 | mg/L | 0.08614 | 0.18% |
| QC value within limits for Ca 315.887 Recovery = 97.35% | | | | | | | | |
| Cd 228.802† | 24540.5 | 0.506531 | mg/L | 0.0046854 | 0.506531 | mg/L | 0.0046854 | 0.92% |
| QC value within limits for Cd 228.802 Recovery = 101.31% | | | | | | | | |
| Co 228.616† | 15530.3 | 0.488115 | mg/L | 0.0047236 | 0.488115 | mg/L | 0.0047236 | 0.97% |
| QC value within limits for Co 228.616 Recovery = 97.62% | | | | | | | | |
| Cr 267.716† | 57560.1 | 0.490114 | mg/L | 0.0041788 | 0.490114 | mg/L | 0.0041788 | 0.85% |
| QC value within limits for Cr 267.716 Recovery = 98.02% | | | | | | | | |
| Cu 327.393† | 57434.7 | 0.492202 | mg/L | 0.0048846 | 0.492202 | mg/L | 0.0048846 | 0.99% |
| QC value within limits for Cu 327.393 Recovery = 98.44% | | | | | | | | |
| Fe 273.955† | 144476.0 | 4.81591 | mg/L | 0.036991 | 4.81591 | mg/L | 0.036991 | 0.77% |
| QC value within limits for Fe 273.955 Recovery = 96.32% | | | | | | | | |
| K 404.721† | 6549.3 | 47.3812 | mg/L | 0.34819 | 47.3812 | mg/L | 0.34819 | 0.73% |
| QC value within limits for K 404.721 Recovery = 94.76% | | | | | | | | |
| Mg 279.077† | 1221240.6 | 48.4655 | mg/L | 0.10892 | 48.4655 | mg/L | 0.10892 | 0.22% |
| QC value within limits for Mg 279.077 Recovery = 96.93% | | | | | | | | |
| Mn 257.610† | 402309.4 | 0.484229 | mg/L | 0.0037569 | 0.484229 | mg/L | 0.0037569 | 0.78% |
| QC value within limits for Mn 257.610 Recovery = 96.85% | | | | | | | | |
| Mo 202.031† | 6212.5 | 0.479977 | mg/L | 0.0050974 | 0.479977 | mg/L | 0.0050974 | 1.06% |
| QC value within limits for Mo 202.031 Recovery = 96.00% | | | | | | | | |
| Na 330.237† | 67250.8 | 48.0978 | mg/L | 0.35278 | 48.0978 | mg/L | 0.35278 | 0.73% |
| QC value within limits for Na 330.237 Recovery = 96.20% | | | | | | | | |
| Ni 231.604† | 16111.3 | 0.488509 | mg/L | 0.0042178 | 0.488509 | mg/L | 0.0042178 | 0.86% |
| QC value within limits for Ni 231.604 Recovery = 97.70% | | | | | | | | |
| Pb 220.353† | 2090.2 | 0.528821 | mg/L | 0.0054876 | 0.528821 | mg/L | 0.0054876 | 1.04% |
| QC value within limits for Pb 220.353 Recovery = 105.76% | | | | | | | | |
| Sb 206.836† | 566.6 | 0.476023 | mg/L | 0.0031646 | 0.476023 | mg/L | 0.0031646 | 0.66% |
| QC value within limits for Sb 206.836 Recovery = 95.20% | | | | | | | | |
| Se 196.026† | 466.7 | 0.455143 | mg/L | 0.0114518 | 0.455143 | mg/L | 0.0114518 | 2.52% |
| QC value within limits for Se 196.026 Recovery = 91.03% | | | | | | | | |
| Sn 189.927† | 2042.3 | 0.496512 | mg/L | 0.0046721 | 0.496512 | mg/L | 0.0046721 | 0.94% |
| QC value within limits for Sn 189.927 Recovery = 99.30% | | | | | | | | |
| Ti 334.940† | 420880.2 | 0.485191 | mg/L | 0.0035500 | 0.485191 | mg/L | 0.0035500 | 0.73% |
| QC value within limits for Ti 334.940 Recovery = 97.04% | | | | | | | | |
| Tl 190.801† | 431.7 | 0.500413 | mg/L | 0.0074861 | 0.500413 | mg/L | 0.0074861 | 1.50% |
| QC value within limits for Tl 190.801 Recovery = 100.08% | | | | | | | | |
| V 290.880† | 79278.6 | 0.487441 | mg/L | 0.0033029 | 0.487441 | mg/L | 0.0033029 | 0.68% |
| QC value within limits for V 290.880 Recovery = 97.49% | | | | | | | | |
| Zn 206.200† | 24188.6 | 0.479521 | mg/L | 0.0046850 | 0.479521 | mg/L | 0.0046850 | 0.98% |
| QC value within limits for Zn 206.200 Recovery = 95.90% | | | | | | | | |
| Si 251.611† | 218650.5 | 4.76918 | mg/L | 0.044478 | 4.76918 | mg/L | 0.044478 | 0.93% |
| QC value within limits for Si 251.611 Recovery = 95.38% | | | | | | | | |
| B 249.772† | 45229.9 | 0.434405 | mg/L | 0.0033457 | 0.434405 | mg/L | 0.0033457 | 0.77% |
| QC value less than the lower limit for B 249.772 Recovery = 86.88% | | | | | | | | |
| Ce 413.764 | 25311.4 | 0.473487 | mg/L | 0.0036495 | 0.473487 | mg/L | 0.0036495 | 0.77% |
| QC value within limits for Ce 413.764 Recovery = 94.70% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 76 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 3:17:17 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 774434.2 | 95.6 | % | 0.37 | | | | 0.39% |
| Y 371.029 | 827274.9 | 97.3 | % | 0.31 | | | | 0.32% |
| Ag 328.068† | -65.6 | 0.0000552 | mg/L | 0.00007295 | 0.0000552 | mg/L | 0.00007295 | 132.05% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 44.1 | 0.0116078 | mg/L | 0.00266165 | 0.0116078 | mg/L | 0.00266165 | 22.93% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 12.9 | 0.0128649 | mg/L | 0.00394753 | 0.0128649 | mg/L | 0.00394753 | 30.68% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -114.8 | 0.0003786 | mg/L | 0.00012373 | 0.0003786 | mg/L | 0.00012373 | 32.68% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1900.2 | 0.0042346 | mg/L | 0.00000724 | 0.0042346 | mg/L | 0.00000724 | 0.17% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 917.4 | 0.278211 | mg/L | 0.0010648 | 0.278211 | mg/L | 0.0010648 | 0.38% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 58.3 | 0.0044995 | mg/L | 0.00011757 | 0.0044995 | mg/L | 0.00011757 | 2.61% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 144.0 | 0.0050980 | mg/L | 0.00043992 | 0.0050980 | mg/L | 0.00043992 | 8.63% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 54.0 | 0.0021400 | mg/L | 0.00036090 | 0.0021400 | mg/L | 0.00036090 | 16.86% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 330.1 | 0.0040854 | mg/L | 0.00045366 | 0.0040854 | mg/L | 0.00045366 | 11.10% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -298.8 | -0.0017076 | mg/L | 0.00061294 | -0.0017076 | mg/L | 0.00061294 | 35.89% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 279.1 | 1.54501 | mg/L | 0.241734 | 1.54501 | mg/L | 0.241734 | 15.65% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 158.0 | 0.0080617 | mg/L | 0.00157038 | 0.0080617 | mg/L | 0.00157038 | 19.48% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -25.8 | 0.0012828 | mg/L | 0.00008451 | 0.0012828 | mg/L | 0.00008451 | 6.59% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 31.3 | 0.0042945 | mg/L | 0.00026307 | 0.0042945 | mg/L | 0.00026307 | 6.13% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 165.9 | 1.16874 | mg/L | 0.072115 | 1.16874 | mg/L | 0.072115 | 6.17% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 122.3 | 0.0045804 | mg/L | 0.00063002 | 0.0045804 | mg/L | 0.00063002 | 13.75% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 58.6 | 0.0165322 | mg/L | 0.00075948 | 0.0165322 | mg/L | 0.00075948 | 4.59% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -4.9 | 0.0003530 | mg/L | 0.00397511 | 0.0003530 | mg/L | 0.00397511 | >999.9% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -12.7 | -0.0110449 | mg/L | 0.00189241 | -0.0110449 | mg/L | 0.00189241 | 17.13% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -1.2 | -0.0003058 | mg/L | 0.00111299 | -0.0003058 | mg/L | 0.00111299 | 363.97% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 120.8 | 0.0035816 | mg/L | 0.00006704 | 0.0035816 | mg/L | 0.00006704 | 1.87% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -7.8 | -0.0057776 | mg/L | 0.00301086 | -0.0057776 | mg/L | 0.00301086 | 52.11% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 216.6 | 0.0049270 | mg/L | 0.00041301 | 0.0049270 | mg/L | 0.00041301 | 8.38% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -14.7 | 0.0027161 | mg/L | 0.00010966 | 0.0027161 | mg/L | 0.00010966 | 4.04% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 334.4 | -0.0858340 | mg/L | 0.00110369 | -0.0858340 | mg/L | 0.00110369 | 1.29% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -625.9 | -0.0003772 | mg/L | 0.00142166 | -0.0003772 | mg/L | 0.00142166 | 376.91% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -354.8 | -0.0268292 | mg/L | 0.00199447 | -0.0268292 | mg/L | 0.00199447 | 7.43% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 77
Sample ID: AD26083-024
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 80
Date Collected: 9/29/2021 3:21:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-024

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 758852.8 | 93.7 | % | 1.02 | | | | 1.09% |
| Y 371.029 | 796076.3 | 93.7 | % | 1.00 | | | | 1.07% |
| Ag 328.068† | 30.0 | 0.0006030 | mg/L | 0.00034035 | 0.0006030 | mg/L | 0.00034035 | 56.45% |
| Al 308.215† | 546.0 | 0.0278628 | mg/L | 0.00458593 | 0.0278628 | mg/L | 0.00458593 | 16.46% |
| As 188.979† | 14.2 | 0.0137935 | mg/L | 0.00112369 | 0.0137935 | mg/L | 0.00112369 | 8.15% |
| Ba 233.527† | 14731.8 | 0.154085 | mg/L | 0.0009233 | 0.154085 | mg/L | 0.0009233 | 0.60% |
| Be 313.107† | 1668.6 | 0.0041643 | mg/L | 0.00001517 | 0.0041643 | mg/L | 0.00001517 | 0.36% |
| Ca 315.887† | 3946513.2 | 28.8706 | mg/L | 0.12323 | 28.8706 | mg/L | 0.12323 | 0.43% |
| Cd 228.802† | 50.5 | 0.0043976 | mg/L | 0.00027191 | 0.0043976 | mg/L | 0.00027191 | 6.18% |
| Co 228.616† | 116.9 | 0.0046808 | mg/L | 0.00097131 | 0.0046808 | mg/L | 0.00097131 | 20.75% |
| Cr 267.716† | 10.3 | 0.0017690 | mg/L | 0.00032910 | 0.0017690 | mg/L | 0.00032910 | 18.60% |
| Cu 327.393† | 103.2 | 0.0023899 | mg/L | 0.00092733 | 0.0023899 | mg/L | 0.00092733 | 38.80% |
| Fe 273.955† | 4951.4 | 0.173003 | mg/L | 0.0015931 | 0.173003 | mg/L | 0.0015931 | 0.92% |
| K 404.721† | 259.7 | 1.40276 | mg/L | 0.303098 | 1.40276 | mg/L | 0.303098 | 21.61% |
| Mg 279.077† | 221808.7 | 8.80405 | mg/L | 0.063481 | 8.80405 | mg/L | 0.063481 | 0.72% |
| Mn 257.610† | 134169.2 | 0.162365 | mg/L | 0.0011050 | 0.162365 | mg/L | 0.0011050 | 0.68% |
| Mo 202.031† | 93.1 | 0.0090453 | mg/L | 0.00035401 | 0.0090453 | mg/L | 0.00035401 | 3.91% |
| Na 330.237† | 21715.6 | 16.2438 | mg/L | 0.06647 | 16.2438 | mg/L | 0.06647 | 0.41% |
| Ni 231.604† | 172.2 | 0.0060908 | mg/L | 0.00069866 | 0.0060908 | mg/L | 0.00069866 | 11.47% |
| Pb 220.353† | 52.8 | 0.0154024 | mg/L | 0.00183629 | 0.0154024 | mg/L | 0.00183629 | 11.92% |
| Sb 206.836† | -14.2 | -0.0072568 | mg/L | 0.00361050 | -0.0072568 | mg/L | 0.00361050 | 49.75% |
| Se 196.026† | -10.7 | -0.0090798 | mg/L | 0.00995791 | -0.0090798 | mg/L | 0.00995791 | 109.67% |
| Sn 189.927† | 14.7 | 0.0035447 | mg/L | 0.00103521 | 0.0035447 | mg/L | 0.00103521 | 29.20% |
| Ti 334.940† | 429.3 | 0.0039347 | mg/L | 0.00007158 | 0.0039347 | mg/L | 0.00007158 | 1.82% |
| Tl 190.801† | -16.0 | -0.0132047 | mg/L | 0.00238968 | -0.0132047 | mg/L | 0.00238968 | 18.10% |
| V 290.880† | 115.1 | 0.0043079 | mg/L | 0.00079709 | 0.0043079 | mg/L | 0.00079709 | 18.50% |
| Zn 206.200† | 808.1 | 0.0189261 | mg/L | 0.00011306 | 0.0189261 | mg/L | 0.00011306 | 0.60% |
| Si 251.611† | 252927.3 | 5.52901 | mg/L | 0.044804 | 5.52901 | mg/L | 0.044804 | 0.81% |
| B 249.772† | 4135.4 | 0.0460191 | mg/L | 0.00030205 | 0.0460191 | mg/L | 0.00030205 | 0.66% |
| Ce 413.764 | -269.5 | -0.0251677 | mg/L | 0.00105402 | -0.0251677 | mg/L | 0.00105402 | 4.19% |

Sequence No.: 78
Sample ID: AD26083-029
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 81
Date Collected: 9/29/2021 3:25:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-029

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 697749.8 | 86.1 | % | 0.55 | | | | 0.63% |
| Y 371.029 | 722812.6 | 85.0 | % | 0.53 | | | | 0.62% |
| Ag 328.068† | -101.0 | -0.0001167 | mg/L | 0.00018993 | -0.0001167 | mg/L | 0.00018993 | 162.80% |
| Al 308.215† | 5529.9 | 0.189259 | mg/L | 0.0015564 | 0.189259 | mg/L | 0.0015564 | 0.82% |
| As 188.979† | 12.5 | 0.0125405 | mg/L | 0.00544334 | 0.0125405 | mg/L | 0.00544334 | 43.41% |
| Ba 233.527† | 128559.9 | 1.33254 | mg/L | 0.006593 | 1.33254 | mg/L | 0.006593 | 0.49% |
| Be 313.107† | 1518.7 | 0.0041187 | mg/L | 0.00001130 | 0.0041187 | mg/L | 0.00001130 | 0.27% |
| Ca 315.887† | 27464222.0 | 199.295 | mg/L | 2.3439 | 199.295 | mg/L | 2.3439 | 1.18% |
| Cd 228.802† | 43.4 | 0.0043528 | mg/L | 0.00027952 | 0.0043528 | mg/L | 0.00027952 | 6.42% |
| Co 228.616† | 47.9 | 0.0058390 | mg/L | 0.00049316 | 0.0058390 | mg/L | 0.00049316 | 8.45% |
| Cr 267.716† | -105.9 | 0.0007833 | mg/L | 0.00019154 | 0.0007833 | mg/L | 0.00019154 | 24.45% |
| Cu 327.393† | -1424.1 | -0.0091806 | mg/L | 0.00069064 | -0.0091806 | mg/L | 0.00069064 | 7.52% |
| Fe 273.955† | 12142.7 | 0.412306 | mg/L | 0.0030777 | 0.412306 | mg/L | 0.0030777 | 0.75% |
| K 404.721† | 1397.2 | 9.71876 | mg/L | 0.396912 | 9.71876 | mg/L | 0.396912 | 4.08% |
| Mg 279.077† | 1474321.6 | 58.5088 | mg/L | 0.33810 | 58.5088 | mg/L | 0.33810 | 0.58% |
| Mn 257.610† | 548504.1 | 0.659715 | mg/L | 0.0029362 | 0.659715 | mg/L | 0.0029362 | 0.45% |
| Mo 202.031† | 147.2 | 0.0132200 | mg/L | 0.00016297 | 0.0132200 | mg/L | 0.00016297 | 1.23% |
| Na 330.237† | 272659.2 | 191.791 | mg/L | 0.8187 | 191.791 | mg/L | 0.8187 | 0.43% |
| Ni 231.604† | 305.7 | 0.0101332 | mg/L | 0.00086419 | 0.0101332 | mg/L | 0.00086419 | 8.53% |
| Pb 220.353† | 25.9 | 0.0104534 | mg/L | 0.00175915 | 0.0104534 | mg/L | 0.00175915 | 16.83% |
| Sb 206.836† | -41.9 | -0.0300237 | mg/L | 0.00392550 | -0.0300237 | mg/L | 0.00392550 | 13.07% |
| Se 196.026† | -31.7 | -0.0295144 | mg/L | 0.00513941 | -0.0295144 | mg/L | 0.00513941 | 17.41% |
| Sn 189.927† | -21.1 | -0.0051594 | mg/L | 0.00096045 | -0.0051594 | mg/L | 0.00096045 | 18.62% |
| Ti 334.940† | 8337.7 | 0.0129868 | mg/L | 0.00004424 | 0.0129868 | mg/L | 0.00004424 | 0.34% |
| Tl 190.801† | -30.8 | -0.0184456 | mg/L | 0.00285233 | -0.0184456 | mg/L | 0.00285233 | 15.46% |
| V 290.880† | -466.5 | 0.0007582 | mg/L | 0.00053536 | 0.0007582 | mg/L | 0.00053536 | 70.61% |
| Zn 206.200† | 908.9 | 0.0209113 | mg/L | 0.00023504 | 0.0209113 | mg/L | 0.00023504 | 1.12% |
| Si 251.611† | 254046.6 | 5.55400 | mg/L | 0.023801 | 5.55400 | mg/L | 0.023801 | 0.43% |
| B 249.772† | 20832.8 | 0.210164 | mg/L | 0.0007437 | 0.210164 | mg/L | 0.0007437 | 0.35% |
| Ce 413.764 | -407.5 | -0.0278565 | mg/L | 0.00120293 | -0.0278565 | mg/L | 0.00120293 | 4.32% |

Sequence No.: 79
Sample ID: AD26083-031
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 82
Date Collected: 9/29/2021 3:29:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-031

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 731876.6 | 90.3 | % | 0.34 | | | | 0.38% |
| Y 371.029 | 765879.3 | 90.1 | % | 0.46 | | | | 0.51% |
| Ag 328.068† | 0.9 | 0.0004288 | mg/L | 0.00028715 | 0.0004288 | mg/L | 0.00028715 | 66.97% |
| Al 308.215† | 716.3 | 0.0333754 | mg/L | 0.00071800 | 0.0333754 | mg/L | 0.00071800 | 2.15% |
| As 188.979† | 19.0 | 0.0173695 | mg/L | 0.00256057 | 0.0173695 | mg/L | 0.00256057 | 14.74% |
| Ba 233.527† | 8255.0 | 0.0870309 | mg/L | 0.00031275 | 0.0870309 | mg/L | 0.00031275 | 0.36% |
| Be 313.107† | 2045.9 | 0.0042789 | mg/L | 0.00001742 | 0.0042789 | mg/L | 0.00001742 | 0.41% |
| Ca 315.887† | 686162.4 | 5.24395 | mg/L | 0.003385 | 5.24395 | mg/L | 0.003385 | 0.06% |
| Cd 228.802† | 52.6 | 0.0044135 | mg/L | 0.00007518 | 0.0044135 | mg/L | 0.00007518 | 1.70% |
| Co 228.616† | 125.3 | 0.0047567 | mg/L | 0.00038847 | 0.0047567 | mg/L | 0.00038847 | 8.17% |
| Cr 267.716† | -35.2 | 0.0013832 | mg/L | 0.00035174 | 0.0013832 | mg/L | 0.00035174 | 25.43% |
| Cu 327.393† | 6.3 | 0.0013214 | mg/L | 0.00015559 | 0.0013214 | mg/L | 0.00015559 | 11.77% |
| Fe 273.955† | 479.2 | 0.0241830 | mg/L | 0.00196861 | 0.0241830 | mg/L | 0.00196861 | 8.14% |
| K 404.721† | 1231.7 | 8.50843 | mg/L | 0.826529 | 8.50843 | mg/L | 0.826529 | 9.71% |
| Mg 279.077† | 123191.7 | 4.89053 | mg/L | 0.005879 | 4.89053 | mg/L | 0.005879 | 0.12% |
| Mn 257.610† | 27224.4 | 0.0339928 | mg/L | 0.00004629 | 0.0339928 | mg/L | 0.00004629 | 0.14% |
| Mo 202.031† | 63.0 | 0.0067266 | mg/L | 0.00061457 | 0.0067266 | mg/L | 0.00061457 | 9.14% |
| Na 330.237† | 97989.9 | 69.6012 | mg/L | 0.26040 | 69.6012 | mg/L | 0.26040 | 0.37% |
| Ni 231.604† | 199.8 | 0.0069262 | mg/L | 0.00036558 | 0.0069262 | mg/L | 0.00036558 | 5.28% |
| Pb 220.353† | 40.8 | 0.0122737 | mg/L | 0.00064774 | 0.0122737 | mg/L | 0.00064774 | 5.28% |
| Sb 206.836† | -21.7 | -0.0134882 | mg/L | 0.00297783 | -0.0134882 | mg/L | 0.00297783 | 22.08% |
| Se 196.026† | -12.0 | -0.0103986 | mg/L | 0.00269098 | -0.0103986 | mg/L | 0.00269098 | 25.88% |
| Sn 189.927† | -7.2 | -0.0017599 | mg/L | 0.00035741 | -0.0017599 | mg/L | 0.00035741 | 20.31% |
| Ti 334.940† | 242.6 | 0.0037210 | mg/L | 0.00004444 | 0.0037210 | mg/L | 0.00004444 | 1.19% |
| Tl 190.801† | -12.8 | -0.0111091 | mg/L | 0.00200670 | -0.0111091 | mg/L | 0.00200670 | 18.06% |
| V 290.880† | 342.1 | 0.0056933 | mg/L | 0.00029041 | 0.0056933 | mg/L | 0.00029041 | 5.10% |
| Zn 206.200† | 229.4 | 0.0075264 | mg/L | 0.00012997 | 0.0075264 | mg/L | 0.00012997 | 1.73% |
| Si 251.611† | 203052.1 | 4.42029 | mg/L | 0.014073 | 4.42029 | mg/L | 0.014073 | 0.32% |
| B 249.772† | 8176.8 | 0.0865444 | mg/L | 0.00038143 | 0.0865444 | mg/L | 0.00038143 | 0.44% |
| Ce 413.764 | -363.6 | -0.0270017 | mg/L | 0.00169960 | -0.0270017 | mg/L | 0.00169960 | 6.29% |

Sequence No.: 80
Sample ID: AD26083-037
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 83
Date Collected: 9/29/2021 3:33:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-037

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 609035.0 | 75.2 | % | 0.77 | | | | 1.03% |
| Y 371.029 | 623478.3 | 73.3 | % | 0.79 | | | | 1.08% |
| Ag 328.068† | -203.1 | -0.0005689 | mg/L | 0.00011859 | -0.0005689 | mg/L | 0.00011859 | 20.85% |
| Al 308.215† | 2439.6 | 0.0891837 | mg/L | 0.00407856 | 0.0891837 | mg/L | 0.00407856 | 4.57% |
| As 188.979† | 29.8 | 0.0253200 | mg/L | 0.00100905 | 0.0253200 | mg/L | 0.00100905 | 3.99% |
| Ba 233.527† | 3664.8 | 0.0395088 | mg/L | 0.00071968 | 0.0395088 | mg/L | 0.00071968 | 1.82% |
| Be 313.107† | 82.7 | 0.0036825 | mg/L | 0.00004072 | 0.0036825 | mg/L | 0.00004072 | 1.11% |
| Ca 315.887† | 108219329 | 784.500 | mg/L | 4.1119 | 784.500 | mg/L | 4.1119 | 0.52% |
| Cd 228.802† | 51.0 | 0.0050710 | mg/L | 0.00029729 | 0.0050710 | mg/L | 0.00029729 | 5.86% |
| Co 228.616† | 350.6 | 0.0116748 | mg/L | 0.00033405 | 0.0116748 | mg/L | 0.00033405 | 2.86% |
| Cr 267.716† | -383.7 | -0.0015737 | mg/L | 0.00008428 | -0.0015737 | mg/L | 0.00008428 | 5.36% |
| Cu 327.393† | -5934.5 | -0.0431521 | mg/L | 0.00063272 | -0.0431521 | mg/L | 0.00063272 | 1.47% |
| Fe 273.955† | 67946.9 | 2.26928 | mg/L | 0.009354 | 2.26928 | mg/L | 0.009354 | 0.41% |
| K 404.721† | 5606.2 | 40.4876 | mg/L | 0.47977 | 40.4876 | mg/L | 0.47977 | 1.18% |
| Mg 279.077† | 6892779.5 | 273.535 | mg/L | 3.0919 | 273.535 | mg/L | 3.0919 | 1.13% |
| Mn 257.610† | 4242021.3 | 5.09326 | mg/L | 0.045758 | 5.09326 | mg/L | 0.045758 | 0.90% |
| Mo 202.031† | 214.4 | 0.0183727 | mg/L | 0.00075962 | 0.0183727 | mg/L | 0.00075962 | 4.13% |
| Na 330.237† | 3565433.0 | 2495.24 | mg/L | 14.974 | 2495.24 | mg/L | 14.974 | 0.60% |
| Ni 231.604† | 684.1 | 0.0215855 | mg/L | 0.00030731 | 0.0215855 | mg/L | 0.00030731 | 1.42% |
| Pb 220.353† | -18.2 | 0.0067748 | mg/L | 0.00177013 | 0.0067748 | mg/L | 0.00177013 | 26.13% |
| Sb 206.836† | -105.9 | -0.0826711 | mg/L | 0.00523652 | -0.0826711 | mg/L | 0.00523652 | 6.33% |
| Se 196.026† | -49.4 | -0.0466775 | mg/L | 0.00772709 | -0.0466775 | mg/L | 0.00772709 | 16.55% |
| Sn 189.927† | -38.6 | -0.0094053 | mg/L | 0.00136800 | -0.0094053 | mg/L | 0.00136800 | 14.55% |
| Ti 334.940† | 6411.6 | 0.0107822 | mg/L | 0.00010724 | 0.0107822 | mg/L | 0.00010724 | 0.99% |
| Tl 190.801† | -37.6 | 0.0137134 | mg/L | 0.00397614 | 0.0137134 | mg/L | 0.00397614 | 28.99% |
| V 290.880† | -1750.0 | -0.0070748 | mg/L | 0.00086192 | -0.0070748 | mg/L | 0.00086192 | 12.18% |
| Zn 206.200† | 419.3 | 0.0112665 | mg/L | 0.00021414 | 0.0112665 | mg/L | 0.00021414 | 1.90% |
| Si 251.611† | 321222.8 | 7.04806 | mg/L | 0.030645 | 7.04806 | mg/L | 0.030645 | 0.43% |
| B 249.772† | 40086.8 | 0.393359 | mg/L | 0.0063145 | 0.393359 | mg/L | 0.0063145 | 1.61% |
| Ce 413.764 | -633.8 | -0.0322679 | mg/L | 0.00077067 | -0.0322679 | mg/L | 0.00077067 | 2.39% |

Sequence No.: 81
Sample ID: AD26083-047
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 84
Date Collected: 9/29/2021 3:39:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-047

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 752659.8 | 92.9 | % | 0.35 | | | | 0.38% |
| Y 371.029 | 789099.3 | 92.8 | % | 0.32 | | | | 0.35% |
| Ag 328.068† | -38.5 | 0.0002071 | mg/L | 0.00029921 | 0.0002071 | mg/L | 0.00029921 | 144.47% |
| Al 308.215† | 1058.2 | 0.0444494 | mg/L | 0.00049563 | 0.0444494 | mg/L | 0.00049563 | 1.12% |
| As 188.979† | 18.1 | 0.0166848 | mg/L | 0.00343269 | 0.0166848 | mg/L | 0.00343269 | 20.57% |
| Ba 233.527† | 3050.6 | 0.0331495 | mg/L | 0.00034484 | 0.0331495 | mg/L | 0.00034484 | 1.04% |
| Be 313.107† | 1965.0 | 0.0042543 | mg/L | 0.00001089 | 0.0042543 | mg/L | 0.00001089 | 0.26% |
| Ca 315.887† | 1222398.1 | 9.12986 | mg/L | 0.040671 | 9.12986 | mg/L | 0.040671 | 0.45% |
| Cd 228.802† | 54.9 | 0.0044554 | mg/L | 0.00019437 | 0.0044554 | mg/L | 0.00019437 | 4.36% |
| Co 228.616† | 142.8 | 0.0051500 | mg/L | 0.00026048 | 0.0051500 | mg/L | 0.00026048 | 5.06% |
| Cr 267.716† | -56.1 | 0.0012060 | mg/L | 0.00028816 | 0.0012060 | mg/L | 0.00028816 | 23.89% |
| Cu 327.393† | 215.5 | 0.0031951 | mg/L | 0.00067321 | 0.0031951 | mg/L | 0.00067321 | 21.07% |
| Fe 273.955† | 342.2 | 0.0196256 | mg/L | 0.00099585 | 0.0196256 | mg/L | 0.00099585 | 5.07% |
| K 404.721† | 2733.8 | 19.4890 | mg/L | 0.70283 | 19.4890 | mg/L | 0.70283 | 3.61% |
| Mg 279.077† | 39647.0 | 1.57514 | mg/L | 0.012373 | 1.57514 | mg/L | 0.012373 | 0.79% |
| Mn 257.610† | 9325.6 | 0.0125079 | mg/L | 0.00017440 | 0.0125079 | mg/L | 0.00017440 | 1.39% |
| Mo 202.031† | 79.6 | 0.0080088 | mg/L | 0.00034915 | 0.0080088 | mg/L | 0.00034915 | 4.36% |
| Na 330.237† | 34972.6 | 25.5177 | mg/L | 0.13499 | 25.5177 | mg/L | 0.13499 | 0.53% |
| Ni 231.604† | 193.9 | 0.0067474 | mg/L | 0.00025652 | 0.0067474 | mg/L | 0.00025652 | 3.80% |
| Pb 220.353† | 47.2 | 0.0137678 | mg/L | 0.00099875 | 0.0137678 | mg/L | 0.00099875 | 7.25% |
| Sb 206.836† | -19.0 | -0.0112284 | mg/L | 0.00297698 | -0.0112284 | mg/L | 0.00297698 | 26.51% |
| Se 196.026† | -14.9 | -0.0131891 | mg/L | 0.00346214 | -0.0131891 | mg/L | 0.00346214 | 26.25% |
| Sn 189.927† | 5.7 | 0.0013694 | mg/L | 0.00131848 | 0.0013694 | mg/L | 0.00131848 | 96.28% |
| Ti 334.940† | 316.7 | 0.0038059 | mg/L | 0.00007441 | 0.0038059 | mg/L | 0.00007441 | 1.96% |
| Tl 190.801† | -12.9 | -0.0110287 | mg/L | 0.00035910 | -0.0110287 | mg/L | 0.00035910 | 3.26% |
| V 290.880† | 388.6 | 0.0059769 | mg/L | 0.00025234 | 0.0059769 | mg/L | 0.00025234 | 4.22% |
| Zn 206.200† | 795.6 | 0.0186805 | mg/L | 0.00019810 | 0.0186805 | mg/L | 0.00019810 | 1.06% |
| Si 251.611† | 125526.0 | 2.69700 | mg/L | 0.002630 | 2.69700 | mg/L | 0.002630 | 0.10% |
| B 249.772† | 1039.6 | 0.0160049 | mg/L | 0.00058353 | 0.0160049 | mg/L | 0.00058353 | 3.65% |
| Ce 413.764 | -422.0 | -0.0281402 | mg/L | 0.00044682 | -0.0281402 | mg/L | 0.00044682 | 1.59% |

Sequence No.: 82
Sample ID: AD26083-003
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 85
Date Collected: 9/29/2021 3:43:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-003

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 734574.6 | 90.7 | % | 0.58 | | | | 0.64% |
| Y 371.029 | 770866.2 | 90.7 | % | 0.55 | | | | 0.61% |
| Ag 328.068† | -97.0 | -0.0000453 | mg/L | 0.00014398 | -0.0000453 | mg/L | 0.00014398 | 317.52% |
| Al 308.215† | 15093.6 | 0.498969 | mg/L | 0.0137234 | 0.498969 | mg/L | 0.0137234 | 2.75% |
| As 188.979† | 15.2 | 0.0145022 | mg/L | 0.00146615 | 0.0145022 | mg/L | 0.00146615 | 10.11% |
| Ba 233.527† | 29391.3 | 0.305852 | mg/L | 0.0026450 | 0.305852 | mg/L | 0.0026450 | 0.86% |
| Be 313.107† | 1822.5 | 0.0042110 | mg/L | 0.00002990 | 0.0042110 | mg/L | 0.00002990 | 0.71% |
| Ca 315.887† | 9587763.3 | 69.7508 | mg/L | 0.10734 | 69.7508 | mg/L | 0.10734 | 0.15% |
| Cd 228.802† | 28.1 | 0.0042759 | mg/L | 0.00022159 | 0.0042759 | mg/L | 0.00022159 | 5.18% |
| Co 228.616† | 146.6 | 0.0059926 | mg/L | 0.00026512 | 0.0059926 | mg/L | 0.00026512 | 4.42% |
| Cr 267.716† | 166.7 | 0.0030967 | mg/L | 0.00027586 | 0.0030967 | mg/L | 0.00027586 | 8.91% |
| Cu 327.393† | 17.4 | 0.0019237 | mg/L | 0.00074306 | 0.0019237 | mg/L | 0.00074306 | 38.63% |
| Fe 273.955† | 34236.0 | 1.14750 | mg/L | 0.023881 | 1.14750 | mg/L | 0.023881 | 2.08% |
| K 404.721† | 375.9 | 2.25269 | mg/L | 0.135171 | 2.25269 | mg/L | 0.135171 | 6.00% |
| Mg 279.077† | 714089.7 | 28.3397 | mg/L | 0.66268 | 28.3397 | mg/L | 0.66268 | 2.34% |
| Mn 257.610† | 103358.0 | 0.125380 | mg/L | 0.0025386 | 0.125380 | mg/L | 0.0025386 | 2.02% |
| Mo 202.031† | 88.9 | 0.0087567 | mg/L | 0.00050489 | 0.0087567 | mg/L | 0.00050489 | 5.77% |
| Na 330.237† | 22862.6 | 17.0462 | mg/L | 0.32813 | 17.0462 | mg/L | 0.32813 | 1.92% |
| Ni 231.604† | 487.3 | 0.0156296 | mg/L | 0.00045306 | 0.0156296 | mg/L | 0.00045306 | 2.90% |
| Pb 220.353† | 45.5 | 0.0144677 | mg/L | 0.00150566 | 0.0144677 | mg/L | 0.00150566 | 10.41% |
| Sb 206.836† | -28.9 | -0.0192067 | mg/L | 0.00147003 | -0.0192067 | mg/L | 0.00147003 | 7.65% |
| Se 196.026† | -22.9 | -0.0209751 | mg/L | 0.00919634 | -0.0209751 | mg/L | 0.00919634 | 43.84% |
| Sn 189.927† | -19.7 | -0.0048099 | mg/L | 0.00131699 | -0.0048099 | mg/L | 0.00131699 | 27.38% |
| Ti 334.940† | 18468.9 | 0.0245832 | mg/L | 0.00058348 | 0.0245832 | mg/L | 0.00058348 | 2.37% |
| Tl 190.801† | -21.4 | -0.0165236 | mg/L | 0.00279413 | -0.0165236 | mg/L | 0.00279413 | 16.91% |
| V 290.880† | 341.6 | 0.0056898 | mg/L | 0.00062040 | 0.0056898 | mg/L | 0.00062040 | 10.90% |
| Zn 206.200† | 1177.6 | 0.0262058 | mg/L | 0.00039883 | 0.0262058 | mg/L | 0.00039883 | 1.52% |
| Si 251.611† | 588303.5 | 12.9844 | mg/L | 0.26468 | 12.9844 | mg/L | 0.26468 | 2.04% |
| B 249.772† | 1137.8 | 0.0126369 | mg/L | 0.00039161 | 0.0126369 | mg/L | 0.00039161 | 3.10% |
| Ce 413.764 | -363.0 | -0.0269907 | mg/L | 0.00104411 | -0.0269907 | mg/L | 0.00104411 | 3.87% |

Sequence No.: 83
Sample ID: AD26083-032 5D
Analyst:
Initial Sample Wt:
Dilution: 10D

Autosampler Location: 86
Date Collected: 9/29/2021 3:47:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-032 5D

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 705411.8 | 87.1 | % | 0.54 | | | | 0.62% |
| Y 371.029 | 729364.1 | 85.8 | % | 0.47 | | | | 0.55% |
| Ag 328.068† | 16.4 | 0.0006752 | mg/L | 0.00030946 | 0.0006752 | mg/L | 0.00030946 | 45.83% |
| Al 308.215† | 1455.9 | 0.0573271 | mg/L | 0.00481690 | 0.0573271 | mg/L | 0.00481690 | 8.40% |
| As 188.979† | 17.2 | 0.0160277 | mg/L | 0.00093463 | 0.0160277 | mg/L | 0.00093463 | 5.83% |
| Ba 233.527† | 475.8 | 0.0064934 | mg/L | 0.00004810 | 0.0064934 | mg/L | 0.00004810 | 0.74% |
| Be 313.107† | 1975.0 | 0.0042574 | mg/L | 0.00002523 | 0.0042574 | mg/L | 0.00002523 | 0.59% |
| Ca 315.887† | 7914008.0 | 57.6217 | mg/L | 0.16002 | 57.6217 | mg/L | 0.16002 | 0.28% |
| Cd 228.802† | 40.2 | 0.0047990 | mg/L | 0.00007576 | 0.0047990 | mg/L | 0.00007576 | 1.58% |
| Co 228.616† | 184.7 | 0.0063910 | mg/L | 0.00027250 | 0.0063910 | mg/L | 0.00027250 | 4.26% |
| Cr 267.716† | -253.2 | -0.0004670 | mg/L | 0.00015001 | -0.0004670 | mg/L | 0.00015001 | 32.12% |
| Cu 327.393† | -769.5 | -0.0052989 | mg/L | 0.00030921 | -0.0052989 | mg/L | 0.00030921 | 5.84% |
| Fe 273.955† | 73822.2 | 2.46479 | mg/L | 0.039899 | 2.46479 | mg/L | 0.039899 | 1.62% |
| K 404.721† | 1356.4 | 9.41980 | mg/L | 1.253376 | 9.41980 | mg/L | 1.253376 | 13.31% |
| Mg 279.077† | 1473135.4 | 58.4617 | mg/L | 0.19743 | 58.4617 | mg/L | 0.19743 | 0.34% |
| Mn 257.610† | 233196.0 | 0.281233 | mg/L | 0.0045635 | 0.281233 | mg/L | 0.0045635 | 1.62% |
| Mo 202.031† | 106.8 | 0.0101022 | mg/L | 0.00024338 | 0.0101022 | mg/L | 0.00024338 | 2.41% |
| Na 330.237† | 792155.1 | 555.202 | mg/L | 7.7343 | 555.202 | mg/L | 7.7343 | 1.39% |
| Ni 231.604† | 336.5 | 0.0110633 | mg/L | 0.00062307 | 0.0110633 | mg/L | 0.00062307 | 5.63% |
| Pb 220.353† | 25.2 | 0.0102169 | mg/L | 0.00137288 | 0.0102169 | mg/L | 0.00137288 | 13.44% |
| Sb 206.836† | -57.4 | -0.0428417 | mg/L | 0.00245381 | -0.0428417 | mg/L | 0.00245381 | 5.73% |
| Se 196.026† | -27.3 | -0.0251090 | mg/L | 0.00403671 | -0.0251090 | mg/L | 0.00403671 | 16.08% |
| Sn 189.927† | -24.4 | -0.0059495 | mg/L | 0.00113815 | -0.0059495 | mg/L | 0.00113815 | 19.13% |
| Ti 334.940† | 491.9 | 0.0040063 | mg/L | 0.00004646 | 0.0040063 | mg/L | 0.00004646 | 1.16% |
| Tl 190.801† | -24.8 | -0.0212867 | mg/L | 0.00424512 | -0.0212867 | mg/L | 0.00424512 | 19.94% |
| V 290.880† | -463.2 | 0.0007783 | mg/L | 0.00071237 | 0.0007783 | mg/L | 0.00071237 | 91.53% |
| Zn 206.200† | 15.9 | 0.0033201 | mg/L | 0.00010502 | 0.0033201 | mg/L | 0.00010502 | 3.16% |
| Si 251.611† | 56933.3 | 1.17339 | mg/L | 0.018736 | 1.17339 | mg/L | 0.018736 | 1.60% |
| B 249.772† | 13044.6 | 0.125276 | mg/L | 0.0012607 | 0.125276 | mg/L | 0.0012607 | 1.01% |
| Ce 413.764 | -432.1 | -0.0283365 | mg/L | 0.00066577 | -0.0283365 | mg/L | 0.00066577 | 2.35% |

Sequence No.: 84
Sample ID: AD26083-036 5R
Analyst:
Initial Sample Wt: 100 cyr
Dilution:

Autosampler Location: 87
Date Collected: 9/29/2021 3:51:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-036 5D

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 701551.5 | 86.6 | % | 0.87 | | | | 1.00% |
| Y 371.029 | 727774.8 | 85.6 | % | 0.77 | | | | 0.90% |
| Ag 328.068† | -8.8 | 0.0004026 | mg/L | 0.00021037 | 0.0004026 | mg/L | 0.00021037 | 52.25% |
| Al 308.215† | 3421.0 | 0.120964 | mg/L | 0.0043189 | 0.120964 | mg/L | 0.0043189 | 3.57% |
| As 188.979† | 17.5 | 0.0162255 | mg/L | 0.00036063 | 0.0162255 | mg/L | 0.00036063 | 2.22% |
| Ba 233.527† | 247.0 | 0.0041240 | mg/L | 0.00005580 | 0.0041240 | mg/L | 0.00005580 | 1.35% |
| Be 313.107† | 2095.5 | 0.0042940 | mg/L | 0.00003031 | 0.0042940 | mg/L | 0.00003031 | 0.71% |
| Ca 315.887† | 14374283.0 | 104.437 | mg/L | 0.5114 | 104.437 | mg/L | 0.5114 | 0.49% |
| Cd 228.802† | 63.2 | 0.0047756 | mg/L | 0.00010870 | 0.0047756 | mg/L | 0.00010870 | 2.28% |
| Co 228.616† | 200.9 | 0.0068818 | mg/L | 0.00031525 | 0.0068818 | mg/L | 0.00031525 | 4.58% |
| Cr 267.716† | -140.2 | 0.0004919 | mg/L | 0.00054021 | 0.0004919 | mg/L | 0.00054021 | 109.83% |
| Cu 327.393† | -906.3 | -0.0056295 | mg/L | 0.00069040 | -0.0056295 | mg/L | 0.00069040 | 12.26% |
| Fe 273.955† | 14127.6 | 0.478356 | mg/L | 0.0087964 | 0.478356 | mg/L | 0.0087964 | 1.84% |
| K 404.721† | 1093.3 | 7.49716 | mg/L | 0.522125 | 7.49716 | mg/L | 0.522125 | 6.96% |
| Mg 279.077† | 882523.2 | 35.0239 | mg/L | 0.28198 | 35.0239 | mg/L | 0.28198 | 0.81% |
| Mn 257.610† | 531797.2 | 0.639661 | mg/L | 0.0042294 | 0.639661 | mg/L | 0.0042294 | 0.66% |
| Mo 202.031† | 121.2 | 0.0112116 | mg/L | 0.00060781 | 0.0112116 | mg/L | 0.00060781 | 5.42% |
| Na 330.237† | 409003.9 | 287.170 | mg/L | 1.7234 | 287.170 | mg/L | 1.7234 | 0.60% |
| Ni 231.604† | 329.4 | 0.0108494 | mg/L | 0.00051021 | 0.0108494 | mg/L | 0.00051021 | 4.70% |
| Pb 220.353† | 33.9 | 0.0116183 | mg/L | 0.00097973 | 0.0116183 | mg/L | 0.00097973 | 8.43% |
| Sb 206.836† | -45.9 | -0.0333525 | mg/L | 0.00369589 | -0.0333525 | mg/L | 0.00369589 | 11.08% |
| Se 196.026† | -25.0 | -0.0229972 | mg/L | 0.00494778 | -0.0229972 | mg/L | 0.00494778 | 21.51% |
| Sn 189.927† | -22.5 | -0.0054895 | mg/L | 0.00244696 | -0.0054895 | mg/L | 0.00244696 | 44.57% |
| Ti 334.940† | 4180.8 | 0.0082287 | mg/L | 0.00092387 | 0.0082287 | mg/L | 0.00092387 | 11.23% |
| Tl 190.801† | -23.2 | -0.0162223 | mg/L | 0.00289117 | -0.0162223 | mg/L | 0.00289117 | 17.82% |
| V 290.880† | -28.6 | 0.0034307 | mg/L | 0.00029134 | 0.0034307 | mg/L | 0.00029134 | 8.49% |
| Zn 206.200† | 26.4 | 0.0035260 | mg/L | 0.00003225 | 0.0035260 | mg/L | 0.00003225 | 0.91% |
| Si 251.611† | 44763.7 | 0.901980 | mg/L | 0.0065148 | 0.901980 | mg/L | 0.0065148 | 0.72% |
| B 249.772† | 3481.8 | 0.0383833 | mg/L | 0.00078560 | 0.0383833 | mg/L | 0.00078560 | 2.05% |
| Ce 413.764 | -469.7 | -0.0290690 | mg/L | 0.00083964 | -0.0290690 | mg/L | 0.00083964 | 2.89% |

Sequence No.: 85
Sample ID: AD26083-037 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 88
Date Collected: 9/29/2021 3:55:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-037 SD

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 712531.3 | 88.0 | % | 0.76 | | | | 0.87% |
| Y 371.029 | 736718.2 | 86.7 | % | 1.01 | | | | 1.16% |
| Ag 328.068† | -31.9 | 0.0002565 | mg/L | 0.00058021 | 0.0002565 | mg/L | 0.00058021 | 226.24% |
| Al 308.215† | 1089.3 | 0.0454559 | mg/L | 0.00157477 | 0.0454559 | mg/L | 0.00157477 | 3.46% |
| As 188.979† | 17.5 | 0.0162074 | mg/L | 0.00284750 | 0.0162074 | mg/L | 0.00284750 | 17.57% |
| Ba 233.527† | 152.5 | 0.0031461 | mg/L | 0.00003699 | 0.0031461 | mg/L | 0.00003699 | 1.18% |
| Be 313.107† | 1898.7 | 0.0042342 | mg/L | 0.00003151 | 0.0042342 | mg/L | 0.00003151 | 0.74% |
| Ca 315.887† | 11370051.4 | 82.6664 | mg/L | 0.93949 | 82.6664 | mg/L | 0.93949 | 1.14% |
| Cd 228.802† | 75.2 | 0.0049481 | mg/L | 0.00018667 | 0.0049481 | mg/L | 0.00018667 | 3.77% |
| Co 228.616† | 171.7 | 0.0059717 | mg/L | 0.00015139 | 0.0059717 | mg/L | 0.00015139 | 2.54% |
| Cr 267.716† | -136.7 | 0.0005218 | mg/L | 0.00013246 | 0.0005218 | mg/L | 0.00013246 | 25.39% |
| Cu 327.393† | -812.7 | -0.0050060 | mg/L | 0.00059293 | -0.0050060 | mg/L | 0.00059293 | 11.84% |
| Fe 273.955† | 6203.3 | 0.214661 | mg/L | 0.0012112 | 0.214661 | mg/L | 0.0012112 | 0.56% |
| K 404.721† | 829.3 | 5.56659 | mg/L | 1.524303 | 5.56659 | mg/L | 1.524303 | 27.38% |
| Mg 279.077† | 694427.3 | 27.5595 | mg/L | 0.34304 | 27.5595 | mg/L | 0.34304 | 1.24% |
| Mn 257.610† | 408854.9 | 0.492086 | mg/L | 0.0049213 | 0.492086 | mg/L | 0.0049213 | 1.00% |
| Mo 202.031† | 98.5 | 0.0094643 | mg/L | 0.00028841 | 0.0094643 | mg/L | 0.00028841 | 3.05% |
| Na 330.237† | 315861.3 | 222.013 | mg/L | 2.1825 | 222.013 | mg/L | 2.1825 | 0.98% |
| Ni 231.604† | 305.1 | 0.0101129 | mg/L | 0.00047772 | 0.0101129 | mg/L | 0.00047772 | 4.72% |
| Pb 220.353† | 29.6 | 0.0102601 | mg/L | 0.00049764 | 0.0102601 | mg/L | 0.00049764 | 4.85% |
| Sb 206.836† | -39.8 | -0.0283354 | mg/L | 0.00361495 | -0.0283354 | mg/L | 0.00361495 | 12.76% |
| Se 196.026† | -20.4 | -0.0185324 | mg/L | 0.00821023 | -0.0185324 | mg/L | 0.00821023 | 44.30% |
| Sn 189.927† | -22.9 | -0.0055952 | mg/L | 0.00093457 | -0.0055952 | mg/L | 0.00093457 | 16.70% |
| Ti 334.940† | 619.1 | 0.0041519 | mg/L | 0.00010420 | 0.0041519 | mg/L | 0.00010420 | 2.51% |
| Tl 190.801† | -23.5 | -0.0180479 | mg/L | 0.00263339 | -0.0180479 | mg/L | 0.00263339 | 14.59% |
| V 290.880† | 60.6 | 0.0039752 | mg/L | 0.00027946 | 0.0039752 | mg/L | 0.00027946 | 7.03% |
| Zn 206.200† | -9.0 | 0.0028299 | mg/L | 0.00010625 | 0.0028299 | mg/L | 0.00010625 | 3.75% |
| Si 251.611† | 29886.3 | 0.571157 | mg/L | 0.0089888 | 0.571157 | mg/L | 0.0089888 | 1.57% |
| B 249.772† | 2237.5 | 0.0270975 | mg/L | 0.00009191 | 0.0270975 | mg/L | 0.00009191 | 0.34% |
| Ce 413.764 | -459.6 | -0.0288727 | mg/L | 0.00197957 | -0.0288727 | mg/L | 0.00197957 | 6.86% |

Sequence No.: 86
Sample ID: AD26174-001
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 104
Date Collected: 9/29/2021 3:59:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26174-001

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 984202.2 | 121 | % | 4.4 | | | | 3.61% |
| Y 371.029 | 1072786.9 | 126 | % | 4.2 | | | | 3.36% |
| Ag 328.068† | -5203.9 | -0.0096205 | mg/L | 0.00026730 | -0.0096205 | mg/L | 0.00026730 | 2.78% |
| Al 308.215† | 6659984.6 | 215.686 | mg/L | 8.1811 | 215.686 | mg/L | 8.1811 | 3.79% |
| As 188.979† | 61.4 | 0.0335870 | mg/L | 0.00289178 | 0.0335870 | mg/L | 0.00289178 | 8.61% |
| Ba 233.527† | 158167.5 | 1.63906 | mg/L | 0.076459 | 1.63906 | mg/L | 0.076459 | 4.66% |
| Be 313.107† | 53682.4 | 0.0199668 | mg/L | 0.00078633 | 0.0199668 | mg/L | 0.00078633 | 3.94% |
| Ca 315.887† | 9002497.0 | 65.5096 | mg/L | 2.50340 | 65.5096 | mg/L | 2.50340 | 3.82% |
| Cd 228.802† | -2801.6 | 0.0178037 | mg/L | 0.00042328 | 0.0178037 | mg/L | 0.00042328 | 2.38% |
| Co 228.616† | 8258.6 | 0.247664 | mg/L | 0.0100079 | 0.247664 | mg/L | 0.0100079 | 4.04% |
| Cr 267.716† | 24925.4 | 0.213189 | mg/L | 0.0091277 | 0.213189 | mg/L | 0.0091277 | 4.28% |
| Cu 327.393† | 58149.8 | 0.498506 | mg/L | 0.0194245 | 0.498506 | mg/L | 0.0194245 | 3.90% |
| Fe 273.955† | 8492707.9 | 282.617 | mg/L | 10.7065 | 282.617 | mg/L | 10.7065 | 3.79% |
| K 404.721† | 1042.2 | 7.12314 | mg/L | 1.711444 | 7.12314 | mg/L | 1.711444 | 24.03% |
| Mg 279.077† | 1247719.5 | 49.5163 | mg/L | 2.25317 | 49.5163 | mg/L | 2.25317 | 4.55% |
| Mn 257.610† | 17231602.2 | 20.6854 | mg/L | 0.78569 | 20.6854 | mg/L | 0.78569 | 3.80% |
| Mo 202.031† | 116.9 | 0.0275431 | mg/L | 0.00167696 | 0.0275431 | mg/L | 0.00167696 | 6.09% |
| Na 330.237† | 87939.5 | 62.5705 | mg/L | 2.80643 | 62.5705 | mg/L | 2.80643 | 4.49% |
| Ni 231.604† | 7088.3 | 0.215416 | mg/L | 0.0101237 | 0.215416 | mg/L | 0.0101237 | 4.70% |
| Pb 220.353† | 268.2 | 0.171562 | mg/L | 0.0034330 | 0.171562 | mg/L | 0.0034330 | 2.00% |
| Sb 206.836† | -147.0 | -0.0442445 | mg/L | 0.00789932 | -0.0442445 | mg/L | 0.00789932 | 17.85% |
| Se 196.026† | -122.5 | -0.135763 | mg/L | 0.0094613 | -0.135763 | mg/L | 0.0094613 | 6.97% |
| Sn 189.927† | -41.1 | -0.0100101 | mg/L | 0.00242261 | -0.0100101 | mg/L | 0.00242261 | 24.20% |
| Ti 334.940† | 5744610.3 | 6.57884 | mg/L | 0.317259 | 6.57884 | mg/L | 0.317259 | 4.82% |
| Tl 190.801† | -13.7 | 0.0116714 | mg/L | 0.00546468 | 0.0116714 | mg/L | 0.00546468 | 46.82% |
| V 290.880† | 102178.1 | 0.627196 | mg/L | 0.0303833 | 0.627196 | mg/L | 0.0303833 | 4.84% |
| Zn 206.200† | 35373.0 | 0.699855 | mg/L | 0.0335016 | 0.699855 | mg/L | 0.0335016 | 4.79% |
| Si 251.611† | 3376277.3 | 75.0837 | mg/L | 3.50953 | 75.0837 | mg/L | 3.50953 | 4.67% |
| B 249.772† | 173223.2 | 0.630940 | mg/L | 0.0397748 | 0.630940 | mg/L | 0.0397748 | 6.30% |
| Ce 413.764 | 32452.1 | 0.612681 | mg/L | 0.0066676 | 0.612681 | mg/L | 0.0066676 | 1.09% |

Sequence No.: 87
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 4:05:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 741175.4 | 91.5 | % | 0.31 | | | | 0.34% |
| Y 371.029 | 774470.9 | 91.1 | % | 0.33 | | | | 0.36% |
| Ag 328.068† | 17586.4 | 0.0995375 | mg/L | 0.00213140 | 0.0995375 | mg/L | 0.00213140 | 2.14% |
| QC value within limits for Ag 328.068 Recovery = 99.54% | | | | | | | | |
| Al 308.215† | 154063.4 | 4.99935 | mg/L | 0.092926 | 4.99935 | mg/L | 0.092926 | 1.86% |
| QC value within limits for Al 308.215 Recovery = 99.99% | | | | | | | | |
| As 188.979† | 687.4 | 0.508831 | mg/L | 0.0091165 | 0.508831 | mg/L | 0.0091165 | 1.79% |
| QC value within limits for As 188.979 Recovery = 101.77% | | | | | | | | |
| Ba 233.527† | 47018.9 | 0.488349 | mg/L | 0.0089304 | 0.488349 | mg/L | 0.0089304 | 1.83% |
| QC value within limits for Ba 233.527 Recovery = 97.67% | | | | | | | | |
| Be 313.107† | 1581536.3 | 0.484152 | mg/L | 0.0023697 | 0.484152 | mg/L | 0.0023697 | 0.49% |
| QC value within limits for Be 313.107 Recovery = 96.83% | | | | | | | | |
| Ca 315.887† | 6756720.8 | 49.2352 | mg/L | 0.23188 | 49.2352 | mg/L | 0.23188 | 0.47% |
| QC value within limits for Ca 315.887 Recovery = 98.47% | | | | | | | | |
| Cd 228.802† | 24818.4 | 0.512221 | mg/L | 0.0046823 | 0.512221 | mg/L | 0.0046823 | 0.91% |
| QC value within limits for Cd 228.802 Recovery = 102.44% | | | | | | | | |
| Co 228.616† | 15677.7 | 0.492739 | mg/L | 0.0042717 | 0.492739 | mg/L | 0.0042717 | 0.87% |
| QC value within limits for Co 228.616 Recovery = 98.55% | | | | | | | | |
| Cr 267.716† | 58267.6 | 0.496118 | mg/L | 0.0085695 | 0.496118 | mg/L | 0.0085695 | 1.73% |
| QC value within limits for Cr 267.716 Recovery = 99.22% | | | | | | | | |
| Cu 327.393† | 58216.7 | 0.498887 | mg/L | 0.0086843 | 0.498887 | mg/L | 0.0086843 | 1.74% |
| QC value within limits for Cu 327.393 Recovery = 99.78% | | | | | | | | |
| Fe 273.955† | 146457.0 | 4.88183 | mg/L | 0.095084 | 4.88183 | mg/L | 0.095084 | 1.95% |
| QC value within limits for Fe 273.955 Recovery = 97.64% | | | | | | | | |
| K 404.721† | 6631.6 | 47.9829 | mg/L | 1.71820 | 47.9829 | mg/L | 1.71820 | 3.58% |
| QC value within limits for K 404.721 Recovery = 95.97% | | | | | | | | |
| Mg 279.077† | 1234942.9 | 49.0093 | mg/L | 0.30379 | 49.0093 | mg/L | 0.30379 | 0.62% |
| QC value within limits for Mg 279.077 Recovery = 98.02% | | | | | | | | |
| Mn 257.610† | 406832.6 | 0.489659 | mg/L | 0.0093765 | 0.489659 | mg/L | 0.0093765 | 1.91% |
| QC value within limits for Mn 257.610 Recovery = 97.93% | | | | | | | | |
| Mo 202.031† | 6269.1 | 0.484332 | mg/L | 0.0030577 | 0.484332 | mg/L | 0.0030577 | 0.63% |
| QC value within limits for Mo 202.031 Recovery = 96.87% | | | | | | | | |
| Na 330.237† | 68360.4 | 48.8740 | mg/L | 0.74724 | 48.8740 | mg/L | 0.74724 | 1.53% |
| QC value within limits for Na 330.237 Recovery = 97.75% | | | | | | | | |
| Ni 231.604† | 16247.3 | 0.492624 | mg/L | 0.0051636 | 0.492624 | mg/L | 0.0051636 | 1.05% |
| QC value within limits for Ni 231.604 Recovery = 98.52% | | | | | | | | |
| Pb 220.353† | 2108.6 | 0.533476 | mg/L | 0.0078767 | 0.533476 | mg/L | 0.0078767 | 1.48% |
| QC value within limits for Pb 220.353 Recovery = 106.70% | | | | | | | | |
| Sb 206.836† | 569.8 | 0.478695 | mg/L | 0.0042887 | 0.478695 | mg/L | 0.0042887 | 0.90% |
| QC value within limits for Sb 206.836 Recovery = 95.74% | | | | | | | | |
| Se 196.026† | 473.4 | 0.461567 | mg/L | 0.0111342 | 0.461567 | mg/L | 0.0111342 | 2.41% |
| QC value within limits for Se 196.026 Recovery = 92.31% | | | | | | | | |
| Sn 189.927† | 2061.3 | 0.501124 | mg/L | 0.0048556 | 0.501124 | mg/L | 0.0048556 | 0.97% |
| QC value within limits for Sn 189.927 Recovery = 100.22% | | | | | | | | |
| Ti 334.940† | 426107.6 | 0.491174 | mg/L | 0.0089589 | 0.491174 | mg/L | 0.0089589 | 1.82% |
| QC value within limits for Ti 334.940 Recovery = 98.23% | | | | | | | | |
| Tl 190.801† | 430.3 | 0.498833 | mg/L | 0.0043214 | 0.498833 | mg/L | 0.0043214 | 0.87% |
| QC value within limits for Tl 190.801 Recovery = 99.77% | | | | | | | | |
| V 290.880† | 80142.0 | 0.492710 | mg/L | 0.0097460 | 0.492710 | mg/L | 0.0097460 | 1.98% |
| QC value within limits for V 290.880 Recovery = 98.54% | | | | | | | | |
| Zn 206.200† | 24313.0 | 0.481972 | mg/L | 0.0056625 | 0.481972 | mg/L | 0.0056625 | 1.17% |
| QC value within limits for Zn 206.200 Recovery = 96.39% | | | | | | | | |
| Si 251.611† | 222447.5 | 4.85361 | mg/L | 0.101346 | 4.85361 | mg/L | 0.101346 | 2.09% |
| QC value within limits for Si 251.611 Recovery = 97.07% | | | | | | | | |
| B 249.772† | 45834.5 | 0.440128 | mg/L | 0.0088438 | 0.440128 | mg/L | 0.0088438 | 2.01% |
| QC value less than the lower limit for B 249.772 Recovery = 88.03% | | | | | | | | |
| Ce 413.764 | 25793.9 | 0.482893 | mg/L | 0.0077414 | 0.482893 | mg/L | 0.0077414 | 1.60% |
| QC value within limits for Ce 413.764 Recovery = 96.58% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 88
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/29/2021 4:10:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 776160.3 | 95.8 | % | 2.75 | | | | 2.87% |
| Y 371.029 | 830950.1 | 97.8 | % | 2.71 | | | | 2.77% |
| Ag 328.068† | -18.9 | 0.0003165 | mg/L | 0.00047556 | 0.0003165 | mg/L | 0.00047556 | 150.27% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 262.3 | 0.0186755 | mg/L | 0.01317437 | 0.0186755 | mg/L | 0.01317437 | 70.54% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 15.8 | 0.0150023 | mg/L | 0.00121047 | 0.0150023 | mg/L | 0.00121047 | 8.07% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -120.2 | 0.0003226 | mg/L | 0.00042636 | 0.0003226 | mg/L | 0.00042636 | 132.15% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 2055.2 | 0.0042817 | mg/L | 0.00003404 | 0.0042817 | mg/L | 0.00003404 | 0.80% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 182.8 | 0.272888 | mg/L | 0.0014214 | 0.272888 | mg/L | 0.0014214 | 0.52% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 66.7 | 0.0046853 | mg/L | 0.00010676 | 0.0046853 | mg/L | 0.00010676 | 2.28% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 150.2 | 0.0052912 | mg/L | 0.00029261 | 0.0052912 | mg/L | 0.00029261 | 5.53% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -10.5 | 0.0015929 | mg/L | 0.00057447 | 0.0015929 | mg/L | 0.00057447 | 36.07% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 341.6 | 0.0041836 | mg/L | 0.00157456 | 0.0041836 | mg/L | 0.00157456 | 37.64% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -102.6 | 0.0048213 | mg/L | 0.00147205 | 0.0048213 | mg/L | 0.00147205 | 30.53% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 215.9 | 1.08278 | mg/L | 1.813593 | 1.08278 | mg/L | 1.813593 | 167.49% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 206.8 | 0.0099995 | mg/L | 0.00275460 | 0.0099995 | mg/L | 0.00275460 | 27.55% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 393.4 | 0.0017860 | mg/L | 0.00006833 | 0.0017860 | mg/L | 0.00006833 | 3.83% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 48.8 | 0.0056375 | mg/L | 0.00081611 | 0.0056375 | mg/L | 0.00081611 | 14.48% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 180.3 | 1.17880 | mg/L | 0.058078 | 1.17880 | mg/L | 0.058078 | 4.93% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 173.6 | 0.0061351 | mg/L | 0.00067390 | 0.0061351 | mg/L | 0.00067390 | 10.98% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 50.1 | 0.0144208 | mg/L | 0.00215080 | 0.0144208 | mg/L | 0.00215080 | 14.91% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -9.2 | -0.0031754 | mg/L | 0.00827645 | -0.0031754 | mg/L | 0.00827645 | 260.64% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -16.9 | -0.0151437 | mg/L | 0.00461927 | -0.0151437 | mg/L | 0.00461927 | 30.50% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 2.5 | 0.0005831 | mg/L | 0.00096232 | 0.0005831 | mg/L | 0.00096232 | 165.03% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 278.8 | 0.0037624 | mg/L | 0.00017417 | 0.0037624 | mg/L | 0.00017417 | 4.63% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -8.5 | -0.0065518 | mg/L | 0.00401485 | -0.0065518 | mg/L | 0.00401485 | 61.28% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 381.7 | 0.0059345 | mg/L | 0.00103183 | 0.0059345 | mg/L | 0.00103183 | 17.39% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -39.0 | 0.0022383 | mg/L | 0.00007255 | 0.0022383 | mg/L | 0.00007255 | 3.24% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 439.9 | -0.0834868 | mg/L | 0.00117766 | -0.0834868 | mg/L | 0.00117766 | 1.41% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -684.2 | -0.0009785 | mg/L | 0.00105628 | -0.0009785 | mg/L | 0.00105628 | 107.95% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -368.9 | -0.0271041 | mg/L | 0.00097628 | -0.0271041 | mg/L | 0.00097628 | 3.60% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method: PE5 AVIO500 SW846 RD Page 1 Date: 9/28/2021 5:23:48 PM

SW27669B5 27669/27670

SW846 GA 9/29/21

Analysis Begun

Start Time: 9/28/2021 5:21:13 PM
Originator: usemet
Spectrometer: Avio 500, S/N 081S2010191

Plasma On Time: 9/28/2021 9:31:00 AM
Technique: ICP Continuous
Autosampler: S23

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\09.28.21.sifx
Results Data Set: SW27669B5
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

10/6/21

Batch ID:
Sequence No.: 1
Sample ID: CALBLK V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location: 1
Date Collected: 9/28/2021 5:21:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-352951

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 44675.5 | 1581.79 | 3.54% | 100 | % |
| Y 371.029 | 13489.5 | 516.03 | 3.83% | 100 | % |
| Al 308.215† | -41.1 | 11.19 | 27.20% | [0.00] | mg/L |
| Ba 233.527† | 8.2 | 3.88 | 47.51% | [0.00] | mg/L |
| Ca 315.887† | 72.2 | 30.30 | 41.96% | [0.00] | mg/L |
| Cu 327.393† | -11.3 | 26.01 | 229.83% | [0.00] | mg/L |
| Fe 273.955† | 21.5 | 2.95 | 13.69% | [0.00] | mg/L |
| K 766.490† | 1175.2 | 62.76 | 5.34% | [0.00] | mg/L |
| Mg 279.077† | -2.9 | 15.40 | 536.94% | [0.00] | mg/L |
| Mn 257.610† | -4.7 | 4.39 | 94.19% | [0.00] | mg/L |
| Mo 202.031† | -0.5 | 3.25 | 635.57% | [0.00] | mg/L |
| Na 589.592† | 12128.2 | 256.71 | 2.12% | [0.00] | mg/L |
| Ni 231.604† | 45.9 | 6.63 | 14.43% | [0.00] | mg/L |
| Se 196.026† | -13.7 | 6.92 | 50.43% | [0.00] | mg/L |
| Sn 189.927† | 5.1 | 1.83 | 35.68% | [0.00] | mg/L |
| Ti 334.940† | -490.1 | 39.11 | 7.98% | [0.00] | mg/L |
| V 290.880† | 105.8 | 13.85 | 13.09% | [0.00] | mg/L |
| Zn 206.200† | 4.7 | 2.33 | 49.27% | [0.00] | mg/L |
| Si 251.611† | 218.3 | 8.31 | 3.81% | [0.00] | mg/L |
| B 249.772† | 15.1 | 7.24 | 47.85% | [0.00] | mg/L |
| Ce 413.764† | 136.5 | 14.61 | 10.70% | [0.00] | mg/L |

27670/94428

Al, Na K Reported

26083-040, -042, -044 tQC

Na NOT Reported

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 2
Autosampler Location: 5
Sample ID: CALST2 V-352961
Date Collected: 9/28/2021 5:25:08 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST2 V-352961

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 46400.2 | 231.76 | 0.50% | 104 | % |
| Y 371.029 | 13795.6 | 76.74 | 0.56% | 102 | % |
| Al 308.215† | 178.2 | 7.62 | 4.28% | [0.2] | mg/L |
| Ba 233.527† | 247.6 | 2.83 | 1.14% | [0.050] | mg/L |
| Ca 315.887† | 26659.6 | 36.05 | 0.14% | [5] | mg/L |
| Cu 327.393† | 232.6 | 27.24 | 11.71% | [0.050] | mg/L |
| Fe 273.955† | 363.5 | 7.74 | 2.13% | [0.30] | mg/L |
| K 766.490† | 9061.6 | 50.81 | 0.56% | [5] | mg/L |
| Mg 279.077† | 3390.9 | 19.41 | 0.57% | [5.0] | mg/L |
| Mn 257.610† | 1218.0 | 10.08 | 0.83% | [0.040] | mg/L |
| Mo 202.031† | 29.5 | 1.16 | 3.92% | [0.020] | mg/L |
| Na 589.592† | 47130.8 | 189.08 | 0.40% | [5] | mg/L |
| Ni 231.604† | 102.8 | 4.26 | 4.15% | [0.050] | mg/L |
| Se 196.026† | 18.6 | 0.21 | 1.11% | [0.050] | mg/L |
| Sn 189.927† | 13.5 | 4.60 | 34.00% | [0.050] | mg/L |
| Ti 334.940† | 2266.5 | 10.19 | 0.45% | [0.050] | mg/L |
| V 290.880† | 383.5 | 5.53 | 1.44% | [0.050] | mg/L |
| Zn 206.200† | 190.4 | 6.42 | 3.37% | [0.050] | mg/L |
| Si 251.611† | 1178.1 | 16.62 | 1.41% | [0.2] | mg/L |
| B 249.772† | 1445.8 | 10.76 | 0.74% | [0.20] | mg/L |
| Ce 413.764† | 874.3 | 31.65 | 3.62% | [0.2] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 3 Autosampler Location: 3
Sample ID: CALST3 V-352955 Date Collected: 9/28/2021 5:29:01 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST3 V-352955

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 44821.6 | 292.36 | 0.65% | 100 | % |
| Y 371.029 | 13349.3 | 58.73 | 0.44% | 99.0 | % |
| Al 308.215† | 4612.8 | 14.91 | 0.32% | [5.0] | mg/L |
| Ba 233.527† | 2362.7 | 26.66 | 1.13% | [0.50] | mg/L |
| Ca 315.887† | 266143.0 | 2045.43 | 0.77% | [50] | mg/L |
| Cu 327.393† | 2308.4 | 8.41 | 0.36% | [0.50] | mg/L |
| Fe 273.955† | 5933.0 | 27.84 | 0.47% | [5.0] | mg/L |
| K 766.490† | 91717.7 | 786.19 | 0.86% | [50] | mg/L |
| Mg 279.077† | 32959.8 | 32.78 | 0.10% | [50] | mg/L |
| Mn 257.610† | 15196.9 | 45.91 | 0.30% | [0.50] | mg/L |
| Mo 202.031† | 724.4 | 6.50 | 0.90% | [0.50] | mg/L |
| Na 589.592† | 473907.1 | 4788.38 | 1.01% | [50] | mg/L |
| Ni 231.604† | 999.3 | 5.15 | 0.52% | [0.50] | mg/L |
| Se 196.026† | 143.5 | 7.31 | 5.10% | [0.50] | mg/L |
| Sn 189.927† | 166.9 | 3.69 | 2.21% | [0.50] | mg/L |
| Ti 334.940† | 22627.2 | 111.89 | 0.49% | [0.50] | mg/L |
| V 290.880† | 4255.3 | 19.85 | 0.47% | [0.50] | mg/L |
| Zn 206.200† | 1917.3 | 16.90 | 0.88% | [0.50] | mg/L |
| Si 251.611† | 13635.7 | 50.22 | 0.37% | [5] | mg/L |
| B 249.772† | 3509.9 | 26.58 | 0.76% | [0.50] | mg/L |
| Ce 413.764† | 2255.8 | 5.69 | 0.25% | [0.5] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 4 Autosampler Location: 4
Sample ID: CALST4 V-352956 Date Collected: 9/28/2021 5:33:08 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST4 V-352956

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 44967.6 | 40.15 | 0.09% | 101 | % |
| Y 371.029 | 13080.6 | 42.32 | 0.32% | 97.0 | % |
| Al 308.215† | 9109.3 | 34.17 | 0.38% | [10] | mg/L |
| Ba 233.527† | 4679.4 | 29.12 | 0.62% | [1.0] | mg/L |
| Ca 315.887† | 525824.2 | 2124.14 | 0.40% | [100] | mg/L |
| Cu 327.393† | 4550.0 | 9.75 | 0.21% | [1.0] | mg/L |
| Fe 273.955† | 11632.4 | 49.81 | 0.43% | [10] | mg/L |
| K 766.490† | 184199.3 | 580.73 | 0.32% | [100] | mg/L |
| Mg 279.077† | 65070.0 | 131.09 | 0.20% | [100] | mg/L |
| Mn 257.610† | 29762.5 | 60.95 | 0.20% | [1.0] | mg/L |
| Mo 202.031† | 1427.3 | 2.69 | 0.19% | [1.0] | mg/L |
| Na 589.592† | 936756.0 | 3203.65 | 0.34% | [100] | mg/L |
| Ni 231.604† | 1944.8 | 6.06 | 0.31% | [1.0] | mg/L |
| Se 196.026† | 287.2 | 3.13 | 1.09% | [1.0] | mg/L |
| Sn 189.927† | 329.2 | 3.60 | 1.09% | [1.0] | mg/L |
| Ti 334.940† | 44774.3 | 85.54 | 0.19% | [1.0] | mg/L |
| V 290.880† | 8216.8 | 36.89 | 0.45% | [1.0] | mg/L |
| Zn 206.200† | 3765.9 | 13.72 | 0.36% | [1.0] | mg/L |
| Si 251.611† | 26753.5 | 65.19 | 0.24% | [10] | mg/L |
| B 249.772† | 6936.9 | 18.46 | 0.27% | [1.0] | mg/L |
| Ce 413.764† | 4319.7 | 6.29 | 0.15% | [1] | mg/L |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| Al 308.215 | 3 | Lin, Calc Int | 8.8 | 912.2 | 0.00000 | 0.999977 | |
| Ba 233.527 | 3 | Lin, Calc Int | 10.4 | 4676 | 0.00000 | 0.999987 | |
| Ca 315.887 | 3 | Lin, Calc Int | 757.6 | 5262 | 0.00000 | 0.999980 | |
| Cu 327.393 | 3 | Lin, Calc Int | 8.4 | 4553 | 0.00000 | 0.999972 | |
| Fe 273.955 | 3 | Lin, Calc Int | 27.9 | 1165 | 0.00000 | 0.999948 | |
| K 766.490 | 3 | Lin, Calc Int | -136.8 | 1842 | 0.00000 | 0.999998 | |
| Mg 279.077 | 3 | Lin, Calc Int | 139.7 | 650.7 | 0.00000 | 0.999978 | |
| Mn 257.610 | 3 | Lin, Calc Int | 70.1 | 29800 | 0.00000 | 0.999940 | |
| Mo 202.031 | 3 | Lin, Calc Int | 2.4 | 1429 | 0.00000 | 0.999971 | |
| Na 589.592 | 3 | Lin, Calc Int | 1144.6 | 9376 | 0.00000 | 0.999981 | |
| Ni 231.604 | 3 | Lin, Calc Int | 7.4 | 1947 | 0.00000 | 0.999901 | |
| Se 196.026 | 3 | Lin, Calc Int | 1.9 | 285.0 | 0.00000 | 0.999901 | |
| Sn 189.927 | 3 | Lin, Calc Int | -0.9 | 331.1 | 0.00000 | 0.999920 | |
| Ti 334.940 | 3 | Lin, Calc Int | 56.5 | 44800 | 0.00000 | 0.999985 | |
| V 290.880 | 3 | Lin, Calc Int | 14.6 | 8256 | 0.00000 | 0.999801 | |
| Zn 206.200 | 3 | Lin, Calc Int | 7.3 | 3771 | 0.00000 | 0.999955 | |
| Si 251.611 | 3 | Lin, Calc Int | 338.7 | 2646 | 0.00000 | 0.999769 | |
| B 249.772 | 3 | Lin, Calc Int | 32.5 | 6919 | 0.00000 | 0.999955 | |
| Ce 413.764 | 3 | Lin, Calc Int | 22.9 | 4328 | 0.00000 | 0.999697 | |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 5
Autosampler Location: 6
Sample ID: ICV V-352960
Date Collected: 9/28/2021 5:37:19 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 45070.5 | 101 | % | 0.94 | 101 | % | 0.94 | 0.93% |
| Y 371.029 | 13349.5 | 99.0 | % | 1.20 | 99.0 | % | 1.20 | 1.21% |
| Al 308.215† | 4494.4 | 4.94812 | mg/L | 0.067828 | 4.94812 | mg/L | 0.067828 | 1.37% |
| QC value within limits for Al 308.215 Recovery = 98.96% | | | | | | | | |
| Ba 233.527† | 2398.5 | 0.507968 | mg/L | 0.0068631 | 0.507968 | mg/L | 0.0068631 | 1.35% |
| QC value within limits for Ba 233.527 Recovery = 101.59% | | | | | | | | |
| Ca 315.887† | 263024.0 | 49.8424 | mg/L | 0.46880 | 49.8424 | mg/L | 0.46880 | 0.94% |
| QC value within limits for Ca 315.887 Recovery = 99.68% | | | | | | | | |
| Cu 327.393† | 2326.2 | 0.532204 | mg/L | 0.0057210 | 0.532204 | mg/L | 0.0057210 | 1.07% |
| QC value within limits for Cu 327.393 Recovery = 106.44% | | | | | | | | |
| Fe 273.955† | 5730.1 | 4.89655 | mg/L | 0.067423 | 4.89655 | mg/L | 0.067423 | 1.38% |
| QC value within limits for Fe 273.955 Recovery = 97.93% | | | | | | | | |
| K 766.490† | 90190.5 | 49.0349 | mg/L | 0.49111 | 49.0349 | mg/L | 0.49111 | 1.00% |
| QC value within limits for K 766.490 Recovery = 98.07% | | | | | | | | |
| Mg 279.077† | 32805.2 | 50.1990 | mg/L | 0.11789 | 50.1990 | mg/L | 0.11789 | 0.23% |
| QC value within limits for Mg 279.077 Recovery = 100.40% | | | | | | | | |
| Mn 257.610† | 15152.1 | 0.515495 | mg/L | 0.0020346 | 0.515495 | mg/L | 0.0020346 | 0.39% |
| QC value within limits for Mn 257.610 Recovery = 103.10% | | | | | | | | |
| Mo 202.031† | 717.1 | 0.500226 | mg/L | 0.0065225 | 0.500226 | mg/L | 0.0065225 | 1.30% |
| QC value within limits for Mo 202.031 Recovery = 100.05% | | | | | | | | |
| Na 589.592† | 463300.2 | 49.2935 | mg/L | 0.48002 | 49.2935 | mg/L | 0.48002 | 0.97% |
| QC value within limits for Na 589.592 Recovery = 98.59% | | | | | | | | |
| Ni 231.604† | 988.1 | 0.504911 | mg/L | 0.0054426 | 0.504911 | mg/L | 0.0054426 | 1.08% |
| QC value within limits for Ni 231.604 Recovery = 100.98% | | | | | | | | |
| Se 196.026† | 142.2 | 0.497019 | mg/L | 0.0144148 | 0.497019 | mg/L | 0.0144148 | 2.90% |
| QC value within limits for Se 196.026 Recovery = 99.40% | | | | | | | | |
| Sn 189.927† | 163.0 | 0.508098 | mg/L | 0.0137173 | 0.508098 | mg/L | 0.0137173 | 2.70% |
| QC value within limits for Sn 189.927 Recovery = 101.62% | | | | | | | | |
| Ti 334.940† | 22641.4 | 0.512213 | mg/L | 0.0007795 | 0.512213 | mg/L | 0.0007795 | 0.15% |
| QC value within limits for Ti 334.940 Recovery = 102.44% | | | | | | | | |
| V 290.880† | 4175.1 | 0.483704 | mg/L | 0.0016674 | 0.483704 | mg/L | 0.0016674 | 0.34% |
| QC value within limits for V 290.880 Recovery = 96.74% | | | | | | | | |
| Zn 206.200† | 1928.0 | 0.509382 | mg/L | 0.0052256 | 0.509382 | mg/L | 0.0052256 | 1.03% |
| QC value within limits for Zn 206.200 Recovery = 101.88% | | | | | | | | |
| Si 251.611† | 13367.6 | 4.92481 | mg/L | 0.018817 | 4.92481 | mg/L | 0.018817 | 0.38% |
| QC value within limits for Si 251.611 Recovery = 98.50% | | | | | | | | |
| B 249.772† | 3504.0 | 0.481934 | mg/L | 0.0061130 | 0.481934 | mg/L | 0.0061130 | 1.27% |
| QC value within limits for B 249.772 Recovery = 96.39% | | | | | | | | |
| Ce 413.764† | 2215.7 | 0.506624 | mg/L | 0.0093505 | 0.506624 | mg/L | 0.0093505 | 1.85% |
| QC value within limits for Ce 413.764 Recovery = 101.32% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 6 Autosampler Location: 1
Sample ID: ICB V-352951 Date Collected: 9/28/2021 5:41:26 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 45213.2 | 101 | % | 0.71 | 101 | % | 0.71 | 0.70% |
| Y 371.029 | 13753.0 | 102 | % | 0.50 | 102 | % | 0.50 | 0.49% |
| Al 308.215† | -12.4 | -0.0232500 | mg/L | 0.00995852 | -0.0232500 | mg/L | 0.00995852 | 42.83% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 4.4 | -0.0012603 | mg/L | 0.00132631 | -0.0012603 | mg/L | 0.00132631 | 105.24% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 26.0 | -0.139056 | mg/L | 0.0100218 | -0.139056 | mg/L | 0.0100218 | 7.21% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 22.3 | 0.0029742 | mg/L | 0.00429001 | 0.0029742 | mg/L | 0.00429001 | 144.24% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 5.6 | -0.0191584 | mg/L | 0.00383101 | -0.0191584 | mg/L | 0.00383101 | 20.00% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -110.0 | 0.0145651 | mg/L | 0.00617549 | 0.0145651 | mg/L | 0.00617549 | 42.40% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -10.4 | -0.230636 | mg/L | 0.0126036 | -0.230636 | mg/L | 0.0126036 | 5.46% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 9.3 | -0.0020859 | mg/L | 0.00002711 | -0.0020859 | mg/L | 0.00002711 | 1.30% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 3.3 | 0.0006311 | mg/L | 0.00212511 | 0.0006311 | mg/L | 0.00212511 | 336.71% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -2982.4 | -0.440178 | mg/L | 0.0123228 | -0.440178 | mg/L | 0.0123228 | 2.80% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -1.7 | -0.0046815 | mg/L | 0.00229044 | -0.0046815 | mg/L | 0.00229044 | 48.93% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 3.9 | 0.0071958 | mg/L | 0.01134102 | 0.0071958 | mg/L | 0.01134102 | 157.61% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -3.0 | -0.0063987 | mg/L | 0.00398882 | -0.0063987 | mg/L | 0.00398882 | 62.34% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 22.4 | -0.0007831 | mg/L | 0.00034844 | -0.0007831 | mg/L | 0.00034844 | 44.50% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 2.7 | -0.0013522 | mg/L | 0.00140536 | -0.0013522 | mg/L | 0.00140536 | 103.93% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 6.1 | -0.0002957 | mg/L | 0.00028691 | -0.0002957 | mg/L | 0.00028691 | 97.01% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | -2.9 | -0.129124 | mg/L | 0.0011941 | -0.129124 | mg/L | 0.0011941 | 0.92% |
| QC value less than the lower limit for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 6.0 | -0.0037505 | mg/L | 0.00139185 | -0.0037505 | mg/L | 0.00139185 | 37.11% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -10.4 | -0.0076931 | mg/L | 0.01239273 | -0.0076931 | mg/L | 0.01239273 | 161.09% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 7 Autosampler Location: 10
Sample ID: LRS V-352964 Date Collected: 9/28/2021 5:45:17 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LRS V-352964

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 45215.6 | 101 | % | 0.76 | 101 | % | 0.76 | 0.75% |
| Y 371.029 | 10915.5 | 80.9 | % | 0.44 | 80.9 | % | 0.44 | 0.55% |
| Al 308.215† | 420296.8 | 461.101 | mg/L | 0.7721 | 461.101 | mg/L | 0.7721 | 0.17% |
| QC value within limits for Al 308.215 Recovery = 92.22% | | | | | | | | |
| Ba 233.527† | 44055.0 | 9.23477 | mg/L | 0.026031 | 9.23477 | mg/L | 0.026031 | 0.28% |
| QC value within limits for Ba 233.527 Recovery = 92.35% | | | | | | | | |
| Ca 315.887† | 2292556.4 | 435.545 | mg/L | 3.7999 | 435.545 | mg/L | 3.7999 | 0.87% |
| QC value less than the lower limit for Ca 315.887 Recovery = 87.11% | | | | | | | | |
| Cu 327.393† | 43874.1 | 9.83657 | mg/L | 0.024329 | 9.83657 | mg/L | 0.024329 | 0.25% |
| QC value within limits for Cu 327.393 Recovery = 98.37% | | | | | | | | |
| Fe 273.955† | 385722.3 | 331.201 | mg/L | 0.9850 | 331.201 | mg/L | 0.9850 | 0.30% |
| QC value less than the lower limit for Fe 273.955 Recovery = 82.80% | | | | | | | | |
| K 766.490† | 367378.8 | 199.509 | mg/L | 1.9301 | 199.509 | mg/L | 1.9301 | 0.97% |
| QC value within limits for K 766.490 Recovery = 99.75% | | | | | | | | |
| Mg 279.077† | 289032.5 | 443.958 | mg/L | 1.6164 | 443.958 | mg/L | 1.6164 | 0.36% |
| QC value less than the lower limit for Mg 279.077 Recovery = 88.79% | | | | | | | | |
| Mn 257.610† | 253119.3 | 8.57420 | mg/L | 0.025477 | 8.57420 | mg/L | 0.025477 | 0.30% |
| QC value less than the lower limit for Mn 257.610 Recovery = 85.74% | | | | | | | | |
| Mo 202.031† | 11988.7 | 8.38934 | mg/L | 0.031890 | 8.38934 | mg/L | 0.031890 | 0.38% |
| QC value less than the lower limit for Mo 202.031 Recovery = 83.89% | | | | | | | | |
| Na 589.592† | 8510811.9 | 907.641 | mg/L | 9.9586 | 907.641 | mg/L | 9.9586 | 1.10% |
| QC value within limits for Na 589.592 Recovery = 90.76% | | | | | | | | |
| Ni 231.604† | 16340.8 | 8.44677 | mg/L | 0.044460 | 8.44677 | mg/L | 0.044460 | 0.53% |
| QC value less than the lower limit for Ni 231.604 Recovery = 84.47% | | | | | | | | |
| Se 196.026† | 1170.8 | 4.41476 | mg/L | 0.020252 | 4.41476 | mg/L | 0.020252 | 0.46% |
| QC value less than the lower limit for Se 196.026 Recovery = 88.30% | | | | | | | | |
| Sn 189.927† | 3012.8 | 9.21766 | mg/L | 0.060242 | 9.21766 | mg/L | 0.060242 | 0.65% |
| QC value within limits for Sn 189.927 Recovery = 92.18% | | | | | | | | |
| Ti 334.940† | 405186.0 | 9.11359 | mg/L | 0.071172 | 9.11359 | mg/L | 0.071172 | 0.78% |
| QC value within limits for Ti 334.940 Recovery = 91.14% | | | | | | | | |
| V 290.880† | 67192.7 | 7.95784 | mg/L | 0.022256 | 7.95784 | mg/L | 0.022256 | 0.28% |
| QC value less than the lower limit for V 290.880 Recovery = 79.58% | | | | | | | | |
| Zn 206.200† | 30817.4 | 8.17091 | mg/L | 0.033868 | 8.17091 | mg/L | 0.033868 | 0.41% |
| QC value less than the lower limit for Zn 206.200 Recovery = 81.71% | | | | | | | | |
| Si 251.611† | 62665.8 | 23.5591 | mg/L | 0.07761 | 23.5591 | mg/L | 0.07761 | 0.33% |
| QC value within limits for Si 251.611 Recovery = 94.24% | | | | | | | | |
| B 249.772† | 36241.5 | 3.89438 | mg/L | 0.017801 | 3.89438 | mg/L | 0.017801 | 0.46% |
| QC value less than the lower limit for B 249.772 Recovery = 77.89% | | | | | | | | |
| Ce 413.764† | 96079.6 | 22.1925 | mg/L | 0.06634 | 22.1925 | mg/L | 0.06634 | 0.30% |
| QC value less than the lower limit for Ce 413.764 Recovery = 88.77% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 8 Autosampler Location: 3
Sample ID: ICS3 V-352955 Date Collected: 9/28/2021 5:51:04 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: ICS3 V-352955

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42511.2 | 95.2 | % | 0.89 | 95.2 | % | 0.89 | 0.93% |
| Y 371.029 | 12911.3 | 95.7 | % | 1.26 | 95.7 | % | 1.26 | 1.31% |
| Al 308.215† | 4563.7 | 5.02400 | mg/L | 0.040411 | 5.02400 | mg/L | 0.040411 | 0.80% |
| QC value within limits for Al 308.215 Recovery = 100.48% | | | | | | | | |
| Ba 233.527† | 2346.8 | 0.496876 | mg/L | 0.0046314 | 0.496876 | mg/L | 0.0046314 | 0.93% |
| QC value within limits for Ba 233.527 Recovery = 99.38% | | | | | | | | |
| Ca 315.887† | 260775.4 | 49.4151 | mg/L | 0.52993 | 49.4151 | mg/L | 0.52993 | 1.07% |
| QC value within limits for Ca 315.887 Recovery = 98.83% | | | | | | | | |
| Cu 327.393† | 2383.1 | 0.544509 | mg/L | 0.0032484 | 0.544509 | mg/L | 0.0032484 | 0.60% |
| QC value within limits for Cu 327.393 Recovery = 108.90% | | | | | | | | |
| Fe 273.955† | 5801.8 | 4.95814 | mg/L | 0.012341 | 4.95814 | mg/L | 0.012341 | 0.25% |
| QC value within limits for Fe 273.955 Recovery = 99.16% | | | | | | | | |
| K 766.490† | 90324.0 | 49.1074 | mg/L | 0.46903 | 49.1074 | mg/L | 0.46903 | 0.96% |
| QC value within limits for K 766.490 Recovery = 98.21% | | | | | | | | |
| Mg 279.077† | 32460.8 | 49.6697 | mg/L | 0.04049 | 49.6697 | mg/L | 0.04049 | 0.08% |
| QC value within limits for Mg 279.077 Recovery = 99.34% | | | | | | | | |
| Mn 257.610† | 14679.0 | 0.499523 | mg/L | 0.0003134 | 0.499523 | mg/L | 0.0003134 | 0.06% |
| QC value within limits for Mn 257.610 Recovery = 99.90% | | | | | | | | |
| Mo 202.031† | 716.6 | 0.499894 | mg/L | 0.0084887 | 0.499894 | mg/L | 0.0084887 | 1.70% |
| QC value within limits for Mo 202.031 Recovery = 99.98% | | | | | | | | |
| Na 589.592† | 462203.0 | 49.1765 | mg/L | 0.36972 | 49.1765 | mg/L | 0.36972 | 0.75% |
| QC value within limits for Na 589.592 Recovery = 98.35% | | | | | | | | |
| Ni 231.604† | 969.5 | 0.495326 | mg/L | 0.0102004 | 0.495326 | mg/L | 0.0102004 | 2.06% |
| QC value within limits for Ni 231.604 Recovery = 99.07% | | | | | | | | |
| Se 196.026† | 138.4 | 0.483666 | mg/L | 0.0207948 | 0.483666 | mg/L | 0.0207948 | 4.30% |
| QC value within limits for Se 196.026 Recovery = 96.73% | | | | | | | | |
| Sn 189.927† | 161.2 | 0.502620 | mg/L | 0.0081437 | 0.502620 | mg/L | 0.0081437 | 1.62% |
| QC value within limits for Sn 189.927 Recovery = 100.52% | | | | | | | | |
| Ti 334.940† | 22231.6 | 0.502996 | mg/L | 0.0016050 | 0.502996 | mg/L | 0.0016050 | 0.32% |
| QC value within limits for Ti 334.940 Recovery = 100.60% | | | | | | | | |
| V 290.880† | 4151.4 | 0.481047 | mg/L | 0.0003959 | 0.481047 | mg/L | 0.0003959 | 0.08% |
| QC value within limits for V 290.880 Recovery = 96.21% | | | | | | | | |
| Zn 206.200† | 1867.6 | 0.493381 | mg/L | 0.0044838 | 0.493381 | mg/L | 0.0044838 | 0.91% |
| QC value within limits for Zn 206.200 Recovery = 98.68% | | | | | | | | |
| Si 251.611† | 13492.3 | 4.97194 | mg/L | 0.014716 | 4.97194 | mg/L | 0.014716 | 0.30% |
| QC value within limits for Si 251.611 Recovery = 99.44% | | | | | | | | |
| B 249.772† | 3448.4 | 0.473646 | mg/L | 0.0028919 | 0.473646 | mg/L | 0.0028919 | 0.61% |
| QC value within limits for B 249.772 Recovery = 94.73% | | | | | | | | |
| Ce 413.764† | 2133.4 | 0.487608 | mg/L | 0.0057639 | 0.487608 | mg/L | 0.0057639 | 1.18% |
| QC value within limits for Ce 413.764 Recovery = 97.52% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 9 Autosampler Location: 14
Sample ID: RINSE Date Collected: 9/28/2021 5:55:13 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: RINSE

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | Sample RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 54023.9 | 121 | % | 16.38 | 121 | % | 16.38 | 13.54% |
| Y 371.029 | 16504.1 | 122 | % | 16.22 | 122 | % | 16.22 | 13.26% |
| Al 308.215† | -13.6 | -0.0251197 | mg/L | 0.01037967 | -0.0251197 | mg/L | 0.01037967 | 41.32% |
| Ba 233.527† | -0.1 | -0.0022107 | mg/L | 0.00082746 | -0.0022107 | mg/L | 0.00082746 | 37.43% |
| Ca 315.887† | -44.7 | -0.152489 | mg/L | 0.0179507 | -0.152489 | mg/L | 0.0179507 | 11.77% |
| Cu 327.393† | 1.7 | -0.0015462 | mg/L | 0.00448963 | -0.0015462 | mg/L | 0.00448963 | 290.36% |
| Fe 273.955† | -12.7 | -0.0348222 | mg/L | 0.00579240 | -0.0348222 | mg/L | 0.00579240 | 16.63% |
| K 766.490† | -352.8 | -0.117266 | mg/L | 0.1433142 | -0.117266 | mg/L | 0.1433142 | 122.21% |
| Mg 279.077† | -7.1 | -0.225615 | mg/L | 0.0143962 | -0.225615 | mg/L | 0.0143962 | 6.38% |
| Mn 257.610† | -0.7 | -0.0024176 | mg/L | 0.00007944 | -0.0024176 | mg/L | 0.00007944 | 3.29% |
| Mo 202.031† | 6.5 | 0.0028834 | mg/L | 0.00222603 | 0.0028834 | mg/L | 0.00222603 | 77.20% |
| Na 589.592† | -6975.7 | -0.866109 | mg/L | 0.2957343 | -0.866109 | mg/L | 0.2957343 | 34.15% |
| Ni 231.604† | -7.6 | -0.0077191 | mg/L | 0.00125590 | -0.0077191 | mg/L | 0.00125590 | 16.27% |
| Se 196.026† | 6.5 | 0.0163502 | mg/L | 0.02881526 | 0.0163502 | mg/L | 0.02881526 | 176.24% |
| Sn 189.927† | -4.0 | -0.0094900 | mg/L | 0.00470718 | -0.0094900 | mg/L | 0.00470718 | 49.60% |
| Ti 334.940† | 169.9 | 0.0025067 | mg/L | 0.00264261 | 0.0025067 | mg/L | 0.00264261 | 105.42% |
| V 290.880† | -37.5 | -0.0062195 | mg/L | 0.00106195 | -0.0062195 | mg/L | 0.00106195 | 17.07% |
| Zn 206.200† | -4.5 | -0.0031165 | mg/L | 0.00071293 | -0.0031165 | mg/L | 0.00071293 | 22.88% |
| Si 251.611† | -55.9 | -0.149133 | mg/L | 0.0126356 | -0.149133 | mg/L | 0.0126356 | 8.47% |
| B 249.772† | -2.8 | -0.0049619 | mg/L | 0.00070680 | -0.0049619 | mg/L | 0.00070680 | 14.24% |
| Ce 413.764† | 15.6 | -0.0016824 | mg/L | 0.00345334 | -0.0016824 | mg/L | 0.00345334 | 205.26% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 10 Autosampler Location: 5
Sample ID: LLICV V-352961 Date Collected: 9/28/2021 5:59:05 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LLICV V-352961

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43712.2 | 97.8 | % | 0.78 | 97.8 | % | 0.78 | 0.80% |
| Y 371.029 | 13166.7 | 97.6 | % | 0.78 | 97.6 | % | 0.78 | 0.80% |
| Al 308.215† | 178.3 | 0.187745 | mg/L | 0.0176458 | 0.187745 | mg/L | 0.0176458 | 9.40% |
| QC value within limits for Al 308.215 Recovery = 93.87% | | | | | | | | |
| Ba 233.527† | 247.8 | 0.0506100 | mg/L | 0.00092094 | 0.0506100 | mg/L | 0.00092094 | 1.82% |
| QC value within limits for Ba 233.527 Recovery = 101.22% | | | | | | | | |
| Ca 315.887† | 26425.0 | 4.87795 | mg/L | 0.020628 | 4.87795 | mg/L | 0.020628 | 0.42% |
| QC value within limits for Ca 315.887 Recovery = 97.56% | | | | | | | | |
| Cu 327.393† | 249.6 | 0.0552369 | mg/L | 0.00531456 | 0.0552369 | mg/L | 0.00531456 | 9.62% |
| QC value within limits for Cu 327.393 Recovery = 110.47% | | | | | | | | |
| Fe 273.955† | 366.4 | 0.290688 | mg/L | 0.0055484 | 0.290688 | mg/L | 0.0055484 | 1.91% |
| QC value within limits for Fe 273.955 Recovery = 96.90% | | | | | | | | |
| K 766.490† | 9096.9 | 5.01258 | mg/L | 0.009101 | 5.01258 | mg/L | 0.009101 | 0.18% |
| QC value within limits for K 766.490 Recovery = 100.25% | | | | | | | | |
| Mg 279.077† | 3366.0 | 4.95802 | mg/L | 0.012566 | 4.95802 | mg/L | 0.012566 | 0.25% |
| QC value within limits for Mg 279.077 Recovery = 99.16% | | | | | | | | |
| Mn 257.610† | 1216.3 | 0.0393918 | mg/L | 0.00023014 | 0.0393918 | mg/L | 0.00023014 | 0.58% |
| QC value within limits for Mn 257.610 Recovery = 98.48% | | | | | | | | |
| Mo 202.031† | 31.2 | 0.0201820 | mg/L | 0.00282195 | 0.0201820 | mg/L | 0.00282195 | 13.98% |
| QC value within limits for Mo 202.031 Recovery = 100.91% | | | | | | | | |
| Na 589.592† | 43982.5 | 4.56910 | mg/L | 0.015116 | 4.56910 | mg/L | 0.015116 | 0.33% |
| QC value within limits for Na 589.592 Recovery = 91.38% | | | | | | | | |
| Ni 231.604† | 107.8 | 0.0516387 | mg/L | 0.00318533 | 0.0516387 | mg/L | 0.00318533 | 6.17% |
| QC value within limits for Ni 231.604 Recovery = 103.28% | | | | | | | | |
| Se 196.026† | 15.7 | 0.0486259 | mg/L | 0.01941332 | 0.0486259 | mg/L | 0.01941332 | 39.92% |
| QC value within limits for Se 196.026 Recovery = 97.25% | | | | | | | | |
| Sn 189.927† | 13.2 | 0.0438946 | mg/L | 0.00311737 | 0.0438946 | mg/L | 0.00311737 | 7.10% |
| QC value within limits for Sn 189.927 Recovery = 87.79% | | | | | | | | |
| Ti 334.940† | 2254.4 | 0.0498522 | mg/L | 0.00041416 | 0.0498522 | mg/L | 0.00041416 | 0.83% |
| QC value within limits for Ti 334.940 Recovery = 99.70% | | | | | | | | |
| V 290.880† | 405.9 | 0.0454041 | mg/L | 0.00103383 | 0.0454041 | mg/L | 0.00103383 | 2.28% |
| QC value within limits for V 290.880 Recovery = 90.81% | | | | | | | | |
| Zn 206.200† | 196.9 | 0.0502833 | mg/L | 0.00174415 | 0.0502833 | mg/L | 0.00174415 | 3.47% |
| QC value within limits for Zn 206.200 Recovery = 100.57% | | | | | | | | |
| Si 251.611† | 1212.4 | 0.330266 | mg/L | 0.0071459 | 0.330266 | mg/L | 0.0071459 | 2.16% |
| QC value greater than the upper limit for Si 251.611 Recovery = 165.13% | | | | | | | | |
| B 249.772† | 1464.9 | 0.205843 | mg/L | 0.0029033 | 0.205843 | mg/L | 0.0029033 | 1.41% |
| QC value within limits for B 249.772 Recovery = 102.92% | | | | | | | | |
| Ce 413.764† | 906.6 | 0.204172 | mg/L | 0.0175598 | 0.204172 | mg/L | 0.0175598 | 8.60% |
| QC value within limits for Ce 413.764 Recovery = 102.09% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 11 Autosampler Location: 7
Sample ID: ICSA V-352957 Date Collected: 9/28/2021 6:02:58 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICSA V-352957

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42561.2 | 95.3 | % | 0.42 | 95.3 | % | 0.42 | 0.44% |
| Y 371.029 | 12016.5 | 89.1 | % | 0.52 | 89.1 | % | 0.52 | 0.59% |
| Al 308.215† | 455868.8 | 499.783 | mg/L | 3.4134 | 499.783 | mg/L | 3.4134 | 0.68% |
| QC value within limits for Al 308.215 Recovery = 99.96% | | | | | | | | |
| Ba 233.527† | 1302.6 | 0.176158 | mg/L | 0.0017984 | 0.176158 | mg/L | 0.0017984 | 1.02% |
| Ca 315.887† | 2476248.8 | 470.455 | mg/L | 3.3605 | 470.455 | mg/L | 3.3605 | 0.71% |
| QC value within limits for Ca 315.887 Recovery = 94.09% | | | | | | | | |
| Cu 327.393† | -862.5 | 0.0272632 | mg/L | 0.00191089 | 0.0272632 | mg/L | 0.00191089 | 7.01% |
| Fe 273.955† | 210122.0 | 180.411 | mg/L | 1.2752 | 180.411 | mg/L | 1.2752 | 0.71% |
| QC value within limits for Fe 273.955 Recovery = 90.21% | | | | | | | | |
| K 766.490† | 423.5 | 0.304199 | mg/L | 0.0318210 | 0.304199 | mg/L | 0.0318210 | 10.46% |
| Mg 279.077† | 305703.6 | 469.577 | mg/L | 3.0863 | 469.577 | mg/L | 3.0863 | 0.66% |
| QC value within limits for Mg 279.077 Recovery = 93.92% | | | | | | | | |
| Mn 257.610† | 48.0 | 0.0875982 | mg/L | 0.00062413 | 0.0875982 | mg/L | 0.00062413 | 0.71% |
| Mo 202.031† | -29.0 | -0.0219872 | mg/L | 0.00101417 | -0.0219872 | mg/L | 0.00101417 | 4.61% |
| Na 589.592† | 1430.5 | 0.0304959 | mg/L | 0.05572093 | 0.0304959 | mg/L | 0.05572093 | 182.72% |
| Ni 231.604† | 93.9 | 0.0378922 | mg/L | 0.00360559 | 0.0378922 | mg/L | 0.00360559 | 9.52% |
| Se 196.026† | -37.8 | 0.0314624 | mg/L | 0.02614718 | 0.0314624 | mg/L | 0.02614718 | 83.11% |
| Sn 189.927† | -116.7 | -0.226764 | mg/L | 0.0531013 | -0.226764 | mg/L | 0.0531013 | 23.42% |
| Ti 334.940† | -3708.8 | -0.0075767 | mg/L | 0.00116918 | -0.0075767 | mg/L | 0.00116918 | 15.43% |
| V 290.880† | 3084.6 | 0.182787 | mg/L | 0.0075384 | 0.182787 | mg/L | 0.0075384 | 4.12% |
| Zn 206.200† | 122.5 | 0.0305626 | mg/L | 0.00227666 | 0.0305626 | mg/L | 0.00227666 | 7.45% |
| Si 251.611† | -17.2 | -0.134529 | mg/L | 0.0012922 | -0.134529 | mg/L | 0.0012922 | 0.96% |
| B 249.772† | 3493.1 | -0.229061 | mg/L | 0.0009311 | -0.229061 | mg/L | 0.0009311 | 0.41% |
| Ce 413.764† | -459.5 | -0.111464 | mg/L | 0.0047381 | -0.111464 | mg/L | 0.0047381 | 4.25% |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 12 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/28/2021 6:08:22 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42491.1 | 95.1 | % | 0.34 | 95.1 | % | 0.34 | 0.35% |
| Y 371.029 | 12745.8 | 94.5 | % | 0.35 | 94.5 | % | 0.35 | 0.37% |
| Al 308.215† | 4561.1 | 5.02113 | mg/L | 0.011691 | 5.02113 | mg/L | 0.011691 | 0.23% |
| QC value within limits for Al 308.215 Recovery = 100.42% | | | | | | | | |
| Ba 233.527† | 2337.7 | 0.494931 | mg/L | 0.0022225 | 0.494931 | mg/L | 0.0022225 | 0.45% |
| QC value within limits for Ba 233.527 Recovery = 98.99% | | | | | | | | |
| Ca 315.887† | 261983.9 | 49.6447 | mg/L | 0.29406 | 49.6447 | mg/L | 0.29406 | 0.59% |
| QC value within limits for Ca 315.887 Recovery = 99.29% | | | | | | | | |
| Cu 327.393† | 2373.2 | 0.542440 | mg/L | 0.0058705 | 0.542440 | mg/L | 0.0058705 | 1.08% |
| QC value within limits for Cu 327.393 Recovery = 108.49% | | | | | | | | |
| Fe 273.955† | 5808.2 | 4.96366 | mg/L | 0.026046 | 4.96366 | mg/L | 0.026046 | 0.52% |
| QC value within limits for Fe 273.955 Recovery = 99.27% | | | | | | | | |
| K 766.490† | 91237.0 | 49.6030 | mg/L | 0.20702 | 49.6030 | mg/L | 0.20702 | 0.42% |
| QC value within limits for K 766.490 Recovery = 99.21% | | | | | | | | |
| Mg 279.077† | 32311.1 | 49.4397 | mg/L | 0.05224 | 49.4397 | mg/L | 0.05224 | 0.11% |
| QC value within limits for Mg 279.077 Recovery = 98.88% | | | | | | | | |
| Mn 257.610† | 14853.9 | 0.505348 | mg/L | 0.0008438 | 0.505348 | mg/L | 0.0008438 | 0.17% |
| QC value within limits for Mn 257.610 Recovery = 101.07% | | | | | | | | |
| Mo 202.031† | 711.4 | 0.496228 | mg/L | 0.0058108 | 0.496228 | mg/L | 0.0058108 | 1.17% |
| QC value within limits for Mo 202.031 Recovery = 99.25% | | | | | | | | |
| Na 589.592† | 468722.6 | 49.8719 | mg/L | 0.19159 | 49.8719 | mg/L | 0.19159 | 0.38% |
| QC value within limits for Na 589.592 Recovery = 99.74% | | | | | | | | |
| Ni 231.604† | 978.9 | 0.500192 | mg/L | 0.0047855 | 0.500192 | mg/L | 0.0047855 | 0.96% |
| QC value within limits for Ni 231.604 Recovery = 100.04% | | | | | | | | |
| Se 196.026† | 140.3 | 0.490477 | mg/L | 0.0159551 | 0.490477 | mg/L | 0.0159551 | 3.25% |
| QC value within limits for Se 196.026 Recovery = 98.10% | | | | | | | | |
| Sn 189.927† | 159.8 | 0.498393 | mg/L | 0.0150869 | 0.498393 | mg/L | 0.0150869 | 3.03% |
| QC value within limits for Sn 189.927 Recovery = 99.68% | | | | | | | | |
| Ti 334.940† | 22311.4 | 0.504817 | mg/L | 0.0015856 | 0.504817 | mg/L | 0.0015856 | 0.31% |
| QC value within limits for Ti 334.940 Recovery = 100.96% | | | | | | | | |
| V 290.880† | 4158.8 | 0.482045 | mg/L | 0.0051116 | 0.482045 | mg/L | 0.0051116 | 1.06% |
| QC value within limits for V 290.880 Recovery = 96.41% | | | | | | | | |
| Zn 206.200† | 1877.3 | 0.495938 | mg/L | 0.0019004 | 0.495938 | mg/L | 0.0019004 | 0.38% |
| QC value within limits for Zn 206.200 Recovery = 99.19% | | | | | | | | |
| Si 251.611† | 13242.2 | 4.87741 | mg/L | 0.001741 | 4.87741 | mg/L | 0.001741 | 0.04% |
| QC value within limits for Si 251.611 Recovery = 97.55% | | | | | | | | |
| B 249.772† | 3424.7 | 0.470192 | mg/L | 0.0021193 | 0.470192 | mg/L | 0.0021193 | 0.45% |
| QC value within limits for B 249.772 Recovery = 94.04% | | | | | | | | |
| Ce 413.764† | 2223.1 | 0.508334 | mg/L | 0.0024958 | 0.508334 | mg/L | 0.0024958 | 0.49% |
| QC value within limits for Ce 413.764 Recovery = 101.67% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 13 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/28/2021 6:12:29 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43487.1 | 97.3 | % | 0.11 | 97.3 | % | 0.11 | 0.11% |
| Y 371.029 | 13217.2 | 98.0 | % | 0.02 | 98.0 | % | 0.02 | 0.02% |
| Al 308.215† | 3.6 | -0.0056847 | mg/L | 0.00453147 | -0.0056847 | mg/L | 0.00453147 | 79.71% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 2.5 | -0.0016728 | mg/L | 0.00047346 | -0.0016728 | mg/L | 0.00047346 | 28.30% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -24.0 | -0.148553 | mg/L | 0.0053113 | -0.148553 | mg/L | 0.0053113 | 3.58% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 15.8 | 0.0015399 | mg/L | 0.00388406 | 0.0015399 | mg/L | 0.00388406 | 252.22% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 2.3 | -0.0219818 | mg/L | 0.00232134 | -0.0219818 | mg/L | 0.00232134 | 10.56% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -128.3 | 0.0046151 | mg/L | 0.00697638 | 0.0046151 | mg/L | 0.00697638 | 151.16% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 1.5 | -0.212367 | mg/L | 0.0228159 | -0.212367 | mg/L | 0.0228159 | 10.74% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 3.4 | -0.0022781 | mg/L | 0.00037224 | -0.0022781 | mg/L | 0.00037224 | 16.34% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 4.3 | 0.0013259 | mg/L | 0.00087586 | 0.0013259 | mg/L | 0.00087586 | 66.06% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -4836.0 | -0.637881 | mg/L | 0.0067871 | -0.637881 | mg/L | 0.0067871 | 1.06% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 0.3 | -0.0036621 | mg/L | 0.00237664 | -0.0036621 | mg/L | 0.00237664 | 64.90% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 7.4 | 0.0195113 | mg/L | 0.03540441 | 0.0195113 | mg/L | 0.03540441 | 181.46% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -3.5 | -0.0077911 | mg/L | 0.00571515 | -0.0077911 | mg/L | 0.00571515 | 73.35% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -14.8 | -0.0016146 | mg/L | 0.00083856 | -0.0016146 | mg/L | 0.00083856 | 51.94% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 7.6 | -0.0007583 | mg/L | 0.00101795 | -0.0007583 | mg/L | 0.00101795 | 134.24% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 3.2 | -0.0010697 | mg/L | 0.00038644 | -0.0010697 | mg/L | 0.00038644 | 36.13% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | -5.7 | -0.130161 | mg/L | 0.0009254 | -0.130161 | mg/L | 0.0009254 | 0.71% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -4.9 | -0.0053066 | mg/L | 0.00072620 | -0.0053066 | mg/L | 0.00072620 | 13.68% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -7.9 | -0.0071100 | mg/L | 0.01463440 | -0.0071100 | mg/L | 0.01463440 | 205.83% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 14 Autosampler Location: 49
Sample ID: AD26083-002 Date Collected: 9/28/2021 6:16:21 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-002

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42778.3 | 95.8 | % | 0.73 | 95.8 | % | 0.73 | 0.76% |
| Y 371.029 | 12478.7 | 92.5 | % | 0.66 | 92.5 | % | 0.66 | 0.71% |
| Al 308.215† | 238.2 | 0.258617 | mg/L | 0.0142578 | 0.258617 | mg/L | 0.0142578 | 5.51% |
| Ba 233.527† | 1277.3 | 0.270492 | mg/L | 0.0005735 | 0.270492 | mg/L | 0.0005735 | 0.21% |
| Ca 315.887† | 957594.0 | 181.842 | mg/L | 0.6622 | 181.842 | mg/L | 0.6622 | 0.36% |
| Cu 327.393† | -264.7 | 0.0244877 | mg/L | 0.00070540 | 0.0244877 | mg/L | 0.00070540 | 2.88% |
| Fe 273.955† | 961.7 | 0.801902 | mg/L | 0.0051535 | 0.801902 | mg/L | 0.0051535 | 0.64% |
| K 766.490† | 9451.7 | 5.20521 | mg/L | 0.027749 | 5.20521 | mg/L | 0.027749 | 0.53% |
| Mg 279.077† | 46921.8 | 71.8927 | mg/L | 0.30633 | 71.8927 | mg/L | 0.30633 | 0.43% |
| Mn 257.610† | 149992.2 | 5.04393 | mg/L | 0.024344 | 5.04393 | mg/L | 0.024344 | 0.48% |
| Mo 202.031† | 1.6 | -0.0005253 | mg/L | 0.00415704 | -0.0005253 | mg/L | 0.00415704 | 791.44% |
| Na 589.592† | 7464175.3 | 796.007 | mg/L | 8.9062 | 796.007 | mg/L | 8.9062 | 1.12% |
| Ni 231.604† | 124.4 | 0.0603606 | mg/L | 0.00308190 | 0.0603606 | mg/L | 0.00308190 | 5.11% |
| Se 196.026† | 3.9 | 0.0077290 | mg/L | 0.01089166 | 0.0077290 | mg/L | 0.01089166 | 140.92% |
| Sn 189.927† | -27.1 | -0.0486501 | mg/L | 0.00228245 | -0.0486501 | mg/L | 0.00228245 | 4.69% |
| Ti 334.940† | -763.3 | 0.0112577 | mg/L | 0.00114749 | 0.0112577 | mg/L | 0.00114749 | 10.19% |
| V 290.880† | 651.1 | 0.0481524 | mg/L | 0.00081852 | 0.0481524 | mg/L | 0.00081852 | 1.70% |
| Zn 206.200† | 133.2 | 0.0333938 | mg/L | 0.00063553 | 0.0333938 | mg/L | 0.00063553 | 1.90% |
| Si 251.611† | 35538.6 | 13.3053 | mg/L | 0.05795 | 13.3053 | mg/L | 0.05795 | 0.44% |
| B 249.772† | 6261.2 | 0.896956 | mg/L | 0.0016037 | 0.896956 | mg/L | 0.0016037 | 0.18% |
| Ce 413.764† | -23.1 | -0.0106236 | mg/L | 0.00633730 | -0.0106236 | mg/L | 0.00633730 | 59.65% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 15
Autosampler Location: 50
Sample ID: AD26083-005
Date Collected: 9/28/2021 6:20:53 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-005

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43067.0 | 96.4 | % | 1.34 | 96.4 | % | 1.34 | 1.39% |
| Y 371.029 | 13075.5 | 96.9 | % | 1.34 | 96.9 | % | 1.34 | 1.38% |
| Al 308.215† | -4.3 | -0.0143036 | mg/L | 0.00780214 | -0.0143036 | mg/L | 0.00780214 | 54.55% |
| Ba 233.527† | 6.2 | -0.0008878 | mg/L | 0.00109777 | -0.0008878 | mg/L | 0.00109777 | 123.66% |
| Ca 315.887† | 349.9 | -0.0774919 | mg/L | 0.00503021 | -0.0774919 | mg/L | 0.00503021 | 6.49% |
| Cu 327.393† | -4.9 | -0.0029607 | mg/L | 0.00279883 | -0.0029607 | mg/L | 0.00279883 | 94.53% |
| Fe 273.955† | 12.1 | -0.0135374 | mg/L | 0.00127479 | -0.0135374 | mg/L | 0.00127479 | 9.42% |
| K 766.490† | 91.7 | 0.124071 | mg/L | 0.0378951 | 0.124071 | mg/L | 0.0378951 | 30.54% |
| Mg 279.077† | 0.1 | -0.214439 | mg/L | 0.0217091 | -0.214439 | mg/L | 0.0217091 | 10.12% |
| Mn 257.610† | 27.4 | -0.0014757 | mg/L | 0.00012231 | -0.0014757 | mg/L | 0.00012231 | 8.29% |
| Mo 202.031† | -2.9 | -0.0036875 | mg/L | 0.00417930 | -0.0036875 | mg/L | 0.00417930 | 113.34% |
| Na 589.592† | -358.4 | -0.160302 | mg/L | 0.0515961 | -0.160302 | mg/L | 0.0515961 | 32.19% |
| Ni 231.604† | 0.6 | -0.0035123 | mg/L | 0.00097043 | -0.0035123 | mg/L | 0.00097043 | 27.63% |
| Se 196.026† | 7.5 | 0.0196740 | mg/L | 0.01415782 | 0.0196740 | mg/L | 0.01415782 | 71.96% |
| Sn 189.927† | -6.2 | -0.0159385 | mg/L | 0.00605712 | -0.0159385 | mg/L | 0.00605712 | 38.00% |
| Ti 334.940† | 15.3 | -0.0009315 | mg/L | 0.00089388 | -0.0009315 | mg/L | 0.00089388 | 95.96% |
| V 290.880† | 1.9 | -0.0014465 | mg/L | 0.00090598 | -0.0014465 | mg/L | 0.00090598 | 62.63% |
| Zn 206.200† | 14.7 | 0.0019682 | mg/L | 0.00113052 | 0.0019682 | mg/L | 0.00113052 | 57.44% |
| Si 251.611† | 110.7 | -0.0861857 | mg/L | 0.00311844 | -0.0861857 | mg/L | 0.00311844 | 3.62% |
| B 249.772† | 12.1 | -0.0028816 | mg/L | 0.00167065 | -0.0028816 | mg/L | 0.00167065 | 57.98% |
| Ce 413.764† | -20.1 | -0.0099356 | mg/L | 0.00677457 | -0.0099356 | mg/L | 0.00677457 | 68.18% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 16 Autosampler Location: 51
Sample ID: AD26083-008 Date Collected: 9/28/2021 6:24:44 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-008

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42766.7 | 95.7 | % | 0.70 | 95.7 | % | 0.70 | 0.73% |
| Y 371.029 | 12807.6 | 94.9 | % | 0.80 | 94.9 | % | 0.80 | 0.84% |
| Al 308.215† | 93.0 | 0.0988395 | mg/L | 0.00906544 | 0.0988395 | mg/L | 0.00906544 | 9.17% |
| Ba 233.527† | 578.2 | 0.120579 | mg/L | 0.0011991 | 0.120579 | mg/L | 0.0011991 | 0.99% |
| Ca 315.887† | 679088.4 | 128.913 | mg/L | 0.8464 | 128.913 | mg/L | 0.8464 | 0.66% |
| Cu 327.393† | -208.3 | 0.0122968 | mg/L | 0.00439468 | 0.0122968 | mg/L | 0.00439468 | 35.74% |
| Fe 273.955† | 1804.9 | 1.52594 | mg/L | 0.004343 | 1.52594 | mg/L | 0.004343 | 0.28% |
| K 766.490† | 13030.6 | 7.14802 | mg/L | 0.055679 | 7.14802 | mg/L | 0.055679 | 0.78% |
| Mg 279.077† | 37302.4 | 57.1101 | mg/L | 0.27406 | 57.1101 | mg/L | 0.27406 | 0.48% |
| Mn 257.610† | 12279.5 | 0.420412 | mg/L | 0.0034397 | 0.420412 | mg/L | 0.0034397 | 0.82% |
| Mo 202.031† | -0.2 | -0.0017997 | mg/L | 0.00148839 | -0.0017997 | mg/L | 0.00148839 | 82.70% |
| Na 589.592† | 366320.8 | 38.9497 | mg/L | 0.12060 | 38.9497 | mg/L | 0.12060 | 0.31% |
| Ni 231.604† | -5.1 | -0.0058999 | mg/L | 0.00125455 | -0.0058999 | mg/L | 0.00125455 | 21.26% |
| Se 196.026† | 5.4 | 0.0137471 | mg/L | 0.00935265 | 0.0137471 | mg/L | 0.00935265 | 68.03% |
| Sn 189.927† | -26.2 | -0.0539188 | mg/L | 0.00418333 | -0.0539188 | mg/L | 0.00418333 | 7.76% |
| Ti 334.940† | -772.8 | 0.0024434 | mg/L | 0.00073951 | 0.0024434 | mg/L | 0.00073951 | 30.27% |
| V 290.880† | 595.8 | 0.0474046 | mg/L | 0.00909073 | 0.0474046 | mg/L | 0.00909073 | 19.18% |
| Zn 206.200† | 98.8 | 0.0242716 | mg/L | 0.00047175 | 0.0242716 | mg/L | 0.00047175 | 1.94% |
| Si 251.611† | 40755.3 | 15.2771 | mg/L | 0.10500 | 15.2771 | mg/L | 0.10500 | 0.69% |
| B 249.772† | 601.3 | 0.0760421 | mg/L | 0.00056365 | 0.0760421 | mg/L | 0.00056365 | 0.74% |
| Ce 413.764† | -4.2 | -0.0062659 | mg/L | 0.01059991 | -0.0062659 | mg/L | 0.01059991 | 169.17% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 17
Autosampler Location: 52
Sample ID: AD26083-009
Date Collected: 9/28/2021 6:28:51 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-009

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42730.2 | 95.6 | % | 0.16 | 95.6 | % | 0.16 | 0.16% |
| Y 371.029 | 12641.2 | 93.7 | % | 0.35 | 93.7 | % | 0.35 | 0.37% |
| Al 308.215† | 91.3 | 0.0960660 | mg/L | 0.00124790 | 0.0960660 | mg/L | 0.00124790 | 1.30% |
| Ba 233.527† | 545.1 | 0.113556 | mg/L | 0.0005056 | 0.113556 | mg/L | 0.0005056 | 0.45% |
| Ca 315.887† | 646919.5 | 122.800 | mg/L | 0.3945 | 122.800 | mg/L | 0.3945 | 0.32% |
| Cu 327.393† | -192.9 | 0.0128331 | mg/L | 0.00163452 | 0.0128331 | mg/L | 0.00163452 | 12.74% |
| Fe 273.955† | 1715.8 | 1.44941 | mg/L | 0.010344 | 1.44941 | mg/L | 0.010344 | 0.71% |
| K 766.490† | 12503.5 | 6.86191 | mg/L | 0.021082 | 6.86191 | mg/L | 0.021082 | 0.31% |
| Mg 279.077† | 35205.7 | 53.8879 | mg/L | 0.06623 | 53.8879 | mg/L | 0.06623 | 0.12% |
| Mn 257.610† | 11469.7 | 0.392633 | mg/L | 0.0007781 | 0.392633 | mg/L | 0.0007781 | 0.20% |
| Mo 202.031† | -0.1 | -0.0017298 | mg/L | 0.00193218 | -0.0017298 | mg/L | 0.00193218 | 111.70% |
| Na 589.592† | 365877.1 | 38.9024 | mg/L | 0.14425 | 38.9024 | mg/L | 0.14425 | 0.37% |
| Ni 231.604† | 1.8 | -0.0023663 | mg/L | 0.00209873 | -0.0023663 | mg/L | 0.00209873 | 88.69% |
| Se 196.026† | -2.7 | -0.0146736 | mg/L | 0.00471014 | -0.0146736 | mg/L | 0.00471014 | 32.10% |
| Sn 189.927† | -28.7 | -0.0625941 | mg/L | 0.00621589 | -0.0625941 | mg/L | 0.00621589 | 9.93% |
| Ti 334.940† | -690.2 | 0.0032934 | mg/L | 0.00032549 | 0.0032934 | mg/L | 0.00032549 | 9.88% |
| V 290.880† | 517.6 | 0.0392336 | mg/L | 0.00118313 | 0.0392336 | mg/L | 0.00118313 | 3.02% |
| Zn 206.200† | 81.7 | 0.0197382 | mg/L | 0.00019851 | 0.0197382 | mg/L | 0.00019851 | 1.01% |
| Si 251.611† | 39276.9 | 14.7183 | mg/L | 0.01071 | 14.7183 | mg/L | 0.01071 | 0.07% |
| B 249.772† | 644.6 | 0.0826107 | mg/L | 0.00068873 | 0.0826107 | mg/L | 0.00068873 | 0.83% |
| Ce 413.764† | 14.0 | -0.0020476 | mg/L | 0.00864598 | -0.0020476 | mg/L | 0.00864598 | 422.24% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 18 Autosampler Location: 53
Sample ID: AD26083-011 Date Collected: 9/28/2021 6:32:58 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-011

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42581.0 | 95.3 | % | 0.69 | 95.3 | % | 0.69 | 0.73% |
| Y 371.029 | 12819.9 | 95.0 | % | 1.02 | 95.0 | % | 1.02 | 1.08% |
| Al 308.215† | 12.4 | 0.0058596 | mg/L | 0.00726148 | 0.0058596 | mg/L | 0.00726148 | 123.92% |
| Ba 233.527† | 1386.5 | 0.294174 | mg/L | 0.0026583 | 0.294174 | mg/L | 0.0026583 | 0.90% |
| Ca 315.887† | 389436.1 | 73.8664 | mg/L | 0.59418 | 73.8664 | mg/L | 0.59418 | 0.80% |
| Cu 327.393† | -121.0 | 0.0058975 | mg/L | 0.00735720 | 0.0058975 | mg/L | 0.00735720 | 124.75% |
| Fe 273.955† | 247.6 | 0.188705 | mg/L | 0.0008378 | 0.188705 | mg/L | 0.0008378 | 0.44% |
| K 766.490† | 2798.9 | 1.59365 | mg/L | 0.010683 | 1.59365 | mg/L | 0.010683 | 0.67% |
| Mg 279.077† | 9660.6 | 14.6313 | mg/L | 0.04960 | 14.6313 | mg/L | 0.04960 | 0.34% |
| Mn 257.610† | 17677.7 | 0.593547 | mg/L | 0.0035727 | 0.593547 | mg/L | 0.0035727 | 0.60% |
| Mo 202.031† | 0.9 | -0.0010519 | mg/L | 0.00420335 | -0.0010519 | mg/L | 0.00420335 | 399.58% |
| Na 589.592† | 186827.8 | 19.8050 | mg/L | 0.12347 | 19.8050 | mg/L | 0.12347 | 0.62% |
| Ni 231.604† | -6.3 | -0.0069893 | mg/L | 0.00260505 | -0.0069893 | mg/L | 0.00260505 | 37.27% |
| Se 196.026† | 3.3 | 0.0051948 | mg/L | 0.00848475 | 0.0051948 | mg/L | 0.00848475 | 163.33% |
| Sn 189.927† | -12.5 | -0.0250695 | mg/L | 0.01213143 | -0.0250695 | mg/L | 0.01213143 | 48.39% |
| Ti 334.940† | -538.3 | -0.0012691 | mg/L | 0.00092328 | -0.0012691 | mg/L | 0.00092328 | 72.75% |
| V 290.880† | 182.6 | 0.0144614 | mg/L | 0.00095381 | 0.0144614 | mg/L | 0.00095381 | 6.60% |
| Zn 206.200† | 16.6 | 0.0024730 | mg/L | 0.00170187 | 0.0024730 | mg/L | 0.00170187 | 68.82% |
| Si 251.611† | 25248.2 | 9.41559 | mg/L | 0.021420 | 9.41559 | mg/L | 0.021420 | 0.23% |
| B 249.772† | 120.8 | 0.0120064 | mg/L | 0.00025796 | 0.0120064 | mg/L | 0.00025796 | 2.15% |
| Ce 413.764† | 7.9 | -0.0034657 | mg/L | 0.00234417 | -0.0034657 | mg/L | 0.00234417 | 67.64% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 19 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/28/2021 6:37:06 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42571.1 | 95.3 | % | 0.55 | 95.3 | % | 0.55 | 0.58% |
| Y 371.029 | 12796.6 | 94.9 | % | 0.68 | 94.9 | % | 0.68 | 0.71% |
| Al 308.215† | 4510.2 | 4.96522 | mg/L | 0.028264 | 4.96522 | mg/L | 0.028264 | 0.57% |
| QC value within limits for Al 308.215 Recovery = 99.30% | | | | | | | | |
| Ba 233.527† | 2268.9 | 0.480283 | mg/L | 0.0021981 | 0.480283 | mg/L | 0.0021981 | 0.46% |
| QC value within limits for Ba 233.527 Recovery = 96.06% | | | | | | | | |
| Ca 315.887† | 250665.2 | 47.4937 | mg/L | 0.50995 | 47.4937 | mg/L | 0.50995 | 1.07% |
| QC value within limits for Ca 315.887 Recovery = 94.99% | | | | | | | | |
| Cu 327.393† | 2313.3 | 0.528289 | mg/L | 0.0031783 | 0.528289 | mg/L | 0.0031783 | 0.60% |
| QC value within limits for Cu 327.393 Recovery = 105.66% | | | | | | | | |
| Fe 273.955† | 5652.3 | 4.82980 | mg/L | 0.013040 | 4.82980 | mg/L | 0.013040 | 0.27% |
| QC value within limits for Fe 273.955 Recovery = 96.60% | | | | | | | | |
| K 766.490† | 87775.8 | 47.7241 | mg/L | 0.44350 | 47.7241 | mg/L | 0.44350 | 0.93% |
| QC value within limits for K 766.490 Recovery = 95.45% | | | | | | | | |
| Mg 279.077† | 31459.7 | 48.1312 | mg/L | 0.06974 | 48.1312 | mg/L | 0.06974 | 0.14% |
| QC value within limits for Mg 279.077 Recovery = 96.26% | | | | | | | | |
| Mn 257.610† | 14339.2 | 0.487833 | mg/L | 0.0021776 | 0.487833 | mg/L | 0.0021776 | 0.45% |
| QC value within limits for Mn 257.610 Recovery = 97.57% | | | | | | | | |
| Mo 202.031† | 688.1 | 0.479970 | mg/L | 0.0067159 | 0.479970 | mg/L | 0.0067159 | 1.40% |
| QC value within limits for Mo 202.031 Recovery = 95.99% | | | | | | | | |
| Na 589.592† | 450234.2 | 47.8999 | mg/L | 0.43204 | 47.8999 | mg/L | 0.43204 | 0.90% |
| QC value within limits for Na 589.592 Recovery = 95.80% | | | | | | | | |
| Ni 231.604† | 938.5 | 0.479403 | mg/L | 0.0087448 | 0.479403 | mg/L | 0.0087448 | 1.82% |
| QC value within limits for Ni 231.604 Recovery = 95.88% | | | | | | | | |
| Se 196.026† | 132.9 | 0.464233 | mg/L | 0.0091502 | 0.464233 | mg/L | 0.0091502 | 1.97% |
| QC value within limits for Se 196.026 Recovery = 92.85% | | | | | | | | |
| Sn 189.927† | 153.1 | 0.477664 | mg/L | 0.0133743 | 0.477664 | mg/L | 0.0133743 | 2.80% |
| QC value within limits for Sn 189.927 Recovery = 95.53% | | | | | | | | |
| Ti 334.940† | 21735.2 | 0.491604 | mg/L | 0.0024100 | 0.491604 | mg/L | 0.0024100 | 0.49% |
| QC value within limits for Ti 334.940 Recovery = 98.32% | | | | | | | | |
| V 290.880† | 4095.3 | 0.474875 | mg/L | 0.0060409 | 0.474875 | mg/L | 0.0060409 | 1.27% |
| QC value within limits for V 290.880 Recovery = 94.97% | | | | | | | | |
| Zn 206.200† | 1801.7 | 0.475892 | mg/L | 0.0020801 | 0.475892 | mg/L | 0.0020801 | 0.44% |
| QC value within limits for Zn 206.200 Recovery = 95.18% | | | | | | | | |
| Si 251.611† | 13009.6 | 4.78949 | mg/L | 0.010371 | 4.78949 | mg/L | 0.010371 | 0.22% |
| QC value within limits for Si 251.611 Recovery = 95.79% | | | | | | | | |
| B 249.772† | 3324.2 | 0.456213 | mg/L | 0.0029156 | 0.456213 | mg/L | 0.0029156 | 0.64% |
| QC value within limits for B 249.772 Recovery = 91.24% | | | | | | | | |
| Ce 413.764† | 2102.5 | 0.480462 | mg/L | 0.0069776 | 0.480462 | mg/L | 0.0069776 | 1.45% |
| QC value within limits for Ce 413.764 Recovery = 96.09% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 20 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/28/2021 6:41:13 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43168.9 | 96.6 | % | 0.19 | 96.6 | % | 0.19 | 0.19% |
| Y 371.029 | 13169.1 | 97.6 | % | 0.07 | 97.6 | % | 0.07 | 0.07% |
| Al 308.215† | -11.1 | -0.0219172 | mg/L | 0.00727312 | -0.0219172 | mg/L | 0.00727312 | 33.18% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 4.0 | -0.0013437 | mg/L | 0.00104690 | -0.0013437 | mg/L | 0.00104690 | 77.91% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -26.9 | -0.149098 | mg/L | 0.0014189 | -0.149098 | mg/L | 0.0014189 | 0.95% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 0.9 | -0.0017326 | mg/L | 0.00581453 | -0.0017326 | mg/L | 0.00581453 | 335.59% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -1.2 | -0.0249389 | mg/L | 0.00632436 | -0.0249389 | mg/L | 0.00632436 | 25.36% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -168.3 | -0.0170705 | mg/L | 0.00760044 | -0.0170705 | mg/L | 0.00760044 | 44.52% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -10.9 | -0.231481 | mg/L | 0.0032138 | -0.231481 | mg/L | 0.0032138 | 1.39% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 4.2 | -0.0022567 | mg/L | 0.00016962 | -0.0022567 | mg/L | 0.00016962 | 7.52% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 1.6 | -0.0005241 | mg/L | 0.00081303 | -0.0005241 | mg/L | 0.00081303 | 155.14% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -5384.2 | -0.696353 | mg/L | 0.0105891 | -0.696353 | mg/L | 0.0105891 | 1.52% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -2.7 | -0.0052378 | mg/L | 0.00359483 | -0.0052378 | mg/L | 0.00359483 | 68.63% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 2.9 | 0.0036401 | mg/L | 0.01096557 | 0.0036401 | mg/L | 0.01096557 | 301.24% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.2 | -0.0040204 | mg/L | 0.00913829 | -0.0040204 | mg/L | 0.00913829 | 227.30% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -21.6 | -0.0017678 | mg/L | 0.00050665 | -0.0017678 | mg/L | 0.00050665 | 28.66% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 1.3 | -0.0015132 | mg/L | 0.00054938 | -0.0015132 | mg/L | 0.00054938 | 36.31% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -3.5 | -0.0028618 | mg/L | 0.00182020 | -0.0028618 | mg/L | 0.00182020 | 63.60% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | -0.3 | -0.128125 | mg/L | 0.0012101 | -0.128125 | mg/L | 0.0012101 | 0.94% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 6.2 | -0.0036992 | mg/L | 0.00002259 | -0.0036992 | mg/L | 0.00002259 | 0.61% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 21.9 | -0.0002420 | mg/L | 0.00139051 | -0.0002420 | mg/L | 0.00139051 | 574.57% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 21
Autosampler Location: 54
Sample ID: AD26083-018
Date Collected: 9/28/2021 6:45:05 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-018

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43249.0 | 96.8 | % | 0.86 | 96.8 | % | 0.86 | 0.89% |
| Y 371.029 | 13222.5 | 98.0 | % | 0.73 | 98.0 | % | 0.73 | 0.74% |
| Al 308.215† | 1322.7 | 1.44236 | mg/L | 0.023988 | 1.44236 | mg/L | 0.023988 | 1.66% |
| Ba 233.527† | 553.6 | 0.113965 | mg/L | 0.0016112 | 0.113965 | mg/L | 0.0016112 | 1.41% |
| Ca 315.887† | 65513.5 | 12.3065 | mg/L | 0.03011 | 12.3065 | mg/L | 0.03011 | 0.24% |
| Cu 327.393† | 321.7 | 0.0745277 | mg/L | 0.00175421 | 0.0745277 | mg/L | 0.00175421 | 2.35% |
| Fe 273.955† | 4626.8 | 3.94917 | mg/L | 0.014736 | 3.94917 | mg/L | 0.014736 | 0.37% |
| K 766.490† | 7489.0 | 4.13972 | mg/L | 0.038767 | 4.13972 | mg/L | 0.038767 | 0.94% |
| Mg 279.077† | 9464.9 | 14.3306 | mg/L | 0.06142 | 14.3306 | mg/L | 0.06142 | 0.43% |
| Mn 257.610† | 5002.9 | 0.168209 | mg/L | 0.0012009 | 0.168209 | mg/L | 0.0012009 | 0.71% |
| Mo 202.031† | 0.8 | -0.0010999 | mg/L | 0.00133061 | -0.0010999 | mg/L | 0.00133061 | 120.98% |
| Na 589.592† | 811219.7 | 86.4026 | mg/L | 1.14258 | 86.4026 | mg/L | 1.14258 | 1.32% |
| Ni 231.604† | 61.7 | 0.0291613 | mg/L | 0.00411284 | 0.0291613 | mg/L | 0.00411284 | 14.10% |
| Se 196.026† | 3.4 | 0.0089456 | mg/L | 0.00605122 | 0.0089456 | mg/L | 0.00605122 | 67.65% |
| Sn 189.927† | -7.1 | -0.0151072 | mg/L | 0.00765816 | -0.0151072 | mg/L | 0.00765816 | 50.69% |
| Ti 334.940† | 3546.1 | 0.0798909 | mg/L | 0.00063444 | 0.0798909 | mg/L | 0.00063444 | 0.79% |
| V 290.880† | 193.1 | 0.0158524 | mg/L | 0.00198846 | 0.0158524 | mg/L | 0.00198846 | 12.54% |
| Zn 206.200† | 242.3 | 0.0623301 | mg/L | 0.00062671 | 0.0623301 | mg/L | 0.00062671 | 1.01% |
| Si 251.611† | 31195.0 | 11.6634 | mg/L | 0.06644 | 11.6634 | mg/L | 0.06644 | 0.57% |
| B 249.772† | 1060.5 | 0.132614 | mg/L | 0.0019567 | 0.132614 | mg/L | 0.0019567 | 1.48% |
| Ce 413.764† | 26.8 | 0.0009056 | mg/L | 0.00453364 | 0.0009056 | mg/L | 0.00453364 | 500.64% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 22
Autosampler Location: 55
Sample ID: AD26083-026
Date Collected: 9/28/2021 6:49:13 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-026

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42972.5 | 96.2 | % | 0.27 | 96.2 | % | 0.27 | 0.28% |
| Y 371.029 | 13036.0 | 96.6 | % | 0.42 | 96.6 | % | 0.42 | 0.43% |
| Al 308.215† | 103.1 | 0.104648 | mg/L | 0.0118350 | 0.104648 | mg/L | 0.0118350 | 11.31% |
| Ba 233.527† | 1947.0 | 0.414077 | mg/L | 0.0015667 | 0.414077 | mg/L | 0.0015667 | 0.38% |
| Ca 315.887† | 299347.9 | 56.7456 | mg/L | 0.54734 | 56.7456 | mg/L | 0.54734 | 0.96% |
| Cu 327.393† | -110.5 | 0.0002348 | mg/L | 0.00320073 | 0.0002348 | mg/L | 0.00320073 | >999.9% |
| Fe 273.955† | 149.3 | 0.104285 | mg/L | 0.0063742 | 0.104285 | mg/L | 0.0063742 | 6.11% |
| K 766.490† | 4298.8 | 2.40790 | mg/L | 0.011234 | 2.40790 | mg/L | 0.011234 | 0.47% |
| Mg 279.077† | 8025.4 | 12.1184 | mg/L | 0.06514 | 12.1184 | mg/L | 0.06514 | 0.54% |
| Mn 257.610† | 1755.3 | 0.0588241 | mg/L | 0.00050515 | 0.0588241 | mg/L | 0.00050515 | 0.86% |
| Mo 202.031† | 10.1 | 0.0054077 | mg/L | 0.00256801 | 0.0054077 | mg/L | 0.00256801 | 47.49% |
| Na 589.592† | 368969.0 | 39.2322 | mg/L | 0.35239 | 39.2322 | mg/L | 0.35239 | 0.90% |
| Ni 231.604† | -0.1 | -0.0038448 | mg/L | 0.00206068 | -0.0038448 | mg/L | 0.00206068 | 53.60% |
| Se 196.026† | 6.6 | 0.0165619 | mg/L | 0.00786979 | 0.0165619 | mg/L | 0.00786979 | 47.52% |
| Sn 189.927† | -10.8 | -0.0220130 | mg/L | 0.00174902 | -0.0220130 | mg/L | 0.00174902 | 7.95% |
| Ti 334.940† | -229.7 | 0.0028357 | mg/L | 0.00076984 | 0.0028357 | mg/L | 0.00076984 | 27.15% |
| V 290.880† | 136.6 | 0.0098965 | mg/L | 0.00126292 | 0.0098965 | mg/L | 0.00126292 | 12.76% |
| Zn 206.200† | 95.5 | 0.0233979 | mg/L | 0.00058518 | 0.0233979 | mg/L | 0.00058518 | 2.50% |
| Si 251.611† | 14049.0 | 5.18238 | mg/L | 0.019101 | 5.18238 | mg/L | 0.019101 | 0.37% |
| B 249.772† | 1410.7 | 0.198773 | mg/L | 0.0016351 | 0.198773 | mg/L | 0.0016351 | 0.82% |
| Ce 413.764† | 8.1 | -0.0034149 | mg/L | 0.00776765 | -0.0034149 | mg/L | 0.00776765 | 227.47% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 23
Autosampler Location: 56
Sample ID: AD26083-027
Date Collected: 9/28/2021 6:53:20 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-027

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42288.5 | 94.7 | % | 0.95 | 94.7 | % | 0.95 | 1.00% |
| Y 371.029 | 12802.3 | 94.9 | % | 0.96 | 94.9 | % | 0.96 | 1.01% |
| Al 308.215† | 125.8 | 0.129044 | mg/L | 0.0082662 | 0.129044 | mg/L | 0.0082662 | 6.41% |
| Ba 233.527† | 439.1 | 0.0914963 | mg/L | 0.00140130 | 0.0914963 | mg/L | 0.00140130 | 1.53% |
| Ca 315.887† | 29900.4 | 5.53844 | mg/L | 0.021121 | 5.53844 | mg/L | 0.021121 | 0.38% |
| Cu 327.393† | 5.1 | 0.0018446 | mg/L | 0.00469497 | 0.0018446 | mg/L | 0.00469497 | 254.52% |
| Fe 273.955† | 436.4 | 0.350803 | mg/L | 0.0073726 | 0.350803 | mg/L | 0.0073726 | 2.10% |
| K 766.490† | 28344.7 | 15.4614 | mg/L | 0.07755 | 15.4614 | mg/L | 0.07755 | 0.50% |
| Mg 279.077† | 4096.8 | 6.08107 | mg/L | 0.033678 | 6.08107 | mg/L | 0.033678 | 0.55% |
| Mn 257.610† | 1282.2 | 0.0418130 | mg/L | 0.00047129 | 0.0418130 | mg/L | 0.00047129 | 1.13% |
| Mo 202.031† | 15.8 | 0.0093971 | mg/L | 0.00425831 | 0.0093971 | mg/L | 0.00425831 | 45.32% |
| Na 589.592† | 3164097.0 | 337.361 | mg/L | 5.0873 | 337.361 | mg/L | 5.0873 | 1.51% |
| Ni 231.604† | 11.7 | 0.0022948 | mg/L | 0.00229105 | 0.0022948 | mg/L | 0.00229105 | 99.84% |
| Se 196.026† | 4.6 | 0.0099072 | mg/L | 0.01408611 | 0.0099072 | mg/L | 0.01408611 | 142.18% |
| Sn 189.927† | -6.8 | -0.0163733 | mg/L | 0.00486403 | -0.0163733 | mg/L | 0.00486403 | 29.71% |
| Ti 334.940† | 305.9 | 0.0064660 | mg/L | 0.00032147 | 0.0064660 | mg/L | 0.00032147 | 4.97% |
| V 290.880† | 105.0 | 0.0085058 | mg/L | 0.00213306 | 0.0085058 | mg/L | 0.00213306 | 25.08% |
| Zn 206.200† | 14.7 | 0.0019852 | mg/L | 0.00056078 | 0.0019852 | mg/L | 0.00056078 | 28.25% |
| Si 251.611† | 20545.8 | 7.63811 | mg/L | 0.015077 | 7.63811 | mg/L | 0.015077 | 0.20% |
| B 249.772† | 3669.8 | 0.524272 | mg/L | 0.0012264 | 0.524272 | mg/L | 0.0012264 | 0.23% |
| Ce 413.764† | 58.5 | 0.0082186 | mg/L | 0.00582181 | 0.0082186 | mg/L | 0.00582181 | 70.84% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 24
Autosampler Location: 57
Sample ID: AD26083-032
Date Collected: 9/28/2021 6:57:30 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-032

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 40416.6 | 90.5 | % | 2.80 | 90.5 | % | 2.80 | 3.09% |
| Y 371.029 | 11561.1 | 85.7 | % | 2.92 | 85.7 | % | 2.92 | 3.41% |
| Al 308.215† | 46.2 | 0.0789796 | mg/L | 0.02116800 | 0.0789796 | mg/L | 0.02116800 | 26.80% |
| Ba 233.527† | 493.0 | 0.0910393 | mg/L | 0.00156582 | 0.0910393 | mg/L | 0.00156582 | 1.72% |
| Ca 315.887† | 2571282.4 | 488.515 | mg/L | 17.0578 | 488.515 | mg/L | 17.0578 | 3.49% |
| Cu 327.393† | -812.1 | 0.0467422 | mg/L | 0.01073457 | 0.0467422 | mg/L | 0.01073457 | 22.97% |
| Fe 273.955† | 25555.6 | 21.9210 | mg/L | 0.11700 | 21.9210 | mg/L | 0.11700 | 0.53% |
| K 766.490† | 139730.1 | 75.9279 | mg/L | 3.07578 | 75.9279 | mg/L | 3.07578 | 4.05% |
| Mg 279.077† | 334444.7 | 513.745 | mg/L | 16.6662 | 513.745 | mg/L | 16.6662 | 3.24% |
| Mn 257.610† | 73559.5 | 2.56248 | mg/L | 0.008835 | 2.56248 | mg/L | 0.008835 | 0.34% |
| Mo 202.031† | -13.6 | -0.0111659 | mg/L | 0.00664142 | -0.0111659 | mg/L | 0.00664142 | 59.48% |
| Na 589.592† | Saturated3 | | | | | | | |
| Ni 231.604† | -27.5 | -0.0097311 | mg/L | 0.00173931 | -0.0097311 | mg/L | 0.00173931 | 17.87% |
| Se 196.026† | -10.3 | -0.0219744 | mg/L | 0.02332157 | -0.0219744 | mg/L | 0.02332157 | 106.13% |
| Sn 189.927† | -124.9 | -0.242880 | mg/L | 0.0188048 | -0.242880 | mg/L | 0.0188048 | 7.74% |
| Ti 334.940† | -4113.9 | -0.0136842 | mg/L | 0.00202614 | -0.0136842 | mg/L | 0.00202614 | 14.81% |
| V 290.880† | 3403.0 | 0.203569 | mg/L | 0.0221311 | 0.203569 | mg/L | 0.0221311 | 10.87% |
| Zn 206.200† | 88.6 | 0.0215638 | mg/L | 0.00234763 | 0.0215638 | mg/L | 0.00234763 | 10.89% |
| Si 251.611† | 31716.9 | 11.8607 | mg/L | 0.01619 | 11.8607 | mg/L | 0.01619 | 0.14% |
| B 249.772† | 9094.2 | 1.22104 | mg/L | 0.005546 | 1.22104 | mg/L | 0.005546 | 0.45% |
| Ce 413.764† | -57.8 | -0.0186562 | mg/L | 0.00771285 | -0.0186562 | mg/L | 0.00771285 | 41.34% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 25 Autosampler Location: 58
Sample ID: AD26083-033 Date Collected: 9/28/2021 7:02:54 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-033

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 44385.8 | 99.4 | % | 0.91 | 99.4 | % | 0.91 | 0.92% |
| Y 371.029 | 13485.1 | 100.0 | % | 0.85 | 100.0 | % | 0.85 | 0.86% |
| Al 308.215† | 1.4 | -0.0082202 | mg/L | 0.00275928 | -0.0082202 | mg/L | 0.00275928 | 33.57% |
| Ba 233.527† | 3.1 | -0.0015492 | mg/L | 0.00116376 | -0.0015492 | mg/L | 0.00116376 | 75.12% |
| Ca 315.887† | 443.3 | -0.0597345 | mg/L | 0.00320234 | -0.0597345 | mg/L | 0.00320234 | 5.36% |
| Cu 327.393† | 7.0 | -0.0003507 | mg/L | 0.00232597 | -0.0003507 | mg/L | 0.00232597 | 663.16% |
| Fe 273.955† | 19.5 | -0.0072024 | mg/L | 0.00071565 | -0.0072024 | mg/L | 0.00071565 | 9.94% |
| K 766.490† | 567.7 | 0.382466 | mg/L | 0.0534916 | 0.382466 | mg/L | 0.0534916 | 13.99% |
| Mg 279.077† | 0.6 | -0.213763 | mg/L | 0.0048429 | -0.213763 | mg/L | 0.0048429 | 2.27% |
| Mn 257.610† | 19.0 | -0.0017546 | mg/L | 0.00010860 | -0.0017546 | mg/L | 0.00010860 | 6.19% |
| Mo 202.031† | 2.0 | -0.0002418 | mg/L | 0.00207886 | -0.0002418 | mg/L | 0.00207886 | 859.84% |
| Na 589.592† | 9480.5 | 0.889109 | mg/L | 0.1448520 | 0.889109 | mg/L | 0.1448520 | 16.29% |
| Ni 231.604† | 4.4 | -0.0015831 | mg/L | 0.00301862 | -0.0015831 | mg/L | 0.00301862 | 190.68% |
| Se 196.026† | 0.0 | -0.0065480 | mg/L | 0.01142728 | -0.0065480 | mg/L | 0.01142728 | 174.51% |
| Sn 189.927† | -4.4 | -0.0107256 | mg/L | 0.01045175 | -0.0107256 | mg/L | 0.01045175 | 97.45% |
| Ti 334.940† | 36.4 | -0.0004584 | mg/L | 0.00053937 | -0.0004584 | mg/L | 0.00053937 | 117.67% |
| V 290.880† | -5.0 | -0.0022903 | mg/L | 0.00183884 | -0.0022903 | mg/L | 0.00183884 | 80.29% |
| Zn 206.200† | 82.5 | 0.0199431 | mg/L | 0.00041372 | 0.0199431 | mg/L | 0.00041372 | 2.07% |
| Si 251.611† | 70.7 | -0.101290 | mg/L | 0.0018176 | -0.101290 | mg/L | 0.0018176 | 1.79% |
| B 249.772† | 8.0 | -0.0035058 | mg/L | 0.00079601 | -0.0035058 | mg/L | 0.00079601 | 22.71% |
| Ce 413.764† | -3.6 | -0.0061134 | mg/L | 0.01045131 | -0.0061134 | mg/L | 0.01045131 | 170.96% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 26
Sample ID: AD26083-035
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 59
Date Collected: 9/28/2021 7:06:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-035

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42835.8 | 95.9 | % | 0.46 | 95.9 | % | 0.46 | 0.48% |
| Y 371.029 | 12930.1 | 95.9 | % | 0.60 | 95.9 | % | 0.60 | 0.62% |
| Al 308.215† | 73.0 | 0.0729140 | mg/L | 0.00658143 | 0.0729140 | mg/L | 0.00658143 | 9.03% |
| Ba 233.527† | 1065.6 | 0.225534 | mg/L | 0.0027818 | 0.225534 | mg/L | 0.0027818 | 1.23% |
| Ca 315.887† | 92930.4 | 17.5170 | mg/L | 0.00920 | 17.5170 | mg/L | 0.00920 | 0.05% |
| Cu 327.393† | 2.9 | 0.0069338 | mg/L | 0.00343637 | 0.0069338 | mg/L | 0.00343637 | 49.56% |
| Fe 273.955† | 292.7 | 0.227439 | mg/L | 0.0049379 | 0.227439 | mg/L | 0.0049379 | 2.17% |
| K 766.490† | 60776.7 | 33.0674 | mg/L | 0.37863 | 33.0674 | mg/L | 0.37863 | 1.15% |
| Mg 279.077† | 13268.2 | 20.1754 | mg/L | 0.05951 | 20.1754 | mg/L | 0.05951 | 0.29% |
| Mn 257.610† | 205.3 | 0.0083310 | mg/L | 0.00015728 | 0.0083310 | mg/L | 0.00015728 | 1.89% |
| Mo 202.031† | 0.0 | -0.0016460 | mg/L | 0.00256402 | -0.0016460 | mg/L | 0.00256402 | 155.77% |
| Na 589.592† | 2546510.1 | 271.489 | mg/L | 3.0756 | 271.489 | mg/L | 3.0756 | 1.13% |
| Ni 231.604† | 2.5 | -0.0024934 | mg/L | 0.00309093 | -0.0024934 | mg/L | 0.00309093 | 123.97% |
| Se 196.026† | 7.4 | 0.0196264 | mg/L | 0.00970845 | 0.0196264 | mg/L | 0.00970845 | 49.47% |
| Sn 189.927† | -12.7 | -0.0306422 | mg/L | 0.00737120 | -0.0306422 | mg/L | 0.00737120 | 24.06% |
| Ti 334.940† | -19.3 | 0.0011557 | mg/L | 0.00016796 | 0.0011557 | mg/L | 0.00016796 | 14.53% |
| V 290.880† | 241.4 | 0.0193537 | mg/L | 0.00533970 | 0.0193537 | mg/L | 0.00533970 | 27.59% |
| Zn 206.200† | 34.9 | 0.0073192 | mg/L | 0.00084133 | 0.0073192 | mg/L | 0.00084133 | 11.49% |
| Si 251.611† | 5090.3 | 1.79607 | mg/L | 0.005968 | 1.79607 | mg/L | 0.005968 | 0.33% |
| B 249.772† | 694.1 | 0.0947025 | mg/L | 0.00219256 | 0.0947025 | mg/L | 0.00219256 | 2.32% |
| Ce 413.764† | 43.2 | 0.0046935 | mg/L | 0.01224645 | 0.0046935 | mg/L | 0.01224645 | 260.92% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 27 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/28/2021 7:10:59 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43281.3 | 96.9 | % | 0.33 | 96.9 | % | 0.33 | 0.34% |
| Y 371.029 | 13104.5 | 97.1 | % | 0.63 | 97.1 | % | 0.63 | 0.64% |
| Al 308.215† | 4367.7 | 4.80727 | mg/L | 0.027366 | 4.80727 | mg/L | 0.027366 | 0.57% |
| QC value within limits for Al 308.215 Recovery = 96.15% | | | | | | | | |
| Ba 233.527† | 2217.1 | 0.469290 | mg/L | 0.0011811 | 0.469290 | mg/L | 0.0011811 | 0.25% |
| QC value within limits for Ba 233.527 Recovery = 93.86% | | | | | | | | |
| Ca 315.887† | 243379.8 | 46.1091 | mg/L | 0.32828 | 46.1091 | mg/L | 0.32828 | 0.71% |
| QC value within limits for Ca 315.887 Recovery = 92.22% | | | | | | | | |
| Cu 327.393† | 2274.6 | 0.519136 | mg/L | 0.0065140 | 0.519136 | mg/L | 0.0065140 | 1.25% |
| QC value within limits for Cu 327.393 Recovery = 103.83% | | | | | | | | |
| Fe 273.955† | 5490.4 | 4.69072 | mg/L | 0.018759 | 4.69072 | mg/L | 0.018759 | 0.40% |
| QC value within limits for Fe 273.955 Recovery = 93.81% | | | | | | | | |
| K 766.490† | 85997.9 | 46.7590 | mg/L | 0.27557 | 46.7590 | mg/L | 0.27557 | 0.59% |
| QC value within limits for K 766.490 Recovery = 93.52% | | | | | | | | |
| Mg 279.077† | 30562.4 | 46.7523 | mg/L | 0.07278 | 46.7523 | mg/L | 0.07278 | 0.16% |
| QC value within limits for Mg 279.077 Recovery = 93.50% | | | | | | | | |
| Mn 257.610† | 13856.2 | 0.471366 | mg/L | 0.0026143 | 0.471366 | mg/L | 0.0026143 | 0.55% |
| QC value within limits for Mn 257.610 Recovery = 94.27% | | | | | | | | |
| Mo 202.031† | 660.0 | 0.460267 | mg/L | 0.0044772 | 0.460267 | mg/L | 0.0044772 | 0.97% |
| QC value within limits for Mo 202.031 Recovery = 92.05% | | | | | | | | |
| Na 589.592† | 445610.5 | 47.4067 | mg/L | 0.28394 | 47.4067 | mg/L | 0.28394 | 0.60% |
| QC value within limits for Na 589.592 Recovery = 94.81% | | | | | | | | |
| Ni 231.604† | 915.6 | 0.467580 | mg/L | 0.0037939 | 0.467580 | mg/L | 0.0037939 | 0.81% |
| QC value within limits for Ni 231.604 Recovery = 93.52% | | | | | | | | |
| Se 196.026† | 132.0 | 0.460938 | mg/L | 0.0151886 | 0.460938 | mg/L | 0.0151886 | 3.30% |
| QC value within limits for Se 196.026 Recovery = 92.19% | | | | | | | | |
| Sn 189.927† | 150.1 | 0.468305 | mg/L | 0.0106605 | 0.468305 | mg/L | 0.0106605 | 2.28% |
| QC value within limits for Sn 189.927 Recovery = 93.66% | | | | | | | | |
| Ti 334.940† | 21116.6 | 0.477572 | mg/L | 0.0034863 | 0.477572 | mg/L | 0.0034863 | 0.73% |
| QC value within limits for Ti 334.940 Recovery = 95.51% | | | | | | | | |
| V 290.880† | 3888.4 | 0.450373 | mg/L | 0.0065467 | 0.450373 | mg/L | 0.0065467 | 1.45% |
| QC value within limits for V 290.880 Recovery = 90.07% | | | | | | | | |
| Zn 206.200† | 1752.3 | 0.462793 | mg/L | 0.0018275 | 0.462793 | mg/L | 0.0018275 | 0.39% |
| QC value within limits for Zn 206.200 Recovery = 92.56% | | | | | | | | |
| Si 251.611† | 12636.3 | 4.64839 | mg/L | 0.013615 | 4.64839 | mg/L | 0.013615 | 0.29% |
| QC value within limits for Si 251.611 Recovery = 92.97% | | | | | | | | |
| B 249.772† | 3215.0 | 0.441001 | mg/L | 0.0037825 | 0.441001 | mg/L | 0.0037825 | 0.86% |
| QC value less than the lower limit for B 249.772 Recovery = 88.20% | | | | | | | | |
| Ce 413.764† | 2054.8 | 0.469448 | mg/L | 0.0094899 | 0.469448 | mg/L | 0.0094899 | 2.02% |
| QC value within limits for Ce 413.764 Recovery = 93.89% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 28 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/28/2021 7:15:07 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 44076.7 | 98.7 | % | 0.46 | 98.7 | % | 0.46 | 0.47% |
| Y 371.029 | 13506.0 | 100 | % | 0.44 | 100 | % | 0.44 | 0.44% |
| Al 308.215† | -3.4 | -0.0134820 | mg/L | 0.01349666 | -0.0134820 | mg/L | 0.01349666 | 100.11% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 2.8 | -0.0015999 | mg/L | 0.00194291 | -0.0015999 | mg/L | 0.00194291 | 121.44% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -18.3 | -0.147471 | mg/L | 0.0032636 | -0.147471 | mg/L | 0.0032636 | 2.21% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -15.7 | -0.0053665 | mg/L | 0.00421438 | -0.0053665 | mg/L | 0.00421438 | 78.53% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 8.6 | -0.0165605 | mg/L | 0.00481452 | -0.0165605 | mg/L | 0.00481452 | 29.07% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | 28.3 | 0.0896524 | mg/L | 0.02697744 | 0.0896524 | mg/L | 0.02697744 | 30.09% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -3.6 | -0.220200 | mg/L | 0.0170850 | -0.220200 | mg/L | 0.0170850 | 7.76% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 4.3 | -0.0022503 | mg/L | 0.00022520 | -0.0022503 | mg/L | 0.00022520 | 10.01% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 2.6 | 0.0001735 | mg/L | 0.00212791 | 0.0001735 | mg/L | 0.00212791 | >999.9% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -926.4 | -0.220888 | mg/L | 0.0202205 | -0.220888 | mg/L | 0.0202205 | 9.15% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 2.4 | -0.0026060 | mg/L | 0.00506259 | -0.0026060 | mg/L | 0.00506259 | 194.27% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 8.9 | 0.0246837 | mg/L | 0.01350252 | 0.0246837 | mg/L | 0.01350252 | 54.70% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.2 | -0.0039455 | mg/L | 0.01037250 | -0.0039455 | mg/L | 0.01037250 | 262.89% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 24.4 | -0.0007402 | mg/L | 0.00062326 | -0.0007402 | mg/L | 0.00062326 | 84.20% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 13.8 | -0.0000051 | mg/L | 0.00154910 | -0.0000051 | mg/L | 0.00154910 | >999.9% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -2.4 | -0.0025502 | mg/L | 0.00076761 | -0.0025502 | mg/L | 0.00076761 | 30.10% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | -1.0 | -0.128382 | mg/L | 0.0005417 | -0.128382 | mg/L | 0.0005417 | 0.42% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -2.5 | -0.0049804 | mg/L | 0.00149755 | -0.0049804 | mg/L | 0.00149755 | 30.07% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 67.3 | 0.0102676 | mg/L | 0.00761913 | 0.0102676 | mg/L | 0.00761913 | 74.21% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 29 Autosampler Location: 60
Sample ID: MB 94428 (1) Date Collected: 9/28/2021 7:18:59 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: MB 94428 (1)

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 44189.9 | 98.9 | % | 1.24 | 98.9 | % | 1.24 | 1.25% |
| Y 371.029 | 13445.6 | 99.7 | % | 1.48 | 99.7 | % | 1.48 | 1.49% |
| Al 308.215† | -1.0 | -0.0108700 | mg/L | 0.00854521 | -0.0108700 | mg/L | 0.00854521 | 78.61% |
| Ba 233.527† | -0.5 | -0.0023512 | mg/L | 0.00076048 | -0.0023512 | mg/L | 0.00076048 | 32.34% |
| Ca 315.887† | 742.8 | -0.0028216 | mg/L | 0.00249840 | -0.0028216 | mg/L | 0.00249840 | 88.55% |
| Cu 327.393† | 22.5 | 0.0030927 | mg/L | 0.00198755 | 0.0030927 | mg/L | 0.00198755 | 64.27% |
| Fe 273.955† | 68.5 | 0.0348746 | mg/L | 0.00538752 | 0.0348746 | mg/L | 0.00538752 | 15.45% |
| K 766.490† | -104.3 | 0.0176432 | mg/L | 0.01397106 | 0.0176432 | mg/L | 0.01397106 | 79.19% |
| Mg 279.077† | -11.6 | -0.232520 | mg/L | 0.0024676 | -0.232520 | mg/L | 0.0024676 | 1.06% |
| Mn 257.610† | 67.0 | -0.0001486 | mg/L | 0.00023602 | -0.0001486 | mg/L | 0.00023602 | 158.85% |
| Mo 202.031† | 3.2 | 0.0005404 | mg/L | 0.00370161 | 0.0005404 | mg/L | 0.00370161 | 685.03% |
| Na 589.592† | -2880.3 | -0.429286 | mg/L | 0.0208075 | -0.429286 | mg/L | 0.0208075 | 4.85% |
| Ni 231.604† | 3.0 | -0.0022590 | mg/L | 0.00244043 | -0.0022590 | mg/L | 0.00244043 | 108.03% |
| Se 196.026† | 5.5 | 0.0125764 | mg/L | 0.01377006 | 0.0125764 | mg/L | 0.01377006 | 109.49% |
| Sn 189.927† | -2.8 | -0.0058810 | mg/L | 0.00223602 | -0.0058810 | mg/L | 0.00223602 | 38.02% |
| Ti 334.940† | -18.8 | -0.0016807 | mg/L | 0.00037081 | -0.0016807 | mg/L | 0.00037081 | 22.06% |
| V 290.880† | 6.9 | -0.0008365 | mg/L | 0.00186352 | -0.0008365 | mg/L | 0.00186352 | 222.77% |
| Zn 206.200† | 21.9 | 0.0038714 | mg/L | 0.00202416 | 0.0038714 | mg/L | 0.00202416 | 52.28% |
| Si 251.611† | 29.9 | -0.116699 | mg/L | 0.0026586 | -0.116699 | mg/L | 0.0026586 | 2.28% |
| B 249.772† | 1.5 | -0.0046109 | mg/L | 0.00082804 | -0.0046109 | mg/L | 0.00082804 | 17.96% |
| Ce 413.764† | 29.5 | 0.0015342 | mg/L | 0.00389500 | 0.0015342 | mg/L | 0.00389500 | 253.88% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 30
Autosampler Location: 61
Sample ID: LCS 94428
Date Collected: 9/28/2021 7:22:51 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LCS 94428

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42826.4 | 95.9 | % | 0.13 | 95.9 | % | 0.13 | 0.14% |
| Y 371.029 | 12873.2 | 95.4 | % | 0.35 | 95.4 | % | 0.35 | 0.37% |
| Al 308.215† | 4359.6 | 4.79864 | mg/L | 0.022146 | 4.79864 | mg/L | 0.022146 | 0.46% |
| Ba 233.527† | 2187.5 | 0.462954 | mg/L | 0.0047429 | 0.462954 | mg/L | 0.0047429 | 1.02% |
| Ca 315.887† | 242857.3 | 46.0098 | mg/L | 0.11086 | 46.0098 | mg/L | 0.11086 | 0.24% |
| Cu 327.393† | 2248.3 | 0.513316 | mg/L | 0.0040435 | 0.513316 | mg/L | 0.0040435 | 0.79% |
| Fe 273.955† | 5501.5 | 4.70032 | mg/L | 0.040341 | 4.70032 | mg/L | 0.040341 | 0.86% |
| K 766.490† | 86366.3 | 46.9589 | mg/L | 0.08876 | 46.9589 | mg/L | 0.08876 | 0.19% |
| Mg 279.077† | 30357.6 | 46.4375 | mg/L | 0.20200 | 46.4375 | mg/L | 0.20200 | 0.44% |
| Mn 257.610† | 13840.3 | 0.470775 | mg/L | 0.0022015 | 0.470775 | mg/L | 0.0022015 | 0.47% |
| Mo 202.031† | 661.1 | 0.461020 | mg/L | 0.0050958 | 0.461020 | mg/L | 0.0050958 | 1.11% |
| Na 589.592† | 445701.1 | 47.4164 | mg/L | 0.12947 | 47.4164 | mg/L | 0.12947 | 0.27% |
| Ni 231.604† | 922.3 | 0.471018 | mg/L | 0.0051316 | 0.471018 | mg/L | 0.0051316 | 1.09% |
| Se 196.026† | 131.3 | 0.458577 | mg/L | 0.0308354 | 0.458577 | mg/L | 0.0308354 | 6.72% |
| Sn 189.927† | 144.1 | 0.449892 | mg/L | 0.0088768 | 0.449892 | mg/L | 0.0088768 | 1.97% |
| Ti 334.940† | 21059.9 | 0.476291 | mg/L | 0.0024816 | 0.476291 | mg/L | 0.0024816 | 0.52% |
| V 290.880† | 3962.2 | 0.459439 | mg/L | 0.0076372 | 0.459439 | mg/L | 0.0076372 | 1.66% |
| Zn 206.200† | 1731.8 | 0.457359 | mg/L | 0.0034942 | 0.457359 | mg/L | 0.0034942 | 0.76% |
| Si 251.611† | 1379.7 | 0.393505 | mg/L | 0.0040067 | 0.393505 | mg/L | 0.0040067 | 1.02% |
| B 249.772† | 3276.1 | 0.449782 | mg/L | 0.0016096 | 0.449782 | mg/L | 0.0016096 | 0.36% |
| Ce 413.764† | 2270.5 | 0.519272 | mg/L | 0.0061215 | 0.519272 | mg/L | 0.0061215 | 1.18% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 31
Autosampler Location: 62
Sample ID: LCS MR 94428
Date Collected: 9/28/2021 7:26:59 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LCS MR 94428

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42973.1 | 96.2 | % | 0.18 | 96.2 | % | 0.18 | 0.19% |
| Y 371.029 | 12920.0 | 95.8 | % | 0.06 | 95.8 | % | 0.06 | 0.06% |
| Al 308.215† | 4359.4 | 4.79775 | mg/L | 0.034973 | 4.79775 | mg/L | 0.034973 | 0.73% |
| Ba 233.527† | 2186.9 | 0.462855 | mg/L | 0.0046168 | 0.462855 | mg/L | 0.0046168 | 1.00% |
| Ca 315.887† | 241980.1 | 45.8431 | mg/L | 0.22922 | 45.8431 | mg/L | 0.22922 | 0.50% |
| Cu 327.393† | 2247.8 | 0.513135 | mg/L | 0.0044650 | 0.513135 | mg/L | 0.0044650 | 0.87% |
| Fe 273.955† | 5426.6 | 4.63598 | mg/L | 0.013732 | 4.63598 | mg/L | 0.013732 | 0.30% |
| K 766.490† | 86221.6 | 46.8804 | mg/L | 0.19353 | 46.8804 | mg/L | 0.19353 | 0.41% |
| Mg 279.077† | 30269.5 | 46.3022 | mg/L | 0.05660 | 46.3022 | mg/L | 0.05660 | 0.12% |
| Mn 257.610† | 13789.4 | 0.469041 | mg/L | 0.0008387 | 0.469041 | mg/L | 0.0008387 | 0.18% |
| Mo 202.031† | 664.4 | 0.463332 | mg/L | 0.0022887 | 0.463332 | mg/L | 0.0022887 | 0.49% |
| Na 589.592† | 444421.6 | 47.2799 | mg/L | 0.22358 | 47.2799 | mg/L | 0.22358 | 0.47% |
| Ni 231.604† | 901.5 | 0.460336 | mg/L | 0.0013106 | 0.460336 | mg/L | 0.0013106 | 0.28% |
| Se 196.026† | 129.2 | 0.451091 | mg/L | 0.0333432 | 0.451091 | mg/L | 0.0333432 | 7.39% |
| Sn 189.927† | 146.1 | 0.456160 | mg/L | 0.0122960 | 0.456160 | mg/L | 0.0122960 | 2.70% |
| Ti 334.940† | 20957.8 | 0.473985 | mg/L | 0.0004096 | 0.473985 | mg/L | 0.0004096 | 0.09% |
| V 290.880† | 3897.9 | 0.451707 | mg/L | 0.0032084 | 0.451707 | mg/L | 0.0032084 | 0.71% |
| Zn 206.200† | 1716.7 | 0.453341 | mg/L | 0.0023227 | 0.453341 | mg/L | 0.0023227 | 0.51% |
| Si 251.611† | 1369.3 | 0.389554 | mg/L | 0.0043845 | 0.389554 | mg/L | 0.0043845 | 1.13% |
| B 249.772† | 3294.2 | 0.452656 | mg/L | 0.0055891 | 0.452656 | mg/L | 0.0055891 | 1.23% |
| Ce 413.764† | 2272.8 | 0.519800 | mg/L | 0.0077607 | 0.519800 | mg/L | 0.0077607 | 1.49% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 32
Autosampler Location: 63
Sample ID: AD26083-040
Date Collected: 9/28/2021 7:31:07 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-040

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 42087.7 | 94.2 | % | 0.73 | 94.2 | % | 0.73 | 0.78% |
| Y 371.029 | 12776.8 | 94.7 | % | 0.74 | 94.7 | % | 0.74 | 0.78% |
| Al 308.215† | 140.2 | 0.159191 | mg/L | 0.0172248 | 0.159191 | mg/L | 0.0172248 | 10.82% |
| Ba 233.527† | 10055.5 | 2.14222 | mg/L | 0.008329 | 2.14222 | mg/L | 0.008329 | 0.39% |
| Ca 315.887† | 477653.4 | 90.6317 | mg/L | 0.12320 | 90.6317 | mg/L | 0.12320 | 0.14% |
| Cu 327.393† | -125.3 | 0.0127334 | mg/L | 0.00399271 | 0.0127334 | mg/L | 0.00399271 | 31.36% |
| Fe 273.955† | 12332.9 | 10.5665 | mg/L | 0.00528 | 10.5665 | mg/L | 0.00528 | 0.05% |
| K 766.490† | 205945.6 | 111.874 | mg/L | 0.2494 | 111.874 | mg/L | 0.2494 | 0.22% |
| Mg 279.077† | 88559.1 | 135.879 | mg/L | 0.3484 | 135.879 | mg/L | 0.3484 | 0.26% |
| Mn 257.610† | 15053.2 | 0.528295 | mg/L | 0.0016532 | 0.528295 | mg/L | 0.0016532 | 0.31% |
| Mo 202.031† | -0.1 | -0.0017103 | mg/L | 0.00098207 | -0.0017103 | mg/L | 0.00098207 | 57.42% |
| Na 589.592† | 11818697.0 | 1260.46 | mg/L | 11.654 | 1260.46 | mg/L | 11.654 | 0.92% |
| Ni 231.604† | 29.7 | 0.0153857 | mg/L | 0.00338847 | 0.0153857 | mg/L | 0.00338847 | 22.02% |
| Se 196.026† | 5.2 | 0.0217802 | mg/L | 0.03034358 | 0.0217802 | mg/L | 0.03034358 | 139.32% |
| Sn 189.927† | -45.3 | -0.103489 | mg/L | 0.0151895 | -0.103489 | mg/L | 0.0151895 | 14.68% |
| Ti 334.940† | -290.5 | 0.0069869 | mg/L | 0.00160178 | 0.0069869 | mg/L | 0.00160178 | 22.93% |
| V 290.880† | 1371.2 | 0.109602 | mg/L | 0.0026432 | 0.109602 | mg/L | 0.0026432 | 2.41% |
| Zn 206.200† | 26.9 | 0.0052137 | mg/L | 0.00037175 | 0.0052137 | mg/L | 0.00037175 | 7.13% |
| Si 251.611† | 23199.8 | 8.64131 | mg/L | 0.010888 | 8.64131 | mg/L | 0.010888 | 0.13% |
| B 249.772† | 12312.0 | 1.73198 | mg/L | 0.006540 | 1.73198 | mg/L | 0.006540 | 0.38% |
| Ce 413.764† | 0.3 | -0.0052183 | mg/L | 0.00348368 | -0.0052183 | mg/L | 0.00348368 | 66.76% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 33
Autosampler Location: 64
Sample ID: AD26083-040 MR
Date Collected: 9/28/2021 7:36:52 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-040 MR

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43109.2 | 96.5 | % | 1.77 | 96.5 | % | 1.77 | 1.84% |
| Y 371.029 | 13048.2 | 96.7 | % | 1.97 | 96.7 | % | 1.97 | 2.03% |
| Al 308.215† | 143.3 | 0.162996 | mg/L | 0.0067549 | 0.162996 | mg/L | 0.0067549 | 4.14% |
| Ba 233.527† | 10259.6 | 2.18575 | mg/L | 0.006053 | 2.18575 | mg/L | 0.006053 | 0.28% |
| Ca 315.887† | 482485.5 | 91.5500 | mg/L | 1.32830 | 91.5500 | mg/L | 1.32830 | 1.45% |
| Cu 327.393† | -171.2 | 0.0030853 | mg/L | 0.00376006 | 0.0030853 | mg/L | 0.00376006 | 121.87% |
| Fe 273.955† | 12571.3 | 10.7713 | mg/L | 0.05034 | 10.7713 | mg/L | 0.05034 | 0.47% |
| K 766.490† | 209590.0 | 113.852 | mg/L | 1.4160 | 113.852 | mg/L | 1.4160 | 1.24% |
| Mg 279.077† | 90271.0 | 138.510 | mg/L | 0.2635 | 138.510 | mg/L | 0.2635 | 0.19% |
| Mn 257.610† | 15422.7 | 0.541191 | mg/L | 0.0010417 | 0.541191 | mg/L | 0.0010417 | 0.19% |
| Mo 202.031† | -5.8 | -0.0057046 | mg/L | 0.00394370 | -0.0057046 | mg/L | 0.00394370 | 69.13% |
| Na 589.592† | 11816227.0 | 1260.20 | mg/L | 7.999 | 1260.20 | mg/L | 7.999 | 0.63% |
| Ni 231.604† | 39.0 | 0.0202507 | mg/L | 0.00156859 | 0.0202507 | mg/L | 0.00156859 | 7.75% |
| Se 196.026† | 0.5 | 0.0054072 | mg/L | 0.00580048 | 0.0054072 | mg/L | 0.00580048 | 107.27% |
| Sn 189.927† | -45.8 | -0.104375 | mg/L | 0.0182978 | -0.104375 | mg/L | 0.0182978 | 17.53% |
| Ti 334.940† | -279.2 | 0.0073871 | mg/L | 0.00072394 | 0.0073871 | mg/L | 0.00072394 | 9.80% |
| V 290.880† | 1408.8 | 0.113104 | mg/L | 0.0058895 | 0.113104 | mg/L | 0.0058895 | 5.21% |
| Zn 206.200† | 35.8 | 0.0075682 | mg/L | 0.00089756 | 0.0075682 | mg/L | 0.00089756 | 11.86% |
| Si 251.611† | 23609.0 | 8.79596 | mg/L | 0.007234 | 8.79596 | mg/L | 0.007234 | 0.08% |
| B 249.772† | 12622.0 | 1.77596 | mg/L | 0.005964 | 1.77596 | mg/L | 0.005964 | 0.34% |
| Ce 413.764† | 28.4 | 0.0012624 | mg/L | 0.00919754 | 0.0012624 | mg/L | 0.00919754 | 728.59% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 34
Autosampler Location: 65
Sample ID: AD26083-042 MS 1
Date Collected: 9/28/2021 7:42:37 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-042 MS 1

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 45490.5 | 102 | % | 0.94 | 102 | % | 0.94 | 0.92% |
| Y 371.029 | 13389.1 | 99.3 | % | 1.32 | 99.3 | % | 1.32 | 1.33% |
| Al 308.215† | 4224.7 | 4.66270 | mg/L | 0.051869 | 4.66270 | mg/L | 0.051869 | 1.11% |
| Ba 233.527† | 11926.9 | 2.54011 | mg/L | 0.009287 | 2.54011 | mg/L | 0.009287 | 0.37% |
| Ca 315.887† | 687814.9 | 130.572 | mg/L | 0.2423 | 130.572 | mg/L | 0.2423 | 0.19% |
| Cu 327.393† | 2086.8 | 0.517129 | mg/L | 0.0013297 | 0.517129 | mg/L | 0.0013297 | 0.26% |
| Fe 273.955† | 17179.3 | 14.7282 | mg/L | 0.03229 | 14.7282 | mg/L | 0.03229 | 0.22% |
| K 766.490† | 294120.4 | 159.740 | mg/L | 0.4046 | 159.740 | mg/L | 0.4046 | 0.25% |
| Mg 279.077† | 116432.3 | 178.713 | mg/L | 0.3571 | 178.713 | mg/L | 0.3571 | 0.20% |
| Mn 257.610† | 27538.1 | 0.955268 | mg/L | 0.0002402 | 0.955268 | mg/L | 0.0002402 | 0.03% |
| Mo 202.031† | 622.8 | 0.434252 | mg/L | 0.0039481 | 0.434252 | mg/L | 0.0039481 | 0.91% |
| Na 589.592† | 11913308.5 | 1270.55 | mg/L | 7.903 | 1270.55 | mg/L | 7.903 | 0.62% |
| Ni 231.604† | 865.1 | 0.445453 | mg/L | 0.0054902 | 0.445453 | mg/L | 0.0054902 | 1.23% |
| Se 196.026† | 119.5 | 0.426643 | mg/L | 0.0127945 | 0.426643 | mg/L | 0.0127945 | 3.00% |
| Sn 189.927† | 95.5 | 0.332905 | mg/L | 0.0365012 | 0.332905 | mg/L | 0.0365012 | 10.96% |
| Ti 334.940† | 19884.8 | 0.463806 | mg/L | 0.0009648 | 0.463806 | mg/L | 0.0009648 | 0.21% |
| V 290.880† | 4945.6 | 0.525297 | mg/L | 0.0053953 | 0.525297 | mg/L | 0.0053953 | 1.03% |
| Zn 206.200† | 1660.9 | 0.438554 | mg/L | 0.0033203 | 0.438554 | mg/L | 0.0033203 | 0.76% |
| Si 251.611† | 24607.9 | 9.17356 | mg/L | 0.006703 | 9.17356 | mg/L | 0.006703 | 0.07% |
| B 249.772† | 15185.3 | 2.13042 | mg/L | 0.000556 | 2.13042 | mg/L | 0.000556 | 0.03% |
| Ce 413.764† | 2066.6 | 0.472167 | mg/L | 0.0087261 | 0.472167 | mg/L | 0.0087261 | 1.85% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 35
Autosampler Location: 66
Sample ID: AD26083-044 MS 2
Date Collected: 9/28/2021 7:48:08 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-044 MS 2

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 46083.2 | 103 | % | 1.00 | 103 | % | 1.00 | 0.97% |
| Y 371.029 | 13525.5 | 100 | % | 1.20 | 100 | % | 1.20 | 1.20% |
| Al 308.215† | 4175.2 | 4.60754 | mg/L | 0.045241 | 4.60754 | mg/L | 0.045241 | 0.98% |
| Ba 233.527† | 11891.2 | 2.53247 | mg/L | 0.009165 | 2.53247 | mg/L | 0.009165 | 0.36% |
| Ca 315.887† | 686718.2 | 130.363 | mg/L | 0.1185 | 130.363 | mg/L | 0.1185 | 0.09% |
| Cu 327.393† | 2032.7 | 0.505151 | mg/L | 0.0080167 | 0.505151 | mg/L | 0.0080167 | 1.59% |
| Fe 273.955† | 17149.0 | 14.7021 | mg/L | 0.05064 | 14.7021 | mg/L | 0.05064 | 0.34% |
| K 766.490† | 294411.4 | 159.898 | mg/L | 0.5209 | 159.898 | mg/L | 0.5209 | 0.33% |
| Mg 279.077† | 116222.7 | 178.391 | mg/L | 0.2346 | 178.391 | mg/L | 0.2346 | 0.13% |
| Mn 257.610† | 27434.0 | 0.951713 | mg/L | 0.0006711 | 0.951713 | mg/L | 0.0006711 | 0.07% |
| Mo 202.031† | 613.3 | 0.427602 | mg/L | 0.0040022 | 0.427602 | mg/L | 0.0040022 | 0.94% |
| Na 589.592† | 11981973.4 | 1277.88 | mg/L | 10.616 | 1277.88 | mg/L | 10.616 | 0.83% |
| Ni 231.604† | 855.3 | 0.440413 | mg/L | 0.0060032 | 0.440413 | mg/L | 0.0060032 | 1.36% |
| Se 196.026† | 116.6 | 0.416356 | mg/L | 0.0237276 | 0.416356 | mg/L | 0.0237276 | 5.70% |
| Sn 189.927† | 107.3 | 0.368293 | mg/L | 0.0019676 | 0.368293 | mg/L | 0.0019676 | 0.53% |
| Ti 334.940† | 19640.3 | 0.458314 | mg/L | 0.0005423 | 0.458314 | mg/L | 0.0005423 | 0.12% |
| V 290.880† | 4838.0 | 0.512385 | mg/L | 0.0091312 | 0.512385 | mg/L | 0.0091312 | 1.78% |
| Zn 206.200† | 1637.4 | 0.432330 | mg/L | 0.0047824 | 0.432330 | mg/L | 0.0047824 | 1.11% |
| Si 251.611† | 24775.7 | 9.23699 | mg/L | 0.023514 | 9.23699 | mg/L | 0.023514 | 0.25% |
| B 249.772† | 15165.3 | 2.12763 | mg/L | 0.006523 | 2.12763 | mg/L | 0.006523 | 0.31% |
| Ce 413.764† | 1997.8 | 0.456267 | mg/L | 0.0053990 | 0.456267 | mg/L | 0.0053990 | 1.18% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 36
Autosampler Location: 67
Sample ID: AD26083-040 PS
Date Collected: 9/28/2021 7:53:39 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-040 PS

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43812.2 | 98.1 | % | 0.73 | 98.1 | % | 0.73 | 0.74% |
| Y 371.029 | 12822.4 | 95.1 | % | 0.93 | 95.1 | % | 0.93 | 0.98% |
| Al 308.215† | 4618.0 | 5.09672 | mg/L | 0.034752 | 5.09672 | mg/L | 0.034752 | 0.68% |
| Ba 233.527† | 11807.9 | 2.51462 | mg/L | 0.006720 | 2.51462 | mg/L | 0.006720 | 0.27% |
| Ca 315.887† | 688074.3 | 130.621 | mg/L | 0.1750 | 130.621 | mg/L | 0.1750 | 0.13% |
| Cu 327.393† | 2339.9 | 0.572742 | mg/L | 0.0059236 | 0.572742 | mg/L | 0.0059236 | 1.03% |
| Fe 273.955† | 17248.3 | 14.7874 | mg/L | 0.04938 | 14.7874 | mg/L | 0.04938 | 0.33% |
| K 766.490† | 297340.0 | 161.488 | mg/L | 0.2087 | 161.488 | mg/L | 0.2087 | 0.13% |
| Mg 279.077† | 115821.4 | 177.774 | mg/L | 0.2184 | 177.774 | mg/L | 0.2184 | 0.12% |
| Mn 257.610† | 28527.0 | 0.988271 | mg/L | 0.0004618 | 0.988271 | mg/L | 0.0004618 | 0.05% |
| Mo 202.031† | 685.9 | 0.478417 | mg/L | 0.0025471 | 0.478417 | mg/L | 0.0025471 | 0.53% |
| Na 589.592† | 11788820.7 | 1257.27 | mg/L | 8.558 | 1257.27 | mg/L | 8.558 | 0.68% |
| Ni 231.604† | 945.7 | 0.486783 | mg/L | 0.0046349 | 0.486783 | mg/L | 0.0046349 | 0.95% |
| Se 196.026† | 134.8 | 0.480250 | mg/L | 0.0184664 | 0.480250 | mg/L | 0.0184664 | 3.85% |
| Sn 189.927† | 115.2 | 0.392099 | mg/L | 0.0102026 | 0.392099 | mg/L | 0.0102026 | 2.60% |
| Ti 334.940† | 22064.1 | 0.512459 | mg/L | 0.0017426 | 0.512459 | mg/L | 0.0017426 | 0.34% |
| V 290.880† | 5282.0 | 0.566417 | mg/L | 0.0081739 | 0.566417 | mg/L | 0.0081739 | 1.44% |
| Zn 206.200† | 1799.1 | 0.475209 | mg/L | 0.0023714 | 0.475209 | mg/L | 0.0023714 | 0.50% |
| Si 251.611† | 24962.2 | 9.30748 | mg/L | 0.028189 | 9.30748 | mg/L | 0.028189 | 0.30% |
| B 249.772† | 14833.7 | 2.07936 | mg/L | 0.001995 | 2.07936 | mg/L | 0.001995 | 0.10% |
| Ce 413.764† | 2049.2 | 0.468146 | mg/L | 0.0105371 | 0.468146 | mg/L | 0.0105371 | 2.25% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 37
Autosampler Location: 68
Sample ID: AD26083-040 SD
Date Collected: 9/28/2021 7:59:10 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-040 SD

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 43789.8 | 98.0 | % | 0.62 | 98.0 | % | 0.62 | 0.63% |
| Y 371.029 | 13141.5 | 97.4 | % | 0.42 | 97.4 | % | 0.42 | 0.43% |
| Al 308.215† | 15.1 | 0.0101869 | mg/L | 0.01173484 | 0.0101869 | mg/L | 0.01173484 | 115.20% |
| Ba 233.527† | 1950.9 | 0.413883 | mg/L | 0.0010015 | 0.413883 | mg/L | 0.0010015 | 0.24% |
| Ca 315.887† | 92652.5 | 17.4642 | mg/L | 0.01891 | 17.4642 | mg/L | 0.01891 | 0.11% |
| Cu 327.393† | -38.4 | -0.0021758 | mg/L | 0.00509300 | -0.0021758 | mg/L | 0.00509300 | 234.08% |
| Fe 273.955† | 2312.6 | 1.96197 | mg/L | 0.020455 | 1.96197 | mg/L | 0.020455 | 1.04% |
| K 766.490† | 37618.1 | 20.4955 | mg/L | 0.00525 | 20.4955 | mg/L | 0.00525 | 0.03% |
| Mg 279.077† | 17507.9 | 26.6907 | mg/L | 0.08235 | 26.6907 | mg/L | 0.08235 | 0.31% |
| Mn 257.610† | 2928.2 | 0.100919 | mg/L | 0.0004707 | 0.100919 | mg/L | 0.0004707 | 0.47% |
| Mo 202.031† | 1.8 | -0.0003986 | mg/L | 0.00284765 | -0.0003986 | mg/L | 0.00284765 | 714.36% |
| Na 589.592† | 2331176.1 | 248.521 | mg/L | 1.1189 | 248.521 | mg/L | 1.1189 | 0.45% |
| Ni 231.604† | 1.3 | -0.0024469 | mg/L | 0.00245327 | -0.0024469 | mg/L | 0.00245327 | 100.26% |
| Se 196.026† | 4.0 | 0.0094417 | mg/L | 0.02073562 | 0.0094417 | mg/L | 0.02073562 | 219.62% |
| Sn 189.927† | -15.2 | -0.0372364 | mg/L | 0.01223155 | -0.0372364 | mg/L | 0.01223155 | 32.85% |
| Ti 334.940† | -50.5 | 0.0004500 | mg/L | 0.00057390 | 0.0004500 | mg/L | 0.00057390 | 127.53% |
| V 290.880† | 317.8 | 0.0259828 | mg/L | 0.00345319 | 0.0259828 | mg/L | 0.00345319 | 13.29% |
| Zn 206.200† | 13.5 | 0.0016633 | mg/L | 0.00169943 | 0.0016633 | mg/L | 0.00169943 | 102.17% |
| Si 251.611† | 4418.8 | 1.54226 | mg/L | 0.005221 | 1.54226 | mg/L | 0.005221 | 0.34% |
| B 249.772† | 2352.5 | 0.327372 | mg/L | 0.0011551 | 0.327372 | mg/L | 0.0011551 | 0.35% |
| Ce 413.764† | 52.1 | 0.0067475 | mg/L | 0.00212796 | 0.0067475 | mg/L | 0.00212796 | 31.54% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 38
Autosampler Location: 69
Sample ID: AD26083-003
Date Collected: 9/28/2021 8:03:19 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-003

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 44619.5 | 99.9 | % | 0.34 | 99.9 | % | 0.34 | 0.34% |
| Y 371.029 | 13475.6 | 99.9 | % | 0.40 | 99.9 | % | 0.40 | 0.40% |
| Al 308.215† | 391.5 | 0.422799 | mg/L | 0.0106867 | 0.422799 | mg/L | 0.0106867 | 2.53% |
| Ba 233.527† | 1247.1 | 0.263936 | mg/L | 0.0005361 | 0.263936 | mg/L | 0.0005361 | 0.20% |
| Ca 315.887† | 308889.2 | 58.5589 | mg/L | 0.82773 | 58.5589 | mg/L | 0.82773 | 1.41% |
| Cu 327.393† | -79.3 | 0.0079265 | mg/L | 0.00890901 | 0.0079265 | mg/L | 0.00890901 | 112.40% |
| Fe 273.955† | 1137.8 | 0.953124 | mg/L | 0.0078088 | 0.953124 | mg/L | 0.0078088 | 0.82% |
| K 766.490† | 2964.1 | 1.68336 | mg/L | 0.021050 | 1.68336 | mg/L | 0.021050 | 1.25% |
| Mg 279.077† | 16052.6 | 24.4542 | mg/L | 0.03123 | 24.4542 | mg/L | 0.03123 | 0.13% |
| Mn 257.610† | 3209.4 | 0.109934 | mg/L | 0.0005775 | 0.109934 | mg/L | 0.0005775 | 0.53% |
| Mo 202.031† | 3.3 | 0.0006517 | mg/L | 0.00129722 | 0.0006517 | mg/L | 0.00129722 | 199.06% |
| Na 589.592† | 143023.8 | 15.1328 | mg/L | 0.24038 | 15.1328 | mg/L | 0.24038 | 1.59% |
| Ni 231.604† | 10.8 | 0.0020288 | mg/L | 0.00090861 | 0.0020288 | mg/L | 0.00090861 | 44.79% |
| Se 196.026† | 10.6 | 0.0315906 | mg/L | 0.01467102 | 0.0315906 | mg/L | 0.01467102 | 46.44% |
| Sn 189.927† | -13.9 | -0.0292041 | mg/L | 0.00737004 | -0.0292041 | mg/L | 0.00737004 | 25.24% |
| Ti 334.940† | 399.2 | 0.0171674 | mg/L | 0.00065508 | 0.0171674 | mg/L | 0.00065508 | 3.82% |
| V 290.880† | 308.5 | 0.0257497 | mg/L | 0.00419574 | 0.0257497 | mg/L | 0.00419574 | 16.29% |
| Zn 206.200† | 80.2 | 0.0193502 | mg/L | 0.00198553 | 0.0193502 | mg/L | 0.00198553 | 10.26% |
| Si 251.611† | 31532.0 | 11.7908 | mg/L | 0.03969 | 11.7908 | mg/L | 0.03969 | 0.34% |
| B 249.772† | 145.3 | 0.0124615 | mg/L | 0.00068071 | 0.0124615 | mg/L | 0.00068071 | 5.46% |
| Ce 413.764† | 27.0 | 0.0009378 | mg/L | 0.01112949 | 0.0009378 | mg/L | 0.01112949 | >999.9% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 39
Autosampler Location: 6
Sample ID: CCV V-352960
Date Collected: 9/28/2021 8:07:27 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 44334.7 | 99.2 | % | 1.05 | 99.2 | % | 1.05 | 1.06% |
| Y 371.029 | 13355.8 | 99.0 | % | 0.99 | 99.0 | % | 0.99 | 1.00% |
| Al 308.215† | 4204.5 | 4.62747 | mg/L | 0.027848 | 4.62747 | mg/L | 0.027848 | 0.60% |
| QC value within limits for Al 308.215 Recovery = 92.55% | | | | | | | | |
| Ba 233.527† | 2119.1 | 0.448438 | mg/L | 0.0061378 | 0.448438 | mg/L | 0.0061378 | 1.37% |
| QC value less than the lower limit for Ba 233.527 Recovery = 89.69% | | | | | | | | |
| Ca 315.887† | 232853.1 | 44.1086 | mg/L | 0.28437 | 44.1086 | mg/L | 0.28437 | 0.64% |
| QC value less than the lower limit for Ca 315.887 Recovery = 88.22% | | | | | | | | |
| Cu 327.393† | 2191.9 | 0.500042 | mg/L | 0.0024483 | 0.500042 | mg/L | 0.0024483 | 0.49% |
| QC value within limits for Cu 327.393 Recovery = 100.01% | | | | | | | | |
| Fe 273.955† | 5256.5 | 4.48989 | mg/L | 0.045809 | 4.48989 | mg/L | 0.045809 | 1.02% |
| QC value less than the lower limit for Fe 273.955 Recovery = 89.80% | | | | | | | | |
| K 766.490† | 83823.8 | 45.5787 | mg/L | 0.39265 | 45.5787 | mg/L | 0.39265 | 0.86% |
| QC value within limits for K 766.490 Recovery = 91.16% | | | | | | | | |
| Mg 279.077† | 29275.4 | 44.7745 | mg/L | 0.16506 | 44.7745 | mg/L | 0.16506 | 0.37% |
| QC value less than the lower limit for Mg 279.077 Recovery = 89.55% | | | | | | | | |
| Mn 257.610† | 13326.7 | 0.453227 | mg/L | 0.0010738 | 0.453227 | mg/L | 0.0010738 | 0.24% |
| QC value within limits for Mn 257.610 Recovery = 90.65% | | | | | | | | |
| Mo 202.031† | 637.5 | 0.444553 | mg/L | 0.0084800 | 0.444553 | mg/L | 0.0084800 | 1.91% |
| QC value less than the lower limit for Mo 202.031 Recovery = 88.91% | | | | | | | | |
| Na 589.592† | 434481.0 | 46.2197 | mg/L | 0.39657 | 46.2197 | mg/L | 0.39657 | 0.86% |
| QC value within limits for Na 589.592 Recovery = 92.44% | | | | | | | | |
| Ni 231.604† | 869.0 | 0.443582 | mg/L | 0.0080046 | 0.443582 | mg/L | 0.0080046 | 1.80% |
| QC value less than the lower limit for Ni 231.604 Recovery = 88.72% | | | | | | | | |
| Se 196.026† | 123.5 | 0.430835 | mg/L | 0.0092580 | 0.430835 | mg/L | 0.0092580 | 2.15% |
| QC value less than the lower limit for Se 196.026 Recovery = 86.17% | | | | | | | | |
| Sn 189.927† | 138.9 | 0.433853 | mg/L | 0.0032685 | 0.433853 | mg/L | 0.0032685 | 0.75% |
| QC value less than the lower limit for Sn 189.927 Recovery = 86.77% | | | | | | | | |
| Ti 334.940† | 20284.7 | 0.458678 | mg/L | 0.0005640 | 0.458678 | mg/L | 0.0005640 | 0.12% |
| QC value within limits for Ti 334.940 Recovery = 91.74% | | | | | | | | |
| V 290.880† | 3780.9 | 0.438152 | mg/L | 0.0012006 | 0.438152 | mg/L | 0.0012006 | 0.27% |
| QC value less than the lower limit for V 290.880 Recovery = 87.63% | | | | | | | | |
| Zn 206.200† | 1664.9 | 0.439613 | mg/L | 0.0071199 | 0.439613 | mg/L | 0.0071199 | 1.62% |
| QC value less than the lower limit for Zn 206.200 Recovery = 87.92% | | | | | | | | |
| Si 251.611† | 12177.9 | 4.47511 | mg/L | 0.014450 | 4.47511 | mg/L | 0.014450 | 0.32% |
| QC value less than the lower limit for Si 251.611 Recovery = 89.50% | | | | | | | | |
| B 249.772† | 3112.9 | 0.427057 | mg/L | 0.0009650 | 0.427057 | mg/L | 0.0009650 | 0.23% |
| QC value less than the lower limit for B 249.772 Recovery = 85.41% | | | | | | | | |
| Ce 413.764† | 2052.2 | 0.468832 | mg/L | 0.0027327 | 0.468832 | mg/L | 0.0027327 | 0.58% |
| QC value within limits for Ce 413.764 Recovery = 93.77% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 40 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/28/2021 8:11:35 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 45143.0 | 101 | % | 0.88 | 101 | % | 0.88 | 0.87% |
| Y 371.029 | 13742.7 | 102 | % | 1.04 | 102 | % | 1.04 | 1.02% |
| Al 308.215† | -2.6 | -0.0127171 | mg/L | 0.00991573 | -0.0127171 | mg/L | 0.00991573 | 77.97% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 1.2 | -0.0019410 | mg/L | 0.00067097 | -0.0019410 | mg/L | 0.00067097 | 34.57% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -68.9 | -0.157089 | mg/L | 0.0014841 | -0.157089 | mg/L | 0.0014841 | 0.94% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -6.6 | -0.0033781 | mg/L | 0.00417932 | -0.0033781 | mg/L | 0.00417932 | 123.72% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -7.1 | -0.0300594 | mg/L | 0.00451638 | -0.0300594 | mg/L | 0.00451638 | 15.02% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -9.4 | 0.0691530 | mg/L | 0.01027086 | 0.0691530 | mg/L | 0.01027086 | 14.85% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -9.5 | -0.229200 | mg/L | 0.0188511 | -0.229200 | mg/L | 0.0188511 | 8.22% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 2.3 | -0.0023181 | mg/L | 0.00006369 | -0.0023181 | mg/L | 0.00006369 | 2.75% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 7.1 | 0.0032927 | mg/L | 0.00238452 | 0.0032927 | mg/L | 0.00238452 | 72.42% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -2339.1 | -0.371572 | mg/L | 0.0155493 | -0.371572 | mg/L | 0.0155493 | 4.18% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -2.7 | -0.0052331 | mg/L | 0.00118345 | -0.0052331 | mg/L | 0.00118345 | 22.61% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 7.0 | 0.0180191 | mg/L | 0.01237822 | 0.0180191 | mg/L | 0.01237822 | 68.70% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -3.6 | -0.0081690 | mg/L | 0.00954603 | -0.0081690 | mg/L | 0.00954603 | 116.86% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 37.4 | -0.0004521 | mg/L | 0.00038723 | -0.0004521 | mg/L | 0.00038723 | 85.66% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 9.4 | -0.0005369 | mg/L | 0.00191263 | -0.0005369 | mg/L | 0.00191263 | 356.21% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -3.3 | -0.0027975 | mg/L | 0.00136340 | -0.0027975 | mg/L | 0.00136340 | 48.74% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 3.7 | -0.126628 | mg/L | 0.0021081 | -0.126628 | mg/L | 0.0021081 | 1.66% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 11.7 | -0.0028822 | mg/L | 0.00076306 | -0.0028822 | mg/L | 0.00076306 | 26.47% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 54.6 | 0.0073152 | mg/L | 0.00188604 | 0.0073152 | mg/L | 0.00188604 | 25.78% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method: PE5 AVIO500 SW846 RD Page 1 Date: 9/28/2021 9:09:12 PM

SW27669C5 27670/94428

SW846 CJA 9/29/21

Analysis Begun

Start Time: 9/28/2021 9:06:39 PM
Originator: usemet
Spectrometer: Avio 500, S/N 081S2010191
Plasma On Time: 9/28/2021 9:31:00 AM
Technique: ICP Continuous
Autosampler: S23

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\09.28.21.sifx
Results Data Set: SW27669C5
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

10/6/21

Batch ID:
Sequence No.: 1
Sample ID: CALBLK V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):
Autosampler Location: 1
Date Collected: 9/28/2021 9:06:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-352951

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 47095.3 | 79.32 | 0.17% | 100 | % |
| Y 371.029 | 14561.7 | 58.21 | 0.40% | 100 | % |
| Al 308.215† | -49.5 | 2.17 | 4.39% | [0.00] | mg/L |
| Ba 233.527† | 9.8 | 3.27 | 33.39% | [0.00] | mg/L |
| Ca 315.887† | 79.1 | 30.59 | 38.69% | [0.00] | mg/L |
| Cu 327.393† | -9.6 | 16.50 | 171.16% | [0.00] | mg/L |
| Fe 273.955† | 18.1 | 7.19 | 39.74% | [0.00] | mg/L |
| K 766.490† | 943.9 | 12.61 | 1.34% | [0.00] | mg/L |
| Mg 279.077† | -13.0 | 6.15 | 47.15% | [0.00] | mg/L |
| Mn 257.610† | -0.8 | 1.11 | 143.09% | [0.00] | mg/L |
| Mo 202.031† | 0.2 | 1.19 | 762.88% | [0.00] | mg/L |
| Na 589.592† | 6320.9 | 59.03 | 0.93% | [0.00] | mg/L |
| Ni 231.604† | 43.9 | 6.95 | 15.85% | [0.00] | mg/L |
| Se 196.026† | -9.6 | 4.00 | 41.54% | [0.00] | mg/L |
| Sn 189.927† | 4.0 | 2.79 | 70.25% | [0.00] | mg/L |
| Ti 334.940† | -459.8 | 15.38 | 3.34% | [0.00] | mg/L |
| V 290.880† | 99.2 | 9.77 | 9.85% | [0.00] | mg/L |
| Zn 206.200† | 1.1 | 2.87 | 271.86% | [0.00] | mg/L |
| Si 251.611† | 209.2 | 1.77 | 0.85% | [0.00] | mg/L |
| B 249.772† | 5.1 | 8.20 | 160.98% | [0.00] | mg/L |
| Ce 413.764† | 134.9 | 40.28 | 29.86% | [0.00] | mg/L |

27670/94428

Al, Na K Reported

26083-006, 012, 01
-016, 019, 021-023
-028, 030, 36, 038
-046, 039
Reported

26083-036 Na
NOT Reported

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 2
Autosampler Location: 5
Sample ID: CALST2 V-352961
Date Collected: 9/28/2021 9:10:32 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST2 V-352961

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 48466.2 | 346.70 | 0.72% | 103 | % |
| Y 371.029 | 14594.8 | 111.74 | 0.77% | 100 | % |
| Al 308.215† | 162.7 | 10.22 | 6.28% | [0.2] | mg/L |
| Ba 233.527† | 217.9 | 5.86 | 2.69% | [0.050] | mg/L |
| Ca 315.887† | 23338.4 | 33.43 | 0.14% | [5] | mg/L |
| Cu 327.393† | 229.9 | 22.98 | 10.00% | [0.050] | mg/L |
| Fe 273.955† | 328.0 | 4.55 | 1.39% | [0.30] | mg/L |
| K 766.490† | 8287.1 | 62.28 | 0.75% | [5] | mg/L |
| Mg 279.077† | 3038.2 | 41.99 | 1.38% | [5.0] | mg/L |
| Mn 257.610† | 1057.8 | 12.44 | 1.18% | [0.040] | mg/L |
| Mo 202.031† | 23.6 | 0.70 | 2.96% | [0.020] | mg/L |
| Na 589.592† | 44169.1 | 163.24 | 0.37% | [5] | mg/L |
| Ni 231.604† | 94.6 | 5.03 | 5.32% | [0.050] | mg/L |
| Se 196.026† | 6.1 | 6.87 | 113.06% | [0.050] | mg/L |
| Sn 189.927† | 16.0 | 2.03 | 12.73% | [0.050] | mg/L |
| Ti 334.940† | 2069.6 | 32.44 | 1.57% | [0.050] | mg/L |
| V 290.880† | 363.0 | 1.32 | 0.36% | [0.050] | mg/L |
| Zn 206.200† | 169.4 | 3.00 | 1.77% | [0.050] | mg/L |
| Si 251.611† | 1079.2 | 10.58 | 0.98% | [0.2] | mg/L |
| B 249.772† | 1302.0 | 18.25 | 1.40% | [0.20] | mg/L |
| Ce 413.764† | 870.7 | 16.56 | 1.90% | [0.2] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 3 Autosampler Location: 3
Sample ID: CALST3 V-352955 Date Collected: 9/28/2021 9:14:20 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST3 V-352955

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 46553.0 | 1229.04 | 2.64% | 98.8 | % |
| Y 371.029 | 14177.3 | 388.25 | 2.74% | 97.4 | % |
| Al 308.215† | 4199.4 | 120.85 | 2.88% | [5.0] | mg/L |
| Ba 233.527† | 2129.1 | 56.19 | 2.64% | [0.50] | mg/L |
| Ca 315.887† | 233794.5 | 5285.96 | 2.26% | [50] | mg/L |
| Cu 327.393† | 2236.2 | 54.82 | 2.45% | [0.50] | mg/L |
| Fe 273.955† | 5230.7 | 90.38 | 1.73% | [5.0] | mg/L |
| K 766.490† | 83686.0 | 2114.30 | 2.53% | [50] | mg/L |
| Mg 279.077† | 29262.4 | 721.57 | 2.47% | [50] | mg/L |
| Mn 257.610† | 13035.3 | 310.69 | 2.38% | [0.50] | mg/L |
| Mo 202.031† | 632.1 | 14.56 | 2.30% | [0.50] | mg/L |
| Na 589.592† | 433685.5 | 10945.67 | 2.52% | [50] | mg/L |
| Ni 231.604† | 871.7 | 19.75 | 2.27% | [0.50] | mg/L |
| Se 196.026† | 120.5 | 9.61 | 7.97% | [0.50] | mg/L |
| Sn 189.927† | 143.5 | 5.00 | 3.49% | [0.50] | mg/L |
| Ti 334.940† | 20128.5 | 483.42 | 2.40% | [0.50] | mg/L |
| V 290.880† | 3820.6 | 64.70 | 1.69% | [0.50] | mg/L |
| Zn 206.200† | 1658.9 | 36.77 | 2.22% | [0.50] | mg/L |
| Si 251.611† | 12309.7 | 304.08 | 2.47% | [5] | mg/L |
| B 249.772† | 3110.4 | 77.32 | 2.49% | [0.50] | mg/L |
| Ce 413.764† | 2075.1 | 102.38 | 4.93% | [0.5] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 4 Autosampler Location: 4
Sample ID: CALST4 V-352956 Date Collected: 9/28/2021 9:18:24 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST4 V-352956

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 47850.1 | 550.92 | 1.15% | 102 | % |
| Y 371.029 | 14210.6 | 175.59 | 1.24% | 97.6 | % |
| Al 308.215† | 8168.0 | 33.45 | 0.41% | [10] | mg/L |
| Ba 233.527† | 4090.8 | 49.55 | 1.21% | [1.0] | mg/L |
| Ca 315.887† | 451208.7 | 6069.92 | 1.35% | [100] | mg/L |
| Cu 327.393† | 4242.3 | 24.64 | 0.58% | [1.0] | mg/L |
| Fe 273.955† | 10070.9 | 41.55 | 0.41% | [10] | mg/L |
| K 766.490† | 164565.6 | 2329.30 | 1.42% | [100] | mg/L |
| Mg 279.077† | 56544.1 | 185.32 | 0.33% | [100] | mg/L |
| Mn 257.610† | 25082.7 | 94.13 | 0.38% | [1.0] | mg/L |
| Mo 202.031† | 1211.1 | 21.88 | 1.81% | [1.0] | mg/L |
| Na 589.592† | 838639.3 | 12389.71 | 1.48% | [100] | mg/L |
| Ni 231.604† | 1646.8 | 28.97 | 1.76% | [1.0] | mg/L |
| Se 196.026† | 230.4 | 8.42 | 3.65% | [1.0] | mg/L |
| Sn 189.927† | 266.3 | 5.08 | 1.91% | [1.0] | mg/L |
| Ti 334.940† | 39147.9 | 198.24 | 0.51% | [1.0] | mg/L |
| V 290.880† | 7312.1 | 26.89 | 0.37% | [1.0] | mg/L |
| Zn 206.200† | 3139.7 | 42.76 | 1.36% | [1.0] | mg/L |
| Si 251.611† | 23699.7 | 100.12 | 0.42% | [10] | mg/L |
| B 249.772† | 6026.4 | 92.57 | 1.54% | [1.0] | mg/L |
| Ce 413.764† | 3914.7 | 32.58 | 0.83% | [1] | mg/L |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| Al 308.215 | 3 | Lin, Calc Int | 20.7 | 818.9 | 0.00000 | 0.999892 | |
| Ba 233.527 | 3 | Lin, Calc Int | 21.3 | 4098 | 0.00000 | 0.999782 | |
| Ca 315.887 | 3 | Lin, Calc Int | 1850.4 | 4522 | 0.00000 | 0.999824 | |
| Cu 327.393 | 3 | Lin, Calc Int | 29.1 | 4253 | 0.00000 | 0.999616 | |
| Fe 273.955 | 3 | Lin, Calc Int | 47.4 | 1009 | 0.00000 | 0.999806 | |
| K 766.490 | 3 | Lin, Calc Int | 283.5 | 1648 | 0.00000 | 0.999960 | |
| Mg 279.077 | 3 | Lin, Calc Int | 276.4 | 566.1 | 0.00000 | 0.999842 | |
| Mn 257.610 | 3 | Lin, Calc Int | 114.9 | 25140 | 0.00000 | 0.999796 | |
| Mo 202.031 | 3 | Lin, Calc Int | 4.6 | 1216 | 0.00000 | 0.999739 | |
| Na 589.592 | 3 | Lin, Calc Int | 3638.9 | 8400 | 0.00000 | 0.999846 | |
| Ni 231.604 | 3 | Lin, Calc Int | 14.4 | 1649 | 0.00000 | 0.999560 | |
| Se 196.026 | 3 | Lin, Calc Int | -1.5 | 234.1 | 0.00000 | 0.999321 | |
| Sn 189.927 | 3 | Lin, Calc Int | 3.1 | 266.7 | 0.00000 | 0.999227 | |
| Ti 334.940 | 3 | Lin, Calc Int | 152.1 | 39190 | 0.00000 | 0.999896 | |
| V 290.880 | 3 | Lin, Calc Int | 29.0 | 7342 | 0.00000 | 0.999716 | |
| Zn 206.200 | 3 | Lin, Calc Int | 21.9 | 3149 | 0.00000 | 0.999578 | |
| Si 251.611 | 3 | Lin, Calc Int | 358.1 | 2346 | 0.00000 | 0.999656 | |
| B 249.772 | 3 | Lin, Calc Int | 59.3 | 6001 | 0.00000 | 0.999779 | |
| Ce 413.764 | 3 | Lin, Calc Int | 59.6 | 3895 | 0.00000 | 0.999373 | |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 5 Autosampler Location: 6
Sample ID: ICV V-352960 Date Collected: 9/28/2021 9:22:31 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 47278.9 | 100 | % | 0.49 | 100 | % | 0.49 | 0.49% |
| Y 371.029 | 14380.9 | 98.8 | % | 0.66 | 98.8 | % | 0.66 | 0.66% |
| Al 308.215† | 4173.7 | 5.10190 | mg/L | 0.024682 | 5.10190 | mg/L | 0.024682 | 0.48% |
| QC value within limits for Al 308.215 Recovery = 102.04% | | | | | | | | |
| Ba 233.527† | 2102.0 | 0.504844 | mg/L | 0.0047747 | 0.504844 | mg/L | 0.0047747 | 0.95% |
| QC value within limits for Ba 233.527 Recovery = 100.97% | | | | | | | | |
| Ca 315.887† | 230587.7 | 50.5811 | mg/L | 0.41400 | 50.5811 | mg/L | 0.41400 | 0.82% |
| QC value within limits for Ca 315.887 Recovery = 101.16% | | | | | | | | |
| Cu 327.393† | 2205.8 | 0.535318 | mg/L | 0.0073666 | 0.535318 | mg/L | 0.0073666 | 1.38% |
| QC value within limits for Cu 327.393 Recovery = 107.06% | | | | | | | | |
| Fe 273.955† | 5192.9 | 5.09884 | mg/L | 0.015313 | 5.09884 | mg/L | 0.015313 | 0.30% |
| QC value within limits for Fe 273.955 Recovery = 101.98% | | | | | | | | |
| K 766.490† | 82556.6 | 49.9299 | mg/L | 0.35027 | 49.9299 | mg/L | 0.35027 | 0.70% |
| QC value within limits for K 766.490 Recovery = 99.86% | | | | | | | | |
| Mg 279.077† | 29036.6 | 50.8078 | mg/L | 0.10705 | 50.8078 | mg/L | 0.10705 | 0.21% |
| QC value within limits for Mg 279.077 Recovery = 101.62% | | | | | | | | |
| Mn 257.610† | 12938.3 | 0.519631 | mg/L | 0.0012749 | 0.519631 | mg/L | 0.0012749 | 0.25% |
| QC value within limits for Mn 257.610 Recovery = 103.93% | | | | | | | | |
| Mo 202.031† | 626.1 | 0.511033 | mg/L | 0.0075803 | 0.511033 | mg/L | 0.0075803 | 1.48% |
| QC value within limits for Mo 202.031 Recovery = 102.21% | | | | | | | | |
| Na 589.592† | 426640.1 | 50.3597 | mg/L | 0.38346 | 50.3597 | mg/L | 0.38346 | 0.76% |
| QC value within limits for Na 589.592 Recovery = 100.72% | | | | | | | | |
| Ni 231.604† | 857.3 | 0.512419 | mg/L | 0.0038819 | 0.512419 | mg/L | 0.0038819 | 0.76% |
| QC value within limits for Ni 231.604 Recovery = 102.48% | | | | | | | | |
| Se 196.026† | 117.6 | 0.513523 | mg/L | 0.0093740 | 0.513523 | mg/L | 0.0093740 | 1.83% |
| QC value within limits for Se 196.026 Recovery = 102.70% | | | | | | | | |
| Sn 189.927† | 140.2 | 0.527266 | mg/L | 0.0219062 | 0.527266 | mg/L | 0.0219062 | 4.15% |
| QC value within limits for Sn 189.927 Recovery = 105.45% | | | | | | | | |
| Ti 334.940† | 20020.8 | 0.515263 | mg/L | 0.0006914 | 0.515263 | mg/L | 0.0006914 | 0.13% |
| QC value within limits for Ti 334.940 Recovery = 103.05% | | | | | | | | |
| V 290.880† | 3740.9 | 0.485133 | mg/L | 0.0107833 | 0.485133 | mg/L | 0.0107833 | 2.22% |
| QC value within limits for V 290.880 Recovery = 97.03% | | | | | | | | |
| Zn 206.200† | 1644.1 | 0.515213 | mg/L | 0.0053914 | 0.515213 | mg/L | 0.0053914 | 1.05% |
| QC value within limits for Zn 206.200 Recovery = 103.04% | | | | | | | | |
| Si 251.611† | 12090.4 | 5.00143 | mg/L | 0.007736 | 5.00143 | mg/L | 0.007736 | 0.15% |
| QC value within limits for Si 251.611 Recovery = 100.03% | | | | | | | | |
| B 249.772† | 3090.0 | 0.484428 | mg/L | 0.0003425 | 0.484428 | mg/L | 0.0003425 | 0.07% |
| QC value within limits for B 249.772 Recovery = 96.89% | | | | | | | | |
| Ce 413.764† | 2075.5 | 0.517506 | mg/L | 0.0032565 | 0.517506 | mg/L | 0.0032565 | 0.63% |
| QC value within limits for Ce 413.764 Recovery = 103.50% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 6 Autosampler Location: 1
Sample ID: ICB V-352951 Date Collected: 9/28/2021 9:26:35 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 47570.0 | 101 | % | 0.91 | 101 | % | 0.91 | 0.90% |
| Y 371.029 | 14849.7 | 102 | % | 0.86 | 102 | % | 0.86 | 0.84% |
| Al 308.215† | 0.6 | -0.0249926 | mg/L | 0.01292321 | -0.0249926 | mg/L | 0.01292321 | 51.71% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -3.0 | -0.0059273 | mg/L | 0.00025521 | -0.0059273 | mg/L | 0.00025521 | 4.31% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -19.8 | -0.413555 | mg/L | 0.0037997 | -0.413555 | mg/L | 0.0037997 | 0.92% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 9.9 | -0.0046957 | mg/L | 0.00422500 | -0.0046957 | mg/L | 0.00422500 | 89.98% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 10.7 | -0.0362899 | mg/L | 0.00221730 | -0.0362899 | mg/L | 0.00221730 | 6.11% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | 68.7 | -0.130338 | mg/L | 0.0170150 | -0.130338 | mg/L | 0.0170150 | 13.05% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 5.1 | -0.479306 | mg/L | 0.0185017 | -0.479306 | mg/L | 0.0185017 | 3.86% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -0.9 | -0.0046948 | mg/L | 0.00039150 | -0.0046948 | mg/L | 0.00039150 | 8.34% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 5.0 | 0.0003243 | mg/L | 0.00122686 | 0.0003243 | mg/L | 0.00122686 | 378.29% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 189.4 | -0.410676 | mg/L | 0.0006547 | -0.410676 | mg/L | 0.0006547 | 0.16% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 6.3 | -0.0049160 | mg/L | 0.00065425 | -0.0049160 | mg/L | 0.00065425 | 13.31% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -0.8 | 0.0029724 | mg/L | 0.01124938 | 0.0029724 | mg/L | 0.01124938 | 378.46% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -4.8 | -0.0296117 | mg/L | 0.00873790 | -0.0296117 | mg/L | 0.00873790 | 29.51% |
| QC value less than the lower limit for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 21.7 | -0.0033954 | mg/L | 0.00083880 | -0.0033954 | mg/L | 0.00083880 | 24.70% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -6.7 | -0.0046631 | mg/L | 0.00114990 | -0.0046631 | mg/L | 0.00114990 | 24.66% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 2.4 | -0.0062080 | mg/L | 0.00247027 | -0.0062080 | mg/L | 0.00247027 | 39.79% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 3.8 | -0.151065 | mg/L | 0.0027411 | -0.151065 | mg/L | 0.0027411 | 1.81% |
| QC value less than the lower limit for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 6.6 | -0.0086407 | mg/L | 0.00053388 | -0.0086407 | mg/L | 0.00053388 | 6.18% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 61.5 | 0.0004991 | mg/L | 0.00674943 | 0.0004991 | mg/L | 0.00674943 | >999.9% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 7 Autosampler Location: 10
Sample ID: LRS V-352964 Date Collected: 9/28/2021 9:30:25 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LRS V-352964

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 50561.9 | 107 | % | 0.84 | 107 | % | 0.84 | 0.79% |
| Y 371.029 | 12640.3 | 86.8 | % | 0.80 | 86.8 | % | 0.80 | 0.92% |
| Al 308.215† | 380964.5 | 465.538 | mg/L | 1.3789 | 465.538 | mg/L | 1.3789 | 0.30% |
| QC value within limits for Al 308.215 Recovery = 93.11% | | | | | | | | |
| Ba 233.527† | 39207.0 | 9.37341 | mg/L | 0.042469 | 9.37341 | mg/L | 0.042469 | 0.45% |
| QC value within limits for Ba 233.527 Recovery = 93.73% | | | | | | | | |
| Ca 315.887† | 1994916.4 | 440.730 | mg/L | 5.1809 | 440.730 | mg/L | 5.1809 | 1.18% |
| QC value less than the lower limit for Ca 315.887 Recovery = 88.15% | | | | | | | | |
| Cu 327.393† | 40697.8 | 9.76726 | mg/L | 0.022405 | 9.76726 | mg/L | 0.022405 | 0.23% |
| QC value within limits for Cu 327.393 Recovery = 97.67% | | | | | | | | |
| Fe 273.955† | 341597.3 | 338.449 | mg/L | 0.9689 | 338.449 | mg/L | 0.9689 | 0.29% |
| QC value less than the lower limit for Fe 273.955 Recovery = 84.61% | | | | | | | | |
| K 766.490† | 331184.2 | 200.817 | mg/L | 1.9010 | 200.817 | mg/L | 1.9010 | 0.95% |
| QC value within limits for K 766.490 Recovery = 100.41% | | | | | | | | |
| Mg 279.077† | 256722.6 | 453.039 | mg/L | 1.3383 | 453.039 | mg/L | 1.3383 | 0.30% |
| QC value within limits for Mg 279.077 Recovery = 90.61% | | | | | | | | |
| Mn 257.610† | 219521.2 | 8.81247 | mg/L | 0.033916 | 8.81247 | mg/L | 0.033916 | 0.38% |
| QC value less than the lower limit for Mn 257.610 Recovery = 88.12% | | | | | | | | |
| Mo 202.031† | 10499.7 | 8.62942 | mg/L | 0.061810 | 8.62942 | mg/L | 0.061810 | 0.72% |
| QC value less than the lower limit for Mo 202.031 Recovery = 86.29% | | | | | | | | |
| Na 589.592† | 7710913.4 | 917.576 | mg/L | 2.2305 | 917.576 | mg/L | 2.2305 | 0.24% |
| QC value within limits for Na 589.592 Recovery = 91.76% | | | | | | | | |
| Ni 231.604† | 14279.7 | 8.71003 | mg/L | 0.030165 | 8.71003 | mg/L | 0.030165 | 0.35% |
| QC value less than the lower limit for Ni 231.604 Recovery = 87.10% | | | | | | | | |
| Se 196.026† | 1008.0 | 4.63159 | mg/L | 0.022576 | 4.63159 | mg/L | 0.022576 | 0.49% |
| QC value within limits for Se 196.026 Recovery = 92.63% | | | | | | | | |
| Sn 189.927† | 2562.8 | 9.71502 | mg/L | 0.114019 | 9.71502 | mg/L | 0.114019 | 1.17% |
| QC value within limits for Sn 189.927 Recovery = 97.15% | | | | | | | | |
| Ti 334.940† | 358203.4 | 9.20898 | mg/L | 0.105765 | 9.20898 | mg/L | 0.105765 | 1.15% |
| QC value within limits for Ti 334.940 Recovery = 92.09% | | | | | | | | |
| V 290.880† | 59977.4 | 7.98291 | mg/L | 0.036611 | 7.98291 | mg/L | 0.036611 | 0.46% |
| QC value less than the lower limit for V 290.880 Recovery = 79.83% | | | | | | | | |
| Zn 206.200† | 26686.9 | 8.46887 | mg/L | 0.028621 | 8.46887 | mg/L | 0.028621 | 0.34% |
| QC value less than the lower limit for Zn 206.200 Recovery = 84.69% | | | | | | | | |
| Si 251.611† | 56242.8 | 23.8234 | mg/L | 0.06856 | 23.8234 | mg/L | 0.06856 | 0.29% |
| QC value within limits for Si 251.611 Recovery = 95.29% | | | | | | | | |
| B 249.772† | 31960.1 | 3.94805 | mg/L | 0.013936 | 3.94805 | mg/L | 0.013936 | 0.35% |
| QC value less than the lower limit for B 249.772 Recovery = 78.96% | | | | | | | | |
| Ce 413.764† | 87873.5 | 22.5427 | mg/L | 0.09481 | 22.5427 | mg/L | 0.09481 | 0.42% |
| QC value within limits for Ce 413.764 Recovery = 90.17% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 8 Autosampler Location: 3
Sample ID: ICS3 V-352955 Date Collected: 9/28/2021 9:36:08 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: ICS3 V-352955

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 47634.3 | 101 | % | 0.44 | 101 | % | 0.44 | 0.43% |
| Y 371.029 | 14562.6 | 100 | % | 0.67 | 100 | % | 0.67 | 0.67% |
| Al 308.215† | 4104.0 | 5.01645 | mg/L | 0.077704 | 5.01645 | mg/L | 0.077704 | 1.55% |
| QC value within limits for Al 308.215 Recovery = 100.33% | | | | | | | | |
| Ba 233.527† | 2065.3 | 0.495965 | mg/L | 0.0055624 | 0.495965 | mg/L | 0.0055624 | 1.12% |
| QC value within limits for Ba 233.527 Recovery = 99.19% | | | | | | | | |
| Ca 315.887† | 225119.2 | 49.3718 | mg/L | 0.46296 | 49.3718 | mg/L | 0.46296 | 0.94% |
| QC value within limits for Ca 315.887 Recovery = 98.74% | | | | | | | | |
| Cu 327.393† | 2181.5 | 0.529036 | mg/L | 0.0070050 | 0.529036 | mg/L | 0.0070050 | 1.32% |
| QC value within limits for Cu 327.393 Recovery = 105.81% | | | | | | | | |
| Fe 273.955† | 5054.0 | 4.96123 | mg/L | 0.012394 | 4.96123 | mg/L | 0.012394 | 0.25% |
| QC value within limits for Fe 273.955 Recovery = 99.22% | | | | | | | | |
| K 766.490† | 81134.1 | 49.0666 | mg/L | 0.40950 | 49.0666 | mg/L | 0.40950 | 0.83% |
| QC value within limits for K 766.490 Recovery = 98.13% | | | | | | | | |
| Mg 279.077† | 28436.8 | 49.7482 | mg/L | 0.18329 | 49.7482 | mg/L | 0.18329 | 0.37% |
| QC value within limits for Mg 279.077 Recovery = 99.50% | | | | | | | | |
| Mn 257.610† | 12599.8 | 0.505967 | mg/L | 0.0030278 | 0.505967 | mg/L | 0.0030278 | 0.60% |
| QC value within limits for Mn 257.610 Recovery = 101.19% | | | | | | | | |
| Mo 202.031† | 620.7 | 0.506629 | mg/L | 0.0032876 | 0.506629 | mg/L | 0.0032876 | 0.65% |
| QC value within limits for Mo 202.031 Recovery = 101.33% | | | | | | | | |
| Na 589.592† | 419273.4 | 49.4826 | mg/L | 0.44343 | 49.4826 | mg/L | 0.44343 | 0.90% |
| QC value within limits for Na 589.592 Recovery = 98.97% | | | | | | | | |
| Ni 231.604† | 844.8 | 0.504780 | mg/L | 0.0067627 | 0.504780 | mg/L | 0.0067627 | 1.34% |
| QC value within limits for Ni 231.604 Recovery = 100.96% | | | | | | | | |
| Se 196.026† | 118.4 | 0.516569 | mg/L | 0.0315026 | 0.516569 | mg/L | 0.0315026 | 6.10% |
| QC value within limits for Se 196.026 Recovery = 103.31% | | | | | | | | |
| Sn 189.927† | 137.6 | 0.517445 | mg/L | 0.0117086 | 0.517445 | mg/L | 0.0117086 | 2.26% |
| QC value within limits for Sn 189.927 Recovery = 103.49% | | | | | | | | |
| Ti 334.940† | 19531.8 | 0.502587 | mg/L | 0.0006540 | 0.502587 | mg/L | 0.0006540 | 0.13% |
| QC value within limits for Ti 334.940 Recovery = 100.52% | | | | | | | | |
| V 290.880† | 3682.7 | 0.477623 | mg/L | 0.0031728 | 0.477623 | mg/L | 0.0031728 | 0.66% |
| QC value within limits for V 290.880 Recovery = 95.52% | | | | | | | | |
| Zn 206.200† | 1600.3 | 0.501309 | mg/L | 0.0056247 | 0.501309 | mg/L | 0.0056247 | 1.12% |
| QC value within limits for Zn 206.200 Recovery = 100.26% | | | | | | | | |
| Si 251.611† | 11897.2 | 4.91906 | mg/L | 0.007767 | 4.91906 | mg/L | 0.007767 | 0.16% |
| QC value within limits for Si 251.611 Recovery = 98.38% | | | | | | | | |
| B 249.772† | 3061.8 | 0.480285 | mg/L | 0.0045616 | 0.480285 | mg/L | 0.0045616 | 0.95% |
| QC value within limits for B 249.772 Recovery = 96.06% | | | | | | | | |
| Ce 413.764† | 1986.6 | 0.494694 | mg/L | 0.0166071 | 0.494694 | mg/L | 0.0166071 | 3.36% |
| QC value within limits for Ce 413.764 Recovery = 98.94% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 9
Autosampler Location: 14
Sample ID: RINSE
Date Collected: 9/28/2021 9:40:12 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: RINSE

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 60675.3 | 129 | % | 1.94 | 129 | % | 1.94 | 1.51% |
| Y 371.029 | 18917.4 | 130 | % | 1.99 | 130 | % | 1.99 | 1.53% |
| Al 308.215† | 6.4 | -0.0183683 | mg/L | 0.00124050 | -0.0183683 | mg/L | 0.00124050 | 6.75% |
| Ba 233.527† | -4.9 | -0.0063731 | mg/L | 0.00013898 | -0.0063731 | mg/L | 0.00013898 | 2.18% |
| Ca 315.887† | -92.1 | -0.429544 | mg/L | 0.0008702 | -0.429544 | mg/L | 0.0008702 | 0.20% |
| Cu 327.393† | 7.0 | -0.0053991 | mg/L | 0.00212778 | -0.0053991 | mg/L | 0.00212778 | 39.41% |
| Fe 273.955† | -9.3 | -0.0561826 | mg/L | 0.00685451 | -0.0561826 | mg/L | 0.00685451 | 12.20% |
| K 766.490† | -243.0 | -0.319494 | mg/L | 0.0266881 | -0.319494 | mg/L | 0.0266881 | 8.35% |
| Mg 279.077† | 4.6 | -0.480192 | mg/L | 0.0119729 | -0.480192 | mg/L | 0.0119729 | 2.49% |
| Mn 257.610† | -1.5 | -0.0047216 | mg/L | 0.00026364 | -0.0047216 | mg/L | 0.00026364 | 5.58% |
| Mo 202.031† | 3.3 | -0.0010769 | mg/L | 0.00126039 | -0.0010769 | mg/L | 0.00126039 | 117.04% |
| Na 589.592† | -2874.3 | -0.775416 | mg/L | 0.0333161 | -0.775416 | mg/L | 0.0333161 | 4.30% |
| Ni 231.604† | -21.3 | -0.0216643 | mg/L | 0.00204973 | -0.0216643 | mg/L | 0.00204973 | 9.46% |
| Se 196.026† | 6.5 | 0.0339644 | mg/L | 0.01216222 | 0.0339644 | mg/L | 0.01216222 | 35.81% |
| Sn 189.927† | -3.1 | -0.0234132 | mg/L | 0.00090648 | -0.0234132 | mg/L | 0.00090648 | 3.87% |
| Ti 334.940† | 226.9 | 0.0018373 | mg/L | 0.00039271 | 0.0018373 | mg/L | 0.00039271 | 21.37% |
| V 290.880† | -40.4 | -0.0092560 | mg/L | 0.00036428 | -0.0092560 | mg/L | 0.00036428 | 3.94% |
| Zn 206.200† | -2.3 | -0.0076915 | mg/L | 0.00083634 | -0.0076915 | mg/L | 0.00083634 | 10.87% |
| Si 251.611† | -73.5 | -0.183987 | mg/L | 0.0003281 | -0.183987 | mg/L | 0.0003281 | 0.18% |
| B 249.772† | 0.3 | -0.0096127 | mg/L | 0.00051159 | -0.0096127 | mg/L | 0.00051159 | 5.32% |
| Ce 413.764† | 55.1 | -0.0011351 | mg/L | 0.00454810 | -0.0011351 | mg/L | 0.00454810 | 400.67% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 10
Sample ID: LLICV V-352961
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 5
Date Collected: 9/28/2021 9:44:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV V-352961

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 49454.8 | 105 | % | 0.23 | 105 | % | 0.23 | 0.21% |
| Y 371.029 | 14983.7 | 103 | % | 0.40 | 103 | % | 0.40 | 0.39% |
| Al 308.215† | 171.8 | 0.185924 | mg/L | 0.0042695 | 0.185924 | mg/L | 0.0042695 | 2.30% |
| QC value within limits for Al 308.215 Recovery = 92.96% | | | | | | | | |
| Ba 233.527† | 214.7 | 0.0470404 | mg/L | 0.00070768 | 0.0470404 | mg/L | 0.00070768 | 1.50% |
| QC value within limits for Ba 233.527 Recovery = 94.08% | | | | | | | | |
| Ca 315.887† | 22685.8 | 4.60737 | mg/L | 0.003742 | 4.60737 | mg/L | 0.003742 | 0.08% |
| QC value within limits for Ca 315.887 Recovery = 92.15% | | | | | | | | |
| Cu 327.393† | 212.2 | 0.0452006 | mg/L | 0.00432637 | 0.0452006 | mg/L | 0.00432637 | 9.57% |
| QC value within limits for Cu 327.393 Recovery = 90.40% | | | | | | | | |
| Fe 273.955† | 321.1 | 0.271224 | mg/L | 0.0062580 | 0.271224 | mg/L | 0.0062580 | 2.31% |
| QC value within limits for Fe 273.955 Recovery = 90.41% | | | | | | | | |
| K 766.490† | 8245.2 | 4.83179 | mg/L | 0.030837 | 4.83179 | mg/L | 0.030837 | 0.64% |
| QC value within limits for K 766.490 Recovery = 96.64% | | | | | | | | |
| Mg 279.077† | 2939.6 | 4.70479 | mg/L | 0.037297 | 4.70479 | mg/L | 0.037297 | 0.79% |
| QC value within limits for Mg 279.077 Recovery = 94.10% | | | | | | | | |
| Mn 257.610† | 1021.4 | 0.0369435 | mg/L | 0.00031280 | 0.0369435 | mg/L | 0.00031280 | 0.85% |
| QC value within limits for Mn 257.610 Recovery = 92.36% | | | | | | | | |
| Mo 202.031† | 26.2 | 0.0178274 | mg/L | 0.00219337 | 0.0178274 | mg/L | 0.00219337 | 12.30% |
| QC value within limits for Mo 202.031 Recovery = 89.14% | | | | | | | | |
| Na 589.592† | 42761.3 | 4.65765 | mg/L | 0.020098 | 4.65765 | mg/L | 0.020098 | 0.43% |
| QC value within limits for Na 589.592 Recovery = 93.15% | | | | | | | | |
| Ni 231.604† | 86.8 | 0.0439848 | mg/L | 0.00561749 | 0.0439848 | mg/L | 0.00561749 | 12.77% |
| QC value within limits for Ni 231.604 Recovery = 87.97% | | | | | | | | |
| Se 196.026† | 12.1 | 0.0583042 | mg/L | 0.01602730 | 0.0583042 | mg/L | 0.01602730 | 27.49% |
| QC value within limits for Se 196.026 Recovery = 116.61% | | | | | | | | |
| Sn 189.927† | 14.5 | 0.0439483 | mg/L | 0.01731113 | 0.0439483 | mg/L | 0.01731113 | 39.39% |
| QC value within limits for Sn 189.927 Recovery = 87.90% | | | | | | | | |
| Ti 334.940† | 1993.8 | 0.0477486 | mg/L | 0.00099783 | 0.0477486 | mg/L | 0.00099783 | 2.09% |
| QC value within limits for Ti 334.940 Recovery = 95.50% | | | | | | | | |
| V 290.880† | 343.4 | 0.0409343 | mg/L | 0.00106690 | 0.0409343 | mg/L | 0.00106690 | 2.61% |
| QC value within limits for V 290.880 Recovery = 81.87% | | | | | | | | |
| Zn 206.200† | 164.1 | 0.0451485 | mg/L | 0.00116695 | 0.0451485 | mg/L | 0.00116695 | 2.58% |
| QC value within limits for Zn 206.200 Recovery = 90.30% | | | | | | | | |
| Si 251.611† | 1053.9 | 0.296581 | mg/L | 0.0031592 | 0.296581 | mg/L | 0.0031592 | 1.07% |
| QC value greater than the upper limit for Si 251.611 Recovery = 148.29% | | | | | | | | |
| B 249.772† | 1290.2 | 0.204016 | mg/L | 0.0018308 | 0.204016 | mg/L | 0.0018308 | 0.90% |
| QC value within limits for B 249.772 Recovery = 102.01% | | | | | | | | |
| Ce 413.764† | 870.4 | 0.208146 | mg/L | 0.0099819 | 0.208146 | mg/L | 0.0099819 | 4.80% |
| QC value within limits for Ce 413.764 Recovery = 104.07% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 11 Autosampler Location: 7
Sample ID: ICSA V-352957 Date Collected: 9/28/2021 9:47:51 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICSA V-352957

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 48564.0 | 103 | % | 0.76 | 103 | % | 0.76 | 0.74% |
| Y 371.029 | 13840.8 | 95.0 | % | 0.79 | 95.0 | % | 0.79 | 0.83% |
| Al 308.215† | 397873.8 | 485.882 | mg/L | 1.4935 | 485.882 | mg/L | 1.4935 | 0.31% |
| QC value within limits for Al 308.215 Recovery = 97.18% | | | | | | | | |
| Ba 233.527† | 1062.4 | 0.154623 | mg/L | 0.0030272 | 0.154623 | mg/L | 0.0030272 | 1.96% |
| Ca 315.887† | 2112153.0 | 466.655 | mg/L | 4.4561 | 466.655 | mg/L | 4.4561 | 0.95% |
| QC value within limits for Ca 315.887 Recovery = 93.33% | | | | | | | | |
| Cu 327.393† | -773.7 | 0.0280373 | mg/L | 0.00159004 | 0.0280373 | mg/L | 0.00159004 | 5.67% |
| Fe 273.955† | 180715.4 | 179.028 | mg/L | 0.2589 | 179.028 | mg/L | 0.2589 | 0.14% |
| QC value within limits for Fe 273.955 Recovery = 89.51% | | | | | | | | |
| K 766.490† | 470.9 | 0.113762 | mg/L | 0.0148699 | 0.113762 | mg/L | 0.0148699 | 13.07% |
| Mg 279.077† | 265763.2 | 469.010 | mg/L | 0.9809 | 469.010 | mg/L | 0.9809 | 0.21% |
| QC value within limits for Mg 279.077 Recovery = 93.80% | | | | | | | | |
| Mn 257.610† | 6.3 | 0.0839145 | mg/L | 0.00055536 | 0.0839145 | mg/L | 0.00055536 | 0.66% |
| Mo 202.031† | -25.1 | -0.0244340 | mg/L | 0.00482385 | -0.0244340 | mg/L | 0.00482385 | 19.74% |
| Na 589.592† | 3470.0 | -0.0201081 | mg/L | 0.03243087 | -0.0201081 | mg/L | 0.03243087 | 161.28% |
| Ni 231.604† | 76.2 | 0.0325684 | mg/L | 0.00908461 | 0.0325684 | mg/L | 0.00908461 | 27.89% |
| Se 196.026† | -31.6 | 0.0404774 | mg/L | 0.02053178 | 0.0404774 | mg/L | 0.02053178 | 50.72% |
| Sn 189.927† | -103.0 | -0.275287 | mg/L | 0.0067589 | -0.275287 | mg/L | 0.0067589 | 2.46% |
| Ti 334.940† | -3226.3 | -0.0103676 | mg/L | 0.00114437 | -0.0103676 | mg/L | 0.00114437 | 11.04% |
| V 290.880† | 3058.3 | 0.223793 | mg/L | 0.0057809 | 0.223793 | mg/L | 0.0057809 | 2.58% |
| Zn 206.200† | 103.4 | 0.0258690 | mg/L | 0.00027483 | 0.0258690 | mg/L | 0.00027483 | 1.06% |
| Si 251.611† | -26.2 | -0.163822 | mg/L | 0.0059201 | -0.163822 | mg/L | 0.0059201 | 3.61% |
| B 249.772† | 2909.7 | -0.248630 | mg/L | 0.0035044 | -0.248630 | mg/L | 0.0035044 | 1.41% |
| Ce 413.764† | -323.8 | -0.0984000 | mg/L | 0.00869126 | -0.0984000 | mg/L | 0.00869126 | 8.83% |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 12 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/28/2021 9:53:12 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 48544.9 | 103 | % | 0.77 | 103 | % | 0.77 | 0.74% |
| Y 371.029 | 14725.2 | 101 | % | 0.48 | 101 | % | 0.48 | 0.48% |
| Al 308.215† | 4063.3 | 4.96676 | mg/L | 0.001995 | 4.96676 | mg/L | 0.001995 | 0.04% |
| QC value within limits for Al 308.215 Recovery = 99.34% | | | | | | | | |
| Ba 233.527† | 2026.0 | 0.486395 | mg/L | 0.0052291 | 0.486395 | mg/L | 0.0052291 | 1.08% |
| QC value within limits for Ba 233.527 Recovery = 97.28% | | | | | | | | |
| Ca 315.887† | 222945.7 | 48.8912 | mg/L | 0.40591 | 48.8912 | mg/L | 0.40591 | 0.83% |
| QC value within limits for Ca 315.887 Recovery = 97.78% | | | | | | | | |
| Cu 327.393† | 2145.9 | 0.520445 | mg/L | 0.0037355 | 0.520445 | mg/L | 0.0037355 | 0.72% |
| QC value within limits for Cu 327.393 Recovery = 104.09% | | | | | | | | |
| Fe 273.955† | 5031.5 | 4.93887 | mg/L | 0.023446 | 4.93887 | mg/L | 0.023446 | 0.47% |
| QC value within limits for Fe 273.955 Recovery = 98.78% | | | | | | | | |
| K 766.490† | 80044.3 | 48.4052 | mg/L | 0.42254 | 48.4052 | mg/L | 0.42254 | 0.87% |
| QC value within limits for K 766.490 Recovery = 96.81% | | | | | | | | |
| Mg 279.077† | 28142.7 | 49.2286 | mg/L | 0.04507 | 49.2286 | mg/L | 0.04507 | 0.09% |
| QC value within limits for Mg 279.077 Recovery = 98.46% | | | | | | | | |
| Mn 257.610† | 12557.2 | 0.504176 | mg/L | 0.0009239 | 0.504176 | mg/L | 0.0009239 | 0.18% |
| QC value within limits for Mn 257.610 Recovery = 100.84% | | | | | | | | |
| Mo 202.031† | 603.4 | 0.492383 | mg/L | 0.0016861 | 0.492383 | mg/L | 0.0016861 | 0.34% |
| QC value within limits for Mo 202.031 Recovery = 98.48% | | | | | | | | |
| Na 589.592† | 413593.1 | 48.8064 | mg/L | 0.42960 | 48.8064 | mg/L | 0.42960 | 0.88% |
| QC value within limits for Na 589.592 Recovery = 97.61% | | | | | | | | |
| Ni 231.604† | 822.3 | 0.491139 | mg/L | 0.0096458 | 0.491139 | mg/L | 0.0096458 | 1.96% |
| QC value within limits for Ni 231.604 Recovery = 98.23% | | | | | | | | |
| Se 196.026† | 111.1 | 0.485653 | mg/L | 0.0039766 | 0.485653 | mg/L | 0.0039766 | 0.82% |
| QC value within limits for Se 196.026 Recovery = 97.13% | | | | | | | | |
| Sn 189.927† | 132.8 | 0.499218 | mg/L | 0.0099717 | 0.499218 | mg/L | 0.0099717 | 2.00% |
| QC value within limits for Sn 189.927 Recovery = 99.84% | | | | | | | | |
| Ti 334.940† | 19453.3 | 0.500506 | mg/L | 0.0005950 | 0.500506 | mg/L | 0.0005950 | 0.12% |
| QC value within limits for Ti 334.940 Recovery = 100.10% | | | | | | | | |
| V 290.880† | 3655.0 | 0.474064 | mg/L | 0.0074812 | 0.474064 | mg/L | 0.0074812 | 1.58% |
| QC value within limits for V 290.880 Recovery = 94.81% | | | | | | | | |
| Zn 206.200† | 1581.6 | 0.495352 | mg/L | 0.0074699 | 0.495352 | mg/L | 0.0074699 | 1.51% |
| QC value within limits for Zn 206.200 Recovery = 99.07% | | | | | | | | |
| Si 251.611† | 11724.7 | 4.84549 | mg/L | 0.008519 | 4.84549 | mg/L | 0.008519 | 0.18% |
| QC value within limits for Si 251.611 Recovery = 96.91% | | | | | | | | |
| B 249.772† | 2980.6 | 0.466848 | mg/L | 0.0027537 | 0.466848 | mg/L | 0.0027537 | 0.59% |
| QC value within limits for B 249.772 Recovery = 93.37% | | | | | | | | |
| Ce 413.764† | 1970.3 | 0.490511 | mg/L | 0.0073345 | 0.490511 | mg/L | 0.0073345 | 1.50% |
| QC value within limits for Ce 413.764 Recovery = 98.10% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 13 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/28/2021 9:57:16 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 48738.0 | 103 | % | 0.42 | 103 | % | 0.42 | 0.41% |
| Y 371.029 | 15174.9 | 104 | % | 0.16 | 104 | % | 0.16 | 0.15% |
| Al 308.215† | 2.3 | -0.0227459 | mg/L | 0.00878144 | -0.0227459 | mg/L | 0.00878144 | 38.61% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 1.6 | -0.0047960 | mg/L | 0.00071653 | -0.0047960 | mg/L | 0.00071653 | 14.94% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -53.7 | -0.421068 | mg/L | 0.0073483 | -0.421068 | mg/L | 0.0073483 | 1.75% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 18.1 | -0.0027830 | mg/L | 0.01053943 | -0.0027830 | mg/L | 0.01053943 | 378.70% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 1.7 | -0.0452126 | mg/L | 0.00693173 | -0.0452126 | mg/L | 0.00693173 | 15.33% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | 18.6 | -0.160721 | mg/L | 0.0125540 | -0.160721 | mg/L | 0.0125540 | 7.81% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -7.6 | -0.501783 | mg/L | 0.0138601 | -0.501783 | mg/L | 0.0138601 | 2.76% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -1.4 | -0.0047202 | mg/L | 0.00037985 | -0.0047202 | mg/L | 0.00037985 | 8.05% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -0.5 | -0.0041415 | mg/L | 0.00316448 | -0.0041415 | mg/L | 0.00316448 | 76.41% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -1048.2 | -0.558009 | mg/L | 0.0021033 | -0.558009 | mg/L | 0.0021033 | 0.38% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 0.3 | -0.0085270 | mg/L | 0.00417511 | -0.0085270 | mg/L | 0.00417511 | 48.96% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -1.0 | 0.0019356 | mg/L | 0.00688761 | 0.0019356 | mg/L | 0.00688761 | 355.84% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -1.8 | -0.0185197 | mg/L | 0.01228428 | -0.0185197 | mg/L | 0.01228428 | 66.33% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -8.1 | -0.0041575 | mg/L | 0.00079222 | -0.0041575 | mg/L | 0.00079222 | 19.06% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 2.0 | -0.0034687 | mg/L | 0.00170344 | -0.0034687 | mg/L | 0.00170344 | 49.11% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 4.1 | -0.0056613 | mg/L | 0.00261973 | -0.0056613 | mg/L | 0.00261973 | 46.27% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | -12.2 | -0.157885 | mg/L | 0.0028227 | -0.157885 | mg/L | 0.0028227 | 1.79% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 7.9 | -0.0083948 | mg/L | 0.00086248 | -0.0083948 | mg/L | 0.00086248 | 10.27% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 71.1 | 0.0029636 | mg/L | 0.01483281 | 0.0029636 | mg/L | 0.01483281 | 500.50% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 14 Autosampler Location: 70
Sample ID: AD26083-006 Date Collected: 9/28/2021 10:01:05 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-006

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 50207.8 | 107 | % | 1.17 | 107 | % | 1.17 | 1.09% |
| Y 371.029 | 15153.6 | 104 | % | 1.16 | 104 | % | 1.16 | 1.12% |
| Al 308.215† | 575.2 | 0.679926 | mg/L | 0.0075445 | 0.679926 | mg/L | 0.0075445 | 1.11% |
| Ba 233.527† | 1320.5 | 0.316477 | mg/L | 0.0045787 | 0.316477 | mg/L | 0.0045787 | 1.45% |
| Ca 315.887† | 255925.3 | 56.1840 | mg/L | 0.06847 | 56.1840 | mg/L | 0.06847 | 0.12% |
| Cu 327.393† | -58.0 | 0.0056269 | mg/L | 0.00261862 | 0.0056269 | mg/L | 0.00261862 | 46.54% |
| Fe 273.955† | 1010.1 | 0.953963 | mg/L | 0.0259799 | 0.953963 | mg/L | 0.0259799 | 2.72% |
| K 766.490† | 2512.5 | 1.35275 | mg/L | 0.026195 | 1.35275 | mg/L | 0.026195 | 1.94% |
| Mg 279.077† | 12469.5 | 21.5402 | mg/L | 0.02856 | 21.5402 | mg/L | 0.02856 | 0.13% |
| Mn 257.610† | 11522.7 | 0.457816 | mg/L | 0.0011248 | 0.457816 | mg/L | 0.0011248 | 0.25% |
| Mo 202.031† | -1.2 | -0.0047077 | mg/L | 0.00281294 | -0.0047077 | mg/L | 0.00281294 | 59.75% |
| Na 589.592† | 95918.1 | 10.9861 | mg/L | 0.03410 | 10.9861 | mg/L | 0.03410 | 0.31% |
| Ni 231.604† | 0.9 | -0.0078941 | mg/L | 0.00390459 | -0.0078941 | mg/L | 0.00390459 | 49.46% |
| Se 196.026† | 1.3 | 0.0126079 | mg/L | 0.00369102 | 0.0126079 | mg/L | 0.00369102 | 29.28% |
| Sn 189.927† | -11.9 | -0.0469476 | mg/L | 0.01599453 | -0.0469476 | mg/L | 0.01599453 | 34.07% |
| Ti 334.940† | 697.1 | 0.0230405 | mg/L | 0.00142190 | 0.0230405 | mg/L | 0.00142190 | 6.17% |
| V 290.880† | 239.4 | 0.0199871 | mg/L | 0.00424449 | 0.0199871 | mg/L | 0.00424449 | 21.24% |
| Zn 206.200† | 81.4 | 0.0188807 | mg/L | 0.00137151 | 0.0188807 | mg/L | 0.00137151 | 7.26% |
| Si 251.611† | 25369.2 | 10.6621 | mg/L | 0.00676 | 10.6621 | mg/L | 0.00676 | 0.06% |
| B 249.772† | 110.7 | 0.0047083 | mg/L | 0.00147396 | 0.0047083 | mg/L | 0.00147396 | 31.31% |
| Ce 413.764† | 18.5 | -0.0105334 | mg/L | 0.00421237 | -0.0105334 | mg/L | 0.00421237 | 39.99% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 15
Autosampler Location: 71
Sample ID: AD26083-012
Date Collected: 9/28/2021 10:04:56 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-012

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 50384.0 | 107 | % | 0.28 | 107 | % | 0.28 | 0.27% |
| Y 371.029 | 15342.8 | 105 | % | 0.45 | 105 | % | 0.45 | 0.42% |
| Al 308.215† | 283.9 | 0.322184 | mg/L | 0.0065552 | 0.322184 | mg/L | 0.0065552 | 2.03% |
| Ba 233.527† | 560.8 | 0.120873 | mg/L | 0.0021120 | 0.120873 | mg/L | 0.0021120 | 1.75% |
| Ca 315.887† | 36738.7 | 7.71491 | mg/L | 0.018234 | 7.71491 | mg/L | 0.018234 | 0.24% |
| Cu 327.393† | -2.7 | -0.0038936 | mg/L | 0.00504771 | -0.0038936 | mg/L | 0.00504771 | 129.64% |
| Fe 273.955† | 19586.3 | 19.3616 | mg/L | 0.03053 | 19.3616 | mg/L | 0.03053 | 0.16% |
| K 766.490† | 5269.3 | 3.02583 | mg/L | 0.033610 | 3.02583 | mg/L | 0.033610 | 1.11% |
| Mg 279.077† | 3061.5 | 4.92005 | mg/L | 0.055351 | 4.92005 | mg/L | 0.055351 | 1.13% |
| Mn 257.610† | 18187.2 | 0.719781 | mg/L | 0.0026246 | 0.719781 | mg/L | 0.0026246 | 0.36% |
| Mo 202.031† | 3.1 | -0.0012282 | mg/L | 0.00280710 | -0.0012282 | mg/L | 0.00280710 | 228.55% |
| Na 589.592† | 65803.4 | 7.40089 | mg/L | 0.021811 | 7.40089 | mg/L | 0.021811 | 0.29% |
| Ni 231.604† | -4.2 | -0.0040592 | mg/L | 0.00541476 | -0.0040592 | mg/L | 0.00541476 | 133.40% |
| Se 196.026† | -2.3 | 0.0148489 | mg/L | 0.01115993 | 0.0148489 | mg/L | 0.01115993 | 75.16% |
| Sn 189.927† | -5.9 | -0.0319902 | mg/L | 0.00345973 | -0.0319902 | mg/L | 0.00345973 | 10.81% |
| Ti 334.940† | 305.2 | 0.0051594 | mg/L | 0.00032086 | 0.0051594 | mg/L | 0.00032086 | 6.22% |
| V 290.880† | 72.9 | 0.0040034 | mg/L | 0.00195859 | 0.0040034 | mg/L | 0.00195859 | 48.92% |
| Zn 206.200† | 125.6 | 0.0329204 | mg/L | 0.00114661 | 0.0329204 | mg/L | 0.00114661 | 3.48% |
| Si 251.611† | 11716.9 | 4.84220 | mg/L | 0.009321 | 4.84220 | mg/L | 0.009321 | 0.19% |
| B 249.772† | 444.2 | -0.0141297 | mg/L | 0.00061279 | -0.0141297 | mg/L | 0.00061279 | 4.34% |
| Ce 413.764† | -15.1 | -0.0191570 | mg/L | 0.00522276 | -0.0191570 | mg/L | 0.00522276 | 27.26% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 16
Sample ID: AD26083-014
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 72
Date Collected: 9/28/2021 10:08:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-014

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 49341.4 | 105 | % | 0.44 | 105 | % | 0.44 | 0.42% |
| Y 371.029 | 15038.2 | 103 | % | 0.20 | 103 | % | 0.20 | 0.20% |
| Al 308.215† | 250.8 | 0.281758 | mg/L | 0.0115432 | 0.281758 | mg/L | 0.0115432 | 4.10% |
| Ba 233.527† | 493.7 | 0.114818 | mg/L | 0.0007135 | 0.114818 | mg/L | 0.0007135 | 0.62% |
| Ca 315.887† | 86014.1 | 18.6113 | mg/L | 0.03258 | 18.6113 | mg/L | 0.03258 | 0.18% |
| Cu 327.393† | -11.2 | -0.0008196 | mg/L | 0.00199712 | -0.0008196 | mg/L | 0.00199712 | 243.67% |
| Fe 273.955† | 849.6 | 0.794971 | mg/L | 0.0124633 | 0.794971 | mg/L | 0.0124633 | 1.57% |
| K 766.490† | 2208.6 | 1.16831 | mg/L | 0.019898 | 1.16831 | mg/L | 0.019898 | 1.70% |
| Mg 279.077† | 5435.9 | 9.11464 | mg/L | 0.052164 | 9.11464 | mg/L | 0.052164 | 0.57% |
| Mn 257.610† | 2599.4 | 0.100539 | mg/L | 0.0006523 | 0.100539 | mg/L | 0.0006523 | 0.65% |
| Mo 202.031† | 2.6 | -0.0016170 | mg/L | 0.00138445 | -0.0016170 | mg/L | 0.00138445 | 85.62% |
| Na 589.592† | 864604.5 | 102.501 | mg/L | 0.3867 | 102.501 | mg/L | 0.3867 | 0.38% |
| Ni 231.604† | 3.0 | -0.0066354 | mg/L | 0.00296497 | -0.0066354 | mg/L | 0.00296497 | 44.68% |
| Se 196.026† | -0.3 | 0.0059958 | mg/L | 0.04349873 | 0.0059958 | mg/L | 0.04349873 | 725.49% |
| Sn 189.927† | -5.9 | -0.0301046 | mg/L | 0.00495994 | -0.0301046 | mg/L | 0.00495994 | 16.48% |
| Ti 334.940† | 595.7 | 0.0143448 | mg/L | 0.00193726 | 0.0143448 | mg/L | 0.00193726 | 13.50% |
| V 290.880† | 92.6 | 0.0049935 | mg/L | 0.00084962 | 0.0049935 | mg/L | 0.00084962 | 17.01% |
| Zn 206.200† | 78.9 | 0.0180990 | mg/L | 0.00090320 | 0.0180990 | mg/L | 0.00090320 | 4.99% |
| Si 251.611† | 19376.6 | 8.10747 | mg/L | 0.015755 | 8.10747 | mg/L | 0.015755 | 0.19% |
| B 249.772† | 263.4 | 0.0307914 | mg/L | 0.00049692 | 0.0307914 | mg/L | 0.00049692 | 1.61% |
| Ce 413.764† | 80.5 | 0.0053672 | mg/L | 0.00480161 | 0.0053672 | mg/L | 0.00480161 | 89.46% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 17
Autosampler Location: 73
Sample ID: AD26083-016
Date Collected: 9/28/2021 10:12:54 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-016

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 49929.1 | 106 | % | 0.48 | 106 | % | 0.48 | 0.45% |
| Y 371.029 | 15061.0 | 103 | % | 0.46 | 103 | % | 0.46 | 0.45% |
| Al 308.215† | 101.4 | 0.0996096 | mg/L | 0.01354637 | 0.0996096 | mg/L | 0.01354637 | 13.60% |
| Ba 233.527† | 746.0 | 0.176697 | mg/L | 0.0002081 | 0.176697 | mg/L | 0.0002081 | 0.12% |
| Ca 315.887† | 180763.4 | 39.5633 | mg/L | 0.03769 | 39.5633 | mg/L | 0.03769 | 0.10% |
| Cu 327.393† | -51.4 | -0.0005526 | mg/L | 0.00195239 | -0.0005526 | mg/L | 0.00195239 | 353.29% |
| Fe 273.955† | 267.4 | 0.218022 | mg/L | 0.0055678 | 0.218022 | mg/L | 0.0055678 | 2.55% |
| K 766.490† | 3669.2 | 2.05476 | mg/L | 0.019918 | 2.05476 | mg/L | 0.019918 | 0.97% |
| Mg 279.077† | 6012.9 | 10.1341 | mg/L | 0.03014 | 10.1341 | mg/L | 0.03014 | 0.30% |
| Mn 257.610† | 6454.5 | 0.254074 | mg/L | 0.0010018 | 0.254074 | mg/L | 0.0010018 | 0.39% |
| Mo 202.031† | 2.8 | -0.0014813 | mg/L | 0.00222056 | -0.0014813 | mg/L | 0.00222056 | 149.91% |
| Na 589.592† | 114684.7 | 13.2204 | mg/L | 0.02450 | 13.2204 | mg/L | 0.02450 | 0.19% |
| Ni 231.604† | -4.4 | -0.0112977 | mg/L | 0.00287456 | -0.0112977 | mg/L | 0.00287456 | 25.44% |
| Se 196.026† | -3.3 | -0.0075128 | mg/L | 0.01815870 | -0.0075128 | mg/L | 0.01815870 | 241.70% |
| Sn 189.927† | -6.5 | -0.0302287 | mg/L | 0.00463882 | -0.0302287 | mg/L | 0.00463882 | 15.35% |
| Ti 334.940† | -54.1 | 0.0011682 | mg/L | 0.00041607 | 0.0011682 | mg/L | 0.00041607 | 35.62% |
| V 290.880† | 107.7 | 0.0066487 | mg/L | 0.00205565 | 0.0066487 | mg/L | 0.00205565 | 30.92% |
| Zn 206.200† | 54.5 | 0.0103374 | mg/L | 0.00157335 | 0.0103374 | mg/L | 0.00157335 | 15.22% |
| Si 251.611† | 18135.2 | 7.57828 | mg/L | 0.010548 | 7.57828 | mg/L | 0.010548 | 0.14% |
| B 249.772† | 213.5 | 0.0248123 | mg/L | 0.00141690 | 0.0248123 | mg/L | 0.00141690 | 5.71% |
| Ce 413.764† | 23.6 | -0.0092180 | mg/L | 0.01274231 | -0.0092180 | mg/L | 0.01274231 | 138.23% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 18
Autosampler Location: 74
Sample ID: AD26083-019
Date Collected: 9/28/2021 10:16:44 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-019

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 46972.6 | 99.7 | % | 1.08 | 99.7 | % | 1.08 | 1.09% |
| Y 371.029 | 14199.3 | 97.5 | % | 0.76 | 97.5 | % | 0.76 | 0.78% |
| Al 308.215† | 217.0 | 0.245275 | mg/L | 0.0072140 | 0.245275 | mg/L | 0.0072140 | 2.94% |
| Ba 233.527† | 348.1 | 0.0789831 | mg/L | 0.00126832 | 0.0789831 | mg/L | 0.00126832 | 1.61% |
| Ca 315.887† | 143244.3 | 31.2667 | mg/L | 0.32940 | 31.2667 | mg/L | 0.32940 | 1.05% |
| Cu 327.393† | -29.3 | 0.0007996 | mg/L | 0.00511474 | 0.0007996 | mg/L | 0.00511474 | 639.69% |
| Fe 273.955† | 1405.6 | 1.34592 | mg/L | 0.010325 | 1.34592 | mg/L | 0.010325 | 0.77% |
| K 766.490† | 52114.9 | 31.4555 | mg/L | 0.22879 | 31.4555 | mg/L | 0.22879 | 0.73% |
| Mg 279.077† | 24539.3 | 42.8629 | mg/L | 0.48979 | 42.8629 | mg/L | 0.48979 | 1.14% |
| Mn 257.610† | 3091.0 | 0.126442 | mg/L | 0.0006363 | 0.126442 | mg/L | 0.0006363 | 0.50% |
| Mo 202.031† | 5.2 | 0.0004835 | mg/L | 0.00134895 | 0.0004835 | mg/L | 0.00134895 | 278.99% |
| Na 589.592† | 4747806.4 | 564.809 | mg/L | 7.8032 | 564.809 | mg/L | 7.8032 | 1.38% |
| Ni 231.604† | 0.4 | -0.0080211 | mg/L | 0.00158587 | -0.0080211 | mg/L | 0.00158587 | 19.77% |
| Se 196.026† | 2.1 | 0.0165400 | mg/L | 0.01899909 | 0.0165400 | mg/L | 0.01899909 | 114.87% |
| Sn 189.927† | -13.3 | -0.0512954 | mg/L | 0.00522681 | -0.0512954 | mg/L | 0.00522681 | 10.19% |
| Ti 334.940† | 268.3 | 0.0080464 | mg/L | 0.00108042 | 0.0080464 | mg/L | 0.00108042 | 13.43% |
| V 290.880† | 474.1 | 0.0433679 | mg/L | 0.00167308 | 0.0433679 | mg/L | 0.00167308 | 3.86% |
| Zn 206.200† | 19.8 | -0.0006736 | mg/L | 0.00231733 | -0.0006736 | mg/L | 0.00231733 | 344.00% |
| Si 251.611† | 26125.6 | 10.9845 | mg/L | 0.09479 | 10.9845 | mg/L | 0.09479 | 0.86% |
| B 249.772† | 2604.7 | 0.418722 | mg/L | 0.0019622 | 0.418722 | mg/L | 0.0019622 | 0.47% |
| Ce 413.764† | 47.2 | -0.0031686 | mg/L | 0.00739951 | -0.0031686 | mg/L | 0.00739951 | 233.52% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 19
Autosampler Location: 75
Sample ID: AD26083-021
Date Collected: 9/28/2021 10:20:53 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-021

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 49311.7 | 105 | % | 0.50 | 105 | % | 0.50 | 0.48% |
| Y 371.029 | 15252.4 | 105 | % | 0.54 | 105 | % | 0.54 | 0.52% |
| Al 308.215† | 778.8 | 0.926761 | mg/L | 0.0044136 | 0.926761 | mg/L | 0.0044136 | 0.48% |
| Ba 233.527† | 842.3 | 0.199368 | mg/L | 0.0016066 | 0.199368 | mg/L | 0.0016066 | 0.81% |
| Ca 315.887† | 158628.3 | 34.6686 | mg/L | 0.05453 | 34.6686 | mg/L | 0.05453 | 0.16% |
| Cu 327.393† | -25.3 | 0.0033127 | mg/L | 0.00459981 | 0.0033127 | mg/L | 0.00459981 | 138.86% |
| Fe 273.955† | 1772.1 | 1.70911 | mg/L | 0.007537 | 1.70911 | mg/L | 0.007537 | 0.44% |
| K 766.490† | 4718.7 | 2.69168 | mg/L | 0.003119 | 2.69168 | mg/L | 0.003119 | 0.12% |
| Mg 279.077† | 6285.2 | 10.6150 | mg/L | 0.05740 | 10.6150 | mg/L | 0.05740 | 0.54% |
| Mn 257.610† | 5807.2 | 0.228418 | mg/L | 0.0015746 | 0.228418 | mg/L | 0.0015746 | 0.69% |
| Mo 202.031† | 1.8 | -0.0023134 | mg/L | 0.00257086 | -0.0023134 | mg/L | 0.00257086 | 111.13% |
| Na 589.592† | 168842.8 | 19.6681 | mg/L | 0.00794 | 19.6681 | mg/L | 0.00794 | 0.04% |
| Ni 231.604† | 3.1 | -0.0063573 | mg/L | 0.00587447 | -0.0063573 | mg/L | 0.00587447 | 92.40% |
| Se 196.026† | -2.3 | -0.0020403 | mg/L | 0.02060909 | -0.0020403 | mg/L | 0.02060909 | >999.9% |
| Sn 189.927† | -7.4 | -0.0340625 | mg/L | 0.00366602 | -0.0340625 | mg/L | 0.00366602 | 10.76% |
| Ti 334.940† | 1197.1 | 0.0323011 | mg/L | 0.00056925 | 0.0323011 | mg/L | 0.00056925 | 1.76% |
| V 290.880† | 114.2 | 0.0073353 | mg/L | 0.00161339 | 0.0073353 | mg/L | 0.00161339 | 21.99% |
| Zn 206.200† | 110.7 | 0.0281901 | mg/L | 0.00056203 | 0.0281901 | mg/L | 0.00056203 | 1.99% |
| Si 251.611† | 20280.5 | 8.49282 | mg/L | 0.032308 | 8.49282 | mg/L | 0.032308 | 0.38% |
| B 249.772† | 454.8 | 0.0589919 | mg/L | 0.00066970 | 0.0589919 | mg/L | 0.00066970 | 1.14% |
| Ce 413.764† | 73.8 | 0.0036707 | mg/L | 0.00993966 | 0.0036707 | mg/L | 0.00993966 | 270.79% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 20
Autosampler Location: 76
Sample ID: AD26083-023
Date Collected: 9/28/2021 10:24:59 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-023

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 49943.8 | 106 | % | 0.63 | 106 | % | 0.63 | 0.59% |
| Y 371.029 | 15475.4 | 106 | % | 0.58 | 106 | % | 0.58 | 0.54% |
| Al 308.215† | 736.1 | 0.874802 | mg/L | 0.0088055 | 0.874802 | mg/L | 0.0088055 | 1.01% |
| Ba 233.527† | 814.3 | 0.192584 | mg/L | 0.0007024 | 0.192584 | mg/L | 0.0007024 | 0.36% |
| Ca 315.887† | 153176.0 | 33.4629 | mg/L | 0.25883 | 33.4629 | mg/L | 0.25883 | 0.77% |
| Cu 327.393† | -33.4 | 0.0008650 | mg/L | 0.00346746 | 0.0008650 | mg/L | 0.00346746 | 400.87% |
| Fe 273.955† | 1695.2 | 1.63287 | mg/L | 0.014169 | 1.63287 | mg/L | 0.014169 | 0.87% |
| K 766.490† | 4570.6 | 2.60180 | mg/L | 0.009797 | 2.60180 | mg/L | 0.009797 | 0.38% |
| Mg 279.077† | 6153.4 | 10.3822 | mg/L | 0.00881 | 10.3822 | mg/L | 0.00881 | 0.08% |
| Mn 257.610† | 5705.6 | 0.224332 | mg/L | 0.0007413 | 0.224332 | mg/L | 0.0007413 | 0.33% |
| Mo 202.031† | 2.9 | -0.0013424 | mg/L | 0.00202575 | -0.0013424 | mg/L | 0.00202575 | 150.90% |
| Na 589.592† | 161735.3 | 18.8219 | mg/L | 0.14360 | 18.8219 | mg/L | 0.14360 | 0.76% |
| Ni 231.604† | -1.1 | -0.0089039 | mg/L | 0.00334116 | -0.0089039 | mg/L | 0.00334116 | 37.52% |
| Se 196.026† | -2.9 | -0.0044229 | mg/L | 0.00881912 | -0.0044229 | mg/L | 0.00881912 | 199.40% |
| Sn 189.927† | -5.2 | -0.0259791 | mg/L | 0.00309380 | -0.0259791 | mg/L | 0.00309380 | 11.91% |
| Ti 334.940† | 1168.1 | 0.0313667 | mg/L | 0.00026796 | 0.0313667 | mg/L | 0.00026796 | 0.85% |
| V 290.880† | 118.7 | 0.0080453 | mg/L | 0.00226516 | 0.0080453 | mg/L | 0.00226516 | 28.16% |
| Zn 206.200† | 127.7 | 0.0335846 | mg/L | 0.00142803 | 0.0335846 | mg/L | 0.00142803 | 4.25% |
| Si 251.611† | 19693.6 | 8.24262 | mg/L | 0.009475 | 8.24262 | mg/L | 0.009475 | 0.11% |
| B 249.772† | 434.5 | 0.0559272 | mg/L | 0.00126762 | 0.0559272 | mg/L | 0.00126762 | 2.27% |
| Ce 413.764† | 40.7 | -0.0048500 | mg/L | 0.00441997 | -0.0048500 | mg/L | 0.00441997 | 91.13% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 21 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/28/2021 10:29:05 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 49142.3 | 104 | % | 1.33 | 104 | % | 1.33 | 1.28% |
| Y 371.029 | 15055.7 | 103 | % | 0.90 | 103 | % | 0.90 | 0.87% |
| Al 308.215† | 3970.2 | 4.85182 | mg/L | 0.053625 | 4.85182 | mg/L | 0.053625 | 1.11% |
| QC value within limits for Al 308.215 Recovery = 97.04% | | | | | | | | |
| Ba 233.527† | 1981.3 | 0.475568 | mg/L | 0.0081993 | 0.475568 | mg/L | 0.0081993 | 1.72% |
| QC value within limits for Ba 233.527 Recovery = 95.11% | | | | | | | | |
| Ca 315.887† | 215143.9 | 47.1659 | mg/L | 1.30498 | 47.1659 | mg/L | 1.30498 | 2.77% |
| QC value within limits for Ca 315.887 Recovery = 94.33% | | | | | | | | |
| Cu 327.393† | 2123.2 | 0.514316 | mg/L | 0.0098744 | 0.514316 | mg/L | 0.0098744 | 1.92% |
| QC value within limits for Cu 327.393 Recovery = 102.86% | | | | | | | | |
| Fe 273.955† | 4866.7 | 4.77557 | mg/L | 0.084924 | 4.77557 | mg/L | 0.084924 | 1.78% |
| QC value within limits for Fe 273.955 Recovery = 95.51% | | | | | | | | |
| K 766.490† | 77204.6 | 46.6819 | mg/L | 1.14920 | 46.6819 | mg/L | 1.14920 | 2.46% |
| QC value within limits for K 766.490 Recovery = 93.36% | | | | | | | | |
| Mg 279.077† | 27346.0 | 47.8211 | mg/L | 0.79189 | 47.8211 | mg/L | 0.79189 | 1.66% |
| QC value within limits for Mg 279.077 Recovery = 95.64% | | | | | | | | |
| Mn 257.610† | 12044.0 | 0.483494 | mg/L | 0.0072835 | 0.483494 | mg/L | 0.0072835 | 1.51% |
| QC value within limits for Mn 257.610 Recovery = 96.70% | | | | | | | | |
| Mo 202.031† | 584.1 | 0.476530 | mg/L | 0.0066291 | 0.476530 | mg/L | 0.0066291 | 1.39% |
| QC value within limits for Mo 202.031 Recovery = 95.31% | | | | | | | | |
| Na 589.592† | 398180.0 | 46.9714 | mg/L | 1.19646 | 46.9714 | mg/L | 1.19646 | 2.55% |
| QC value within limits for Na 589.592 Recovery = 93.94% | | | | | | | | |
| Ni 231.604† | 795.3 | 0.474734 | mg/L | 0.0088621 | 0.474734 | mg/L | 0.0088621 | 1.87% |
| QC value within limits for Ni 231.604 Recovery = 94.95% | | | | | | | | |
| Se 196.026† | 107.0 | 0.467794 | mg/L | 0.0158109 | 0.467794 | mg/L | 0.0158109 | 3.38% |
| QC value within limits for Se 196.026 Recovery = 93.56% | | | | | | | | |
| Sn 189.927† | 129.6 | 0.486956 | mg/L | 0.0036529 | 0.486956 | mg/L | 0.0036529 | 0.75% |
| QC value within limits for Sn 189.927 Recovery = 97.39% | | | | | | | | |
| Ti 334.940† | 18847.3 | 0.484761 | mg/L | 0.0072135 | 0.484761 | mg/L | 0.0072135 | 1.49% |
| QC value within limits for Ti 334.940 Recovery = 96.95% | | | | | | | | |
| V 290.880† | 3514.1 | 0.455437 | mg/L | 0.0040844 | 0.455437 | mg/L | 0.0040844 | 0.90% |
| QC value within limits for V 290.880 Recovery = 91.09% | | | | | | | | |
| Zn 206.200† | 1527.8 | 0.478286 | mg/L | 0.0078428 | 0.478286 | mg/L | 0.0078428 | 1.64% |
| QC value within limits for Zn 206.200 Recovery = 95.66% | | | | | | | | |
| Si 251.611† | 11442.6 | 4.72527 | mg/L | 0.080249 | 4.72527 | mg/L | 0.080249 | 1.70% |
| QC value within limits for Si 251.611 Recovery = 94.51% | | | | | | | | |
| B 249.772† | 2907.4 | 0.455310 | mg/L | 0.0035054 | 0.455310 | mg/L | 0.0035054 | 0.77% |
| QC value within limits for B 249.772 Recovery = 91.06% | | | | | | | | |
| Ce 413.764† | 1898.3 | 0.472029 | mg/L | 0.0019326 | 0.472029 | mg/L | 0.0019326 | 0.41% |
| QC value within limits for Ce 413.764 Recovery = 94.41% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 22 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/28/2021 10:33:11 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 50334.9 | 107 | % | 0.32 | 107 | % | 0.32 | 0.30% |
| Y 371.029 | 15718.4 | 108 | % | 0.32 | 108 | % | 0.32 | 0.29% |
| Al 308.215† | 3.1 | -0.0218527 | mg/L | 0.00428408 | -0.0218527 | mg/L | 0.00428408 | 19.60% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 1.5 | -0.0048228 | mg/L | 0.00091982 | -0.0048228 | mg/L | 0.00091982 | 19.07% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -66.1 | -0.423809 | mg/L | 0.0053823 | -0.423809 | mg/L | 0.0053823 | 1.27% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -2.8 | -0.0076833 | mg/L | 0.00392536 | -0.0076833 | mg/L | 0.00392536 | 51.09% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -1.2 | -0.0481372 | mg/L | 0.00348057 | -0.0481372 | mg/L | 0.00348057 | 7.23% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -64.1 | -0.210916 | mg/L | 0.0131088 | -0.210916 | mg/L | 0.0131088 | 6.22% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -2.8 | -0.493255 | mg/L | 0.0096821 | -0.493255 | mg/L | 0.0096821 | 1.96% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 5.2 | -0.0044551 | mg/L | 0.00048724 | -0.0044551 | mg/L | 0.00048724 | 10.94% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 4.2 | -0.0002805 | mg/L | 0.00402627 | -0.0002805 | mg/L | 0.00402627 | >999.9% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -1381.0 | -0.597630 | mg/L | 0.0032670 | -0.597630 | mg/L | 0.0032670 | 0.55% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -7.8 | -0.0134415 | mg/L | 0.00418935 | -0.0134415 | mg/L | 0.00418935 | 31.17% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 5.4 | 0.0293156 | mg/L | 0.02075547 | 0.0293156 | mg/L | 0.02075547 | 70.80% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.7 | -0.0217533 | mg/L | 0.00229021 | -0.0217533 | mg/L | 0.00229021 | 10.53% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -7.6 | -0.0041445 | mg/L | 0.00080625 | -0.0041445 | mg/L | 0.00080625 | 19.45% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -6.5 | -0.0046343 | mg/L | 0.00204795 | -0.0046343 | mg/L | 0.00204795 | 44.19% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -3.5 | -0.0080683 | mg/L | 0.00107713 | -0.0080683 | mg/L | 0.00107713 | 13.35% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | -17.3 | -0.160031 | mg/L | 0.0038835 | -0.160031 | mg/L | 0.0038835 | 2.43% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 6.9 | -0.0085338 | mg/L | 0.00146314 | -0.0085338 | mg/L | 0.00146314 | 17.15% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 28.2 | -0.0080465 | mg/L | 0.00645122 | -0.0080465 | mg/L | 0.00645122 | 80.17% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 23
Autosampler Location: 77
Sample ID: AD26083-028
Date Collected: 9/28/2021 10:37:00 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-028

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 49900.4 | 106 | % | 0.73 | 106 | % | 0.73 | 0.69% |
| Y 371.029 | 15232.0 | 105 | % | 0.78 | 105 | % | 0.78 | 0.75% |
| Al 308.215† | 6224.3 | 7.58435 | mg/L | 0.034889 | 7.58435 | mg/L | 0.034889 | 0.46% |
| Ba 233.527† | 6123.0 | 1.48131 | mg/L | 0.012958 | 1.48131 | mg/L | 0.012958 | 0.87% |
| Ca 315.887† | 985642.5 | 217.548 | mg/L | 1.9011 | 217.548 | mg/L | 1.9011 | 0.87% |
| Cu 327.393† | -212.4 | 0.0442784 | mg/L | 0.00224245 | 0.0442784 | mg/L | 0.00224245 | 5.06% |
| Fe 273.955† | 13684.9 | 13.5137 | mg/L | 0.07863 | 13.5137 | mg/L | 0.07863 | 0.58% |
| K 766.490† | 14346.0 | 8.53425 | mg/L | 0.034496 | 8.53425 | mg/L | 0.034496 | 0.40% |
| Mg 279.077† | 38257.0 | 67.0966 | mg/L | 0.39176 | 67.0966 | mg/L | 0.39176 | 0.58% |
| Mn 257.610† | 25286.0 | 1.01384 | mg/L | 0.004272 | 1.01384 | mg/L | 0.004272 | 0.42% |
| Mo 202.031† | -0.6 | -0.0042483 | mg/L | 0.00360557 | -0.0042483 | mg/L | 0.00360557 | 84.87% |
| Na 589.592† | 1596125.0 | 189.591 | mg/L | 1.5438 | 189.591 | mg/L | 1.5438 | 0.81% |
| Ni 231.604† | 25.5 | 0.0106719 | mg/L | 0.00421582 | 0.0106719 | mg/L | 0.00421582 | 39.50% |
| Se 196.026† | -4.6 | -0.0003674 | mg/L | 0.00713852 | -0.0003674 | mg/L | 0.00713852 | >999.9% |
| Sn 189.927† | -29.2 | -0.0874788 | mg/L | 0.01004140 | -0.0874788 | mg/L | 0.01004140 | 11.48% |
| Ti 334.940† | 13241.3 | 0.369391 | mg/L | 0.0034603 | 0.369391 | mg/L | 0.0034603 | 0.94% |
| V 290.880† | 733.7 | 0.0689711 | mg/L | 0.00237385 | 0.0689711 | mg/L | 0.00237385 | 3.44% |
| Zn 206.200† | 263.3 | 0.0766633 | mg/L | 0.00132592 | 0.0766633 | mg/L | 0.00132592 | 1.73% |
| Si 251.611† | 46512.7 | 19.6755 | mg/L | 0.06843 | 19.6755 | mg/L | 0.06843 | 0.35% |
| B 249.772† | 1811.6 | 0.237385 | mg/L | 0.0027684 | 0.237385 | mg/L | 0.0027684 | 1.17% |
| Ce 413.764† | 99.5 | 0.0102577 | mg/L | 0.00546494 | 0.0102577 | mg/L | 0.00546494 | 53.28% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 24
Autosampler Location: 78
Sample ID: AD26083-030
Date Collected: 9/28/2021 10:41:08 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-030

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 50146.6 | 106 | % | 0.61 | 106 | % | 0.61 | 0.57% |
| Y 371.029 | 15326.5 | 105 | % | 0.47 | 105 | % | 0.47 | 0.45% |
| Al 308.215† | 97.2 | 0.0937219 | mg/L | 0.00293044 | 0.0937219 | mg/L | 0.00293044 | 3.13% |
| Ba 233.527† | 440.2 | 0.102110 | mg/L | 0.0016377 | 0.102110 | mg/L | 0.0016377 | 1.60% |
| Ca 315.887† | 27723.7 | 5.72140 | mg/L | 0.008073 | 5.72140 | mg/L | 0.008073 | 0.14% |
| Cu 327.393† | -18.4 | -0.0084960 | mg/L | 0.00522517 | -0.0084960 | mg/L | 0.00522517 | 61.50% |
| Fe 273.955† | 195.4 | 0.146707 | mg/L | 0.0095397 | 0.146707 | mg/L | 0.0095397 | 6.50% |
| K 766.490† | 12783.6 | 7.58611 | mg/L | 0.010461 | 7.58611 | mg/L | 0.010461 | 0.14% |
| Mg 279.077† | 3318.9 | 5.37474 | mg/L | 0.011093 | 5.37474 | mg/L | 0.011093 | 0.21% |
| Mn 257.610† | 1168.1 | 0.0429039 | mg/L | 0.00040827 | 0.0429039 | mg/L | 0.00040827 | 0.95% |
| Mo 202.031† | 2.6 | -0.0016234 | mg/L | 0.00140360 | -0.0016234 | mg/L | 0.00140360 | 86.46% |
| Na 589.592† | 676236.7 | 80.0750 | mg/L | 0.47925 | 80.0750 | mg/L | 0.47925 | 0.60% |
| Ni 231.604† | 4.9 | -0.0057044 | mg/L | 0.00475313 | -0.0057044 | mg/L | 0.00475313 | 83.32% |
| Se 196.026† | -1.9 | -0.0014882 | mg/L | 0.01720336 | -0.0014882 | mg/L | 0.01720336 | >999.9% |
| Sn 189.927† | -4.8 | -0.0282230 | mg/L | 0.00008856 | -0.0282230 | mg/L | 0.00008856 | 0.31% |
| Ti 334.940† | 204.4 | 0.0022632 | mg/L | 0.00083092 | 0.0022632 | mg/L | 0.00083092 | 36.71% |
| V 290.880† | 62.0 | 0.0023329 | mg/L | 0.00081280 | 0.0023329 | mg/L | 0.00081280 | 34.84% |
| Zn 206.200† | 31.6 | 0.0030671 | mg/L | 0.00178251 | 0.0030671 | mg/L | 0.00178251 | 58.12% |
| Si 251.611† | 13152.4 | 5.45414 | mg/L | 0.003735 | 5.45414 | mg/L | 0.003735 | 0.07% |
| B 249.772† | 745.3 | 0.113713 | mg/L | 0.0012178 | 0.113713 | mg/L | 0.0012178 | 1.07% |
| Ce 413.764† | 84.7 | 0.0064519 | mg/L | 0.00687443 | 0.0064519 | mg/L | 0.00687443 | 106.55% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 25
Autosampler Location: 79
Sample ID: AD26083-036
Date Collected: 9/28/2021 10:45:15 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-036

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 46664.0 | 99.1 | % | 0.60 | 99.1 | % | 0.60 | 0.60% |
| Y 371.029 | 13278.0 | 91.2 | % | 0.49 | 91.2 | % | 0.49 | 0.54% |
| Al 308.215† | 422.6 | 0.519678 | mg/L | 0.0070328 | 0.519678 | mg/L | 0.0070328 | 1.35% |
| Ba 233.527† | 215.0 | 0.0450317 | mg/L | 0.00083153 | 0.0450317 | mg/L | 0.00083153 | 1.85% |
| Ca 315.887† | 4001695.0 | 884.492 | mg/L | 16.1728 | 884.492 | mg/L | 16.1728 | 1.83% |
| Cu 327.393† | -1199.9 | 0.121932 | mg/L | 0.0039646 | 0.121932 | mg/L | 0.0039646 | 3.25% |
| Fe 273.955† | 4066.6 | 3.98279 | mg/L | 0.049481 | 3.98279 | mg/L | 0.049481 | 1.24% |
| K 766.490† | 60324.8 | 36.4378 | mg/L | 0.48711 | 36.4378 | mg/L | 0.48711 | 1.34% |
| Mg 279.077† | 176327.6 | 311.013 | mg/L | 5.4039 | 311.013 | mg/L | 5.4039 | 1.74% |
| Mn 257.610† | 140728.3 | 5.65164 | mg/L | 0.099818 | 5.65164 | mg/L | 0.099818 | 1.77% |
| Mo 202.031† | -12.6 | -0.0140911 | mg/L | 0.00447693 | -0.0140911 | mg/L | 0.00447693 | 31.77% |
| Na 589.592† | 19833687.7 | 2360.83 | mg/L | 28.156 | 2360.83 | mg/L | 28.156 | 1.19% |
| Ni 231.604† | -28.0 | -0.0242743 | mg/L | 0.00196165 | -0.0242743 | mg/L | 0.00196165 | 8.08% |
| Se 196.026† | -7.0 | -0.0197203 | mg/L | 0.00718117 | -0.0197203 | mg/L | 0.00718117 | 36.42% |
| Sn 189.927† | -97.3 | -0.233961 | mg/L | 0.0170521 | -0.233961 | mg/L | 0.0170521 | 7.29% |
| Ti 334.940† | -5557.2 | -0.0019352 | mg/L | 0.00081238 | -0.0019352 | mg/L | 0.00081238 | 41.98% |
| V 290.880† | 2318.2 | 0.186591 | mg/L | 0.0058261 | 0.186591 | mg/L | 0.0058261 | 3.12% |
| Zn 206.200† | 109.7 | 0.0278898 | mg/L | 0.00137958 | 0.0278898 | mg/L | 0.00137958 | 4.95% |
| Si 251.611† | 20613.2 | 8.63465 | mg/L | 0.025747 | 8.63465 | mg/L | 0.025747 | 0.30% |
| B 249.772† | 2666.1 | 0.418297 | mg/L | 0.0058563 | 0.418297 | mg/L | 0.0058563 | 1.40% |
| Ce 413.764† | 37.6 | -0.0056292 | mg/L | 0.00553693 | -0.0056292 | mg/L | 0.00553693 | 98.36% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 26
Sample ID: AD26083-038
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 150
Autosampler Location: 80
Date Collected: 9/28/2021 10:51:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-038

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 49848.6 | 106 | % | 1.20 | 106 | % | 1.20 | 1.13% |
| Y 371.029 | 15529.9 | 107 | % | 1.17 | 107 | % | 1.17 | 1.09% |
| Al 308.215† | 32.3 | 0.0146774 | mg/L | 0.00668743 | 0.0146774 | mg/L | 0.00668743 | 45.56% |
| Ba 233.527† | 227.2 | 0.0501258 | mg/L | 0.00087050 | 0.0501258 | mg/L | 0.00087050 | 1.74% |
| Ca 315.887† | 81531.6 | 17.6200 | mg/L | 0.31458 | 17.6200 | mg/L | 0.31458 | 1.79% |
| Cu 327.393† | -20.6 | -0.0034992 | mg/L | 0.00530687 | -0.0034992 | mg/L | 0.00530687 | 151.66% |
| Fe 273.955† | 242.0 | 0.192913 | mg/L | 0.0080678 | 0.192913 | mg/L | 0.0080678 | 4.18% |
| K 766.490† | 3521.4 | 1.96503 | mg/L | 0.053270 | 1.96503 | mg/L | 0.053270 | 2.71% |
| Mg 279.077† | 3491.3 | 5.67935 | mg/L | 0.037202 | 5.67935 | mg/L | 0.037202 | 0.66% |
| Mn 257.610† | 160.5 | 0.0028810 | mg/L | 0.00024993 | 0.0028810 | mg/L | 0.00024993 | 8.67% |
| Mo 202.031† | 2.8 | -0.0014469 | mg/L | 0.00418957 | -0.0014469 | mg/L | 0.00418957 | 289.56% |
| Na 589.592† | 145930.6 | 16.9403 | mg/L | 0.33789 | 16.9403 | mg/L | 0.33789 | 1.99% |
| Ni 231.604† | -0.5 | -0.0089809 | mg/L | 0.00195491 | -0.0089809 | mg/L | 0.00195491 | 21.77% |
| Se 196.026† | 1.1 | 0.0112708 | mg/L | 0.00719293 | 0.0112708 | mg/L | 0.00719293 | 63.82% |
| Sn 189.927† | -4.8 | -0.0269446 | mg/L | 0.01416840 | -0.0269446 | mg/L | 0.01416840 | 52.58% |
| Ti 334.940† | -37.2 | -0.0019688 | mg/L | 0.00069281 | -0.0019688 | mg/L | 0.00069281 | 35.19% |
| V 290.880† | 62.5 | 0.0022823 | mg/L | 0.00060150 | 0.0022823 | mg/L | 0.00060150 | 26.36% |
| Zn 206.200† | 28.6 | 0.0021073 | mg/L | 0.00023393 | 0.0021073 | mg/L | 0.00023393 | 11.10% |
| Si 251.611† | 5846.7 | 2.33973 | mg/L | 0.008293 | 2.33973 | mg/L | 0.008293 | 0.35% |
| B 249.772† | 125.2 | 0.0102015 | mg/L | 0.00094592 | 0.0102015 | mg/L | 0.00094592 | 9.27% |
| Ce 413.764† | 32.6 | -0.0069202 | mg/L | 0.00327693 | -0.0069202 | mg/L | 0.00327693 | 47.35% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 27
Sample ID: AD26083-046
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 81
Date Collected: 9/28/2021 10:55:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-046

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 49921.4 | 106 | % | 0.37 | 106 | % | 0.37 | 0.35% |
| Y 371.029 | 15509.7 | 107 | % | 0.70 | 107 | % | 0.70 | 0.66% |
| Al 308.215† | 66.8 | 0.0561739 | mg/L | 0.00255885 | 0.0561739 | mg/L | 0.00255885 | 4.56% |
| Ba 233.527† | 209.4 | 0.0455437 | mg/L | 0.00057510 | 0.0455437 | mg/L | 0.00057510 | 1.26% |
| Ca 315.887† | 48390.1 | 10.2914 | mg/L | 0.01855 | 10.2914 | mg/L | 0.01855 | 0.18% |
| Cu 327.393† | -13.7 | -0.0052679 | mg/L | 0.00341462 | -0.0052679 | mg/L | 0.00341462 | 64.82% |
| Fe 273.955† | 685.4 | 0.632274 | mg/L | 0.0097349 | 0.632274 | mg/L | 0.0097349 | 1.54% |
| K 766.490† | 44240.3 | 26.6765 | mg/L | 0.23316 | 26.6765 | mg/L | 0.23316 | 0.87% |
| Mg 279.077† | 1065.8 | 1.39456 | mg/L | 0.015570 | 1.39456 | mg/L | 0.015570 | 1.12% |
| Mn 257.610† | 2867.0 | 0.109733 | mg/L | 0.0003030 | 0.109733 | mg/L | 0.0003030 | 0.28% |
| Mo 202.031† | 1.1 | -0.0028332 | mg/L | 0.00353754 | -0.0028332 | mg/L | 0.00353754 | 124.86% |
| Na 589.592† | 250724.0 | 29.4163 | mg/L | 0.26877 | 29.4163 | mg/L | 0.26877 | 0.91% |
| Ni 231.604† | 3.0 | -0.0066604 | mg/L | 0.00423660 | -0.0066604 | mg/L | 0.00423660 | 63.61% |
| Se 196.026† | 2.2 | 0.0161652 | mg/L | 0.03617107 | 0.0161652 | mg/L | 0.03617107 | 223.76% |
| Sn 189.927† | -3.5 | -0.0234062 | mg/L | 0.01126066 | -0.0234062 | mg/L | 0.01126066 | 48.11% |
| Ti 334.940† | 36.8 | -0.0012691 | mg/L | 0.00064850 | -0.0012691 | mg/L | 0.00064850 | 51.10% |
| V 290.880† | 20.5 | -0.0017205 | mg/L | 0.00158409 | -0.0017205 | mg/L | 0.00158409 | 92.07% |
| Zn 206.200† | 89.3 | 0.0213892 | mg/L | 0.00118299 | 0.0213892 | mg/L | 0.00118299 | 5.53% |
| Si 251.611† | 8416.6 | 3.43530 | mg/L | 0.006317 | 3.43530 | mg/L | 0.006317 | 0.18% |
| B 249.772† | 175.5 | 0.0167998 | mg/L | 0.00066956 | 0.0167998 | mg/L | 0.00066956 | 3.99% |
| Ce 413.764† | 71.4 | 0.0030320 | mg/L | 0.00626349 | 0.0030320 | mg/L | 0.00626349 | 206.58% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 28
Autosampler Location: 82
Sample ID: AD26083-039
Date Collected: 9/28/2021 10:59:18 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-039

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 50238.4 | 107 | % | 0.96 | 107 | % | 0.96 | 0.90% |
| Y 371.029 | 15564.3 | 107 | % | 0.71 | 107 | % | 0.71 | 0.66% |
| Al 308.215† | 3.9 | -0.0200880 | mg/L | 0.01598862 | -0.0200880 | mg/L | 0.01598862 | 79.59% |
| Ba 233.527† | 210.4 | 0.0461363 | mg/L | 0.00064518 | 0.0461363 | mg/L | 0.00064518 | 1.40% |
| Ca 315.887† | 79471.9 | 17.1646 | mg/L | 0.15664 | 17.1646 | mg/L | 0.15664 | 0.91% |
| Cu 327.393† | -31.6 | -0.0062820 | mg/L | 0.00137754 | -0.0062820 | mg/L | 0.00137754 | 21.93% |
| Fe 273.955† | 16.3 | -0.0308072 | mg/L | 0.00817239 | -0.0308072 | mg/L | 0.00817239 | 26.53% |
| K 766.490† | 3123.5 | 1.72359 | mg/L | 0.023707 | 1.72359 | mg/L | 0.023707 | 1.38% |
| Mg 279.077† | 3353.4 | 5.43570 | mg/L | 0.019043 | 5.43570 | mg/L | 0.019043 | 0.35% |
| Mn 257.610† | 17.7 | -0.0028442 | mg/L | 0.00049155 | -0.0028442 | mg/L | 0.00049155 | 17.28% |
| Mo 202.031† | 0.9 | -0.0030045 | mg/L | 0.00405425 | -0.0030045 | mg/L | 0.00405425 | 134.94% |
| Na 589.592† | 139666.1 | 16.1945 | mg/L | 0.14974 | 16.1945 | mg/L | 0.14974 | 0.92% |
| Ni 231.604† | -2.6 | -0.0103303 | mg/L | 0.00503878 | -0.0103303 | mg/L | 0.00503878 | 48.78% |
| Se 196.026† | -3.2 | -0.0075532 | mg/L | 0.01269031 | -0.0075532 | mg/L | 0.01269031 | 168.01% |
| Sn 189.927† | -8.2 | -0.0396897 | mg/L | 0.00632998 | -0.0396897 | mg/L | 0.00632998 | 15.95% |
| Ti 334.940† | -73.7 | -0.0029740 | mg/L | 0.00018697 | -0.0029740 | mg/L | 0.00018697 | 6.29% |
| V 290.880† | 49.7 | 0.0006342 | mg/L | 0.00014669 | 0.0006342 | mg/L | 0.00014669 | 23.13% |
| Zn 206.200† | 120.2 | 0.0312119 | mg/L | 0.00169298 | 0.0312119 | mg/L | 0.00169298 | 5.42% |
| Si 251.611† | 5678.5 | 2.26804 | mg/L | 0.006881 | 2.26804 | mg/L | 0.006881 | 0.30% |
| B 249.772† | 122.2 | 0.0106051 | mg/L | 0.00140224 | 0.0106051 | mg/L | 0.00140224 | 13.22% |
| Ce 413.764† | 14.5 | -0.0115608 | mg/L | 0.00991300 | -0.0115608 | mg/L | 0.00991300 | 85.75% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 29 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/28/2021 11:03:23 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 50032.2 | 106 | % | 0.21 | 106 | % | 0.21 | 0.19% |
| Y 371.029 | 15320.5 | 105 | % | 0.14 | 105 | % | 0.14 | 0.14% |
| Al 308.215† | 3849.9 | 4.70344 | mg/L | 0.017438 | 4.70344 | mg/L | 0.017438 | 0.37% |
| QC value within limits for Al 308.215 Recovery = 94.07% | | | | | | | | |
| Ba 233.527† | 1929.1 | 0.462940 | mg/L | 0.0039101 | 0.462940 | mg/L | 0.0039101 | 0.84% |
| QC value within limits for Ba 233.527 Recovery = 92.59% | | | | | | | | |
| Ca 315.887† | 205661.1 | 45.0690 | mg/L | 0.17437 | 45.0690 | mg/L | 0.17437 | 0.39% |
| QC value within limits for Ca 315.887 Recovery = 90.14% | | | | | | | | |
| Cu 327.393† | 2049.7 | 0.496059 | mg/L | 0.0058727 | 0.496059 | mg/L | 0.0058727 | 1.18% |
| QC value within limits for Cu 327.393 Recovery = 99.21% | | | | | | | | |
| Fe 273.955† | 4689.4 | 4.59988 | mg/L | 0.010730 | 4.59988 | mg/L | 0.010730 | 0.23% |
| QC value within limits for Fe 273.955 Recovery = 92.00% | | | | | | | | |
| K 766.490† | 74738.8 | 45.1854 | mg/L | 0.11411 | 45.1854 | mg/L | 0.11411 | 0.25% |
| QC value within limits for K 766.490 Recovery = 90.37% | | | | | | | | |
| Mg 279.077† | 26282.7 | 45.9427 | mg/L | 0.03111 | 45.9427 | mg/L | 0.03111 | 0.07% |
| QC value within limits for Mg 279.077 Recovery = 91.89% | | | | | | | | |
| Mn 257.610† | 11602.5 | 0.465583 | mg/L | 0.0013848 | 0.465583 | mg/L | 0.0013848 | 0.30% |
| QC value within limits for Mn 257.610 Recovery = 93.12% | | | | | | | | |
| Mo 202.031† | 570.9 | 0.465633 | mg/L | 0.0065765 | 0.465633 | mg/L | 0.0065765 | 1.41% |
| QC value within limits for Mo 202.031 Recovery = 93.13% | | | | | | | | |
| Na 589.592† | 387528.1 | 45.7033 | mg/L | 0.09901 | 45.7033 | mg/L | 0.09901 | 0.22% |
| QC value within limits for Na 589.592 Recovery = 91.41% | | | | | | | | |
| Ni 231.604† | 771.9 | 0.460481 | mg/L | 0.0047266 | 0.460481 | mg/L | 0.0047266 | 1.03% |
| QC value within limits for Ni 231.604 Recovery = 92.10% | | | | | | | | |
| Se 196.026† | 107.8 | 0.470955 | mg/L | 0.0055473 | 0.470955 | mg/L | 0.0055473 | 1.18% |
| QC value within limits for Se 196.026 Recovery = 94.19% | | | | | | | | |
| Sn 189.927† | 123.8 | 0.464466 | mg/L | 0.0101605 | 0.464466 | mg/L | 0.0101605 | 2.19% |
| QC value within limits for Sn 189.927 Recovery = 92.89% | | | | | | | | |
| Ti 334.940† | 18194.1 | 0.467750 | mg/L | 0.0015917 | 0.467750 | mg/L | 0.0015917 | 0.34% |
| QC value within limits for Ti 334.940 Recovery = 93.55% | | | | | | | | |
| V 290.880† | 3383.3 | 0.438382 | mg/L | 0.0039179 | 0.438382 | mg/L | 0.0039179 | 0.89% |
| QC value less than the lower limit for V 290.880 Recovery = 87.68% | | | | | | | | |
| Zn 206.200† | 1488.9 | 0.465925 | mg/L | 0.0025080 | 0.465925 | mg/L | 0.0025080 | 0.54% |
| QC value within limits for Zn 206.200 Recovery = 93.18% | | | | | | | | |
| Si 251.611† | 11038.6 | 4.55301 | mg/L | 0.005679 | 4.55301 | mg/L | 0.005679 | 0.12% |
| QC value within limits for Si 251.611 Recovery = 91.06% | | | | | | | | |
| B 249.772† | 2789.7 | 0.436402 | mg/L | 0.0033880 | 0.436402 | mg/L | 0.0033880 | 0.78% |
| QC value less than the lower limit for B 249.772 Recovery = 87.28% | | | | | | | | |
| Ce 413.764† | 1886.0 | 0.468860 | mg/L | 0.0056448 | 0.468860 | mg/L | 0.0056448 | 1.20% |
| QC value within limits for Ce 413.764 Recovery = 93.77% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 30 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/28/2021 11:07:27 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 50866.1 | 108 | % | 0.45 | 108 | % | 0.45 | 0.42% |
| Y 371.029 | 15587.2 | 107 | % | 0.56 | 107 | % | 0.56 | 0.52% |
| Al 308.215† | 11.0 | -0.0121731 | mg/L | 0.00751370 | -0.0121731 | mg/L | 0.00751370 | 61.72% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 0.6 | -0.0050338 | mg/L | 0.00040882 | -0.0050338 | mg/L | 0.00040882 | 8.12% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -48.8 | -0.419977 | mg/L | 0.0048025 | -0.419977 | mg/L | 0.0048025 | 1.14% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -12.4 | -0.0099544 | mg/L | 0.00082290 | -0.0099544 | mg/L | 0.00082290 | 8.27% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 3.0 | -0.0439353 | mg/L | 0.00467959 | -0.0439353 | mg/L | 0.00467959 | 10.65% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | 6.0 | -0.168394 | mg/L | 0.0185210 | -0.168394 | mg/L | 0.0185210 | 11.00% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 7.3 | -0.475396 | mg/L | 0.0067414 | -0.475396 | mg/L | 0.0067414 | 1.42% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 5.3 | -0.0044474 | mg/L | 0.00039083 | -0.0044474 | mg/L | 0.00039083 | 8.79% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 0.0 | -0.0037465 | mg/L | 0.00273062 | -0.0037465 | mg/L | 0.00273062 | 72.88% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 42.5 | -0.428165 | mg/L | 0.0017170 | -0.428165 | mg/L | 0.0017170 | 0.40% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -7.0 | -0.0129842 | mg/L | 0.00276355 | -0.0129842 | mg/L | 0.00276355 | 21.28% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 1.4 | 0.0124153 | mg/L | 0.00031984 | 0.0124153 | mg/L | 0.00031984 | 2.58% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.0 | -0.0192079 | mg/L | 0.01096410 | -0.0192079 | mg/L | 0.01096410 | 57.08% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 52.3 | -0.0026165 | mg/L | 0.00051029 | -0.0026165 | mg/L | 0.00051029 | 19.50% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -6.1 | -0.0045895 | mg/L | 0.00112535 | -0.0045895 | mg/L | 0.00112535 | 24.52% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -0.7 | -0.0071943 | mg/L | 0.00234586 | -0.0071943 | mg/L | 0.00234586 | 32.61% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | -22.7 | -0.162345 | mg/L | 0.0016255 | -0.162345 | mg/L | 0.0016255 | 1.00% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -1.1 | -0.0098997 | mg/L | 0.00181909 | -0.0098997 | mg/L | 0.00181909 | 18.38% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 18.4 | -0.0105668 | mg/L | 0.00821955 | -0.0105668 | mg/L | 0.00821955 | 77.79% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method: PE5 AVIO500 SW846 RD  Page 1  Date: 9/29/2021 3:03:24 PM

SW27669E5  27669/27670/27671

SW846 CJA 9/29/21

Analysis Begun

Start Time: 9/29/2021 3:00:49 PM
Originator: usemet
Spectrometer: Avio 500, S/N 08IS2010191
Plasma On Time: 9/29/2021 9:28:06 AM
Technique: ICP Continuous
Autosampler: S23

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\09.29.21.sifx
Results Data Set: SW27669E5
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

10/6/21

Batch ID:
Sequence No.: 1
Sample ID: CALBLK V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):
Autosampler Location: 1
Date Collected: 9/29/2021 3:00:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-352951

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 93565.8 | 745.79 | 0.80% | 100 | % |
| Y 371.029 | 36546.6 | 296.75 | 0.81% | 100 | % |
| Al 308.215† | -55.3 | 13.81 | 24.97% | [0.00] | mg/L |
| Ba 233.527† | 8.2 | 0.83 | 10.13% | [0.00] | mg/L |
| Ca 315.887† | 156.7 | 90.35 | 57.66% | [0.00] | mg/L |
| Cu 327.393† | -45.4 | 40.84 | 89.89% | [0.00] | mg/L |
| Fe 273.955† | 23.1 | 2.16 | 9.36% | [0.00] | mg/L |
| K 766.490† | 1217.0 | 47.72 | 3.92% | [0.00] | mg/L |
| Mg 279.077† | -7.4 | 12.96 | 176.10% | [0.00] | mg/L |
| Mn 257.610† | 6.9 | 2.65 | 38.39% | [0.00] | mg/L |
| Mo 202.031† | 3.7 | 2.25 | 61.53% | [0.00] | mg/L |
| Na 589.592† | 6042.8 | 141.70 | 2.35% | [0.00] | mg/L |
| Ni 231.604† | 47.1 | 6.46 | 13.72% | [0.00] | mg/L |
| Se 196.026† | -12.0 | 2.75 | 22.88% | [0.00] | mg/L |
| Sn 189.927† | 2.8 | 0.87 | 31.20% | [0.00] | mg/L |
| Ti 334.940† | -490.3 | 17.08 | 3.48% | [0.00] | mg/L |
| V 290.880† | 108.0 | 12.02 | 11.14% | [0.00] | mg/L |
| Zn 206.200† | 7.1 | 6.11 | 85.83% | [0.00] | mg/L |
| Si 251.611† | 207.6 | 4.51 | 2.17% | [0.00] | mg/L |
| B 249.772† | 9.4 | 14.19 | 150.97% | [0.00] | mg/L |
| Ce 413.764† | 181.4 | 51.13 | 28.18% | [0.00] | mg/L |

27670/94428.

26083-036

26083-040, 042, 044 TQC

(100) Na Reported.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 2
Autosampler Location: 5
Sample ID: CALST2 V-352961
Date Collected: 9/29/2021 3:04:44 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST2 V-352961

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 97496.1 | 204.86 | 0.21% | 104 | % |
| Y 371.029 | 37228.5 | 29.44 | 0.08% | 102 | % |
| Al 308.215† | 193.1 | 6.30 | 3.26% | [0.2] | mg/L |
| Ba 233.527† | 256.2 | 6.80 | 2.65% | [0.050] | mg/L |
| Ca 315.887† | 27380.3 | 53.58 | 0.20% | [5] | mg/L |
| Cu 327.393† | 313.6 | 13.23 | 4.22% | [0.050] | mg/L |
| Fe 273.955† | 381.2 | 3.72 | 0.98% | [0.30] | mg/L |
| K 766.490† | 9486.3 | 46.80 | 0.49% | [5] | mg/L |
| Mg 279.077† | 3510.6 | 32.85 | 0.94% | [5.0] | mg/L |
| Mn 257.610† | 1256.1 | 7.05 | 0.56% | [0.040] | mg/L |
| Mo 202.031† | 23.1 | 3.88 | 16.78% | [0.020] | mg/L |
| Na 589.592† | 50187.9 | 139.99 | 0.28% | [5] | mg/L |
| Ni 231.604† | 104.5 | 5.96 | 5.70% | [0.050] | mg/L |
| Se 196.026† | 14.5 | 4.61 | 31.82% | [0.050] | mg/L |
| Sn 189.927† | 15.6 | 2.85 | 18.27% | [0.050] | mg/L |
| Ti 334.940† | 2391.4 | 50.82 | 2.13% | [0.050] | mg/L |
| V 290.880† | 416.0 | 6.33 | 1.52% | [0.050] | mg/L |
| Zn 206.200† | 195.3 | 3.66 | 1.87% | [0.050] | mg/L |
| Si 251.611† | 838.3 | 7.07 | 0.84% | [0.2] | mg/L |
| B 249.772† | 1450.2 | 6.95 | 0.48% | [0.20] | mg/L |
| Ce 413.764† | 950.9 | 44.91 | 4.72% | [0.2] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
NSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 3
Autosampler Location: 3
Sample ID: CALST3 V-352955
Date Collected: 9/29/2021 3:08:36 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST3 V-352955

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 97313.8 | 107.18 | 0.11% | 104 | % |
| Y 371.029 | 36375.8 | 153.95 | 0.42% | 99.5 | % |
| Al 308.215↑ | 4647.1 | 35.76 | 0.77% | [5.0] | mg/L |
| Ba 233.527↑ | 2332.0 | 7.94 | 0.34% | [0.50] | mg/L |
| Ca 315.887↑ | 263006.3 | 719.81 | 0.27% | [50] | mg/L |
| Cu 327.393↑ | 2461.3 | 13.49 | 0.55% | [0.50] | mg/L |
| Fe 273.955↑ | 5893.6 | 26.29 | 0.45% | [5.0] | mg/L |
| K 766.490↑ | 94224.7 | 168.21 | 0.18% | [50] | mg/L |
| Mg 279.077↑ | 32883.0 | 182.43 | 0.55% | [50] | mg/L |
| Mn 257.610↑ | 15028.7 | 100.22 | 0.67% | [0.50] | mg/L |
| Mo 202.031↑ | 706.1 | 1.68 | 0.24% | [0.50] | mg/L |
| Na 589.592↑ | 487811.8 | 1522.26 | 0.31% | [50] | mg/L |
| Ni 231.604↑ | 962.9 | 3.52 | 0.37% | [0.50] | mg/L |
| Se 196.026↑ | 144.8 | 1.04 | 0.72% | [0.50] | mg/L |
| Sn 189.927↑ | 166.1 | 5.46 | 3.29% | [0.50] | mg/L |
| Ti 334.940↑ | 22653.9 | 151.25 | 0.67% | [0.50] | mg/L |
| V 290.880↑ | 4231.5 | 12.91 | 0.31% | [0.50] | mg/L |
| Zn 206.200↑ | 1862.4 | 3.54 | 0.19% | [0.50] | mg/L |
| Si 251.611↑ | 13703.4 | 98.78 | 0.72% | [5] | mg/L |
| B 249.772↑ | 3528.1 | 29.57 | 0.84% | [0.50] | mg/L |
| Ce 413.764↑ | 2318.0 | 29.24 | 1.26% | [0.5] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 4
Sample ID: CALST4 V-352956
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 4
Date Collected: 9/29/2021 3:12:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-352956

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 92922.5 | 499.77 | 0.54% | 99.3 | % |
| Y 371.029 | 35406.3 | 151.42 | 0.43% | 96.9 | % |
| Al 308.215† | 9483.6 | 23.37 | 0.25% | [10] | mg/L |
| Ba 233.527† | 4760.2 | 42.13 | 0.88% | [1.0] | mg/L |
| Ca 315.887† | 527448.6 | 3911.58 | 0.74% | [100] | mg/L |
| Cu 327.393† | 4891.2 | 17.26 | 0.35% | [1.0] | mg/L |
| Fe 273.955† | 11764.0 | 34.62 | 0.29% | [10] | mg/L |
| K 766.490† | 193045.8 | 1129.43 | 0.59% | [100] | mg/L |
| Mg 279.077† | 65980.0 | 173.62 | 0.26% | [100] | mg/L |
| Mn 257.610† | 29939.9 | 97.39 | 0.33% | [1.0] | mg/L |
| Mo 202.031† | 1436.3 | 13.16 | 0.92% | [1.0] | mg/L |
| Na 589.592† | 983295.1 | 5021.97 | 0.51% | [100] | mg/L |
| Ni 231.604† | 1941.8 | 12.53 | 0.65% | [1.0] | mg/L |
| Se 196.026† | 277.7 | 7.94 | 2.86% | [1.0] | mg/L |
| Sn 189.927† | 323.7 | 4.03 | 1.25% | [1.0] | mg/L |
| Ti 334.940† | 45664.1 | 76.12 | 0.17% | [1.0] | mg/L |
| V 290.880† | 8466.6 | 3.31 | 0.04% | [1.0] | mg/L |
| Zn 206.200† | 3738.5 | 28.23 | 0.76% | [1.0] | mg/L |
| Si 251.611† | 27524.2 | 13.89 | 0.05% | [10] | mg/L |
| B 249.772† | 7059.9 | 10.23 | 0.14% | [1.0] | mg/L |
| Ce 413.764† | 4582.1 | 41.73 | 0.91% | [1] | mg/L |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| Al 308.215 | 3 | Lin, Calc Int | -15.7 | 946.5 | 0.00000 | 0.999945 | |
| Ba 233.527 | 3 | Lin, Calc Int | -0.6 | 4742 | 0.00000 | 0.999925 | |
| Ca 315.887 | 3 | Lin, Calc Int | 322.7 | 5268 | 0.00000 | 0.999997 | |
| Cu 327.393 | 3 | Lin, Calc Int | 34.0 | 4858 | 0.00000 | 0.999919 | |
| Fe 273.955 | 3 | Lin, Calc Int | 14.9 | 1175 | 0.00000 | 0.999998 | |
| K 766.490 | 3 | Lin, Calc Int | -495.6 | 1927 | 0.00000 | 0.999923 | |
| Mg 279.077 | 3 | Lin, Calc Int | 75.7 | 658.5 | 0.00000 | 0.999992 | |
| Mn 257.610 | 3 | Lin, Calc Int | 37.2 | 29920 | 0.00000 | 0.999997 | |
| Mo 202.031 | 3 | Lin, Calc Int | -4.7 | 1437 | 0.00000 | 0.999965 | |
| Na 589.592 | 3 | Lin, Calc Int | -241.4 | 9821 | 0.00000 | 0.999990 | |
| Ni 231.604 | 3 | Lin, Calc Int | 1.9 | 1937 | 0.00000 | 0.999979 | |
| Se 196.026 | 3 | Lin, Calc Int | 1.4 | 278.4 | 0.00000 | 0.999752 | |
| Sn 189.927 | 3 | Lin, Calc Int | 0.5 | 324.7 | 0.00000 | 0.999897 | |
| Ti 334.940 | 3 | Lin, Calc Int | 16.1 | 45580 | 0.00000 | 0.999986 | |
| V 290.880 | 3 | Lin, Calc Int | -3.6 | 8470 | 0.00000 | 1.000000 | |
| Zn 206.200 | 3 | Lin, Calc Int | 2.5 | 3733 | 0.00000 | 0.999995 | |
| Si 251.611 | 3 | Lin, Calc Int | 119.8 | 2736 | 0.00000 | 0.999945 | |
| B 249.772 | 3 | Lin, Calc Int | 15.7 | 7045 | 0.00000 | 0.999982 | |
| Ce 413.764 | 3 | Lin, Calc Int | 19.7 | 4572 | 0.00000 | 0.999961 | |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 5
Sample ID: ICV V-352960
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 6
Date Collected: 9/29/2021 3:16:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94635.0 | 101 | % | 0.81 | 101 | % | 0.81 | 0.80% |
| Y 371.029 | 35653.0 | 97.6 | % | 0.93 | 97.6 | % | 0.93 | 0.95% |
| Al 308.215† | 4651.8 | 4.96207 | mg/L | 0.051850 | 4.96207 | mg/L | 0.051850 | 1.04% |
| QC value within limits for Al 308.215 Recovery = 99.24% | | | | | | | | |
| Ba 233.527† | 2367.0 | 0.496455 | mg/L | 0.0071058 | 0.496455 | mg/L | 0.0071058 | 1.43% |
| QC value within limits for Ba 233.527 Recovery = 99.29% | | | | | | | | |
| Ca 315.887† | 261602.4 | 49.5973 | mg/L | 0.11991 | 49.5973 | mg/L | 0.11991 | 0.24% |
| QC value within limits for Ca 315.887 Recovery = 99.19% | | | | | | | | |
| Cu 327.393† | 2463.7 | 0.523171 | mg/L | 0.0080890 | 0.523171 | mg/L | 0.0080890 | 1.55% |
| QC value within limits for Cu 327.393 Recovery = 104.63% | | | | | | | | |
| Fe 273.955† | 5869.3 | 4.98199 | mg/L | 0.069150 | 4.98199 | mg/L | 0.069150 | 1.39% |
| QC value within limits for Fe 273.955 Recovery = 99.64% | | | | | | | | |
| K 766.490† | 93437.3 | 48.7368 | mg/L | 0.05844 | 48.7368 | mg/L | 0.05844 | 0.12% |
| QC value within limits for K 766.490 Recovery = 97.47% | | | | | | | | |
| Mg 279.077† | 32681.6 | 49.5138 | mg/L | 0.54660 | 49.5138 | mg/L | 0.54660 | 1.10% |
| QC value within limits for Mg 279.077 Recovery = 99.03% | | | | | | | | |
| Mn 257.610† | 14856.4 | 0.504620 | mg/L | 0.0049769 | 0.504620 | mg/L | 0.0049769 | 0.99% |
| QC value within limits for Mn 257.610 Recovery = 100.92% | | | | | | | | |
| Mo 202.031† | 713.5 | 0.499753 | mg/L | 0.0049201 | 0.499753 | mg/L | 0.0049201 | 0.98% |
| QC value within limits for Mo 202.031 Recovery = 99.95% | | | | | | | | |
| Na 589.592† | 482884.2 | 49.1929 | mg/L | 0.04128 | 49.1929 | mg/L | 0.04128 | 0.08% |
| QC value within limits for Na 589.592 Recovery = 98.39% | | | | | | | | |
| Ni 231.604† | 973.9 | 0.503056 | mg/L | 0.0086174 | 0.503056 | mg/L | 0.0086174 | 1.71% |
| QC value within limits for Ni 231.604 Recovery = 100.61% | | | | | | | | |
| Se 196.026† | 138.8 | 0.498282 | mg/L | 0.0088413 | 0.498282 | mg/L | 0.0088413 | 1.77% |
| QC value within limits for Se 196.026 Recovery = 99.66% | | | | | | | | |
| Sn 189.927† | 163.5 | 0.514993 | mg/L | 0.0139367 | 0.514993 | mg/L | 0.0139367 | 2.71% |
| QC value within limits for Sn 189.927 Recovery = 103.00% | | | | | | | | |
| Ti 334.940† | 22590.4 | 0.503358 | mg/L | 0.0049626 | 0.503358 | mg/L | 0.0049626 | 0.99% |
| QC value within limits for Ti 334.940 Recovery = 100.67% | | | | | | | | |
| V 290.880† | 4255.0 | 0.482856 | mg/L | 0.0044642 | 0.482856 | mg/L | 0.0044642 | 0.92% |
| QC value within limits for V 290.880 Recovery = 96.57% | | | | | | | | |
| Zn 206.200† | 1878.5 | 0.502544 | mg/L | 0.0077916 | 0.502544 | mg/L | 0.0077916 | 1.55% |
| QC value within limits for Zn 206.200 Recovery = 100.51% | | | | | | | | |
| Si 251.611† | 13533.1 | 4.90257 | mg/L | 0.053620 | 4.90257 | mg/L | 0.053620 | 1.09% |
| QC value within limits for Si 251.611 Recovery = 98.05% | | | | | | | | |
| B 249.772† | 3491.7 | 0.473311 | mg/L | 0.0041350 | 0.473311 | mg/L | 0.0041350 | 0.87% |
| QC value within limits for B 249.772 Recovery = 94.66% | | | | | | | | |
| Ce 413.764† | 2298.3 | 0.498402 | mg/L | 0.0046586 | 0.498402 | mg/L | 0.0046586 | 0.93% |
| QC value within limits for Ce 413.764 Recovery = 99.68% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 6
Sample ID: ICB V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 1
Date Collected: 9/29/2021 3:21:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 95480.7 | 102 | % | 0.70 | 102 | % | 0.70 | 0.68% |
| Y 371.029 | 37589.6 | 103 | % | 0.80 | 103 | % | 0.80 | 0.78% |
| Al 308.215↑ | 0.1 | 0.0168755 | mg/L | 0.01118549 | 0.0168755 | mg/L | 0.01118549 | 66.28% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527↑ | 0.1 | 0.0001563 | mg/L | 0.00079426 | 0.0001563 | mg/L | 0.00079426 | 508.19% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887↑ | -1.3 | -0.0615046 | mg/L | 0.00145535 | -0.0615046 | mg/L | 0.00145535 | 2.37% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393↑ | 58.8 | 0.0050692 | mg/L | 0.00669200 | 0.0050692 | mg/L | 0.00669200 | 132.01% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955↑ | 3.6 | -0.0096213 | mg/L | 0.00264348 | -0.0096213 | mg/L | 0.00264348 | 27.48% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490↑ | -139.4 | 0.184815 | mg/L | 0.0121368 | 0.184815 | mg/L | 0.0121368 | 6.57% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077↑ | -0.2 | -0.115345 | mg/L | 0.0157206 | -0.115345 | mg/L | 0.0157206 | 13.63% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610↑ | -1.7 | -0.0013219 | mg/L | 0.00029881 | -0.0013219 | mg/L | 0.00029881 | 22.60% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031↑ | -0.6 | 0.0028731 | mg/L | 0.00198586 | 0.0028731 | mg/L | 0.00198586 | 69.12% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592↑ | -1369.2 | -0.114840 | mg/L | 0.0029598 | -0.114840 | mg/L | 0.0029598 | 2.58% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604↑ | 0.9 | -0.0005293 | mg/L | 0.00205543 | -0.0005293 | mg/L | 0.00205543 | 388.34% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026↑ | 4.5 | 0.0111852 | mg/L | 0.01149889 | 0.0111852 | mg/L | 0.01149889 | 102.80% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927↑ | 0.1 | -0.0011464 | mg/L | 0.00937636 | -0.0011464 | mg/L | 0.00937636 | 817.87% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940↑ | 29.7 | 0.0002877 | mg/L | 0.00001370 | 0.0002877 | mg/L | 0.00001370 | 4.76% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880↑ | 4.0 | 0.0009418 | mg/L | 0.00060869 | 0.0009418 | mg/L | 0.00060869 | 64.63% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200↑ | 3.2 | 0.0001893 | mg/L | 0.00111773 | 0.0001893 | mg/L | 0.00111773 | 590.30% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611↑ | 0.6 | -0.0435532 | mg/L | 0.00475449 | -0.0435532 | mg/L | 0.00475449 | 10.92% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772↑ | 9.2 | -0.0008814 | mg/L | 0.00121689 | -0.0008814 | mg/L | 0.00121689 | 138.07% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764↑ | -32.2 | -0.0113405 | mg/L | 0.00927504 | -0.0113405 | mg/L | 0.00927504 | 81.79% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)

Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 7
Sample ID: LRS V-352964
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75

Autosampler Location: 10
Date Collected: 9/29/2021 3:24:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LRS V-352964

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92699.6 | 99.1 | % | 0.65 | 99.1 | % | 0.65 | 0.66% |
| Y 371.029 | 32615.3 | 89.2 | % | 0.76 | 89.2 | % | 0.76 | 0.85% |
| Al 308.215† | 446475.7 | 472.093 | mg/L | 1.1627 | 472.093 | mg/L | 1.1627 | 0.25% |
| QC value within limits for Al 308.215 Recovery = 94.42% | | | | | | | | |
| Ba 233.527† | 46324.4 | 9.57744 | mg/L | 0.026503 | 9.57744 | mg/L | 0.026503 | 0.28% |
| QC value within limits for Ba 233.527 Recovery = 95.77% | | | | | | | | |
| Ca 315.887† | 2381339.5 | 451.975 | mg/L | 2.1852 | 451.975 | mg/L | 2.1852 | 0.48% |
| QC value within limits for Ca 315.887 Recovery = 90.39% | | | | | | | | |
| Cu 327.393† | 47797.5 | 10.0416 | mg/L | 0.05860 | 10.0416 | mg/L | 0.05860 | 0.58% |
| QC value within limits for Cu 327.393 Recovery = 100.42% | | | | | | | | |
| Fe 273.955† | 403448.5 | 343.317 | mg/L | 0.9028 | 343.317 | mg/L | 0.9028 | 0.26% |
| QC value less than the lower limit for Fe 273.955 Recovery = 85.83% | | | | | | | | |
| K 766.490† | 392810.2 | 204.065 | mg/L | 0.8555 | 204.065 | mg/L | 0.8555 | 0.42% |
| QC value within limits for K 766.490 Recovery = 102.03% | | | | | | | | |
| Mg 279.077† | 302857.1 | 459.790 | mg/L | 1.3950 | 459.790 | mg/L | 1.3950 | 0.30% |
| QC value within limits for Mg 279.077 Recovery = 91.96% | | | | | | | | |
| Mn 257.610† | 259996.1 | 8.77511 | mg/L | 0.012551 | 8.77511 | mg/L | 0.012551 | 0.14% |
| QC value less than the lower limit for Mn 257.610 Recovery = 87.75% | | | | | | | | |
| Mo 202.031† | 12588.2 | 8.76273 | mg/L | 0.087835 | 8.76273 | mg/L | 0.087835 | 1.00% |
| QC value less than the lower limit for Mo 202.031 Recovery = 87.63% | | | | | | | | |
| Na 589.592† | 9166338.8 | 933.362 | mg/L | 11.1310 | 933.362 | mg/L | 11.1310 | 1.19% |
| QC value within limits for Na 589.592 Recovery = 93.34% | | | | | | | | |
| Ni 231.604† | 16979.5 | 8.82554 | mg/L | 0.020576 | 8.82554 | mg/L | 0.020576 | 0.23% |
| QC value less than the lower limit for Ni 231.604 Recovery = 88.26% | | | | | | | | |
| Se 196.026† | 1221.2 | 4.70625 | mg/L | 0.016597 | 4.70625 | mg/L | 0.016597 | 0.35% |
| QC value within limits for Se 196.026 Recovery = 94.13% | | | | | | | | |
| Sn 189.927† | 3102.2 | 9.67150 | mg/L | 0.109766 | 9.67150 | mg/L | 0.109766 | 1.13% |
| QC value within limits for Sn 189.927 Recovery = 96.71% | | | | | | | | |
| Ti 334.940† | 426584.6 | 9.43269 | mg/L | 0.046220 | 9.43269 | mg/L | 0.046220 | 0.49% |
| QC value within limits for Ti 334.940 Recovery = 94.33% | | | | | | | | |
| V 290.880† | 70798.6 | 8.17402 | mg/L | 0.020678 | 8.17402 | mg/L | 0.020678 | 0.25% |
| QC value less than the lower limit for V 290.880 Recovery = 81.74% | | | | | | | | |
| Zn 206.200† | 31750.0 | 8.50457 | mg/L | 0.023165 | 8.50457 | mg/L | 0.023165 | 0.27% |
| QC value less than the lower limit for Zn 206.200 Recovery = 85.05% | | | | | | | | |
| Si 251.611† | 66332.0 | 24.2006 | mg/L | 0.09075 | 24.2006 | mg/L | 0.09075 | 0.37% |
| QC value within limits for Si 251.611 Recovery = 96.80% | | | | | | | | |
| B 249.772† | 37760.6 | 3.97040 | mg/L | 0.003124 | 3.97040 | mg/L | 0.003124 | 0.08% |
| QC value less than the lower limit for B 249.772 Recovery = 79.41% | | | | | | | | |
| Ce 413.764† | 103061.2 | 22.5378 | mg/L | 0.09926 | 22.5378 | mg/L | 0.09926 | 0.44% |
| QC value within limits for Ce 413.764 Recovery = 90.15% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 8
Autosampler Location: 3
Sample ID: ICS3 V-352955
Date Collected: 9/29/2021 3:30:40 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: ICS3 V-352955

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94724.1 | 101 | % | 1.06 | 101 | % | 1.06 | 1.05% |
| Y 371.029 | 36169.8 | 99.0 | % | 0.57 | 99.0 | % | 0.57 | 0.57% |
| Al 308.215† | 4602.3 | 4.90924 | mg/L | 0.025298 | 4.90924 | mg/L | 0.025298 | 0.52% |
| QC value within limits for Al 308.215 Recovery = 98.18% | | | | | | | | |
| Ba 233.527† | 2335.5 | 0.489865 | mg/L | 0.0031582 | 0.489865 | mg/L | 0.0031582 | 0.64% |
| QC value within limits for Ba 233.527 Recovery = 97.97% | | | | | | | | |
| Ca 315.887† | 255814.9 | 48.4986 | mg/L | 0.10710 | 48.4986 | mg/L | 0.10710 | 0.22% |
| QC value within limits for Ca 315.887 Recovery = 97.00% | | | | | | | | |
| Cu 327.393† | 2464.6 | 0.522839 | mg/L | 0.0072484 | 0.522839 | mg/L | 0.0072484 | 1.39% |
| QC value within limits for Cu 327.393 Recovery = 104.57% | | | | | | | | |
| Fe 273.955† | 5760.0 | 4.88900 | mg/L | 0.015686 | 4.88900 | mg/L | 0.015686 | 0.32% |
| QC value within limits for Fe 273.955 Recovery = 97.78% | | | | | | | | |
| K 766.490† | 90437.2 | 47.1802 | mg/L | 0.04763 | 47.1802 | mg/L | 0.04763 | 0.10% |
| QC value within limits for K 766.490 Recovery = 94.36% | | | | | | | | |
| Mg 279.077† | 32106.2 | 48.6400 | mg/L | 0.24474 | 48.6400 | mg/L | 0.24474 | 0.50% |
| QC value within limits for Mg 279.077 Recovery = 97.28% | | | | | | | | |
| Mn 257.610† | 14306.0 | 0.486057 | mg/L | 0.0011233 | 0.486057 | mg/L | 0.0011233 | 0.23% |
| QC value within limits for Mn 257.610 Recovery = 97.21% | | | | | | | | |
| Mo 202.031† | 699.8 | 0.490270 | mg/L | 0.0070386 | 0.490270 | mg/L | 0.0070386 | 1.44% |
| QC value within limits for Mo 202.031 Recovery = 98.05% | | | | | | | | |
| Na 589.592† | 465316.4 | 47.4042 | mg/L | 0.03481 | 47.4042 | mg/L | 0.03481 | 0.07% |
| QC value within limits for Na 589.592 Recovery = 94.81% | | | | | | | | |
| Ni 231.604† | 947.0 | 0.489146 | mg/L | 0.0070597 | 0.489146 | mg/L | 0.0070597 | 1.44% |
| QC value within limits for Ni 231.604 Recovery = 97.83% | | | | | | | | |
| Se 196.026† | 134.2 | 0.481704 | mg/L | 0.0096676 | 0.481704 | mg/L | 0.0096676 | 2.01% |
| QC value within limits for Se 196.026 Recovery = 96.34% | | | | | | | | |
| Sn 189.927† | 158.5 | 0.499147 | mg/L | 0.0079190 | 0.499147 | mg/L | 0.0079190 | 1.59% |
| QC value within limits for Sn 189.927 Recovery = 99.83% | | | | | | | | |
| Ti 334.940† | 22039.3 | 0.491087 | mg/L | 0.0031378 | 0.491087 | mg/L | 0.0031378 | 0.64% |
| QC value within limits for Ti 334.940 Recovery = 98.22% | | | | | | | | |
| V 290.880† | 4144.1 | 0.470111 | mg/L | 0.0039334 | 0.470111 | mg/L | 0.0039334 | 0.84% |
| QC value within limits for V 290.880 Recovery = 94.02% | | | | | | | | |
| Zn 206.200† | 1836.6 | 0.491321 | mg/L | 0.0031589 | 0.491321 | mg/L | 0.0031589 | 0.64% |
| QC value within limits for Zn 206.200 Recovery = 98.26% | | | | | | | | |
| Si 251.611† | 13421.3 | 4.86172 | mg/L | 0.019003 | 4.86172 | mg/L | 0.019003 | 0.39% |
| QC value within limits for Si 251.611 Recovery = 97.23% | | | | | | | | |
| B 249.772† | 3433.4 | 0.465407 | mg/L | 0.0013792 | 0.465407 | mg/L | 0.0013792 | 0.30% |
| QC value within limits for B 249.772 Recovery = 93.08% | | | | | | | | |
| Ce 413.764† | 2092.1 | 0.453301 | mg/L | 0.0064443 | 0.453301 | mg/L | 0.0064443 | 1.42% |
| QC value within limits for Ce 413.764 Recovery = 90.66% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 9
Autosampler Location: 14
Sample ID: RINSE
Date Collected: 9/29/2021 3:34:47 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: RINSE

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94729.8 | 101 | % | 1.25 | 101 | % | 1.25 | 1.23% |
| Y 371.029 | 37893.2 | 104 | % | 1.40 | 104 | % | 1.40 | 1.35% |
| Al 308.215† | 14.8 | 0.0324109 | mg/L | 0.01438490 | 0.0324109 | mg/L | 0.01438490 | 44.38% |
| Ba 233.527† | 5.8 | 0.0013487 | mg/L | 0.00064806 | 0.0013487 | mg/L | 0.00064806 | 48.05% |
| Ca 315.887† | -23.4 | -0.0656924 | mg/L | 0.00447048 | -0.0656924 | mg/L | 0.00447048 | 6.81% |
| Cu 327.393† | 26.3 | -0.0016096 | mg/L | 0.00329878 | -0.0016096 | mg/L | 0.00329878 | 204.95% |
| Fe 273.955† | 4.4 | -0.0089108 | mg/L | 0.00929033 | -0.0089108 | mg/L | 0.00929033 | 104.26% |
| K 766.490† | -36.2 | 0.238386 | mg/L | 0.0079272 | 0.238386 | mg/L | 0.0079272 | 3.33% |
| Mg 279.077† | 0.4 | -0.114339 | mg/L | 0.0065122 | -0.114339 | mg/L | 0.0065122 | 5.70% |
| Mn 257.610† | 1.9 | -0.0012013 | mg/L | 0.00018254 | -0.0012013 | mg/L | 0.00018254 | 15.19% |
| Mo 202.031† | -1.1 | 0.0025635 | mg/L | 0.00182678 | 0.0025635 | mg/L | 0.00182678 | 71.26% |
| Na 589.592† | -509.2 | -0.0272747 | mg/L | 0.01523978 | -0.0272747 | mg/L | 0.01523978 | 55.88% |
| Ni 231.604† | -0.7 | -0.0013385 | mg/L | 0.00305467 | -0.0013385 | mg/L | 0.00305467 | 228.22% |
| Se 196.026† | 4.6 | 0.0116676 | mg/L | 0.00232418 | 0.0116676 | mg/L | 0.00232418 | 19.92% |
| Sn 189.927† | -0.2 | -0.0021492 | mg/L | 0.01677228 | -0.0021492 | mg/L | 0.01677228 | 780.38% |
| Ti 334.940† | 3.5 | -0.0002884 | mg/L | 0.00068854 | -0.0002884 | mg/L | 0.00068854 | 238.71% |
| V 290.880† | 1.6 | 0.0006630 | mg/L | 0.00151576 | 0.0006630 | mg/L | 0.00151576 | 228.61% |
| Zn 206.200† | -0.3 | -0.0007555 | mg/L | 0.00056579 | -0.0007555 | mg/L | 0.00056579 | 74.89% |
| Si 251.611† | 4.2 | -0.0422395 | mg/L | 0.00272275 | -0.0422395 | mg/L | 0.00272275 | 6.45% |
| B 249.772† | 24.4 | 0.0012758 | mg/L | 0.00061621 | 0.0012758 | mg/L | 0.00061621 | 48.30% |
| Ce 413.764† | -70.9 | -0.0198120 | mg/L | 0.00171100 | -0.0198120 | mg/L | 0.00171100 | 8.64% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 10
Autosampler Location: 5
Sample ID: LLICV V-352961
Date Collected: 9/29/2021 3:38:39 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LLICV V-352961

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 96508.2 | 103 | % | 0.59 | 103 | % | 0.59 | 0.57% |
| Y 371.029 | 37886.6 | 104 | % | 0.67 | 104 | % | 0.67 | 0.65% |
| Al 308.215† | 190.9 | 0.220226 | mg/L | 0.0120000 | 0.220226 | mg/L | 0.0120000 | 5.45% |
| QC value within limits for Al 308.215 Recovery = 110.11% | | | | | | | | |
| Ba 233.527† | 251.1 | 0.0528993 | mg/L | 0.00059466 | 0.0528993 | mg/L | 0.00059466 | 1.12% |
| QC value within limits for Ba 233.527 Recovery = 105.80% | | | | | | | | |
| Ca 315.887† | 26177.6 | 4.90790 | mg/L | 0.017467 | 4.90790 | mg/L | 0.017467 | 0.36% |
| QC value within limits for Ca 315.887 Recovery = 98.16% | | | | | | | | |
| Cu 327.393† | 306.6 | 0.0583877 | mg/L | 0.00420444 | 0.0583877 | mg/L | 0.00420444 | 7.20% |
| QC value within limits for Cu 327.393 Recovery = 116.78% | | | | | | | | |
| Fe 273.955† | 359.7 | 0.293416 | mg/L | 0.0034882 | 0.293416 | mg/L | 0.0034882 | 1.19% |
| QC value within limits for Fe 273.955 Recovery = 97.81% | | | | | | | | |
| K 766.490† | 8935.1 | 4.89312 | mg/L | 0.019169 | 4.89312 | mg/L | 0.019169 | 0.39% |
| QC value within limits for K 766.490 Recovery = 97.86% | | | | | | | | |
| Mg 279.077† | 3389.0 | 5.03136 | mg/L | 0.031802 | 5.03136 | mg/L | 0.031802 | 0.63% |
| QC value within limits for Mg 279.077 Recovery = 100.63% | | | | | | | | |
| Mn 257.610† | 1165.5 | 0.0386571 | mg/L | 0.00033603 | 0.0386571 | mg/L | 0.00033603 | 0.87% |
| QC value within limits for Mn 257.610 Recovery = 96.64% | | | | | | | | |
| Mo 202.031† | 28.4 | 0.0230664 | mg/L | 0.00204753 | 0.0230664 | mg/L | 0.00204753 | 8.88% |
| QC value within limits for Mo 202.031 Recovery = 115.33% | | | | | | | | |
| Na 589.592† | 46492.6 | 4.75856 | mg/L | 0.019244 | 4.75856 | mg/L | 0.019244 | 0.40% |
| QC value within limits for Na 589.592 Recovery = 95.17% | | | | | | | | |
| Ni 231.604† | 104.3 | 0.0529806 | mg/L | 0.00707748 | 0.0529806 | mg/L | 0.00707748 | 13.36% |
| QC value within limits for Ni 231.604 Recovery = 105.96% | | | | | | | | |
| Se 196.026† | 11.0 | 0.0347328 | mg/L | 0.00935482 | 0.0347328 | mg/L | 0.00935482 | 26.93% |
| QC value less than the lower limit for Se 196.026 Recovery = 69.47% | | | | | | | | |
| Sn 189.927† | 17.4 | 0.0534297 | mg/L | 0.00869106 | 0.0534297 | mg/L | 0.00869106 | 16.27% |
| QC value within limits for Sn 189.927 Recovery = 106.86% | | | | | | | | |
| Ti 334.940† | 2300.5 | 0.0509178 | mg/L | 0.00036915 | 0.0509178 | mg/L | 0.00036915 | 0.72% |
| QC value within limits for Ti 334.940 Recovery = 101.84% | | | | | | | | |
| V 290.880† | 388.4 | 0.0442553 | mg/L | 0.00127862 | 0.0442553 | mg/L | 0.00127862 | 2.89% |
| QC value within limits for V 290.880 Recovery = 88.51% | | | | | | | | |
| Zn 206.200† | 193.3 | 0.0511050 | mg/L | 0.00263227 | 0.0511050 | mg/L | 0.00263227 | 5.15% |
| QC value within limits for Zn 206.200 Recovery = 102.21% | | | | | | | | |
| Si 251.611† | 822.5 | 0.256834 | mg/L | 0.0025086 | 0.256834 | mg/L | 0.0025086 | 0.98% |
| QC value greater than the upper limit for Si 251.611 Recovery = 128.42% | | | | | | | | |
| B 249.772† | 1411.4 | 0.196948 | mg/L | 0.0007361 | 0.196948 | mg/L | 0.0007361 | 0.37% |
| QC value within limits for B 249.772 Recovery = 98.47% | | | | | | | | |
| Ce 413.764† | 887.9 | 0.189913 | mg/L | 0.0053600 | 0.189913 | mg/L | 0.0053600 | 2.82% |
| QC value within limits for Ce 413.764 Recovery = 94.96% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 11 Autosampler Location: 7
Sample ID: ICSA V-352957 Date Collected: 9/29/2021 3:42:33 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICSA V-352957

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91051.3 | 97.3 | % | 1.08 | 97.3 | % | 1.08 | 1.11% |
| Y 371.029 | 34580.2 | 94.6 | % | 1.14 | 94.6 | % | 1.14 | 1.21% |
| Al 308.215† | 467016.0 | 493.474 | mg/L | 5.0808 | 493.474 | mg/L | 5.0808 | 1.03% |
| QC value within limits for Al 308.215 Recovery = 98.69% | | | | | | | | |
| Ba 233.527† | 1216.1 | 0.157771 | mg/L | 0.0040806 | 0.157771 | mg/L | 0.0040806 | 2.59% |
| Ca 315.887† | 2467060.1 | 468.247 | mg/L | 4.4208 | 468.247 | mg/L | 4.4208 | 0.94% |
| QC value within limits for Ca 315.887 Recovery = 93.65% | | | | | | | | |
| Cu 327.393† | -851.8 | 0.0352067 | mg/L | 0.00113873 | 0.0352067 | mg/L | 0.00113873 | 3.23% |
| Fe 273.955† | 209085.6 | 177.917 | mg/L | 0.6472 | 177.917 | mg/L | 0.6472 | 0.36% |
| QC value within limits for Fe 273.955 Recovery = 88.96% | | | | | | | | |
| K 766.490† | 142.5 | 0.331082 | mg/L | 0.0275555 | 0.331082 | mg/L | 0.0275555 | 8.32% |
| Mg 279.077† | 306836.4 | 465.833 | mg/L | 1.5386 | 465.833 | mg/L | 1.5386 | 0.33% |
| QC value within limits for Mg 279.077 Recovery = 93.17% | | | | | | | | |
| Mn 257.610† | -9.8 | 0.0860658 | mg/L | 0.00032884 | 0.0860658 | mg/L | 0.00032884 | 0.38% |
| Mo 202.031† | -32.5 | -0.0193326 | mg/L | 0.00154166 | -0.0193326 | mg/L | 0.00154166 | 7.97% |
| Na 589.592† | 1283.5 | 0.155263 | mg/L | 0.0360846 | 0.155263 | mg/L | 0.0360846 | 23.24% |
| Ni 231.604† | 82.8 | 0.0352730 | mg/L | 0.00006848 | 0.0352730 | mg/L | 0.00006848 | 0.19% |
| Se 196.026† | -30.5 | 0.0536517 | mg/L | 0.01699204 | 0.0536517 | mg/L | 0.01699204 | 31.67% |
| Sn 189.927† | -115.9 | -0.236422 | mg/L | 0.0192608 | -0.236422 | mg/L | 0.0192608 | 8.15% |
| Ti 334.940† | -3692.9 | -0.0052701 | mg/L | 0.00086133 | -0.0052701 | mg/L | 0.00086133 | 16.34% |
| V 290.880† | 3479.5 | 0.223690 | mg/L | 0.0078079 | 0.223690 | mg/L | 0.0078079 | 3.49% |
| Zn 206.200† | 110.6 | 0.0289427 | mg/L | 0.00024687 | 0.0289427 | mg/L | 0.00024687 | 0.85% |
| Si 251.611† | -16.2 | -0.0497068 | mg/L | 0.00698785 | -0.0497068 | mg/L | 0.00698785 | 14.06% |
| B 249.772† | 3322.4 | -0.249718 | mg/L | 0.0089197 | -0.249718 | mg/L | 0.0089197 | 3.57% |
| Ce 413.764† | -493.6 | -0.112272 | mg/L | 0.0000242 | -0.112272 | mg/L | 0.0000242 | 0.02% |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 12 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/29/2021 3:47:55 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92827.3 | 99.2 | % | 0.34 | 99.2 | % | 0.34 | 0.34% |
| Y 371.029 | 36673.9 | 100 | % | 0.44 | 100 | % | 0.44 | 0.44% |
| Al 308.215† | 4637.7 | 4.94810 | mg/L | 0.057674 | 4.94810 | mg/L | 0.057674 | 1.17% |
| QC value within limits for Al 308.215 Recovery = 98.96% | | | | | | | | |
| Ba 233.527† | 2429.5 | 0.509721 | mg/L | 0.0040290 | 0.509721 | mg/L | 0.0040290 | 0.79% |
| QC value within limits for Ba 233.527 Recovery = 101.94% | | | | | | | | |
| Ca 315.887† | 261075.4 | 49.4972 | mg/L | 0.46822 | 49.4972 | mg/L | 0.46822 | 0.95% |
| QC value within limits for Ca 315.887 Recovery = 98.99% | | | | | | | | |
| Cu 327.393† | 2545.7 | 0.540007 | mg/L | 0.0102899 | 0.540007 | mg/L | 0.0102899 | 1.91% |
| QC value within limits for Cu 327.393 Recovery = 108.00% | | | | | | | | |
| Fe 273.955† | 5724.8 | 4.85902 | mg/L | 0.049588 | 4.85902 | mg/L | 0.049588 | 1.02% |
| QC value within limits for Fe 273.955 Recovery = 97.18% | | | | | | | | |
| K 766.490† | 92368.9 | 48.1824 | mg/L | 0.42366 | 48.1824 | mg/L | 0.42366 | 0.88% |
| QC value within limits for K 766.490 Recovery = 96.36% | | | | | | | | |
| Mg 279.077† | 32816.8 | 49.7192 | mg/L | 0.03904 | 49.7192 | mg/L | 0.03904 | 0.08% |
| QC value within limits for Mg 279.077 Recovery = 99.44% | | | | | | | | |
| Mn 257.610† | 14531.8 | 0.493809 | mg/L | 0.0018500 | 0.493809 | mg/L | 0.0018500 | 0.37% |
| QC value within limits for Mn 257.610 Recovery = 98.76% | | | | | | | | |
| Mo 202.031† | 700.1 | 0.490429 | mg/L | 0.0060437 | 0.490429 | mg/L | 0.0060437 | 1.23% |
| QC value within limits for Mo 202.031 Recovery = 98.09% | | | | | | | | |
| Na 589.592† | 472085.8 | 48.0934 | mg/L | 0.39741 | 48.0934 | mg/L | 0.39741 | 0.83% |
| QC value within limits for Na 589.592 Recovery = 96.19% | | | | | | | | |
| Ni 231.604† | 965.3 | 0.498576 | mg/L | 0.0097612 | 0.498576 | mg/L | 0.0097612 | 1.96% |
| QC value within limits for Ni 231.604 Recovery = 99.72% | | | | | | | | |
| Se 196.026† | 136.1 | 0.488520 | mg/L | 0.0406190 | 0.488520 | mg/L | 0.0406190 | 8.31% |
| QC value within limits for Se 196.026 Recovery = 97.70% | | | | | | | | |
| Sn 189.927† | 154.6 | 0.487581 | mg/L | 0.0119593 | 0.487581 | mg/L | 0.0119593 | 2.45% |
| QC value within limits for Sn 189.927 Recovery = 97.52% | | | | | | | | |
| Ti 334.940† | 22690.1 | 0.505529 | mg/L | 0.0009636 | 0.505529 | mg/L | 0.0009636 | 0.19% |
| QC value within limits for Ti 334.940 Recovery = 101.11% | | | | | | | | |
| V 290.880† | 4295.7 | 0.487570 | mg/L | 0.0033597 | 0.487570 | mg/L | 0.0033597 | 0.69% |
| QC value within limits for V 290.880 Recovery = 97.51% | | | | | | | | |
| Zn 206.200† | 1858.8 | 0.497257 | mg/L | 0.0075008 | 0.497257 | mg/L | 0.0075008 | 1.51% |
| QC value within limits for Zn 206.200 Recovery = 99.45% | | | | | | | | |
| Si 251.611† | 13622.4 | 4.93521 | mg/L | 0.012455 | 4.93521 | mg/L | 0.012455 | 0.25% |
| QC value within limits for Si 251.611 Recovery = 98.70% | | | | | | | | |
| B 249.772† | 3511.8 | 0.476654 | mg/L | 0.0034410 | 0.476654 | mg/L | 0.0034410 | 0.72% |
| QC value within limits for B 249.772 Recovery = 95.33% | | | | | | | | |
| Ce 413.764† | 2139.1 | 0.463564 | mg/L | 0.0127678 | 0.463564 | mg/L | 0.0127678 | 2.75% |
| QC value within limits for Ce 413.764 Recovery = 92.71% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 13
Autosampler Location: 2
Sample ID: CCB V-352951
Date Collected: 9/29/2021 3:52:03 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93998.2 | 100 | % | 0.62 | 100 | % | 0.62 | 0.62% |
| Y 371.029 | 37710.7 | 103 | % | 0.61 | 103 | % | 0.61 | 0.59% |
| Al 308.215† | 5.7 | 0.0227241 | mg/L | 0.00400482 | 0.0227241 | mg/L | 0.00400482 | 17.62% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 3.9 | 0.0009578 | mg/L | 0.00048890 | 0.0009578 | mg/L | 0.00048890 | 51.05% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -6.8 | -0.0625535 | mg/L | 0.00565759 | -0.0625535 | mg/L | 0.00565759 | 9.04% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 27.6 | -0.0013463 | mg/L | 0.00416757 | -0.0013463 | mg/L | 0.00416757 | 309.55% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -2.5 | -0.0148554 | mg/L | 0.00190519 | -0.0148554 | mg/L | 0.00190519 | 12.82% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -145.3 | 0.181755 | mg/L | 0.0140165 | 0.181755 | mg/L | 0.0140165 | 7.71% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 8.0 | -0.102946 | mg/L | 0.0131462 | -0.102946 | mg/L | 0.0131462 | 12.77% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -2.1 | -0.0013305 | mg/L | 0.00028637 | -0.0013305 | mg/L | 0.00028637 | 21.52% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -0.1 | 0.0032275 | mg/L | 0.00169952 | 0.0032275 | mg/L | 0.00169952 | 52.66% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -1220.7 | -0.0997180 | mg/L | 0.00570719 | -0.0997180 | mg/L | 0.00570719 | 5.72% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -0.4 | -0.0012060 | mg/L | 0.00183066 | -0.0012060 | mg/L | 0.00183066 | 151.79% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 1.2 | -0.0007341 | mg/L | 0.00377771 | -0.0007341 | mg/L | 0.00377771 | 514.58% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -0.8 | -0.0040178 | mg/L | 0.00786092 | -0.0040178 | mg/L | 0.00786092 | 195.65% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -1.7 | -0.0004013 | mg/L | 0.00041499 | -0.0004013 | mg/L | 0.00041499 | 103.41% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 1.5 | 0.0006505 | mg/L | 0.00244642 | 0.0006505 | mg/L | 0.00244642 | 376.07% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 1.1 | -0.0003860 | mg/L | 0.00100740 | -0.0003860 | mg/L | 0.00100740 | 260.99% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 4.7 | -0.0420439 | mg/L | 0.00234699 | -0.0420439 | mg/L | 0.00234699 | 5.58% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 11.6 | -0.0005171 | mg/L | 0.00155151 | -0.0005171 | mg/L | 0.00155151 | 300.06% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -39.3 | -0.0129095 | mg/L | 0.00556424 | -0.0129095 | mg/L | 0.00556424 | 43.10% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 14
Autosampler Location: 83
Sample ID: MB 94429 (1)
Date Collected: 9/29/2021 3:55:54 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: MB 94429 (1)

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94215.3 | 101 | % | 0.44 | 101 | % | 0.44 | 0.44% |
| Y 371.029 | 37808.7 | 103 | % | 0.54 | 103 | % | 0.54 | 0.52% |
| Al 308.215† | 8.2 | 0.0254749 | mg/L | 0.01991792 | 0.0254749 | mg/L | 0.01991792 | 78.19% |
| Ba 233.527† | 5.1 | 0.0012064 | mg/L | 0.00130621 | 0.0012064 | mg/L | 0.00130621 | 108.27% |
| Ca 315.887† | 112.6 | -0.0398895 | mg/L | 0.00102696 | -0.0398895 | mg/L | 0.00102696 | 2.57% |
| Cu 327.393† | 38.4 | 0.0008810 | mg/L | 0.00267137 | 0.0008810 | mg/L | 0.00267137 | 303.24% |
| Fe 273.955† | 21.8 | 0.0058392 | mg/L | 0.00173320 | 0.0058392 | mg/L | 0.00173320 | 29.68% |
| K 766.490† | -292.1 | 0.105630 | mg/L | 0.0156073 | 0.105630 | mg/L | 0.0156073 | 14.78% |
| Mg 279.077† | -0.8 | -0.116297 | mg/L | 0.0105062 | -0.116297 | mg/L | 0.0105062 | 9.03% |
| Mn 257.610† | 18.9 | -0.0006340 | mg/L | 0.00011635 | -0.0006340 | mg/L | 0.00011635 | 18.35% |
| Mo 202.031† | -5.0 | -0.0001690 | mg/L | 0.00369756 | -0.0001690 | mg/L | 0.00369756 | >999.9% |
| Na 589.592† | -1944.1 | -0.173373 | mg/L | 0.0066710 | -0.173373 | mg/L | 0.0066710 | 3.85% |
| Ni 231.604† | -2.3 | -0.0021745 | mg/L | 0.00517307 | -0.0021745 | mg/L | 0.00517307 | 237.89% |
| Se 196.026† | -1.4 | -0.0100188 | mg/L | 0.01118502 | -0.0100188 | mg/L | 0.01118502 | 111.64% |
| Sn 189.927† | 0.3 | -0.0005531 | mg/L | 0.00462013 | -0.0005531 | mg/L | 0.00462013 | 835.35% |
| Ti 334.940† | 14.6 | -0.0000401 | mg/L | 0.00090763 | -0.0000401 | mg/L | 0.00090763 | >999.9% |
| V 290.880† | 2.6 | 0.0007856 | mg/L | 0.00127510 | 0.0007856 | mg/L | 0.00127510 | 162.31% |
| Zn 206.200† | 15.2 | 0.0034046 | mg/L | 0.00192577 | 0.0034046 | mg/L | 0.00192577 | 56.56% |
| Si 251.611† | 44.3 | -0.0275891 | mg/L | 0.00099349 | -0.0275891 | mg/L | 0.00099349 | 3.60% |
| B 249.772† | 9.9 | -0.0008356 | mg/L | 0.00084926 | -0.0008356 | mg/L | 0.00084926 | 101.64% |
| Ce 413.764† | -28.5 | -0.0105292 | mg/L | 0.00646925 | -0.0105292 | mg/L | 0.00646925 | 61.44% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 15
Autosampler Location: 84
Sample ID: LCS 94429
Date Collected: 9/29/2021 3:59:46 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LCS 94429

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94067.4 | 101 | % | 0.70 | 101 | % | 0.70 | 0.70% |
| Y 371.029 | 36377.7 | 99.5 | % | 0.69 | 99.5 | % | 0.69 | 0.70% |
| Al 308.215† | 4704.2 | 5.01756 | mg/L | 0.049279 | 5.01756 | mg/L | 0.049279 | 0.98% |
| Ba 233.527† | 2376.3 | 0.498440 | mg/L | 0.0040138 | 0.498440 | mg/L | 0.0040138 | 0.81% |
| Ca 315.887† | 258031.3 | 48.9194 | mg/L | 0.04641 | 48.9194 | mg/L | 0.04641 | 0.09% |
| Cu 327.393† | 2549.8 | 0.540588 | mg/L | 0.0017783 | 0.540588 | mg/L | 0.0017783 | 0.33% |
| Fe 273.955† | 5848.5 | 4.96433 | mg/L | 0.042557 | 4.96433 | mg/L | 0.042557 | 0.86% |
| K 766.490† | 91262.5 | 47.6084 | mg/L | 0.02997 | 47.6084 | mg/L | 0.02997 | 0.06% |
| Mg 279.077† | 32517.7 | 49.2649 | mg/L | 0.44994 | 49.2649 | mg/L | 0.44994 | 0.91% |
| Mn 257.610† | 14409.3 | 0.489628 | mg/L | 0.0046319 | 0.489628 | mg/L | 0.0046319 | 0.95% |
| Mo 202.031† | 711.5 | 0.498384 | mg/L | 0.0044738 | 0.498384 | mg/L | 0.0044738 | 0.90% |
| Na 589.592† | 467058.2 | 47.5815 | mg/L | 0.06244 | 47.5815 | mg/L | 0.06244 | 0.13% |
| Ni 231.604† | 971.2 | 0.501636 | mg/L | 0.0035026 | 0.501636 | mg/L | 0.0035026 | 0.70% |
| Se 196.026† | 130.4 | 0.468004 | mg/L | 0.0255058 | 0.468004 | mg/L | 0.0255058 | 5.45% |
| Sn 189.927† | 149.2 | 0.470763 | mg/L | 0.0107182 | 0.470763 | mg/L | 0.0107182 | 2.28% |
| Ti 334.940† | 22552.9 | 0.502425 | mg/L | 0.0054941 | 0.502425 | mg/L | 0.0054941 | 1.09% |
| V 290.880† | 4257.3 | 0.483227 | mg/L | 0.0042890 | 0.483227 | mg/L | 0.0042890 | 0.89% |
| Zn 206.200† | 1854.0 | 0.495991 | mg/L | 0.0032409 | 0.495991 | mg/L | 0.0032409 | 0.65% |
| Si 251.611† | 1456.1 | 0.488435 | mg/L | 0.0051738 | 0.488435 | mg/L | 0.0051738 | 1.06% |
| B 249.772† | 3501.9 | 0.474825 | mg/L | 0.0080783 | 0.474825 | mg/L | 0.0080783 | 1.70% |
| Ce 413.764† | 2245.5 | 0.486848 | mg/L | 0.0022276 | 0.486848 | mg/L | 0.0022276 | 0.46% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 16
Autosampler Location: 85
Sample ID: LCS MR 94429
Date Collected: 9/29/2021 4:03:55 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: LCS MR 94429

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94657.5 | 101 | % | 0.65 | 101 | % | 0.65 | 0.64% |
| Y 371.029 | 36343.3 | 99.4 | % | 0.55 | 99.4 | % | 0.55 | 0.56% |
| Al 308.215† | 4661.4 | 4.97186 | mg/L | 0.075992 | 4.97186 | mg/L | 0.075992 | 1.53% |
| Ba 233.527† | 2344.2 | 0.491699 | mg/L | 0.0039550 | 0.491699 | mg/L | 0.0039550 | 0.80% |
| Ca 315.887† | 256403.2 | 48.6103 | mg/L | 0.04528 | 48.6103 | mg/L | 0.04528 | 0.09% |
| Cu 327.393† | 2528.0 | 0.535944 | mg/L | 0.0130279 | 0.535944 | mg/L | 0.0130279 | 2.43% |
| Fe 273.955† | 5775.3 | 4.90200 | mg/L | 0.049732 | 4.90200 | mg/L | 0.049732 | 1.01% |
| K 766.490† | 90416.9 | 47.1697 | mg/L | 0.06145 | 47.1697 | mg/L | 0.06145 | 0.13% |
| Mg 279.077† | 31979.6 | 48.4477 | mg/L | 0.46820 | 48.4477 | mg/L | 0.46820 | 0.97% |
| Mn 257.610† | 14157.3 | 0.481052 | mg/L | 0.0052419 | 0.481052 | mg/L | 0.0052419 | 1.09% |
| Mo 202.031† | 699.2 | 0.489800 | mg/L | 0.0052255 | 0.489800 | mg/L | 0.0052255 | 1.07% |
| Na 589.592† | 462744.3 | 47.1423 | mg/L | 0.08661 | 47.1423 | mg/L | 0.08661 | 0.18% |
| Ni 231.604† | 950.8 | 0.491110 | mg/L | 0.0009938 | 0.491110 | mg/L | 0.0009938 | 0.20% |
| Se 196.026† | 133.2 | 0.478239 | mg/L | 0.0126190 | 0.478239 | mg/L | 0.0126190 | 2.64% |
| Sn 189.927† | 149.4 | 0.471173 | mg/L | 0.0088726 | 0.471173 | mg/L | 0.0088726 | 1.88% |
| Ti 334.940† | 22211.8 | 0.494891 | mg/L | 0.0058306 | 0.494891 | mg/L | 0.0058306 | 1.18% |
| V 290.880† | 4192.5 | 0.475901 | mg/L | 0.0070364 | 0.475901 | mg/L | 0.0070364 | 1.48% |
| Zn 206.200† | 1833.5 | 0.490476 | mg/L | 0.0040583 | 0.490476 | mg/L | 0.0040583 | 0.83% |
| Si 251.611† | 1438.4 | 0.481949 | mg/L | 0.0091580 | 0.481949 | mg/L | 0.0091580 | 1.90% |
| B 249.772† | 3457.2 | 0.468724 | mg/L | 0.0048418 | 0.468724 | mg/L | 0.0048418 | 1.03% |
| Ce 413.764† | 2253.0 | 0.488481 | mg/L | 0.0056481 | 0.488481 | mg/L | 0.0056481 | 1.16% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 17 Autosampler Location: 86
Sample ID: AD26083-041 Date Collected: 9/29/2021 4:08:03 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-041

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90476.5 | 96.7 | % | 0.94 | 96.7 | % | 0.94 | 0.97% |
| Y 371.029 | 35231.6 | 96.4 | % | 0.90 | 96.4 | % | 0.90 | 0.94% |
| Al 308.215† | 24.9 | 0.0559442 | mg/L | 0.00651355 | 0.0559442 | mg/L | 0.00651355 | 11.64% |
| Ba 233.527† | 8359.1 | 1.75803 | mg/L | 0.008123 | 1.75803 | mg/L | 0.008123 | 0.46% |
| Ca 315.887† | 386292.3 | 73.2664 | mg/L | 0.26256 | 73.2664 | mg/L | 0.26256 | 0.36% |
| Cu 327.393† | -102.4 | 0.0059602 | mg/L | 0.00402596 | 0.0059602 | mg/L | 0.00402596 | 67.55% |
| Fe 273.955† | 9932.9 | 8.44010 | mg/L | 0.061015 | 8.44010 | mg/L | 0.061015 | 0.72% |
| K 766.490† | 166058.7 | 86.4162 | mg/L | 0.03321 | 86.4162 | mg/L | 0.03321 | 0.04% |
| Mg 279.077† | 74316.4 | 112.739 | mg/L | 0.3364 | 112.739 | mg/L | 0.3364 | 0.30% |
| Mn 257.610† | 12055.9 | 0.422913 | mg/L | 0.0018138 | 0.422913 | mg/L | 0.0018138 | 0.43% |
| Mo 202.031† | -4.6 | 0.0000911 | mg/L | 0.00310405 | 0.0000911 | mg/L | 0.00310405 | >999.9% |
| Na 589.592† | 9628872.2 | 980.458 | mg/L | 12.4325 | 980.458 | mg/L | 12.4325 | 1.27% |
| Ni 231.604† | 22.1 | 0.0135886 | mg/L | 0.00827429 | 0.0135886 | mg/L | 0.00827429 | 60.89% |
| Se 196.026† | -0.7 | 0.0005019 | mg/L | 0.01217237 | 0.0005019 | mg/L | 0.01217237 | >999.9% |
| Sn 189.927† | -33.8 | -0.0804807 | mg/L | 0.01087115 | -0.0804807 | mg/L | 0.01087115 | 13.51% |
| Ti 334.940† | -468.2 | 0.0012813 | mg/L | 0.00055190 | 0.0012813 | mg/L | 0.00055190 | 43.07% |
| V 290.880† | 1184.7 | 0.0949067 | mg/L | 0.00104604 | 0.0949067 | mg/L | 0.00104604 | 1.10% |
| Zn 206.200† | 15.7 | 0.0035360 | mg/L | 0.00123056 | 0.0035360 | mg/L | 0.00123056 | 34.80% |
| Si 251.611† | 18609.5 | 6.75802 | mg/L | 0.018073 | 6.75802 | mg/L | 0.018073 | 0.27% |
| B 249.772† | 10069.5 | 1.39308 | mg/L | 0.003398 | 1.39308 | mg/L | 0.003398 | 0.24% |
| Ce 413.764† | -54.1 | -0.0161435 | mg/L | 0.00772756 | -0.0161435 | mg/L | 0.00772756 | 47.87% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 18 Autosampler Location: 87
Sample ID: AD26083-041 MR Date Collected: 9/29/2021 4:12:19 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-041 MR

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90102.1 | 96.3 | % | 0.76 | 96.3 | % | 0.76 | 0.78% |
| Y 371.029 | 35095.8 | 96.0 | % | 0.94 | 96.0 | % | 0.94 | 0.98% |
| Al 308.215† | 26.7 | 0.0588729 | mg/L | 0.00901641 | 0.0588729 | mg/L | 0.00901641 | 15.32% |
| Ba 233.527† | 8789.2 | 1.84849 | mg/L | 0.004259 | 1.84849 | mg/L | 0.004259 | 0.23% |
| Ca 315.887† | 405078.5 | 76.8325 | mg/L | 0.19403 | 76.8325 | mg/L | 0.19403 | 0.25% |
| Cu 327.393† | -90.3 | 0.0101132 | mg/L | 0.00502082 | 0.0101132 | mg/L | 0.00502082 | 49.65% |
| Fe 273.955† | 10438.8 | 8.87060 | mg/L | 0.024875 | 8.87060 | mg/L | 0.024875 | 0.28% |
| K 766.490† | 175835.8 | 91.4890 | mg/L | 0.20181 | 91.4890 | mg/L | 0.20181 | 0.22% |
| Mg 279.077† | 78202.1 | 118.639 | mg/L | 0.3266 | 118.639 | mg/L | 0.3266 | 0.28% |
| Mn 257.610† | 12646.5 | 0.443760 | mg/L | 0.0008393 | 0.443760 | mg/L | 0.0008393 | 0.19% |
| Mo 202.031† | -5.7 | -0.0006817 | mg/L | 0.00167044 | -0.0006817 | mg/L | 0.00167044 | 245.03% |
| Na 589.592† | 10056972.2 | 1024.05 | mg/L | 8.218 | 1024.05 | mg/L | 8.218 | 0.80% |
| Ni 231.604† | 21.3 | 0.0133682 | mg/L | 0.00066799 | 0.0133682 | mg/L | 0.00066799 | 5.00% |
| Se 196.026† | 0.8 | 0.0062486 | mg/L | 0.01624420 | 0.0062486 | mg/L | 0.01624420 | 259.97% |
| Sn 189.927† | -39.8 | -0.0973719 | mg/L | 0.02657695 | -0.0973719 | mg/L | 0.02657695 | 27.29% |
| Ti 334.940† | -504.7 | 0.0010604 | mg/L | 0.00070689 | 0.0010604 | mg/L | 0.00070689 | 66.66% |
| V 290.880† | 1284.3 | 0.104292 | mg/L | 0.0123294 | 0.104292 | mg/L | 0.0123294 | 11.82% |
| Zn 206.200† | 19.4 | 0.0045138 | mg/L | 0.00043784 | 0.0045138 | mg/L | 0.00043784 | 9.70% |
| Si 251.611† | 19657.0 | 7.14089 | mg/L | 0.025091 | 7.14089 | mg/L | 0.025091 | 0.35% |
| B 249.772† | 10627.8 | 1.47059 | mg/L | 0.000695 | 1.47059 | mg/L | 0.000695 | 0.05% |
| Ce 413.764† | -24.9 | -0.0097501 | mg/L | 0.00480564 | -0.0097501 | mg/L | 0.00480564 | 49.29% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 19
Autosampler Location: 88
Sample ID: AD26083-043 MS 1
Date Collected: 9/29/2021 4:17:50 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-043 MS 1

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90645.8 | 96.9 | % | 0.96 | 96.9 | % | 0.96 | 0.99% |
| Y 371.029 | 35087.4 | 96.0 | % | 0.96 | 96.0 | % | 0.96 | 1.00% |
| Al 308.215† | 4614.2 | 4.93387 | mg/L | 0.049040 | 4.93387 | mg/L | 0.049040 | 0.99% |
| Ba 233.527† | 10562.5 | 2.22004 | mg/L | 0.003084 | 2.22004 | mg/L | 0.003084 | 0.14% |
| Ca 315.887† | 630692.0 | 119.659 | mg/L | 0.1140 | 119.659 | mg/L | 0.1140 | 0.10% |
| Cu 327.393† | 2530.2 | 0.569412 | mg/L | 0.0024898 | 0.569412 | mg/L | 0.0024898 | 0.44% |
| Fe 273.955† | 15431.3 | 13.1192 | mg/L | 0.04014 | 13.1192 | mg/L | 0.04014 | 0.31% |
| K 766.490† | 264556.5 | 137.521 | mg/L | 0.2821 | 137.521 | mg/L | 0.2821 | 0.21% |
| Mg 279.077† | 104919.9 | 159.212 | mg/L | 0.1866 | 159.212 | mg/L | 0.1866 | 0.12% |
| Mn 257.610† | 25766.4 | 0.889902 | mg/L | 0.0016125 | 0.889902 | mg/L | 0.0016125 | 0.18% |
| Mo 202.031† | 695.4 | 0.487206 | mg/L | 0.0086377 | 0.487206 | mg/L | 0.0086377 | 1.77% |
| Na 589.592† | 9906341.4 | 1008.71 | mg/L | 7.758 | 1008.71 | mg/L | 7.758 | 0.77% |
| Ni 231.604† | 962.6 | 0.500291 | mg/L | 0.0053125 | 0.500291 | mg/L | 0.0053125 | 1.06% |
| Se 196.026† | 132.9 | 0.484842 | mg/L | 0.0357928 | 0.484842 | mg/L | 0.0357928 | 7.38% |
| Sn 189.927† | 121.1 | 0.408952 | mg/L | 0.0005318 | 0.408952 | mg/L | 0.0005318 | 0.13% |
| Ti 334.940† | 22158.6 | 0.505272 | mg/L | 0.0016447 | 0.505272 | mg/L | 0.0016447 | 0.33% |
| V 290.880† | 5277.1 | 0.559360 | mg/L | 0.0038576 | 0.559360 | mg/L | 0.0038576 | 0.69% |
| Zn 206.200† | 1865.5 | 0.499048 | mg/L | 0.0048483 | 0.499048 | mg/L | 0.0048483 | 0.97% |
| Si 251.611† | 20203.1 | 7.34046 | mg/L | 0.010672 | 7.34046 | mg/L | 0.010672 | 0.15% |
| B 249.772† | 13447.3 | 1.85366 | mg/L | 0.001526 | 1.85366 | mg/L | 0.001526 | 0.08% |
| Ce 413.764† | 2186.6 | 0.473955 | mg/L | 0.0054853 | 0.473955 | mg/L | 0.0054853 | 1.16% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 20
Autosampler Location: 89
Sample ID: AD26083-045 MS 2
Date Collected: 9/29/2021 4:23:16 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-045 MS 2

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90810.5 | 97.1 | % | 0.32 | 97.1 | % | 0.32 | 0.33% |
| Y 371.029 | 35110.2 | 96.1 | % | 0.58 | 96.1 | % | 0.58 | 0.61% |
| Al 308.215† | 4644.4 | 4.96591 | mg/L | 0.016801 | 4.96591 | mg/L | 0.016801 | 0.34% |
| Ba 233.527† | 10638.0 | 2.23591 | mg/L | 0.007412 | 2.23591 | mg/L | 0.007412 | 0.33% |
| Ca 315.887† | 634478.8 | 120.378 | mg/L | 0.1954 | 120.378 | mg/L | 0.1954 | 0.16% |
| Cu 327.393† | 2550.0 | 0.573825 | mg/L | 0.0060180 | 0.573825 | mg/L | 0.0060180 | 1.05% |
| Fe 273.955† | 15537.0 | 13.2091 | mg/L | 0.02256 | 13.2091 | mg/L | 0.02256 | 0.17% |
| K 766.490† | 266849.8 | 138.711 | mg/L | 0.1018 | 138.711 | mg/L | 0.1018 | 0.07% |
| Mg 279.077† | 105566.2 | 160.193 | mg/L | 0.2438 | 160.193 | mg/L | 0.2438 | 0.15% |
| Mn 257.610† | 25949.6 | 0.896207 | mg/L | 0.0016829 | 0.896207 | mg/L | 0.0016829 | 0.19% |
| Mo 202.031† | 703.8 | 0.493054 | mg/L | 0.0039571 | 0.493054 | mg/L | 0.0039571 | 0.80% |
| Na 589.592† | 10070381.3 | 1025.41 | mg/L | 3.233 | 1025.41 | mg/L | 3.233 | 0.32% |
| Ni 231.604† | 981.2 | 0.509904 | mg/L | 0.0043096 | 0.509904 | mg/L | 0.0043096 | 0.85% |
| Se 196.026† | 131.0 | 0.478033 | mg/L | 0.0160409 | 0.478033 | mg/L | 0.0160409 | 3.36% |
| Sn 189.927† | 123.4 | 0.416191 | mg/L | 0.0086281 | 0.416191 | mg/L | 0.0086281 | 2.07% |
| Ti 334.940† | 22163.2 | 0.505490 | mg/L | 0.0012199 | 0.505490 | mg/L | 0.0012199 | 0.24% |
| V 290.880† | 5298.7 | 0.561515 | mg/L | 0.0055035 | 0.561515 | mg/L | 0.0055035 | 0.98% |
| Zn 206.200† | 1854.2 | 0.496023 | mg/L | 0.0049578 | 0.496023 | mg/L | 0.0049578 | 1.00% |
| Si 251.611† | 20330.1 | 7.38689 | mg/L | 0.014401 | 7.38689 | mg/L | 0.014401 | 0.19% |
| B 249.772† | 13506.8 | 1.86174 | mg/L | 0.000687 | 1.86174 | mg/L | 0.000687 | 0.04% |
| Ce 413.764† | 2180.5 | 0.472637 | mg/L | 0.0070249 | 0.472637 | mg/L | 0.0070249 | 1.49% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 21
Autosampler Location: 90
Sample ID: AD26083-041 PS
Date Collected: 9/29/2021 4:28:42 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-041 PS

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90980.9 | 97.2 | % | 0.85 | 97.2 | % | 0.85 | 0.87% |
| Y 371.029 | 35111.0 | 96.1 | % | 0.81 | 96.1 | % | 0.81 | 0.85% |
| Al 308.215† | 5001.0 | 5.34598 | mg/L | 0.055862 | 5.34598 | mg/L | 0.055862 | 1.04% |
| Ba 233.527† | 10765.6 | 2.26263 | mg/L | 0.003949 | 2.26263 | mg/L | 0.003949 | 0.17% |
| Ca 315.887† | 650334.5 | 123.388 | mg/L | 0.3363 | 123.388 | mg/L | 0.3363 | 0.27% |
| Cu 327.393† | 2753.6 | 0.617133 | mg/L | 0.0039331 | 0.617133 | mg/L | 0.0039331 | 0.64% |
| Fe 273.955† | 15929.0 | 13.5427 | mg/L | 0.01625 | 13.5427 | mg/L | 0.01625 | 0.12% |
| K 766.490† | 274117.0 | 142.482 | mg/L | 0.5158 | 142.482 | mg/L | 0.5158 | 0.36% |
| Mg 279.077† | 107326.0 | 162.866 | mg/L | 0.2922 | 162.866 | mg/L | 0.2922 | 0.18% |
| Mn 257.610† | 27155.1 | 0.937002 | mg/L | 0.0034230 | 0.937002 | mg/L | 0.0034230 | 0.37% |
| Mo 202.031† | 753.6 | 0.527719 | mg/L | 0.0093297 | 0.527719 | mg/L | 0.0093297 | 1.77% |
| Na 589.592† | 9971950.7 | 1015.39 | mg/L | 14.289 | 1015.39 | mg/L | 14.289 | 1.41% |
| Ni 231.604† | 1056.1 | 0.548687 | mg/L | 0.0065638 | 0.548687 | mg/L | 0.0065638 | 1.20% |
| Se 196.026† | 144.6 | 0.527239 | mg/L | 0.0324111 | 0.527239 | mg/L | 0.0324111 | 6.15% |
| Sn 189.927† | 135.6 | 0.454335 | mg/L | 0.0085049 | 0.454335 | mg/L | 0.0085049 | 1.87% |
| Ti 334.940† | 24098.3 | 0.548436 | mg/L | 0.0018851 | 0.548436 | mg/L | 0.0018851 | 0.34% |
| V 290.880† | 5686.7 | 0.606243 | mg/L | 0.0013958 | 0.606243 | mg/L | 0.0013958 | 0.23% |
| Zn 206.200† | 1993.7 | 0.533414 | mg/L | 0.0067845 | 0.533414 | mg/L | 0.0067845 | 1.27% |
| Si 251.611† | 21381.6 | 7.77122 | mg/L | 0.051556 | 7.77122 | mg/L | 0.051556 | 0.66% |
| B 249.772† | 13416.9 | 1.84763 | mg/L | 0.007138 | 1.84763 | mg/L | 0.007138 | 0.39% |
| Ce 413.764† | 2224.6 | 0.482280 | mg/L | 0.0064342 | 0.482280 | mg/L | 0.0064342 | 1.33% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 22
Sample ID: AD26083-041 SD
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 150
Autosampler Location: 91
Date Collected: 9/29/2021 4:34:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 SD

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92841.6 | 99.2 | % | 0.33 | 99.2 | % | 0.33 | 0.33% |
| Y 371.029 | 36752.3 | 101 | % | 0.23 | 101 | % | 0.23 | 0.23% |
| Al 308.215† | -9.3 | 0.0100655 | mg/L | 0.00742903 | 0.0100655 | mg/L | 0.00742903 | 73.81% |
| Ba 233.527† | 1741.8 | 0.366457 | mg/L | 0.0040990 | 0.366457 | mg/L | 0.0040990 | 1.12% |
| Ca 315.887† | 81441.2 | 15.3983 | mg/L | 0.05506 | 15.3983 | mg/L | 0.05506 | 0.36% |
| Cu 327.393† | -16.6 | -0.0032679 | mg/L | 0.00253062 | -0.0032679 | mg/L | 0.00253062 | 77.44% |
| Fe 273.955† | 1990.4 | 1.68114 | mg/L | 0.015468 | 1.68114 | mg/L | 0.015468 | 0.92% |
| K 766.490† | 32536.3 | 17.1385 | mg/L | 0.03292 | 17.1385 | mg/L | 0.03292 | 0.19% |
| Mg 279.077† | 15489.5 | 23.4066 | mg/L | 0.03701 | 23.4066 | mg/L | 0.03701 | 0.16% |
| Mn 257.610† | 2503.7 | 0.0868418 | mg/L | 0.00068133 | 0.0868418 | mg/L | 0.00068133 | 0.78% |
| Mo 202.031† | -7.0 | -0.0015374 | mg/L | 0.00416284 | -0.0015374 | mg/L | 0.00416284 | 270.76% |
| Na 589.592† | 1991987.9 | 202.853 | mg/L | 0.8976 | 202.853 | mg/L | 0.8976 | 0.44% |
| Ni 231.604† | -0.1 | -0.0004163 | mg/L | 0.00126562 | -0.0004163 | mg/L | 0.00126562 | 304.04% |
| Se 196.026† | -2.7 | -0.0131817 | mg/L | 0.01679118 | -0.0131817 | mg/L | 0.01679118 | 127.38% |
| Sn 189.927† | -5.5 | -0.0133432 | mg/L | 0.00456176 | -0.0133432 | mg/L | 0.00456176 | 34.19% |
| Ti 334.940† | -119.5 | -0.0004718 | mg/L | 0.00007882 | -0.0004718 | mg/L | 0.00007882 | 16.71% |
| V 290.880† | 279.9 | 0.0240458 | mg/L | 0.00342062 | 0.0240458 | mg/L | 0.00342062 | 14.23% |
| Zn 206.200† | -2.3 | -0.0012894 | mg/L | 0.00102627 | -0.0012894 | mg/L | 0.00102627 | 79.59% |
| Si 251.611† | 3816.4 | 1.35112 | mg/L | 0.008369 | 1.35112 | mg/L | 0.008369 | 0.62% |
| B 249.772† | 2081.5 | 0.286455 | mg/L | 0.0015733 | 0.286455 | mg/L | 0.0015733 | 0.55% |
| Ce 413.764† | -47.2 | -0.0146273 | mg/L | 0.01128808 | -0.0146273 | mg/L | 0.01128808 | 77.17% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 23
Sample ID: AD26083-004
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 92
Date Collected: 9/29/2021 4:38:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-004

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94254.7 | 101 | % | 0.35 | 101 | % | 0.35 | 0.35% |
| Y 371.029 | 36679.2 | 100 | % | 0.20 | 100 | % | 0.20 | 0.20% |
| Al 308.215† | 11.3 | 0.0313529 | mg/L | 0.00368681 | 0.0313529 | mg/L | 0.00368681 | 11.76% |
| Ba 233.527† | 1066.8 | 0.225053 | mg/L | 0.0025865 | 0.225053 | mg/L | 0.0025865 | 1.15% |
| Ca 315.887† | 265032.3 | 50.2483 | mg/L | 0.05148 | 50.2483 | mg/L | 0.05148 | 0.10% |
| Cu 327.393† | -40.9 | 0.0079299 | mg/L | 0.00258211 | 0.0079299 | mg/L | 0.00258211 | 32.56% |
| Fe 273.955† | 34.1 | 0.0162969 | mg/L | 0.00603089 | 0.0162969 | mg/L | 0.00603089 | 37.01% |
| K 766.490† | 2215.7 | 1.40675 | mg/L | 0.014084 | 1.40675 | mg/L | 0.014084 | 1.00% |
| Mg 279.077† | 13659.4 | 20.6276 | mg/L | 0.03924 | 20.6276 | mg/L | 0.03924 | 0.19% |
| Mn 257.610† | 2446.7 | 0.0844142 | mg/L | 0.00080924 | 0.0844142 | mg/L | 0.00080924 | 0.96% |
| Mo 202.031† | -5.6 | -0.0005875 | mg/L | 0.00158710 | -0.0005875 | mg/L | 0.00158710 | 270.15% |
| Na 589.592† | 122399.8 | 12.4876 | mg/L | 0.05453 | 12.4876 | mg/L | 0.05453 | 0.44% |
| Ni 231.604† | -0.1 | -0.0010263 | mg/L | 0.00459879 | -0.0010263 | mg/L | 0.00459879 | 448.10% |
| Se 196.026† | -0.3 | -0.0058946 | mg/L | 0.01081864 | -0.0058946 | mg/L | 0.01081864 | 183.53% |
| Sn 189.927† | -8.9 | -0.0202859 | mg/L | 0.01263734 | -0.0202859 | mg/L | 0.01263734 | 62.30% |
| Ti 334.940† | -360.8 | -0.0001032 | mg/L | 0.00009696 | -0.0001032 | mg/L | 0.00009696 | 94.00% |
| V 290.880† | 246.2 | 0.0211878 | mg/L | 0.00312630 | 0.0211878 | mg/L | 0.00312630 | 14.76% |
| Zn 206.200† | 65.4 | 0.0168454 | mg/L | 0.00163196 | 0.0168454 | mg/L | 0.00163196 | 9.69% |
| Si 251.611† | 24999.8 | 9.09367 | mg/L | 0.029133 | 9.09367 | mg/L | 0.029133 | 0.32% |
| B 249.772† | 112.5 | 0.0136877 | mg/L | 0.00052740 | 0.0136877 | mg/L | 0.00052740 | 3.85% |
| Ce 413.764† | -49.1 | -0.0150468 | mg/L | 0.01316940 | -0.0150468 | mg/L | 0.01316940 | 87.52% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 24
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 6
Date Collected: 9/29/2021 4:42:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94026.0 | 100 | % | 0.64 | 100 | % | 0.64 | 0.64% |
| Y 371.029 | 36062.3 | 98.7 | % | 0.98 | 98.7 | % | 0.98 | 0.99% |
| Al 308.215† | 4635.2 | 4.94393 | mg/L | 0.016026 | 4.94393 | mg/L | 0.016026 | 0.32% |
| QC value within limits for Al 308.215 Recovery = 98.88% | | | | | | | | |
| Ba 233.527† | 2358.0 | 0.494618 | mg/L | 0.0022729 | 0.494618 | mg/L | 0.0022729 | 0.46% |
| QC value within limits for Ba 233.527 Recovery = 98.92% | | | | | | | | |
| Ca 315.887† | 255791.3 | 48.4942 | mg/L | 0.08224 | 48.4942 | mg/L | 0.08224 | 0.17% |
| QC value within limits for Ca 315.887 Recovery = 96.99% | | | | | | | | |
| Cu 327.393† | 2470.1 | 0.523976 | mg/L | 0.0053003 | 0.523976 | mg/L | 0.0053003 | 1.01% |
| QC value within limits for Cu 327.393 Recovery = 104.80% | | | | | | | | |
| Fe 273.955† | 5761.4 | 4.89018 | mg/L | 0.040576 | 4.89018 | mg/L | 0.040576 | 0.83% |
| QC value within limits for Fe 273.955 Recovery = 97.80% | | | | | | | | |
| K 766.490† | 92184.5 | 48.0868 | mg/L | 0.02837 | 48.0868 | mg/L | 0.02837 | 0.06% |
| QC value within limits for K 766.490 Recovery = 96.17% | | | | | | | | |
| Mg 279.077† | 32244.6 | 48.8502 | mg/L | 0.46916 | 48.8502 | mg/L | 0.46916 | 0.96% |
| QC value within limits for Mg 279.077 Recovery = 97.70% | | | | | | | | |
| Mn 257.610† | 14366.0 | 0.488103 | mg/L | 0.0036228 | 0.488103 | mg/L | 0.0036228 | 0.74% |
| QC value within limits for Mn 257.610 Recovery = 97.62% | | | | | | | | |
| Mo 202.031† | 693.9 | 0.486167 | mg/L | 0.0081574 | 0.486167 | mg/L | 0.0081574 | 1.68% |
| QC value within limits for Mo 202.031 Recovery = 97.23% | | | | | | | | |
| Na 589.592† | 475568.6 | 48.4481 | mg/L | 0.06045 | 48.4481 | mg/L | 0.06045 | 0.12% |
| QC value within limits for Na 589.592 Recovery = 96.90% | | | | | | | | |
| Ni 231.604† | 948.8 | 0.490062 | mg/L | 0.0018111 | 0.490062 | mg/L | 0.0018111 | 0.37% |
| QC value within limits for Ni 231.604 Recovery = 98.01% | | | | | | | | |
| Se 196.026† | 130.7 | 0.469155 | mg/L | 0.0050281 | 0.469155 | mg/L | 0.0050281 | 1.07% |
| QC value within limits for Se 196.026 Recovery = 93.83% | | | | | | | | |
| Sn 189.927† | 152.6 | 0.481110 | mg/L | 0.0176719 | 0.481110 | mg/L | 0.0176719 | 3.67% |
| QC value within limits for Sn 189.927 Recovery = 96.22% | | | | | | | | |
| Ti 334.940† | 22223.5 | 0.495128 | mg/L | 0.0038535 | 0.495128 | mg/L | 0.0038535 | 0.78% |
| QC value within limits for Ti 334.940 Recovery = 99.03% | | | | | | | | |
| V 290.880† | 4153.0 | 0.471081 | mg/L | 0.0058779 | 0.471081 | mg/L | 0.0058779 | 1.25% |
| QC value within limits for V 290.880 Recovery = 94.22% | | | | | | | | |
| Zn 206.200† | 1822.5 | 0.487531 | mg/L | 0.0035782 | 0.487531 | mg/L | 0.0035782 | 0.73% |
| QC value within limits for Zn 206.200 Recovery = 97.51% | | | | | | | | |
| Si 251.611† | 13448.0 | 4.87148 | mg/L | 0.036985 | 4.87148 | mg/L | 0.036985 | 0.76% |
| QC value within limits for Si 251.611 Recovery = 97.43% | | | | | | | | |
| B 249.772† | 3436.6 | 0.465853 | mg/L | 0.0053040 | 0.465853 | mg/L | 0.0053040 | 1.14% |
| QC value within limits for B 249.772 Recovery = 93.17% | | | | | | | | |
| Ce 413.764† | 2205.9 | 0.478175 | mg/L | 0.0103329 | 0.478175 | mg/L | 0.0103329 | 2.16% |
| QC value within limits for Ce 413.764 Recovery = 95.64% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 25 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 4:46:16 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94907.5 | 101 | % | 0.09 | 101 | % | 0.09 | 0.08% |
| Y 371.029 | 37819.3 | 103 | % | 0.08 | 103 | % | 0.08 | 0.08% |
| Al 308.215† | -3.2 | 0.0133547 | mg/L | 0.01272325 | 0.0133547 | mg/L | 0.01272325 | 95.27% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 4.1 | 0.0009976 | mg/L | 0.00070428 | 0.0009976 | mg/L | 0.00070428 | 70.60% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -40.6 | -0.0689522 | mg/L | 0.00345168 | -0.0689522 | mg/L | 0.00345168 | 5.01% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 19.8 | -0.0029445 | mg/L | 0.00278955 | -0.0029445 | mg/L | 0.00278955 | 94.74% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -3.1 | -0.0153062 | mg/L | 0.00295038 | -0.0153062 | mg/L | 0.00295038 | 19.28% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | 20.6 | 0.267834 | mg/L | 0.0094621 | 0.267834 | mg/L | 0.0094621 | 3.53% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 0.0 | -0.114979 | mg/L | 0.0140568 | -0.114979 | mg/L | 0.0140568 | 12.23% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -6.1 | -0.0014673 | mg/L | 0.00033854 | -0.0014673 | mg/L | 0.00033854 | 23.07% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 0.2 | 0.0034132 | mg/L | 0.00472604 | 0.0034132 | mg/L | 0.00472604 | 138.47% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 1196.4 | 0.146393 | mg/L | 0.0078953 | 0.146393 | mg/L | 0.0078953 | 5.39% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -2.9 | -0.0024788 | mg/L | 0.00145797 | -0.0024788 | mg/L | 0.00145797 | 58.82% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 2.1 | 0.0027238 | mg/L | 0.01292172 | 0.0027238 | mg/L | 0.01292172 | 474.41% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -0.7 | -0.0036335 | mg/L | 0.00546262 | -0.0036335 | mg/L | 0.00546262 | 150.34% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 47.5 | 0.0006772 | mg/L | 0.00060547 | 0.0006772 | mg/L | 0.00060547 | 89.40% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -2.6 | 0.0001675 | mg/L | 0.00129982 | 0.0001675 | mg/L | 0.00129982 | 776.18% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -6.7 | -0.0024774 | mg/L | 0.00100024 | -0.0024774 | mg/L | 0.00100024 | 40.37% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 11.3 | -0.0396525 | mg/L | 0.00049054 | -0.0396525 | mg/L | 0.00049054 | 1.24% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 16.3 | 0.0001493 | mg/L | 0.00044141 | 0.0001493 | mg/L | 0.00044141 | 295.58% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -55.8 | -0.0164986 | mg/L | 0.00428594 | -0.0164986 | mg/L | 0.00428594 | 25.98% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 26
Sample ID: AD26083-007
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 93
Date Collected: 9/29/2021 4:50:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-007

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94150.9 | 101 | % | 0.47 | 101 | % | 0.47 | 0.47% |
| Y 371.029 | 36633.1 | 100 | % | 0.69 | 100 | % | 0.69 | 0.69% |
| Al 308.215† | 2.7 | 0.0217968 | mg/L | 0.00322425 | 0.0217968 | mg/L | 0.00322425 | 14.79% |
| Ba 233.527† | 1173.0 | 0.247434 | mg/L | 0.0010261 | 0.247434 | mg/L | 0.0010261 | 0.41% |
| Ca 315.887† | 229449.3 | 43.4938 | mg/L | 0.06039 | 43.4938 | mg/L | 0.06039 | 0.14% |
| Cu 327.393† | -25.3 | 0.0080014 | mg/L | 0.00067380 | 0.0080014 | mg/L | 0.00067380 | 8.42% |
| Fe 273.955† | 79.3 | 0.0547712 | mg/L | 0.00163585 | 0.0547712 | mg/L | 0.00163585 | 2.99% |
| K 766.490† | 1952.7 | 1.27032 | mg/L | 0.026927 | 1.27032 | mg/L | 0.026927 | 2.12% |
| Mg 279.077† | 11039.2 | 16.6486 | mg/L | 0.08250 | 16.6486 | mg/L | 0.08250 | 0.50% |
| Mn 257.610† | 9985.1 | 0.335621 | mg/L | 0.0009452 | 0.335621 | mg/L | 0.0009452 | 0.28% |
| Mo 202.031† | -0.7 | 0.0028102 | mg/L | 0.00427294 | 0.0028102 | mg/L | 0.00427294 | 152.05% |
| Na 589.592† | 87176.1 | 8.90105 | mg/L | 0.002409 | 8.90105 | mg/L | 0.002409 | 0.03% |
| Ni 231.604† | -4.1 | -0.0030814 | mg/L | 0.00443963 | -0.0030814 | mg/L | 0.00443963 | 144.08% |
| Se 196.026† | 1.9 | 0.0019982 | mg/L | 0.03496742 | 0.0019982 | mg/L | 0.03496742 | >999.9% |
| Sn 189.927† | -8.7 | -0.0210049 | mg/L | 0.00399205 | -0.0210049 | mg/L | 0.00399205 | 19.01% |
| Ti 334.940† | -332.7 | -0.0005844 | mg/L | 0.00069015 | -0.0005844 | mg/L | 0.00069015 | 118.10% |
| V 290.880† | 212.1 | 0.0187700 | mg/L | 0.00388634 | 0.0187700 | mg/L | 0.00388634 | 20.71% |
| Zn 206.200† | 49.0 | 0.0124583 | mg/L | 0.00017250 | 0.0124583 | mg/L | 0.00017250 | 1.38% |
| Si 251.611† | 20188.8 | 7.33523 | mg/L | 0.015485 | 7.33523 | mg/L | 0.015485 | 0.21% |
| B 249.772† | 88.2 | 0.0100795 | mg/L | 0.00053389 | 0.0100795 | mg/L | 0.00053389 | 5.30% |
| Ce 413.764† | 8.7 | -0.0023995 | mg/L | 0.00250141 | -0.0023995 | mg/L | 0.00250141 | 104.25% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 27
Autosampler Location: 94
Sample ID: AD26083-013
Date Collected: 9/29/2021 4:54:00 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-013

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 95532.6 | 102 | % | 0.94 | 102 | % | 0.94 | 0.92% |
| Y 371.029 | 37390.4 | 102 | % | 0.99 | 102 | % | 0.99 | 0.97% |
| Al 308.215† | 17.9 | 0.0361163 | mg/L | 0.01396752 | 0.0361163 | mg/L | 0.01396752 | 38.67% |
| Ba 233.527† | 490.6 | 0.0956356 | mg/L | 0.00021527 | 0.0956356 | mg/L | 0.00021527 | 0.23% |
| Ca 315.887† | 35245.1 | 6.62912 | mg/L | 0.022313 | 6.62912 | mg/L | 0.022313 | 0.34% |
| Cu 327.393† | 23.4 | 0.0008931 | mg/L | 0.00632845 | 0.0008931 | mg/L | 0.00632845 | 708.59% |
| Fe 273.955† | 16812.9 | 14.2949 | mg/L | 0.03125 | 14.2949 | mg/L | 0.03125 | 0.22% |
| K 766.490† | 4858.7 | 2.77811 | mg/L | 0.017103 | 2.77811 | mg/L | 0.017103 | 0.62% |
| Mg 279.077† | 2895.3 | 4.28160 | mg/L | 0.025927 | 4.28160 | mg/L | 0.025927 | 0.61% |
| Mn 257.610† | 16426.2 | 0.548576 | mg/L | 0.0008751 | 0.548576 | mg/L | 0.0008751 | 0.16% |
| Mo 202.031† | -4.6 | 0.0001293 | mg/L | 0.00460137 | 0.0001293 | mg/L | 0.00460137 | >999.9% |
| Na 589.592† | 64336.6 | 6.57547 | mg/L | 0.013373 | 6.57547 | mg/L | 0.013373 | 0.20% |
| Ni 231.604† | -6.4 | 0.0010853 | mg/L | 0.00301377 | 0.0010853 | mg/L | 0.00301377 | 277.68% |
| Se 196.026† | 2.2 | 0.0166264 | mg/L | 0.00496857 | 0.0166264 | mg/L | 0.00496857 | 29.88% |
| Sn 189.927† | -4.7 | -0.0145449 | mg/L | 0.00523630 | -0.0145449 | mg/L | 0.00523630 | 36.00% |
| Ti 334.940† | 1.5 | 0.0007568 | mg/L | 0.00045792 | 0.0007568 | mg/L | 0.00045792 | 60.51% |
| V 290.880† | 42.1 | 0.0036724 | mg/L | 0.00170504 | 0.0036724 | mg/L | 0.00170504 | 46.43% |
| Zn 206.200† | 65.8 | 0.0169569 | mg/L | 0.00158037 | 0.0169569 | mg/L | 0.00158037 | 9.32% |
| Si 251.611† | 10203.2 | 3.68548 | mg/L | 0.004237 | 3.68548 | mg/L | 0.004237 | 0.11% |
| B 249.772† | 397.6 | -0.0035671 | mg/L | 0.00204634 | -0.0035671 | mg/L | 0.00204634 | 57.37% |
| Ce 413.764† | -52.4 | -0.0157720 | mg/L | 0.00630262 | -0.0157720 | mg/L | 0.00630262 | 39.96% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 28
Sample ID: AD26083-015
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 95
Date Collected: 9/29/2021 4:57:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-015

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92775.9 | 99.2 | % | 0.47 | 99.2 | % | 0.47 | 0.47% |
| Y 371.029 | 36628.7 | 100 | % | 0.43 | 100 | % | 0.43 | 0.43% |
| Al 308.215† | 13.0 | 0.0312375 | mg/L | 0.00958592 | 0.0312375 | mg/L | 0.00958592 | 30.69% |
| Ba 233.527† | 472.0 | 0.0995709 | mg/L | 0.00167971 | 0.0995709 | mg/L | 0.00167971 | 1.69% |
| Ca 315.887† | 85166.7 | 16.1055 | mg/L | 0.01057 | 16.1055 | mg/L | 0.01057 | 0.07% |
| Cu 327.393† | 35.7 | 0.0078424 | mg/L | 0.00752573 | 0.0078424 | mg/L | 0.00752573 | 95.96% |
| Fe 273.955† | 207.5 | 0.163931 | mg/L | 0.0049478 | 0.163931 | mg/L | 0.0049478 | 3.02% |
| K 766.490† | 1983.4 | 1.28626 | mg/L | 0.005817 | 1.28626 | mg/L | 0.005817 | 0.45% |
| Mg 279.077† | 5354.2 | 8.01567 | mg/L | 0.026746 | 8.01567 | mg/L | 0.026746 | 0.33% |
| Mn 257.610† | 2282.1 | 0.0765410 | mg/L | 0.00118202 | 0.0765410 | mg/L | 0.00118202 | 1.54% |
| Mo 202.031† | -3.1 | 0.0011567 | mg/L | 0.00207373 | 0.0011567 | mg/L | 0.00207373 | 179.29% |
| Na 589.592† | 859796.4 | 87.5710 | mg/L | 0.67703 | 87.5710 | mg/L | 0.67703 | 0.77% |
| Ni 231.604† | -4.2 | -0.0030597 | mg/L | 0.00365134 | -0.0030597 | mg/L | 0.00365134 | 119.34% |
| Se 196.026† | 5.0 | 0.0131800 | mg/L | 0.01477243 | 0.0131800 | mg/L | 0.01477243 | 112.08% |
| Sn 189.927† | -4.8 | -0.0133620 | mg/L | 0.00764713 | -0.0133620 | mg/L | 0.00764713 | 57.23% |
| Ti 334.940† | -76.4 | 0.0005870 | mg/L | 0.00083864 | 0.0005870 | mg/L | 0.00083864 | 142.86% |
| V 290.880† | 80.6 | 0.0067185 | mg/L | 0.00084758 | 0.0067185 | mg/L | 0.00084758 | 12.62% |
| Zn 206.200† | 68.1 | 0.0175795 | mg/L | 0.00137202 | 0.0175795 | mg/L | 0.00137202 | 7.80% |
| Si 251.611† | 18086.6 | 6.56690 | mg/L | 0.011995 | 6.56690 | mg/L | 0.011995 | 0.18% |
| B 249.772† | 253.4 | 0.0330879 | mg/L | 0.00053787 | 0.0330879 | mg/L | 0.00053787 | 1.63% |
| Ce 413.764† | -9.1 | -0.0062924 | mg/L | 0.00488690 | -0.0062924 | mg/L | 0.00488690 | 77.66% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 29
Autosampler Location: 96
Sample ID: AD26083-017
Date Collected: 9/29/2021 5:01:59 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-017

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93674.9 | 100 | % | 0.36 | 100 | % | 0.36 | 0.36% |
| Y 371.029 | 36502.2 | 99.9 | % | 0.60 | 99.9 | % | 0.60 | 0.60% |
| Al 308.215† | 5.3 | 0.0232699 | mg/L | 0.00959187 | 0.0232699 | mg/L | 0.00959187 | 41.22% |
| Ba 233.527† | 694.5 | 0.146526 | mg/L | 0.0012364 | 0.146526 | mg/L | 0.0012364 | 0.84% |
| Ca 315.887† | 165705.1 | 31.3936 | mg/L | 0.03261 | 31.3936 | mg/L | 0.03261 | 0.10% |
| Cu 327.393† | -0.4 | 0.0074974 | mg/L | 0.00275247 | 0.0074974 | mg/L | 0.00275247 | 36.71% |
| Fe 273.955† | 90.5 | 0.0643547 | mg/L | 0.00371568 | 0.0643547 | mg/L | 0.00371568 | 5.77% |
| K 766.490† | 3251.9 | 1.94442 | mg/L | 0.007567 | 1.94442 | mg/L | 0.007567 | 0.39% |
| Mg 279.077† | 5463.0 | 8.18082 | mg/L | 0.029170 | 8.18082 | mg/L | 0.029170 | 0.36% |
| Mn 257.610† | 4211.9 | 0.141072 | mg/L | 0.0001879 | 0.141072 | mg/L | 0.0001879 | 0.13% |
| Mo 202.031† | -1.9 | 0.0019853 | mg/L | 0.00171409 | 0.0019853 | mg/L | 0.00171409 | 86.34% |
| Na 589.592† | 106147.9 | 10.8328 | mg/L | 0.01529 | 10.8328 | mg/L | 0.01529 | 0.14% |
| Ni 231.604† | -5.4 | -0.0037241 | mg/L | 0.00810008 | -0.0037241 | mg/L | 0.00810008 | 217.50% |
| Se 196.026† | 2.1 | 0.0025483 | mg/L | 0.00680954 | 0.0025483 | mg/L | 0.00680954 | 267.22% |
| Sn 189.927† | -3.7 | -0.0084800 | mg/L | 0.01207951 | -0.0084800 | mg/L | 0.01207951 | 142.45% |
| Ti 334.940† | -190.1 | 0.0005776 | mg/L | 0.00082597 | 0.0005776 | mg/L | 0.00082597 | 143.00% |
| V 290.880† | 85.5 | 0.0072248 | mg/L | 0.00033431 | 0.0072248 | mg/L | 0.00033431 | 4.63% |
| Zn 206.200† | 57.1 | 0.0146310 | mg/L | 0.00090242 | 0.0146310 | mg/L | 0.00090242 | 6.17% |
| Si 251.611† | 16155.8 | 5.86119 | mg/L | 0.017082 | 5.86119 | mg/L | 0.017082 | 0.29% |
| B 249.772† | 187.2 | 0.0240897 | mg/L | 0.00138746 | 0.0240897 | mg/L | 0.00138746 | 5.76% |
| Ce 413.764† | -34.1 | -0.0117541 | mg/L | 0.00545492 | -0.0117541 | mg/L | 0.00545492 | 46.41% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 30
Autosampler Location: 97
Sample ID: AD26083-020
Date Collected: 9/29/2021 5:05:48 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-020

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89051.1 | 95.2 | % | 0.79 | 95.2 | % | 0.79 | 0.83% |
| Y 371.029 | 34970.0 | 95.7 | % | 1.00 | 95.7 | % | 1.00 | 1.05% |
| Al 308.215† | 4.2 | 0.0252299 | mg/L | 0.01276418 | 0.0252299 | mg/L | 0.01276418 | 50.59% |
| Ba 233.527† | 302.2 | 0.0635395 | mg/L | 0.00100504 | 0.0635395 | mg/L | 0.00100504 | 1.58% |
| Ca 315.887† | 132072.1 | 25.0093 | mg/L | 0.06354 | 25.0093 | mg/L | 0.06354 | 0.25% |
| Cu 327.393† | -24.5 | -0.0004242 | mg/L | 0.00239723 | -0.0004242 | mg/L | 0.00239723 | 565.10% |
| Fe 273.955† | 658.9 | 0.548002 | mg/L | 0.0068393 | 0.548002 | mg/L | 0.0068393 | 1.25% |
| K 766.490† | 47614.9 | 24.9620 | mg/L | 0.05291 | 24.9620 | mg/L | 0.05291 | 0.21% |
| Mg 279.077† | 22552.6 | 34.1324 | mg/L | 0.09193 | 34.1324 | mg/L | 0.09193 | 0.27% |
| Mn 257.610† | 2555.7 | 0.0905967 | mg/L | 0.00054909 | 0.0905967 | mg/L | 0.00054909 | 0.61% |
| Mo 202.031† | 2.1 | 0.0047832 | mg/L | 0.00195200 | 0.0047832 | mg/L | 0.00195200 | 40.81% |
| Na 589.592† | 4334078.5 | 441.330 | mg/L | 4.4553 | 441.330 | mg/L | 4.4553 | 1.01% |
| Ni 231.604† | 0.0 | -0.0007461 | mg/L | 0.00456489 | -0.0007461 | mg/L | 0.00456489 | 611.82% |
| Se 196.026† | -0.5 | -0.0062912 | mg/L | 0.01714868 | -0.0062912 | mg/L | 0.01714868 | 272.58% |
| Sn 189.927† | -11.5 | -0.0289945 | mg/L | 0.00307965 | -0.0289945 | mg/L | 0.00307965 | 10.62% |
| Ti 334.940† | -199.1 | -0.0006583 | mg/L | 0.00022583 | -0.0006583 | mg/L | 0.00022583 | 34.30% |
| V 290.880† | 383.4 | 0.0319501 | mg/L | 0.00403469 | 0.0319501 | mg/L | 0.00403469 | 12.63% |
| Zn 206.200† | 2.8 | 0.0000775 | mg/L | 0.00086747 | 0.0000775 | mg/L | 0.00086747 | >999.9% |
| Si 251.611† | 22864.2 | 8.31312 | mg/L | 0.020446 | 8.31312 | mg/L | 0.020446 | 0.25% |
| B 249.772† | 2366.4 | 0.331483 | mg/L | 0.0045793 | 0.331483 | mg/L | 0.0045793 | 1.38% |
| Ce 413.764† | -22.0 | -0.0091077 | mg/L | 0.00069470 | -0.0091077 | mg/L | 0.00069470 | 7.63% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 31
Autosampler Location: 98
Sample ID: AD26083-022
Date Collected: 9/29/2021 5:09:59 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-022

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93538.2 | 100.0 | % | 0.85 | 100.0 | % | 0.85 | 0.85% |
| Y 371.029 | 35932.2 | 98.3 | % | 0.87 | 98.3 | % | 0.87 | 0.88% |
| Al 308.215† | 18.3 | 0.0369017 | mg/L | 0.00783150 | 0.0369017 | mg/L | 0.00783150 | 21.22% |
| Ba 233.527† | 780.0 | 0.164484 | mg/L | 0.0010020 | 0.164484 | mg/L | 0.0010020 | 0.61% |
| Ca 315.887† | 155002.0 | 29.3619 | mg/L | 0.03889 | 29.3619 | mg/L | 0.03889 | 0.13% |
| Cu 327.393† | 13.9 | 0.0094996 | mg/L | 0.00451622 | 0.0094996 | mg/L | 0.00451622 | 47.54% |
| Fe 273.955† | 270.0 | 0.217091 | mg/L | 0.0066220 | 0.217091 | mg/L | 0.0066220 | 3.05% |
| K 766.490† | 4107.7 | 2.38843 | mg/L | 0.045517 | 2.38843 | mg/L | 0.045517 | 1.91% |
| Mg 279.077† | 5987.8 | 8.97771 | mg/L | 0.156791 | 8.97771 | mg/L | 0.156791 | 1.75% |
| Mn 257.610† | 4974.5 | 0.166710 | mg/L | 0.0025862 | 0.166710 | mg/L | 0.0025862 | 1.55% |
| Mo 202.031† | 0.1 | 0.0033706 | mg/L | 0.00185448 | 0.0033706 | mg/L | 0.00185448 | 55.02% |
| Na 589.592† | 167560.7 | 17.0860 | mg/L | 0.04245 | 17.0860 | mg/L | 0.04245 | 0.25% |
| Ni 231.604† | 2.8 | 0.0005591 | mg/L | 0.00084597 | 0.0005591 | mg/L | 0.00084597 | 151.32% |
| Se 196.026† | 2.5 | 0.0042378 | mg/L | 0.01364195 | 0.0042378 | mg/L | 0.01364195 | 321.91% |
| Sn 189.927† | -5.1 | -0.0128402 | mg/L | 0.00539605 | -0.0128402 | mg/L | 0.00539605 | 42.02% |
| Ti 334.940† | -155.6 | 0.0010038 | mg/L | 0.00039747 | 0.0010038 | mg/L | 0.00039747 | 39.60% |
| V 290.880† | 89.1 | 0.0073322 | mg/L | 0.00163518 | 0.0073322 | mg/L | 0.00163518 | 22.30% |
| Zn 206.200† | 143.4 | 0.0377415 | mg/L | 0.00100156 | 0.0377415 | mg/L | 0.00100156 | 2.65% |
| Si 251.611† | 16626.2 | 6.03312 | mg/L | 0.102935 | 6.03312 | mg/L | 0.102935 | 1.71% |
| B 249.772† | 421.7 | 0.0567619 | mg/L | 0.00069703 | 0.0567619 | mg/L | 0.00069703 | 1.23% |
| Ce 413.764† | 5.6 | -0.0030819 | mg/L | 0.01368981 | -0.0030819 | mg/L | 0.01368981 | 444.19% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 32 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/29/2021 5:14:08 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92917.0 | 99.3 | % | 0.21 | 99.3 | % | 0.21 | 0.21% |
| Y 371.029 | 35688.4 | 97.7 | % | 0.54 | 97.7 | % | 0.54 | 0.55% |
| Al 308.215† | 4671.0 | 4.98227 | mg/L | 0.039241 | 4.98227 | mg/L | 0.039241 | 0.79% |
| QC value within limits for Al 308.215 Recovery = 99.65% | | | | | | | | |
| Ba 233.527† | 2356.4 | 0.494258 | mg/L | 0.0017855 | 0.494258 | mg/L | 0.0017855 | 0.36% |
| QC value within limits for Ba 233.527 Recovery = 98.85% | | | | | | | | |
| Ca 315.887† | 256801.1 | 48.6858 | mg/L | 0.01557 | 48.6858 | mg/L | 0.01557 | 0.03% |
| QC value within limits for Ca 315.887 Recovery = 97.37% | | | | | | | | |
| Cu 327.393† | 2493.4 | 0.528860 | mg/L | 0.0060150 | 0.528860 | mg/L | 0.0060150 | 1.14% |
| QC value within limits for Cu 327.393 Recovery = 105.77% | | | | | | | | |
| Fe 273.955† | 5804.3 | 4.92673 | mg/L | 0.060518 | 4.92673 | mg/L | 0.060518 | 1.23% |
| QC value within limits for Fe 273.955 Recovery = 98.53% | | | | | | | | |
| K 766.490† | 92511.0 | 48.2562 | mg/L | 0.11493 | 48.2562 | mg/L | 0.11493 | 0.24% |
| QC value within limits for K 766.490 Recovery = 96.51% | | | | | | | | |
| Mg 279.077† | 32428.2 | 49.1291 | mg/L | 0.31418 | 49.1291 | mg/L | 0.31418 | 0.64% |
| QC value within limits for Mg 279.077 Recovery = 98.26% | | | | | | | | |
| Mn 257.610† | 14410.6 | 0.489645 | mg/L | 0.0027649 | 0.489645 | mg/L | 0.0027649 | 0.56% |
| QC value within limits for Mn 257.610 Recovery = 97.93% | | | | | | | | |
| Mo 202.031† | 695.8 | 0.487501 | mg/L | 0.0029324 | 0.487501 | mg/L | 0.0029324 | 0.60% |
| QC value within limits for Mo 202.031 Recovery = 97.50% | | | | | | | | |
| Na 589.592† | 477546.8 | 48.6495 | mg/L | 0.09504 | 48.6495 | mg/L | 0.09504 | 0.20% |
| QC value within limits for Na 589.592 Recovery = 97.30% | | | | | | | | |
| Ni 231.604† | 952.2 | 0.491815 | mg/L | 0.0058041 | 0.491815 | mg/L | 0.0058041 | 1.18% |
| QC value within limits for Ni 231.604 Recovery = 98.36% | | | | | | | | |
| Se 196.026† | 133.4 | 0.479043 | mg/L | 0.0286864 | 0.479043 | mg/L | 0.0286864 | 5.99% |
| QC value within limits for Se 196.026 Recovery = 95.81% | | | | | | | | |
| Sn 189.927† | 155.3 | 0.489555 | mg/L | 0.0100212 | 0.489555 | mg/L | 0.0100212 | 2.05% |
| QC value within limits for Sn 189.927 Recovery = 97.91% | | | | | | | | |
| Ti 334.940† | 22375.3 | 0.498490 | mg/L | 0.0027297 | 0.498490 | mg/L | 0.0027297 | 0.55% |
| QC value within limits for Ti 334.940 Recovery = 99.70% | | | | | | | | |
| V 290.880† | 4207.7 | 0.477428 | mg/L | 0.0052851 | 0.477428 | mg/L | 0.0052851 | 1.11% |
| QC value within limits for V 290.880 Recovery = 95.49% | | | | | | | | |
| Zn 206.200† | 1822.8 | 0.487618 | mg/L | 0.0042253 | 0.487618 | mg/L | 0.0042253 | 0.87% |
| QC value within limits for Zn 206.200 Recovery = 97.52% | | | | | | | | |
| Si 251.611† | 13522.5 | 4.89869 | mg/L | 0.027765 | 4.89869 | mg/L | 0.027765 | 0.57% |
| QC value within limits for Si 251.611 Recovery = 97.97% | | | | | | | | |
| B 249.772† | 3446.4 | 0.467091 | mg/L | 0.0011854 | 0.467091 | mg/L | 0.0011854 | 0.25% |
| QC value within limits for B 249.772 Recovery = 93.42% | | | | | | | | |
| Ce 413.764† | 2186.9 | 0.474028 | mg/L | 0.0107895 | 0.474028 | mg/L | 0.0107895 | 2.28% |
| QC value within limits for Ce 413.764 Recovery = 94.81% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 33
Autosampler Location: 2
Sample ID: CCB V-352951
Date Collected: 9/29/2021 5:18:16 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92934.8 | 99.3 | % | 0.77 | 99.3 | % | 0.77 | 0.78% |
| Y 371.029 | 37171.4 | 102 | % | 0.66 | 102 | % | 0.66 | 0.65% |
| Al 308.215† | 5.2 | 0.0222020 | mg/L | 0.01108247 | 0.0222020 | mg/L | 0.01108247 | 49.92% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 1.0 | 0.0003419 | mg/L | 0.00043508 | 0.0003419 | mg/L | 0.00043508 | 127.27% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -26.3 | -0.0662414 | mg/L | 0.00614514 | -0.0662414 | mg/L | 0.00614514 | 9.28% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 49.0 | 0.0030616 | mg/L | 0.00184867 | 0.0030616 | mg/L | 0.00184867 | 60.38% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 9.2 | -0.0048947 | mg/L | 0.00131480 | -0.0048947 | mg/L | 0.00131480 | 26.86% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -115.4 | 0.197296 | mg/L | 0.0076844 | 0.197296 | mg/L | 0.0076844 | 3.89% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 6.5 | -0.105137 | mg/L | 0.0154258 | -0.105137 | mg/L | 0.0154258 | 14.67% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -2.1 | -0.0013322 | mg/L | 0.00034402 | -0.0013322 | mg/L | 0.00034402 | 25.82% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -1.0 | 0.0025802 | mg/L | 0.00215742 | 0.0025802 | mg/L | 0.00215742 | 83.61% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -57.8 | 0.0186931 | mg/L | 0.00799011 | 0.0186931 | mg/L | 0.00799011 | 42.74% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -6.1 | -0.0041513 | mg/L | 0.00406885 | -0.0041513 | mg/L | 0.00406885 | 98.01% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 1.8 | 0.0014043 | mg/L | 0.01124008 | 0.0014043 | mg/L | 0.01124008 | 800.42% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.3 | -0.0086938 | mg/L | 0.00755723 | -0.0086938 | mg/L | 0.00755723 | 86.93% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 28.2 | 0.0002542 | mg/L | 0.00070539 | 0.0002542 | mg/L | 0.00070539 | 277.52% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 2.4 | 0.0007488 | mg/L | 0.00043342 | 0.0007488 | mg/L | 0.00043342 | 57.88% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -3.0 | -0.0014825 | mg/L | 0.00122641 | -0.0014825 | mg/L | 0.00122641 | 82.73% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 10.9 | -0.0397931 | mg/L | 0.00172294 | -0.0397931 | mg/L | 0.00172294 | 4.33% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 6.4 | -0.0012996 | mg/L | 0.00128756 | -0.0012996 | mg/L | 0.00128756 | 99.07% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -45.1 | -0.0141617 | mg/L | 0.00767175 | -0.0141617 | mg/L | 0.00767175 | 54.17% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 34
Autosampler Location: 99
Sample ID: AD26083-024
Date Collected: 9/29/2021 5:22:08 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-024

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93410.0 | 99.8 | % | 0.74 | 99.8 | % | 0.74 | 0.74% |
| Y 371.029 | 36488.2 | 99.8 | % | 0.41 | 99.8 | % | 0.41 | 0.41% |
| Al 308.215† | 12.9 | 0.0313022 | mg/L | 0.00958997 | 0.0313022 | mg/L | 0.00958997 | 30.64% |
| Ba 233.527† | 729.6 | 0.153892 | mg/L | 0.0003062 | 0.153892 | mg/L | 0.0003062 | 0.20% |
| Ca 315.887† | 144966.3 | 27.4569 | mg/L | 0.04405 | 27.4569 | mg/L | 0.04405 | 0.16% |
| Cu 327.393† | -18.4 | 0.0019780 | mg/L | 0.00214316 | 0.0019780 | mg/L | 0.00214316 | 108.35% |
| Fe 273.955† | 197.4 | 0.155301 | mg/L | 0.0061317 | 0.155301 | mg/L | 0.0061317 | 3.95% |
| K 766.490† | 3773.5 | 2.21502 | mg/L | 0.039564 | 2.21502 | mg/L | 0.039564 | 1.79% |
| Mg 279.077† | 5681.1 | 8.51209 | mg/L | 0.049095 | 8.51209 | mg/L | 0.049095 | 0.58% |
| Mn 257.610† | 4703.3 | 0.157559 | mg/L | 0.0008970 | 0.157559 | mg/L | 0.0008970 | 0.57% |
| Mo 202.031† | 0.3 | 0.0035143 | mg/L | 0.00092788 | 0.0035143 | mg/L | 0.00092788 | 26.40% |
| Na 589.592† | 154079.3 | 15.7133 | mg/L | 0.03274 | 15.7133 | mg/L | 0.03274 | 0.21% |
| Ni 231.604† | 0.4 | -0.0007024 | mg/L | 0.00424953 | -0.0007024 | mg/L | 0.00424953 | 605.00% |
| Se 196.026† | -4.6 | -0.0212222 | mg/L | 0.00790720 | -0.0212222 | mg/L | 0.00790720 | 37.26% |
| Sn 189.927† | -2.2 | -0.0042124 | mg/L | 0.00634866 | -0.0042124 | mg/L | 0.00634866 | 150.72% |
| Ti 334.940† | -177.0 | 0.0002246 | mg/L | 0.00005807 | 0.0002246 | mg/L | 0.00005807 | 25.85% |
| V 290.880† | 93.3 | 0.0080156 | mg/L | 0.00106998 | 0.0080156 | mg/L | 0.00106998 | 13.35% |
| Zn 206.200† | 61.4 | 0.0157827 | mg/L | 0.00117340 | 0.0157827 | mg/L | 0.00117340 | 7.43% |
| Si 251.611† | 15713.3 | 5.69943 | mg/L | 0.048948 | 5.69943 | mg/L | 0.048948 | 0.86% |
| B 249.772† | 391.1 | 0.0526700 | mg/L | 0.00038958 | 0.0526700 | mg/L | 0.00038958 | 0.74% |
| Ce 413.764† | -38.8 | -0.0127828 | mg/L | 0.00892160 | -0.0127828 | mg/L | 0.00892160 | 69.79% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 35 Autosampler Location: 100
Sample ID: AD26083-029 Date Collected: 9/29/2021 5:26:14 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-029

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90860.6 | 97.1 | % | 0.63 | 97.1 | % | 0.63 | 0.65% |
| Y 371.029 | 34974.9 | 95.7 | % | 0.61 | 95.7 | % | 0.61 | 0.63% |
| Al 308.215† | 139.9 | 0.170903 | mg/L | 0.0066609 | 0.170903 | mg/L | 0.0066609 | 3.90% |
| Ba 233.527† | 5988.9 | 1.26273 | mg/L | 0.011442 | 1.26273 | mg/L | 0.011442 | 0.91% |
| Ca 315.887† | 1004095.2 | 190.540 | mg/L | 2.0031 | 190.540 | mg/L | 2.0031 | 1.05% |
| Cu 327.393† | -261.9 | 0.0276068 | mg/L | 0.00085502 | 0.0276068 | mg/L | 0.00085502 | 3.10% |
| Fe 273.955† | 468.3 | 0.385812 | mg/L | 0.0070729 | 0.385812 | mg/L | 0.0070729 | 1.83% |
| K 766.490† | 11423.0 | 6.18394 | mg/L | 0.014776 | 6.18394 | mg/L | 0.014776 | 0.24% |
| Mg 279.077† | 37165.2 | 56.3224 | mg/L | 0.04440 | 56.3224 | mg/L | 0.04440 | 0.08% |
| Mn 257.610† | 18302.2 | 0.621069 | mg/L | 0.0010494 | 0.621069 | mg/L | 0.0010494 | 0.17% |
| Mo 202.031† | -8.1 | -0.0023711 | mg/L | 0.00229443 | -0.0023711 | mg/L | 0.00229443 | 96.76% |
| Na 589.592† | 1649477.3 | 167.978 | mg/L | 1.5643 | 167.978 | mg/L | 1.5643 | 0.93% |
| Ni 231.604† | -9.2 | -0.0056121 | mg/L | 0.00273450 | -0.0056121 | mg/L | 0.00273450 | 48.72% |
| Se 196.026† | 4.9 | 0.0128849 | mg/L | 0.01387737 | 0.0128849 | mg/L | 0.01387737 | 107.70% |
| Sn 189.927† | -30.5 | -0.0663441 | mg/L | 0.01901946 | -0.0663441 | mg/L | 0.01901946 | 28.67% |
| Ti 334.940† | -1028.5 | 0.0080514 | mg/L | 0.00031212 | 0.0080514 | mg/L | 0.00031212 | 3.88% |
| V 290.880† | 585.2 | 0.0468438 | mg/L | 0.00150087 | 0.0468438 | mg/L | 0.00150087 | 3.20% |
| Zn 206.200† | 94.5 | 0.0246524 | mg/L | 0.00047567 | 0.0246524 | mg/L | 0.00047567 | 1.93% |
| Si 251.611† | 14930.5 | 5.41332 | mg/L | 0.003874 | 5.41332 | mg/L | 0.003874 | 0.07% |
| B 249.772† | 1549.4 | 0.216162 | mg/L | 0.0022408 | 0.216162 | mg/L | 0.0022408 | 1.04% |
| Ce 413.764† | -11.1 | -0.0067260 | mg/L | 0.01253038 | -0.0067260 | mg/L | 0.01253038 | 186.30% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 36
Autosampler Location: 101
Sample ID: AD26083-031
Date Collected: 9/29/2021 5:30:24 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-031

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90897.8 | 97.1 | % | 0.24 | 97.1 | % | 0.24 | 0.24% |
| Y 371.029 | 36085.4 | 98.7 | % | 0.21 | 98.7 | % | 0.21 | 0.21% |
| Al 308.215† | -4.5 | 0.0126876 | mg/L | 0.00473698 | 0.0126876 | mg/L | 0.00473698 | 37.34% |
| Ba 233.527† | 429.4 | 0.0906626 | mg/L | 0.00074924 | 0.0906626 | mg/L | 0.00074924 | 0.83% |
| Ca 315.887† | 25327.1 | 4.74644 | mg/L | 0.009039 | 4.74644 | mg/L | 0.009039 | 0.19% |
| Cu 327.393† | 57.3 | 0.0070043 | mg/L | 0.00269473 | 0.0070043 | mg/L | 0.00269473 | 38.47% |
| Fe 273.955† | 26.7 | 0.0100332 | mg/L | 0.00168516 | 0.0100332 | mg/L | 0.00168516 | 16.80% |
| K 766.490† | 12052.4 | 6.51050 | mg/L | 0.020789 | 6.51050 | mg/L | 0.020789 | 0.32% |
| Mg 279.077† | 3150.8 | 4.66963 | mg/L | 0.059253 | 4.66963 | mg/L | 0.059253 | 1.27% |
| Mn 257.610† | 943.3 | 0.0311628 | mg/L | 0.00025786 | 0.0311628 | mg/L | 0.00025786 | 0.83% |
| Mo 202.031† | -2.5 | 0.0015773 | mg/L | 0.00102575 | 0.0015773 | mg/L | 0.00102575 | 65.03% |
| Na 589.592† | 647802.8 | 65.9853 | mg/L | 0.07707 | 65.9853 | mg/L | 0.07707 | 0.12% |
| Ni 231.604† | -4.0 | -0.0030255 | mg/L | 0.00692897 | -0.0030255 | mg/L | 0.00692897 | 229.02% |
| Se 196.026† | 1.2 | -0.0004335 | mg/L | 0.01261565 | -0.0004335 | mg/L | 0.01261565 | >999.9% |
| Sn 189.927† | -1.0 | -0.0034431 | mg/L | 0.01006707 | -0.0034431 | mg/L | 0.01006707 | 292.38% |
| Ti 334.940† | -4.3 | 0.0003238 | mg/L | 0.00079941 | 0.0003238 | mg/L | 0.00079941 | 246.85% |
| V 290.880† | 62.4 | 0.0059146 | mg/L | 0.00096030 | 0.0059146 | mg/L | 0.00096030 | 16.24% |
| Zn 206.200† | 14.6 | 0.0032473 | mg/L | 0.00144141 | 0.0032473 | mg/L | 0.00144141 | 44.39% |
| Si 251.611† | 12606.2 | 4.56381 | mg/L | 0.003657 | 4.56381 | mg/L | 0.003657 | 0.08% |
| B 249.772† | 713.7 | 0.0990554 | mg/L | 0.00071338 | 0.0990554 | mg/L | 0.00071338 | 0.72% |
| Ce 413.764† | -47.5 | -0.0146972 | mg/L | 0.00578925 | -0.0146972 | mg/L | 0.00578925 | 39.39% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 37
Autosampler Location: 102
Sample ID: AD26083-037
Date Collected: 9/29/2021 5:34:32 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-037

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 84733.9 | 90.6 | % | 0.31 | 90.6 | % | 0.31 | 0.34% |
| Y 371.029 | 32207.9 | 88.1 | % | 0.38 | 88.1 | % | 0.38 | 0.43% |
| Al 308.215† | 33.1 | 0.0767383 | mg/L | 0.00209990 | 0.0767383 | mg/L | 0.00209990 | 2.74% |
| Ba 233.527† | 199.5 | 0.0410774 | mg/L | 0.00095516 | 0.0410774 | mg/L | 0.00095516 | 2.33% |
| Ca 315.887† | 3997257.9 | 758.716 | mg/L | 4.9294 | 758.716 | mg/L | 4.9294 | 0.65% |
| Cu 327.393† | -1133.4 | 0.112172 | mg/L | 0.0037571 | 0.112172 | mg/L | 0.0037571 | 3.35% |
| Fe 273.955† | 2380.3 | 2.01294 | mg/L | 0.005397 | 2.01294 | mg/L | 0.005397 | 0.27% |
| K 766.490† | 59606.2 | 31.1836 | mg/L | 0.48282 | 31.1836 | mg/L | 0.48282 | 1.55% |
| Mg 279.077† | 174166.1 | 264.366 | mg/L | 1.6068 | 264.366 | mg/L | 1.6068 | 0.61% |
| Mn 257.610† | 135153.5 | 4.56573 | mg/L | 0.008444 | 4.56573 | mg/L | 0.008444 | 0.18% |
| Mo 202.031† | -15.9 | -0.0077516 | mg/L | 0.00641178 | -0.0077516 | mg/L | 0.00641178 | 82.72% |
| Na 589.592† | 19521834.9 | 1987.78 | mg/L | 14.522 | 1987.78 | mg/L | 14.522 | 0.73% |
| Ni 231.604† | -26.8 | -0.0140499 | mg/L | 0.00391262 | -0.0140499 | mg/L | 0.00391262 | 27.85% |
| Se 196.026† | -1.1 | -0.0070331 | mg/L | 0.02148401 | -0.0070331 | mg/L | 0.02148401 | 305.47% |
| Sn 189.927† | -110.2 | -0.219116 | mg/L | 0.0110715 | -0.219116 | mg/L | 0.0110715 | 5.05% |
| Ti 334.940† | -6283.6 | -0.0148998 | mg/L | 0.00169517 | -0.0148998 | mg/L | 0.00169517 | 11.38% |
| V 290.880† | 2300.5 | 0.165595 | mg/L | 0.0037798 | 0.165595 | mg/L | 0.0037798 | 2.28% |
| Zn 206.200† | 116.1 | 0.0304408 | mg/L | 0.00057139 | 0.0304408 | mg/L | 0.00057139 | 1.88% |
| Si 251.611† | 18126.4 | 6.58144 | mg/L | 0.019482 | 6.58144 | mg/L | 0.019482 | 0.30% |
| B 249.772† | 2622.1 | 0.361862 | mg/L | 0.0019373 | 0.361862 | mg/L | 0.0019373 | 0.54% |
| Ce 413.764† | -36.9 | -0.0123716 | mg/L | 0.00631694 | -0.0123716 | mg/L | 0.00631694 | 51.06% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 38 Autosampler Location: 103
Sample ID: AD26083-047 Date Collected: 9/29/2021 5:40:20 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-047

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93433.0 | 99.9 | % | 0.77 | 99.9 | % | 0.77 | 0.77% |
| Y 371.029 | 36295.5 | 99.3 | % | 0.26 | 99.3 | % | 0.26 | 0.26% |
| Al 308.215† | 19.5 | 0.0377737 | mg/L | 0.00489259 | 0.0377737 | mg/L | 0.00489259 | 12.95% |
| Ba 233.527† | 160.3 | 0.0339255 | mg/L | 0.00054353 | 0.0339255 | mg/L | 0.00054353 | 1.60% |
| Ca 315.887† | 43221.3 | 8.14321 | mg/L | 0.097733 | 8.14321 | mg/L | 0.097733 | 1.20% |
| Cu 327.393† | 53.2 | 0.0077459 | mg/L | 0.00277294 | 0.0077459 | mg/L | 0.00277294 | 35.80% |
| Fe 273.955† | 17.7 | 0.0023955 | mg/L | 0.00147436 | 0.0023955 | mg/L | 0.00147436 | 61.55% |
| K 766.490† | 41911.4 | 22.0028 | mg/L | 0.06897 | 22.0028 | mg/L | 0.06897 | 0.31% |
| Mg 279.077† | 964.6 | 1.34984 | mg/L | 0.009047 | 1.34984 | mg/L | 0.009047 | 0.67% |
| Mn 257.610† | 306.5 | 0.0092551 | mg/L | 0.00042064 | 0.0092551 | mg/L | 0.00042064 | 4.54% |
| Mo 202.031† | -2.0 | 0.0019039 | mg/L | 0.00323063 | 0.0019039 | mg/L | 0.00323063 | 169.68% |
| Na 589.592† | 243338.7 | 24.8019 | mg/L | 0.13862 | 24.8019 | mg/L | 0.13862 | 0.56% |
| Ni 231.604† | 23.9 | 0.0113779 | mg/L | 0.00289034 | 0.0113779 | mg/L | 0.00289034 | 25.40% |
| Se 196.026† | 0.4 | -0.0034610 | mg/L | 0.02755890 | -0.0034610 | mg/L | 0.02755890 | 796.27% |
| Sn 189.927† | 0.3 | 0.0003018 | mg/L | 0.00242276 | 0.0003018 | mg/L | 0.00242276 | 802.80% |
| Ti 334.940† | -42.9 | 0.0000281 | mg/L | 0.00057704 | 0.0000281 | mg/L | 0.00057704 | >999.9% |
| V 290.880† | 31.9 | 0.0036490 | mg/L | 0.00212114 | 0.0036490 | mg/L | 0.00212114 | 58.13% |
| Zn 206.200† | 66.2 | 0.0170612 | mg/L | 0.00186661 | 0.0170612 | mg/L | 0.00186661 | 10.94% |
| Si 251.611† | 7341.4 | 2.63951 | mg/L | 0.027351 | 2.63951 | mg/L | 0.027351 | 1.04% |
| B 249.772† | 152.6 | 0.0194359 | mg/L | 0.00078367 | 0.0194359 | mg/L | 0.00078367 | 4.03% |
| Ce 413.764† | -73.1 | -0.0202986 | mg/L | 0.00732606 | -0.0202986 | mg/L | 0.00732606 | 36.09% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)

Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 39
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75

Autosampler Location: 6
Date Collected: 9/29/2021 5:44:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92226.3 | 98.6 | % | 0.73 | 98.6 | % | 0.73 | 0.74% |
| Y 371.029 | 35347.9 | 96.7 | % | 0.76 | 96.7 | % | 0.76 | 0.78% |
| Al 308.215† | 4652.7 | 4.96273 | mg/L | 0.095979 | 4.96273 | mg/L | 0.095979 | 1.93% |
| QC value within limits for Al 308.215 Recovery = 99.25% | | | | | | | | |
| Ba 233.527† | 2365.3 | 0.496160 | mg/L | 0.0051707 | 0.496160 | mg/L | 0.0051707 | 1.04% |
| QC value within limits for Ba 233.527 Recovery = 99.23% | | | | | | | | |
| Ca 315.887† | 256270.2 | 48.5851 | mg/L | 0.06682 | 48.5851 | mg/L | 0.06682 | 0.14% |
| QC value within limits for Ca 315.887 Recovery = 97.17% | | | | | | | | |
| Cu 327.393† | 2507.7 | 0.531763 | mg/L | 0.0079300 | 0.531763 | mg/L | 0.0079300 | 1.49% |
| QC value within limits for Cu 327.393 Recovery = 106.35% | | | | | | | | |
| Fe 273.955† | 5743.5 | 4.87496 | mg/L | 0.089889 | 4.87496 | mg/L | 0.089889 | 1.84% |
| QC value within limits for Fe 273.955 Recovery = 97.50% | | | | | | | | |
| K 766.490† | 92380.4 | 48.1884 | mg/L | 0.10458 | 48.1884 | mg/L | 0.10458 | 0.22% |
| QC value within limits for K 766.490 Recovery = 96.38% | | | | | | | | |
| Mg 279.077† | 32155.0 | 48.7141 | mg/L | 0.89086 | 48.7141 | mg/L | 0.89086 | 1.83% |
| QC value within limits for Mg 279.077 Recovery = 97.43% | | | | | | | | |
| Mn 257.610† | 14248.6 | 0.484154 | mg/L | 0.0094117 | 0.484154 | mg/L | 0.0094117 | 1.94% |
| QC value within limits for Mn 257.610 Recovery = 96.83% | | | | | | | | |
| Mo 202.031† | 696.1 | 0.487650 | mg/L | 0.0062800 | 0.487650 | mg/L | 0.0062800 | 1.29% |
| QC value within limits for Mo 202.031 Recovery = 97.53% | | | | | | | | |
| Na 589.592† | 477784.4 | 48.6737 | mg/L | 0.15418 | 48.6737 | mg/L | 0.15418 | 0.32% |
| QC value within limits for Na 589.592 Recovery = 97.35% | | | | | | | | |
| Ni 231.604† | 957.8 | 0.494704 | mg/L | 0.0070826 | 0.494704 | mg/L | 0.0070826 | 1.43% |
| QC value within limits for Ni 231.604 Recovery = 98.94% | | | | | | | | |
| Se 196.026† | 132.5 | 0.475707 | mg/L | 0.0162751 | 0.475707 | mg/L | 0.0162751 | 3.42% |
| QC value within limits for Se 196.026 Recovery = 95.14% | | | | | | | | |
| Sn 189.927† | 153.5 | 0.483965 | mg/L | 0.0120953 | 0.483965 | mg/L | 0.0120953 | 2.50% |
| QC value within limits for Sn 189.927 Recovery = 96.79% | | | | | | | | |
| Ti 334.940† | 22129.9 | 0.493089 | mg/L | 0.0086416 | 0.493089 | mg/L | 0.0086416 | 1.75% |
| QC value within limits for Ti 334.940 Recovery = 98.62% | | | | | | | | |
| V 290.880† | 4182.6 | 0.474628 | mg/L | 0.0125623 | 0.474628 | mg/L | 0.0125623 | 2.65% |
| QC value within limits for V 290.880 Recovery = 94.93% | | | | | | | | |
| Zn 206.200† | 1827.8 | 0.488970 | mg/L | 0.0053262 | 0.488970 | mg/L | 0.0053262 | 1.09% |
| QC value within limits for Zn 206.200 Recovery = 97.79% | | | | | | | | |
| Si 251.611† | 13417.5 | 4.86032 | mg/L | 0.074884 | 4.86032 | mg/L | 0.074884 | 1.54% |
| QC value within limits for Si 251.611 Recovery = 97.21% | | | | | | | | |
| B 249.772† | 3414.7 | 0.462813 | mg/L | 0.0089673 | 0.462813 | mg/L | 0.0089673 | 1.94% |
| QC value within limits for B 249.772 Recovery = 92.56% | | | | | | | | |
| Ce 413.764† | 2164.2 | 0.469072 | mg/L | 0.0091924 | 0.469072 | mg/L | 0.0091924 | 1.96% |
| QC value within limits for Ce 413.764 Recovery = 93.81% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 40
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 2
Date Collected: 9/29/2021 5:48:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92297.1 | 98.6 | % | 0.63 | 98.6 | % | 0.63 | 0.64% |
| Y 371.029 | 36893.6 | 101 | % | 0.52 | 101 | % | 0.52 | 0.52% |
| Al 308.215† | -0.9 | 0.0158561 | mg/L | 0.01208524 | 0.0158561 | mg/L | 0.01208524 | 76.22% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 0.4 | 0.0002155 | mg/L | 0.00015195 | 0.0002155 | mg/L | 0.00015195 | 70.52% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 48.0 | -0.0521334 | mg/L | 0.00451996 | -0.0521334 | mg/L | 0.00451996 | 8.67% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 22.4 | -0.0024102 | mg/L | 0.00250913 | -0.0024102 | mg/L | 0.00250913 | 104.10% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -7.1 | -0.0187405 | mg/L | 0.00438913 | -0.0187405 | mg/L | 0.00438913 | 23.42% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | 74.9 | 0.296004 | mg/L | 0.0076529 | 0.296004 | mg/L | 0.0076529 | 2.59% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 4.5 | -0.108144 | mg/L | 0.0137492 | -0.108144 | mg/L | 0.0137492 | 12.71% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -2.3 | -0.0013396 | mg/L | 0.00014937 | -0.0013396 | mg/L | 0.00014937 | 11.15% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -0.8 | 0.0027736 | mg/L | 0.00078355 | 0.0027736 | mg/L | 0.00078355 | 28.25% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 2803.5 | 0.310037 | mg/L | 0.0209357 | 0.310037 | mg/L | 0.0209357 | 6.75% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 3.9 | 0.0010153 | mg/L | 0.00590273 | 0.0010153 | mg/L | 0.00590273 | 581.40% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -1.6 | -0.0107193 | mg/L | 0.00707235 | -0.0107193 | mg/L | 0.00707235 | 65.98% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -0.5 | -0.0032326 | mg/L | 0.01322447 | -0.0032326 | mg/L | 0.01322447 | 409.10% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 39.9 | 0.0005122 | mg/L | 0.00047779 | 0.0005122 | mg/L | 0.00047779 | 93.28% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 16.3 | 0.0023941 | mg/L | 0.00043166 | 0.0023941 | mg/L | 0.00043166 | 18.03% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -4.9 | -0.0019770 | mg/L | 0.00047456 | -0.0019770 | mg/L | 0.00047456 | 24.00% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 7.2 | -0.0411606 | mg/L | 0.00316985 | -0.0411606 | mg/L | 0.00316985 | 7.70% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 7.8 | -0.0010350 | mg/L | 0.00121728 | -0.0010350 | mg/L | 0.00121728 | 117.61% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 13.9 | -0.0012560 | mg/L | 0.00238618 | -0.0012560 | mg/L | 0.00238618 | 189.98% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 41
Autosampler Location: 106
Sample ID: AD26083-048 5D
Date Collected: 9/29/2021 5:52:10 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution: 100 CM
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-048 5D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89893.0 | 96.1 | % | 1.29 | 96.1 | % | 1.29 | 1.35% |
| Y 371.029 | 35486.0 | 97.1 | % | 1.19 | 97.1 | % | 1.19 | 1.22% |
| Al 308.215† | 6.3 | 0.0270106 | mg/L | 0.01312540 | 0.0270106 | mg/L | 0.01312540 | 48.59% |
| Ba 233.527† | 179.2 | 0.0364744 | mg/L | 0.00093115 | 0.0364744 | mg/L | 0.00093115 | 2.55% |
| Ca 315.887† | 84369.6 | 15.9542 | mg/L | 0.06572 | 15.9542 | mg/L | 0.06572 | 0.41% |
| Cu 327.393† | 15.7 | 0.0036457 | mg/L | 0.00381398 | 0.0036457 | mg/L | 0.00381398 | 104.61% |
| Fe 273.955† | 3076.2 | 2.60516 | mg/L | 0.010949 | 2.60516 | mg/L | 0.010949 | 0.42% |
| K 766.490† | 17753.6 | 9.46854 | mg/L | 0.012627 | 9.46854 | mg/L | 0.012627 | 0.13% |
| Mg 279.077† | 17595.0 | 26.6040 | mg/L | 0.06181 | 26.6040 | mg/L | 0.06181 | 0.23% |
| Mn 257.610† | 6819.8 | 0.231701 | mg/L | 0.0007007 | 0.231701 | mg/L | 0.0007007 | 0.30% |
| Mo 202.031† | -4.1 | 0.0004677 | mg/L | 0.00108597 | 0.0004677 | mg/L | 0.00108597 | 232.17% |
| Na 589.592† | 2620366.9 | 266.836 | mg/L | 4.2727 | 266.836 | mg/L | 4.2727 | 1.60% |
| Ni 231.604† | -4.5 | -0.0022995 | mg/L | 0.00374689 | -0.0022995 | mg/L | 0.00374689 | 162.94% |
| Se 196.026† | 2.9 | 0.0079566 | mg/L | 0.01640503 | 0.0079566 | mg/L | 0.01640503 | 206.18% |
| Sn 189.927† | -10.3 | -0.0273440 | mg/L | 0.00783984 | -0.0273440 | mg/L | 0.00783984 | 28.67% |
| Ti 334.940† | -101.4 | 0.0000135 | mg/L | 0.00029529 | 0.0000135 | mg/L | 0.00029529 | >999.9% |
| V 290.880† | 334.5 | 0.0292049 | mg/L | 0.00446161 | 0.0292049 | mg/L | 0.00446161 | 15.28% |
| Zn 206.200† | 9.7 | 0.0019155 | mg/L | 0.00091175 | 0.0019155 | mg/L | 0.00091175 | 47.60% |
| Si 251.611† | 2120.3 | 0.731180 | mg/L | 0.0081696 | 0.731180 | mg/L | 0.0081696 | 1.12% |
| B 249.772† | 1113.8 | 0.145351 | mg/L | 0.0034233 | 0.145351 | mg/L | 0.0034233 | 2.36% |
| Ce 413.764† | -36.3 | -0.0122479 | mg/L | 0.00462992 | -0.0122479 | mg/L | 0.00462992 | 37.80% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 42
Autosampler Location: 107
Sample ID: AD26083-048 MR SD
Date Collected: 9/29/2021 5:56:16 PM
Analyst:
Data Type: Original
Initial Sample Wt: 100 gm
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-048 MR SD

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90591.1 | 96.8 | % | 0.29 | 96.8 | % | 0.29 | 0.30% |
| Y 371.029 | 35681.4 | 97.6 | % | 0.28 | 97.6 | % | 0.28 | 0.29% |
| Al 308.215† | 18.4 | 0.0398215 | mg/L | 0.00961573 | 0.0398215 | mg/L | 0.00961573 | 24.15% |
| Ba 233.527† | 171.6 | 0.0349025 | mg/L | 0.00050571 | 0.0349025 | mg/L | 0.00050571 | 1.45% |
| Ca 315.887† | 82983.4 | 15.6910 | mg/L | 0.06216 | 15.6910 | mg/L | 0.06216 | 0.40% |
| Cu 327.393† | -8.5 | -0.0014563 | mg/L | 0.00564248 | -0.0014563 | mg/L | 0.00564248 | 387.46% |
| Fe 273.955† | 3003.8 | 2.54350 | mg/L | 0.015707 | 2.54350 | mg/L | 0.015707 | 0.62% |
| K 766.490† | 17510.9 | 9.34262 | mg/L | 0.031040 | 9.34262 | mg/L | 0.031040 | 0.33% |
| Mg 279.077† | 17282.4 | 26.1292 | mg/L | 0.07475 | 26.1292 | mg/L | 0.07475 | 0.29% |
| Mn 257.610† | 6706.2 | 0.227816 | mg/L | 0.0009609 | 0.227816 | mg/L | 0.0009609 | 0.42% |
| Mo 202.031† | -1.5 | 0.0022367 | mg/L | 0.00257074 | 0.0022367 | mg/L | 0.00257074 | 114.93% |
| Na 589.592† | 2558766.3 | 260.564 | mg/L | 1.7133 | 260.564 | mg/L | 1.7133 | 0.66% |
| Ni 231.604† | 5.9 | 0.0030330 | mg/L | 0.00370305 | 0.0030330 | mg/L | 0.00370305 | 122.09% |
| Se 196.026† | 0.3 | -0.0015420 | mg/L | 0.02233173 | -0.0015420 | mg/L | 0.02233173 | >999.9% |
| Sn 189.927† | -7.0 | -0.0174033 | mg/L | 0.00484563 | -0.0174033 | mg/L | 0.00484563 | 27.84% |
| Ti 334.940† | -89.5 | 0.0002319 | mg/L | 0.00155786 | 0.0002319 | mg/L | 0.00155786 | 671.90% |
| V 290.880† | 336.7 | 0.0296579 | mg/L | 0.00114404 | 0.0296579 | mg/L | 0.00114404 | 3.86% |
| Zn 206.200† | 5.0 | 0.0006620 | mg/L | 0.00215374 | 0.0006620 | mg/L | 0.00215374 | 325.35% |
| Si 251.611† | 2057.2 | 0.708146 | mg/L | 0.0066324 | 0.708146 | mg/L | 0.0066324 | 0.94% |
| B 249.772† | 1083.8 | 0.141352 | mg/L | 0.0007235 | 0.141352 | mg/L | 0.0007235 | 0.51% |
| Ce 413.764† | -56.2 | -0.0165875 | mg/L | 0.00494890 | -0.0165875 | mg/L | 0.00494890 | 29.84% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)

Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 43
Sample ID: AD26083-049 MS 1 5D
Analyst:
Initial Sample Wt: 100 gm
Dilution:
Wash Time (before sample): 75

Autosampler Location: 108
Date Collected: 9/29/2021 6:00:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-049 MS 1 5D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90140.4 | 96.3 | % | 0.63 | 96.3 | % | 0.63 | 0.65% |
| Y 371.029 | 35335.9 | 96.7 | % | 0.76 | 96.7 | % | 0.76 | 0.78% |
| Al 308.215† | 2156.7 | 2.30143 | mg/L | 0.019932 | 2.30143 | mg/L | 0.019932 | 0.87% |
| Ba 233.527† | 402.9 | 0.0828845 | mg/L | 0.00087951 | 0.0828845 | mg/L | 0.00087951 | 1.06% |
| Ca 315.887† | 134764.8 | 25.5204 | mg/L | 0.04163 | 25.5204 | mg/L | 0.04163 | 0.16% |
| Cu 327.393† | 235.6 | 0.0533547 | mg/L | 0.00277860 | 0.0533547 | mg/L | 0.00277860 | 5.21% |
| Fe 273.955† | 4648.0 | 3.94267 | mg/L | 0.003218 | 3.94267 | mg/L | 0.003218 | 0.08% |
| K 766.490† | 25469.4 | 13.4719 | mg/L | 0.02989 | 13.4719 | mg/L | 0.02989 | 0.22% |
| Mg 279.077† | 22231.1 | 33.6442 | mg/L | 0.04483 | 33.6442 | mg/L | 0.04483 | 0.13% |
| Mn 257.610† | 9155.3 | 0.311085 | mg/L | 0.0007425 | 0.311085 | mg/L | 0.0007425 | 0.24% |
| Mo 202.031† | 58.5 | 0.0440344 | mg/L | 0.00121575 | 0.0440344 | mg/L | 0.00121575 | 2.76% |
| Na 589.592† | 2727496.6 | 277.744 | mg/L | 1.1795 | 277.744 | mg/L | 1.1795 | 0.42% |
| Ni 231.604† | 100.1 | 0.0518423 | mg/L | 0.00183767 | 0.0518423 | mg/L | 0.00183767 | 3.54% |
| Se 196.026† | 8.9 | 0.0306334 | mg/L | 0.01220248 | 0.0306334 | mg/L | 0.01220248 | 39.83% |
| Sn 189.927† | 1.8 | 0.0118066 | mg/L | 0.01389089 | 0.0118066 | mg/L | 0.01389089 | 117.65% |
| Ti 334.940† | 4912.3 | 0.111574 | mg/L | 0.0008804 | 0.111574 | mg/L | 0.0008804 | 0.79% |
| V 290.880† | 694.3 | 0.0688576 | mg/L | 0.00484352 | 0.0688576 | mg/L | 0.00484352 | 7.03% |
| Zn 206.200† | 197.9 | 0.0523446 | mg/L | 0.00093258 | 0.0523446 | mg/L | 0.00093258 | 1.78% |
| Si 251.611† | 10790.3 | 3.90007 | mg/L | 0.012766 | 3.90007 | mg/L | 0.012766 | 0.33% |
| B 249.772† | 1373.0 | 0.176748 | mg/L | 0.0013531 | 0.176748 | mg/L | 0.0013531 | 0.77% |
| Ce 413.764† | 195.8 | 0.0385126 | mg/L | 0.00372192 | 0.0385126 | mg/L | 0.00372192 | 9.66% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 44
Autosampler Location: 109
Sample ID: AD26083-050 MS 2 5D
Date Collected: 9/29/2021 6:04:27 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-050 MS 2 5D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90823.1 | 97.1 | % | 0.37 | 97.1 | % | 0.37 | 0.38% |
| Y 371.029 | 35461.9 | 97.0 | % | 0.22 | 97.0 | % | 0.22 | 0.23% |
| Al 308.215† | 3004.3 | 3.19729 | mg/L | 0.033527 | 3.19729 | mg/L | 0.033527 | 1.05% |
| Ba 233.527† | 408.5 | 0.0834849 | mg/L | 0.00055308 | 0.0834849 | mg/L | 0.00055308 | 0.66% |
| Ca 315.887† | 144714.0 | 27.4090 | mg/L | 0.00875 | 27.4090 | mg/L | 0.00875 | 0.03% |
| Cu 327.393† | 244.0 | 0.0559588 | mg/L | 0.00299505 | 0.0559588 | mg/L | 0.00299505 | 5.35% |
| Fe 273.955† | 5893.3 | 5.00245 | mg/L | 0.012143 | 5.00245 | mg/L | 0.012143 | 0.24% |
| K 766.490† | 24686.9 | 13.0659 | mg/L | 0.01013 | 13.0659 | mg/L | 0.01013 | 0.08% |
| Mg 279.077† | 22579.1 | 34.1725 | mg/L | 0.06313 | 34.1725 | mg/L | 0.06313 | 0.18% |
| Mn 257.610† | 9810.8 | 0.333094 | mg/L | 0.0012393 | 0.333094 | mg/L | 0.0012393 | 0.37% |
| Mo 202.031† | 57.7 | 0.0434609 | mg/L | 0.00127584 | 0.0434609 | mg/L | 0.00127584 | 2.94% |
| Na 589.592† | 2677176.3 | 272.621 | mg/L | 1.0882 | 272.621 | mg/L | 1.0882 | 0.40% |
| Ni 231.604† | 95.2 | 0.0495889 | mg/L | 0.00077516 | 0.0495889 | mg/L | 0.00077516 | 1.56% |
| Se 196.026† | 13.7 | 0.0490501 | mg/L | 0.01112547 | 0.0490501 | mg/L | 0.01112547 | 22.68% |
| Sn 189.927† | 2.2 | 0.0132944 | mg/L | 0.01108085 | 0.0132944 | mg/L | 0.01108085 | 83.35% |
| Ti 334.940† | 6442.4 | 0.145452 | mg/L | 0.0030514 | 0.145452 | mg/L | 0.0030514 | 2.10% |
| V 290.880† | 725.9 | 0.0723721 | mg/L | 0.00716928 | 0.0723721 | mg/L | 0.00716928 | 9.91% |
| Zn 206.200† | 204.2 | 0.0540406 | mg/L | 0.00085460 | 0.0540406 | mg/L | 0.00085460 | 1.58% |
| Si 251.611† | 14762.8 | 5.35205 | mg/L | 0.028014 | 5.35205 | mg/L | 0.028014 | 0.52% |
| B 249.772† | 1339.6 | 0.167724 | mg/L | 0.0006036 | 0.167724 | mg/L | 0.0006036 | 0.36% |
| Ce 413.764† | 207.9 | 0.0411701 | mg/L | 0.00928397 | 0.0411701 | mg/L | 0.00928397 | 22.55% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 45
Autosampler Location: 110
Sample ID: AD26083-048 PS 5D
Date Collected: 9/29/2021 6:08:31 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-048 PS 5D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89690.1 | 95.9 | % | 0.59 | 95.9 | % | 0.59 | 0.62% |
| Y 371.029 | 34213.5 | 93.6 | % | 0.56 | 93.6 | % | 0.56 | 0.60% |
| Al 308.215† | 5205.5 | 5.55371 | mg/L | 0.295934 | 5.55371 | mg/L | 0.295934 | 5.33% |
| Ba 233.527† | 2709.5 | 0.567003 | mg/L | 0.0227675 | 0.567003 | mg/L | 0.0227675 | 4.02% |
| Ca 315.887† | 387530.0 | 73.5014 | mg/L | 5.27569 | 73.5014 | mg/L | 5.27569 | 7.18% |
| Cu 327.393† | 2814.9 | 0.606563 | mg/L | 0.0225694 | 0.606563 | mg/L | 0.0225694 | 3.72% |
| Fe 273.955† | 9418.1 | 8.00198 | mg/L | 0.330837 | 8.00198 | mg/L | 0.330837 | 4.13% |
| K 766.490† | 133681.3 | 69.6173 | mg/L | 5.39376 | 69.6173 | mg/L | 5.39376 | 7.75% |
| Mg 279.077† | 55279.9 | 83.8305 | mg/L | 6.13551 | 83.8305 | mg/L | 6.13551 | 7.32% |
| Mn 257.610† | 22831.1 | 0.777612 | mg/L | 0.0329639 | 0.777612 | mg/L | 0.0329639 | 4.24% |
| Mo 202.031† | 764.2 | 0.535044 | mg/L | 0.0250050 | 0.535044 | mg/L | 0.0250050 | 4.67% |
| Na 589.592† | 3295164.5 | 335.546 | mg/L | 12.0388 | 335.546 | mg/L | 12.0388 | 3.59% |
| Ni 231.604† | 1028.9 | 0.532528 | mg/L | 0.0264201 | 0.532528 | mg/L | 0.0264201 | 4.96% |
| Se 196.026† | 146.7 | 0.529663 | mg/L | 0.0231537 | 0.529663 | mg/L | 0.0231537 | 4.37% |
| Sn 189.927† | 155.7 | 0.498860 | mg/L | 0.0391729 | 0.498860 | mg/L | 0.0391729 | 7.85% |
| Ti 334.940† | 24571.9 | 0.550719 | mg/L | 0.0245366 | 0.550719 | mg/L | 0.0245366 | 4.46% |
| V 290.880† | 4930.8 | 0.548823 | mg/L | 0.0283785 | 0.548823 | mg/L | 0.0283785 | 5.17% |
| Zn 206.200† | 1997.5 | 0.534421 | mg/L | 0.0232759 | 0.534421 | mg/L | 0.0232759 | 4.36% |
| Si 251.611† | 3745.6 | 1.32525 | mg/L | 0.040539 | 1.32525 | mg/L | 0.040539 | 3.06% |
| B 249.772† | 4569.1 | 0.614045 | mg/L | 0.0153565 | 0.614045 | mg/L | 0.0153565 | 2.50% |
| Ce 413.764† | 2244.8 | 0.486682 | mg/L | 0.0100275 | 0.486682 | mg/L | 0.0100275 | 2.06% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)

Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 46
Sample ID: AD26083-048 SD 5D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75

Autosampler Location: 111
Date Collected: 9/29/2021 6:12:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-048 SD 5D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93362.3 | 99.8 | % | 0.28 | 99.8 | % | 0.28 | 0.28% |
| Y 371.029 | 35724.7 | 97.8 | % | 1.04 | 97.8 | % | 1.04 | 1.06% |
| Al 308.215† | -6.6 | 0.0103451 | mg/L | 0.00658308 | 0.0103451 | mg/L | 0.00658308 | 63.63% |
| Ba 233.527† | 34.8 | 0.0071906 | mg/L | 0.00059122 | 0.0071906 | mg/L | 0.00059122 | 8.22% |
| Ca 315.887† | 16638.4 | 3.09711 | mg/L | 0.030053 | 3.09711 | mg/L | 0.030053 | 0.97% |
| Cu 327.393† | 15.6 | -0.0023411 | mg/L | 0.00543772 | -0.0023411 | mg/L | 0.00543772 | 232.27% |
| Fe 273.955† | 591.9 | 0.491040 | mg/L | 0.0022838 | 0.491040 | mg/L | 0.0022838 | 0.47% |
| K 766.490† | 3367.9 | 2.00459 | mg/L | 0.020764 | 2.00459 | mg/L | 0.020764 | 1.04% |
| Mg 279.077† | 3482.7 | 5.17363 | mg/L | 0.069310 | 5.17363 | mg/L | 0.069310 | 1.34% |
| Mn 257.610† | 1323.1 | 0.0439543 | mg/L | 0.00041893 | 0.0439543 | mg/L | 0.00041893 | 0.95% |
| Mo 202.031† | -0.4 | 0.0030023 | mg/L | 0.00250963 | 0.0030023 | mg/L | 0.00250963 | 83.59% |
| Na 589.592† | 527240.1 | 53.7094 | mg/L | 0.10622 | 53.7094 | mg/L | 0.10622 | 0.20% |
| Ni 231.604† | -0.6 | -0.0011078 | mg/L | 0.00278273 | -0.0011078 | mg/L | 0.00278273 | 251.20% |
| Se 196.026† | 0.2 | -0.0037070 | mg/L | 0.00734730 | -0.0037070 | mg/L | 0.00734730 | 198.20% |
| Sn 189.927† | -3.8 | -0.0119822 | mg/L | 0.00758729 | -0.0119822 | mg/L | 0.00758729 | 63.32% |
| Ti 334.940† | 13.9 | 0.0004554 | mg/L | 0.00047821 | 0.0004554 | mg/L | 0.00047821 | 105.01% |
| V 290.880† | 59.8 | 0.0054060 | mg/L | 0.00207452 | 0.0054060 | mg/L | 0.00207452 | 38.37% |
| Zn 206.200† | -4.6 | -0.0018932 | mg/L | 0.00047722 | -0.0018932 | mg/L | 0.00047722 | 25.21% |
| Si 251.611† | 416.7 | 0.108508 | mg/L | 0.0033900 | 0.108508 | mg/L | 0.0033900 | 3.12% |
| B 249.772† | 217.3 | 0.0266433 | mg/L | 0.00056485 | 0.0266433 | mg/L | 0.00056485 | 2.12% |
| Ce 413.764† | -35.5 | -0.0120659 | mg/L | 0.01209218 | -0.0120659 | mg/L | 0.01209218 | 100.22% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 47
Autosampler Location: 112
Sample ID: AD26083-032 5P
Date Collected: 9/29/2021 6:16:57 PM
Analyst:
Data Type: Original
Initial Sample Wt: 10D
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-032 5P

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 88675.4 | 94.8 | % | 0.72 | 94.8 | % | 0.72 | 0.76% |
| Y 371.029 | 34090.7 | 93.3 | % | 0.65 | 93.3 | % | 0.65 | 0.70% |
| Al 308.215† | 11.1 | 0.0349982 | mg/L | 0.00701408 | 0.0349982 | mg/L | 0.00701408 | 20.04% |
| Ba 233.527† | 55.0 | 0.0104463 | mg/L | 0.00088452 | 0.0104463 | mg/L | 0.00088452 | 8.47% |
| Ca 315.887† | 287865.3 | 54.5826 | mg/L | 0.02336 | 54.5826 | mg/L | 0.02336 | 0.04% |
| Cu 327.393† | -44.8 | 0.0091448 | mg/L | 0.00296799 | 0.0091448 | mg/L | 0.00296799 | 32.46% |
| Fe 273.955† | 2723.3 | 2.30477 | mg/L | 0.012960 | 2.30477 | mg/L | 0.012960 | 0.56% |
| K 766.490† | 12492.9 | 6.73906 | mg/L | 0.028851 | 6.73906 | mg/L | 0.028851 | 0.43% |
| Mg 279.077† | 37290.9 | 56.5133 | mg/L | 0.02070 | 56.5133 | mg/L | 0.02070 | 0.04% |
| Mn 257.610† | 8080.3 | 0.279457 | mg/L | 0.0006109 | 0.279457 | mg/L | 0.0006109 | 0.22% |
| Mo 202.031† | -6.0 | -0.0008680 | mg/L | 0.00373709 | -0.0008680 | mg/L | 0.00373709 | 430.52% |
| Na 589.592† | 4652964.2 | 473.800 | mg/L | 2.9953 | 473.800 | mg/L | 2.9953 | 0.63% |
| Ni 231.604† | -8.7 | -0.0045815 | mg/L | 0.00216242 | -0.0045815 | mg/L | 0.00216242 | 47.20% |
| Se 196.026† | 4.0 | 0.0116211 | mg/L | 0.01746878 | 0.0116211 | mg/L | 0.01746878 | 150.32% |
| Sn 189.927† | -21.4 | -0.0529269 | mg/L | 0.00897555 | -0.0529269 | mg/L | 0.00897555 | 16.96% |
| Ti 334.940† | -481.6 | -0.0020487 | mg/L | 0.00095935 | -0.0020487 | mg/L | 0.00095935 | 46.83% |
| V 290.880† | 602.2 | 0.0487679 | mg/L | 0.00310714 | 0.0487679 | mg/L | 0.00310714 | 6.37% |
| Zn 206.200† | 11.6 | 0.0024222 | mg/L | 0.00178987 | 0.0024222 | mg/L | 0.00178987 | 73.89% |
| Si 251.611† | 3334.6 | 1.17504 | mg/L | 0.010402 | 1.17504 | mg/L | 0.010402 | 0.89% |
| B 249.772† | 980.9 | 0.127702 | mg/L | 0.0006859 | 0.127702 | mg/L | 0.0006859 | 0.54% |
| Ce 413.764† | -49.6 | -0.0151501 | mg/L | 0.00459065 | -0.0151501 | mg/L | 0.00459065 | 30.30% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 48
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 6
Date Collected: 9/29/2021 6:21:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92735.5 | 99.1 | % | 0.30 | 99.1 | % | 0.30 | 0.30% |
| Y 371.029 | 35090.2 | 96.0 | % | 0.43 | 96.0 | % | 0.43 | 0.45% |
| Al 308.215† | 4615.4 | 4.92289 | mg/L | 0.029089 | 4.92289 | mg/L | 0.029089 | 0.59% |
| QC value within limits for Al 308.215 Recovery = 98.46% | | | | | | | | |
| Ba 233.527† | 2322.4 | 0.487115 | mg/L | 0.0032337 | 0.487115 | mg/L | 0.0032337 | 0.66% |
| QC value within limits for Ba 233.527 Recovery = 97.42% | | | | | | | | |
| Ca 315.887† | 256490.2 | 48.6268 | mg/L | 0.10157 | 48.6268 | mg/L | 0.10157 | 0.21% |
| QC value within limits for Ca 315.887 Recovery = 97.25% | | | | | | | | |
| Cu 327.393† | 2432.8 | 0.516352 | mg/L | 0.0055682 | 0.516352 | mg/L | 0.0055682 | 1.08% |
| QC value within limits for Cu 327.393 Recovery = 103.27% | | | | | | | | |
| Fe 273.955† | 5735.9 | 4.86853 | mg/L | 0.036318 | 4.86853 | mg/L | 0.036318 | 0.75% |
| QC value within limits for Fe 273.955 Recovery = 97.37% | | | | | | | | |
| K 766.490† | 93047.3 | 48.5344 | mg/L | 0.07692 | 48.5344 | mg/L | 0.07692 | 0.16% |
| QC value within limits for K 766.490 Recovery = 97.07% | | | | | | | | |
| Mg 279.077† | 32141.9 | 48.6942 | mg/L | 0.39141 | 48.6942 | mg/L | 0.39141 | 0.80% |
| QC value within limits for Mg 279.077 Recovery = 97.39% | | | | | | | | |
| Mn 257.610† | 14519.4 | 0.493200 | mg/L | 0.0038493 | 0.493200 | mg/L | 0.0038493 | 0.78% |
| QC value within limits for Mn 257.610 Recovery = 98.64% | | | | | | | | |
| Mo 202.031† | 692.5 | 0.485188 | mg/L | 0.0051369 | 0.485188 | mg/L | 0.0051369 | 1.06% |
| QC value within limits for Mo 202.031 Recovery = 97.04% | | | | | | | | |
| Na 589.592† | 483161.1 | 49.2211 | mg/L | 0.11962 | 49.2211 | mg/L | 0.11962 | 0.24% |
| QC value within limits for Na 589.592 Recovery = 98.44% | | | | | | | | |
| Ni 231.604† | 948.8 | 0.490045 | mg/L | 0.0072386 | 0.490045 | mg/L | 0.0072386 | 1.48% |
| QC value within limits for Ni 231.604 Recovery = 98.01% | | | | | | | | |
| Se 196.026† | 141.0 | 0.505999 | mg/L | 0.0210556 | 0.505999 | mg/L | 0.0210556 | 4.16% |
| QC value within limits for Se 196.026 Recovery = 101.20% | | | | | | | | |
| Sn 189.927† | 154.1 | 0.485618 | mg/L | 0.0068408 | 0.485618 | mg/L | 0.0068408 | 1.41% |
| QC value within limits for Sn 189.927 Recovery = 97.12% | | | | | | | | |
| Ti 334.940† | 22183.3 | 0.494269 | mg/L | 0.0031193 | 0.494269 | mg/L | 0.0031193 | 0.63% |
| QC value within limits for Ti 334.940 Recovery = 98.85% | | | | | | | | |
| V 290.880† | 4139.5 | 0.469540 | mg/L | 0.0078460 | 0.469540 | mg/L | 0.0078460 | 1.67% |
| QC value within limits for V 290.880 Recovery = 93.91% | | | | | | | | |
| Zn 206.200† | 1816.3 | 0.485877 | mg/L | 0.0020426 | 0.485877 | mg/L | 0.0020426 | 0.42% |
| QC value within limits for Zn 206.200 Recovery = 97.18% | | | | | | | | |
| Si 251.611† | 13349.5 | 4.83549 | mg/L | 0.039262 | 4.83549 | mg/L | 0.039262 | 0.81% |
| QC value within limits for Si 251.611 Recovery = 96.71% | | | | | | | | |
| B 249.772† | 3408.5 | 0.461957 | mg/L | 0.0031141 | 0.461957 | mg/L | 0.0031141 | 0.67% |
| QC value within limits for B 249.772 Recovery = 92.39% | | | | | | | | |
| Ce 413.764† | 2173.0 | 0.470988 | mg/L | 0.0030870 | 0.470988 | mg/L | 0.0030870 | 0.66% |
| QC value within limits for Ce 413.764 Recovery = 94.20% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 49 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 6:25:14 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90764.0 | 97.0 | % | 0.19 | 97.0 | % | 0.19 | 0.19% |
| Y 371.029 | 35678.4 | 97.6 | % | 0.12 | 97.6 | % | 0.12 | 0.12% |
| Al 308.215† | -7.1 | 0.0092871 | mg/L | 0.00756686 | 0.0092871 | mg/L | 0.00756686 | 81.48% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 4.2 | 0.0010205 | mg/L | 0.00043396 | 0.0010205 | mg/L | 0.00043396 | 42.52% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -9.5 | -0.0630550 | mg/L | 0.00708506 | -0.0630550 | mg/L | 0.00708506 | 11.24% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 23.8 | -0.0021298 | mg/L | 0.00109841 | -0.0021298 | mg/L | 0.00109841 | 51.57% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 6.2 | -0.0074394 | mg/L | 0.00989402 | -0.0074394 | mg/L | 0.00989402 | 132.99% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -1.8 | 0.256222 | mg/L | 0.0096277 | 0.256222 | mg/L | 0.0096277 | 3.76% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -2.6 | -0.118941 | mg/L | 0.0132508 | -0.118941 | mg/L | 0.0132508 | 11.14% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 0.3 | -0.0012561 | mg/L | 0.00025259 | -0.0012561 | mg/L | 0.00025259 | 20.11% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -3.1 | 0.0011453 | mg/L | 0.00373151 | 0.0011453 | mg/L | 0.00373151 | 325.80% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 2039.3 | 0.232225 | mg/L | 0.0075403 | 0.232225 | mg/L | 0.0075403 | 3.25% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 0.4 | -0.0007888 | mg/L | 0.00157818 | -0.0007888 | mg/L | 0.00157818 | 200.08% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 4.3 | 0.0106670 | mg/L | 0.00827962 | 0.0106670 | mg/L | 0.00827962 | 77.62% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.4 | -0.0088403 | mg/L | 0.00536756 | -0.0088403 | mg/L | 0.00536756 | 60.72% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 24.5 | 0.0001730 | mg/L | 0.00018670 | 0.0001730 | mg/L | 0.00018670 | 107.90% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 1.6 | 0.0006600 | mg/L | 0.00057617 | 0.0006600 | mg/L | 0.00057617 | 87.31% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -4.1 | -0.0017602 | mg/L | 0.00141326 | -0.0017602 | mg/L | 0.00141326 | 80.29% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 4.4 | -0.0421881 | mg/L | 0.00097299 | -0.0421881 | mg/L | 0.00097299 | 2.31% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 5.5 | -0.0014069 | mg/L | 0.00107010 | -0.0014069 | mg/L | 0.00107010 | 76.06% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -48.7 | -0.0149560 | mg/L | 0.01425048 | -0.0149560 | mg/L | 0.01425048 | 95.28% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 50
Autosampler Location: 113
Sample ID: AD26083-040 5D
Date Collected: 9/29/2021 6:29:05 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-040 5D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92028.1 | 98.4 | % | 0.45 | 98.4 | % | 0.45 | 0.46% |
| Y 371.029 | 35898.5 | 98.2 | % | 0.51 | 98.2 | % | 0.51 | 0.52% |
| Al 308.215† | 25.1 | 0.0450880 | mg/L | 0.01278139 | 0.0450880 | mg/L | 0.01278139 | 28.35% |
| Ba 233.527† | 1080.8 | 0.227440 | mg/L | 0.0010167 | 0.227440 | mg/L | 0.0010167 | 0.45% |
| Ca 315.887† | 50938.9 | 9.60819 | mg/L | 0.009265 | 9.60819 | mg/L | 0.009265 | 0.10% |
| Cu 327.393† | 24.4 | 0.0024971 | mg/L | 0.00310500 | 0.0024971 | mg/L | 0.00310500 | 124.34% |
| Fe 273.955† | 1270.0 | 1.06806 | mg/L | 0.011737 | 1.06806 | mg/L | 0.011737 | 1.10% |
| K 766.490† | 19842.6 | 10.5524 | mg/L | 0.03192 | 10.5524 | mg/L | 0.03192 | 0.30% |
| Mg 279.077† | 9622.9 | 14.4979 | mg/L | 0.04330 | 14.4979 | mg/L | 0.04330 | 0.30% |
| Mn 257.610† | 1563.2 | 0.0537311 | mg/L | 0.00037370 | 0.0537311 | mg/L | 0.00037370 | 0.70% |
| Mo 202.031† | -4.3 | 0.0003234 | mg/L | 0.00302555 | 0.0003234 | mg/L | 0.00302555 | 935.61% |
| Na 589.592† | 1268181.5 | 129.154 | mg/L | 1.2649 | 129.154 | mg/L | 1.2649 | 0.98% |
| Ni 231.604† | 1.5 | 0.0001730 | mg/L | 0.00120097 | 0.0001730 | mg/L | 0.00120097 | 694.26% |
| Se 196.026† | 0.5 | -0.0022524 | mg/L | 0.00756903 | -0.0022524 | mg/L | 0.00756903 | 336.05% |
| Sn 189.927† | -6.9 | -0.0193791 | mg/L | 0.00595170 | -0.0193791 | mg/L | 0.00595170 | 30.71% |
| Ti 334.940† | -14.8 | 0.0008828 | mg/L | 0.00053714 | 0.0008828 | mg/L | 0.00053714 | 60.85% |
| V 290.880† | 164.4 | 0.0139991 | mg/L | 0.00105279 | 0.0139991 | mg/L | 0.00105279 | 7.52% |
| Zn 206.200† | 3.8 | 0.0003489 | mg/L | 0.00039952 | 0.0003489 | mg/L | 0.00039952 | 114.52% |
| Si 251.611† | 2289.0 | 0.792860 | mg/L | 0.0055091 | 0.792860 | mg/L | 0.0055091 | 0.69% |
| B 249.772† | 1280.5 | 0.175231 | mg/L | 0.0011701 | 0.175231 | mg/L | 0.0011701 | 0.67% |
| Ce 413.764† | -37.3 | -0.0124723 | mg/L | 0.01362157 | -0.0124723 | mg/L | 0.01362157 | 109.21% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 51 Autosampler Location: 114
Sample ID: AD26083-040 MR 10D Date Collected: 9/29/2021 6:33:14 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-040 MR 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91918.9 | 98.2 | % | 0.16 | 98.2 | % | 0.16 | 0.16% |
| Y 371.029 | 35930.2 | 98.3 | % | 0.39 | 98.3 | % | 0.39 | 0.39% |
| Al 308.215† | 42.1 | 0.0630043 | mg/L | 0.01560974 | 0.0630043 | mg/L | 0.01560974 | 24.78% |
| Ba 233.527† | 1146.5 | 0.241233 | mg/L | 0.0012199 | 0.241233 | mg/L | 0.0012199 | 0.51% |
| Ca 315.887† | 54023.8 | 10.1938 | mg/L | 0.04007 | 10.1938 | mg/L | 0.04007 | 0.39% |
| Cu 327.393† | 34.2 | 0.0047848 | mg/L | 0.00173855 | 0.0047848 | mg/L | 0.00173855 | 36.33% |
| Fe 273.955† | 1370.3 | 1.15343 | mg/L | 0.004835 | 1.15343 | mg/L | 0.004835 | 0.42% |
| K 766.490† | 21081.4 | 11.1952 | mg/L | 0.06062 | 11.1952 | mg/L | 0.06062 | 0.54% |
| Mg 279.077† | 10266.9 | 15.4758 | mg/L | 0.09199 | 15.4758 | mg/L | 0.09199 | 0.59% |
| Mn 257.610† | 1666.0 | 0.0573525 | mg/L | 0.00005540 | 0.0573525 | mg/L | 0.00005540 | 0.10% |
| Mo 202.031† | -2.8 | 0.0013207 | mg/L | 0.00092941 | 0.0013207 | mg/L | 0.00092941 | 70.37% |
| Na 589.592† | 1345957.9 | 137.073 | mg/L | 0.6392 | 137.073 | mg/L | 0.6392 | 0.47% |
| Ni 231.604† | 1.6 | 0.0002793 | mg/L | 0.00211590 | 0.0002793 | mg/L | 0.00211590 | 757.67% |
| Se 196.026† | 4.9 | 0.0136313 | mg/L | 0.00285107 | 0.0136313 | mg/L | 0.00285107 | 20.92% |
| Sn 189.927† | -6.2 | -0.0173033 | mg/L | 0.00635510 | -0.0173033 | mg/L | 0.00635510 | 36.73% |
| Ti 334.940† | 37.6 | 0.0021271 | mg/L | 0.00017680 | 0.0021271 | mg/L | 0.00017680 | 8.31% |
| V 290.880† | 164.4 | 0.0136007 | mg/L | 0.00185061 | 0.0136007 | mg/L | 0.00185061 | 13.61% |
| Zn 206.200† | 0.5 | -0.0005356 | mg/L | 0.00200836 | -0.0005356 | mg/L | 0.00200836 | 374.95% |
| Si 251.611† | 2704.9 | 0.944865 | mg/L | 0.0077649 | 0.944865 | mg/L | 0.0077649 | 0.82% |
| B 249.772† | 1358.8 | 0.186008 | mg/L | 0.0003996 | 0.186008 | mg/L | 0.0003996 | 0.21% |
| Ce 413.764† | -61.7 | -0.0178085 | mg/L | 0.00469517 | -0.0178085 | mg/L | 0.00469517 | 26.36% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 52 Autosampler Location: 115
Sample ID: AD26083-042 MS 1 10D Date Collected: 9/29/2021 6:37:22 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-042 MS 1 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91888.0 | 98.2 | % | 0.20 | 98.2 | % | 0.20 | 0.21% |
| Y 371.029 | 35854.0 | 98.1 | % | 0.32 | 98.1 | % | 0.32 | 0.33% |
| Al 308.215† | 473.7 | 0.522142 | mg/L | 0.0143824 | 0.522142 | mg/L | 0.0143824 | 2.75% |
| Ba 233.527† | 1333.3 | 0.280400 | mg/L | 0.0013230 | 0.280400 | mg/L | 0.0013230 | 0.47% |
| Ca 315.887† | 77723.2 | 14.6925 | mg/L | 0.00509 | 14.6925 | mg/L | 0.00509 | 0.03% |
| Cu 327.393† | 275.6 | 0.0565598 | mg/L | 0.00374062 | 0.0565598 | mg/L | 0.00374062 | 6.61% |
| Fe 273.955† | 1849.7 | 1.56135 | mg/L | 0.004705 | 1.56135 | mg/L | 0.004705 | 0.30% |
| K 766.490† | 29824.2 | 15.7313 | mg/L | 0.02283 | 15.7313 | mg/L | 0.02283 | 0.15% |
| Mg 279.077† | 13147.4 | 19.8501 | mg/L | 0.10605 | 19.8501 | mg/L | 0.10605 | 0.53% |
| Mn 257.610† | 3093.6 | 0.105890 | mg/L | 0.0005061 | 0.105890 | mg/L | 0.0005061 | 0.48% |
| Mo 202.031† | 62.7 | 0.0468989 | mg/L | 0.00309324 | 0.0468989 | mg/L | 0.00309324 | 6.60% |
| Na 589.592† | 1352827.5 | 137.773 | mg/L | 0.3163 | 137.773 | mg/L | 0.3163 | 0.23% |
| Ni 231.604† | 97.3 | 0.0497875 | mg/L | 0.00480787 | 0.0497875 | mg/L | 0.00480787 | 9.66% |
| Se 196.026† | 10.1 | 0.0330212 | mg/L | 0.00947310 | 0.0330212 | mg/L | 0.00947310 | 28.69% |
| Sn 189.927† | 10.5 | 0.0354915 | mg/L | 0.00692938 | 0.0354915 | mg/L | 0.00692938 | 19.52% |
| Ti 334.940† | 2283.1 | 0.0521266 | mg/L | 0.00261102 | 0.0521266 | mg/L | 0.00261102 | 5.01% |
| V 290.880† | 592.1 | 0.0623463 | mg/L | 0.00277212 | 0.0623463 | mg/L | 0.00277212 | 4.45% |
| Zn 206.200† | 184.1 | 0.0486351 | mg/L | 0.00226770 | 0.0486351 | mg/L | 0.00226770 | 4.66% |
| Si 251.611† | 2764.5 | 0.966656 | mg/L | 0.0140235 | 0.966656 | mg/L | 0.0140235 | 1.45% |
| B 249.772† | 1650.9 | 0.225819 | mg/L | 0.0017331 | 0.225819 | mg/L | 0.0017331 | 0.77% |
| Ce 413.764† | 217.4 | 0.0432510 | mg/L | 0.00941075 | 0.0432510 | mg/L | 0.00941075 | 21.76% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 53
Autosampler Location: 116
Sample ID: AD26083-044 MS 2 10D
Date Collected: 9/29/2021 6:41:31 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-044 MS 2 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91855.4 | 98.2 | % | 0.89 | 98.2 | % | 0.89 | 0.91% |
| Y 371.029 | 35820.5 | 98.0 | % | 0.83 | 98.0 | % | 0.83 | 0.85% |
| Al 308.215† | 470.7 | 0.518457 | mg/L | 0.0084519 | 0.518457 | mg/L | 0.0084519 | 1.63% |
| Ba 233.527† | 1358.2 | 0.285638 | mg/L | 0.0030220 | 0.285638 | mg/L | 0.0030220 | 1.06% |
| Ca 315.887† | 78581.9 | 14.8555 | mg/L | 0.11860 | 14.8555 | mg/L | 0.11860 | 0.80% |
| Cu 327.393† | 276.3 | 0.0567783 | mg/L | 0.00659805 | 0.0567783 | mg/L | 0.00659805 | 11.62% |
| Fe 273.955† | 1877.0 | 1.58460 | mg/L | 0.031938 | 1.58460 | mg/L | 0.031938 | 2.02% |
| K 766.490† | 30156.7 | 15.9039 | mg/L | 0.11769 | 15.9039 | mg/L | 0.11769 | 0.74% |
| Mg 279.077† | 13330.5 | 20.1281 | mg/L | 0.16392 | 20.1281 | mg/L | 0.16392 | 0.81% |
| Mn 257.610† | 3121.8 | 0.106885 | mg/L | 0.0009985 | 0.106885 | mg/L | 0.0009985 | 0.93% |
| Mo 202.031† | 64.9 | 0.0484721 | mg/L | 0.00049538 | 0.0484721 | mg/L | 0.00049538 | 1.02% |
| Na 589.592† | 1379723.5 | 140.511 | mg/L | 2.0525 | 140.511 | mg/L | 2.0525 | 1.46% |
| Ni 231.604† | 98.0 | 0.0501291 | mg/L | 0.00373155 | 0.0501291 | mg/L | 0.00373155 | 7.44% |
| Se 196.026† | 13.9 | 0.0463527 | mg/L | 0.01353872 | 0.0463527 | mg/L | 0.01353872 | 29.21% |
| Sn 189.927† | 8.0 | 0.0279391 | mg/L | 0.01365045 | 0.0279391 | mg/L | 0.01365045 | 48.86% |
| Ti 334.940† | 2208.4 | 0.0505156 | mg/L | 0.00114735 | 0.0505156 | mg/L | 0.00114735 | 2.27% |
| V 290.880† | 545.8 | 0.0567627 | mg/L | 0.00234337 | 0.0567627 | mg/L | 0.00234337 | 4.13% |
| Zn 206.200† | 187.6 | 0.0495811 | mg/L | 0.00203046 | 0.0495811 | mg/L | 0.00203046 | 4.10% |
| Si 251.611† | 2796.2 | 0.978252 | mg/L | 0.0243984 | 0.978252 | mg/L | 0.0243984 | 2.49% |
| B 249.772† | 1690.1 | 0.231286 | mg/L | 0.0036743 | 0.231286 | mg/L | 0.0036743 | 1.59% |
| Ce 413.764† | 188.6 | 0.0369469 | mg/L | 0.00613171 | 0.0369469 | mg/L | 0.00613171 | 16.60% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 54
Autosampler Location: 117
Sample ID: AD26083-040 PS 10D
Date Collected: 9/29/2021 6:45:41 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-040 PS 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89533.2 | 95.7 | % | 0.53 | 95.7 | % | 0.53 | 0.56% |
| Y 371.029 | 34632.6 | 94.8 | % | 0.65 | 94.8 | % | 0.65 | 0.69% |
| Al 308.215† | 5198.4 | 5.54510 | mg/L | 0.220137 | 5.54510 | mg/L | 0.220137 | 3.97% |
| Ba 233.527† | 3720.0 | 0.780881 | mg/L | 0.0265679 | 0.780881 | mg/L | 0.0265679 | 3.40% |
| Ca 315.887† | 371314.7 | 70.4233 | mg/L | 8.36518 | 70.4233 | mg/L | 8.36518 | 11.88% |
| Cu 327.393† | 2800.1 | 0.602097 | mg/L | 0.0176295 | 0.602097 | mg/L | 0.0176295 | 2.93% |
| Fe 273.955† | 7710.2 | 6.54863 | mg/L | 0.233623 | 6.54863 | mg/L | 0.233623 | 3.57% |
| K 766.490† | 139900.4 | 72.8440 | mg/L | 8.42558 | 72.8440 | mg/L | 8.42558 | 11.57% |
| Mg 279.077† | 48595.3 | 73.6797 | mg/L | 7.40984 | 73.6797 | mg/L | 7.40984 | 10.06% |
| Mn 257.610† | 17830.2 | 0.608558 | mg/L | 0.0201783 | 0.608558 | mg/L | 0.0201783 | 3.32% |
| Mo 202.031† | 778.5 | 0.545028 | mg/L | 0.0157220 | 0.545028 | mg/L | 0.0157220 | 2.88% |
| Na 589.592† | 1930242.5 | 196.566 | mg/L | 13.3781 | 196.566 | mg/L | 13.3781 | 6.81% |
| Ni 231.604† | 1062.2 | 0.549143 | mg/L | 0.0166276 | 0.549143 | mg/L | 0.0166276 | 3.03% |
| Se 196.026† | 147.6 | 0.531362 | mg/L | 0.0207042 | 0.531362 | mg/L | 0.0207042 | 3.90% |
| Sn 189.927† | 163.4 | 0.520655 | mg/L | 0.0634165 | 0.520655 | mg/L | 0.0634165 | 12.18% |
| Ti 334.940† | 24882.8 | 0.557041 | mg/L | 0.0199114 | 0.557041 | mg/L | 0.0199114 | 3.57% |
| V 290.880† | 4851.9 | 0.543594 | mg/L | 0.0233066 | 0.543594 | mg/L | 0.0233066 | 4.29% |
| Zn 206.200† | 2030.0 | 0.543125 | mg/L | 0.0213542 | 0.543125 | mg/L | 0.0213542 | 3.93% |
| Si 251.611† | 4188.3 | 1.48703 | mg/L | 0.045127 | 1.48703 | mg/L | 0.045127 | 3.03% |
| B 249.772† | 4788.2 | 0.651015 | mg/L | 0.0124845 | 0.651015 | mg/L | 0.0124845 | 1.92% |
| Ce 413.764† | 2289.1 | 0.496384 | mg/L | 0.0064596 | 0.496384 | mg/L | 0.0064596 | 1.30% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 55
Sample ID: AD26083-040 SD 10D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 118
Date Collected: 9/29/2021 6:49:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040 SD 10D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93335.0 | 99.8 | % | 0.80 | 99.8 | % | 0.80 | 0.80% |
| Y 371.029 | 35596.5 | 97.4 | % | 0.27 | 97.4 | % | 0.27 | 0.28% |
| Al 308.215† | 1.7 | 0.0189726 | mg/L | 0.00571042 | 0.0189726 | mg/L | 0.00571042 | 30.10% |
| Ba 233.527† | 217.1 | 0.0457833 | mg/L | 0.00084862 | 0.0457833 | mg/L | 0.00084862 | 1.85% |
| Ca 315.887† | 10150.8 | 1.86562 | mg/L | 0.025824 | 1.86562 | mg/L | 0.025824 | 1.38% |
| Cu 327.393† | 32.9 | 0.0006363 | mg/L | 0.00266461 | 0.0006363 | mg/L | 0.00266461 | 418.78% |
| Fe 273.955† | 267.2 | 0.214719 | mg/L | 0.0021991 | 0.214719 | mg/L | 0.0021991 | 1.02% |
| K 766.490† | 3778.9 | 2.21785 | mg/L | 0.009356 | 2.21785 | mg/L | 0.009356 | 0.42% |
| Mg 279.077† | 1908.5 | 2.78310 | mg/L | 0.008619 | 2.78310 | mg/L | 0.008619 | 0.31% |
| Mn 257.610† | 317.0 | 0.0098775 | mg/L | 0.00015644 | 0.0098775 | mg/L | 0.00015644 | 1.58% |
| Mo 202.031† | -1.9 | 0.0019477 | mg/L | 0.00026095 | 0.0019477 | mg/L | 0.00026095 | 13.40% |
| Na 589.592† | 259340.7 | 26.4312 | mg/L | 0.06481 | 26.4312 | mg/L | 0.06481 | 0.25% |
| Ni 231.604† | -8.3 | -0.0051602 | mg/L | 0.00156669 | -0.0051602 | mg/L | 0.00156669 | 30.36% |
| Se 196.026† | 2.8 | 0.0052180 | mg/L | 0.02017190 | 0.0052180 | mg/L | 0.02017190 | 386.59% |
| Sn 189.927† | -1.9 | -0.0067091 | mg/L | 0.00370724 | -0.0067091 | mg/L | 0.00370724 | 55.26% |
| Ti 334.940† | 23.6 | 0.0004677 | mg/L | 0.00051719 | 0.0004677 | mg/L | 0.00051719 | 110.59% |
| V 290.880† | 33.8 | 0.0033008 | mg/L | 0.00175376 | 0.0033008 | mg/L | 0.00175376 | 53.13% |
| Zn 206.200† | 3.4 | 0.0002337 | mg/L | 0.00069486 | 0.0002337 | mg/L | 0.00069486 | 297.35% |
| Si 251.611† | 471.6 | 0.128595 | mg/L | 0.0019360 | 0.128595 | mg/L | 0.0019360 | 1.51% |
| B 249.772† | 260.3 | 0.0338681 | mg/L | 0.00066106 | 0.0338681 | mg/L | 0.00066106 | 1.95% |
| Ce 413.764† | -61.7 | -0.0177994 | mg/L | 0.00991695 | -0.0177994 | mg/L | 0.00991695 | 55.72% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 56
Autosampler Location: 119
Sample ID: AD26083-036 10D
Date Collected: 9/29/2021 6:53:59 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-036 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89532.7 | 95.7 | % | 1.14 | 95.7 | % | 1.14 | 1.19% |
| Y 371.029 | 34409.7 | 94.2 | % | 1.06 | 94.2 | % | 1.06 | 1.12% |
| Al 308.215† | 67.0 | 0.0916218 | mg/L | 0.00926942 | 0.0916218 | mg/L | 0.00926942 | 10.12% |
| Ba 233.527† | 29.7 | 0.0061418 | mg/L | 0.00015919 | 0.0061418 | mg/L | 0.00015919 | 2.59% |
| Ca 315.887† | 530614.5 | 100.662 | mg/L | 0.9994 | 100.662 | mg/L | 0.9994 | 0.99% |
| Cu 327.393† | -123.6 | 0.0143193 | mg/L | 0.00666024 | 0.0143193 | mg/L | 0.00666024 | 46.51% |
| Fe 273.955† | 528.7 | 0.437244 | mg/L | 0.0124142 | 0.437244 | mg/L | 0.0124142 | 2.84% |
| K 766.490† | 6345.9 | 3.54972 | mg/L | 0.015247 | 3.54972 | mg/L | 0.015247 | 0.43% |
| Mg 279.077† | 22600.9 | 34.2057 | mg/L | 0.04060 | 34.2057 | mg/L | 0.04060 | 0.12% |
| Mn 257.610† | 18805.0 | 0.633714 | mg/L | 0.0015468 | 0.633714 | mg/L | 0.0015468 | 0.24% |
| Mo 202.031† | -8.6 | -0.0026993 | mg/L | 0.00312887 | -0.0026993 | mg/L | 0.00312887 | 115.91% |
| Na 589.592† | 2497264.1 | 254.302 | mg/L | 1.8086 | 254.302 | mg/L | 1.8086 | 0.71% |
| Ni 231.604† | -13.4 | -0.0077403 | mg/L | 0.00373880 | -0.0077403 | mg/L | 0.00373880 | 48.30% |
| Se 196.026† | 3.1 | 0.0066873 | mg/L | 0.01540915 | 0.0066873 | mg/L | 0.01540915 | 230.43% |
| Sn 189.927† | -14.5 | -0.0300681 | mg/L | 0.00804683 | -0.0300681 | mg/L | 0.00804683 | 26.76% |
| Ti 334.940† | -522.4 | 0.0045463 | mg/L | 0.00413915 | 0.0045463 | mg/L | 0.00413915 | 91.05% |
| V 290.880† | 377.2 | 0.0311850 | mg/L | 0.00517317 | 0.0311850 | mg/L | 0.00517317 | 16.59% |
| Zn 206.200† | 16.3 | 0.0036942 | mg/L | 0.00057760 | 0.0036942 | mg/L | 0.00057760 | 15.64% |
| Si 251.611† | 2648.7 | 0.924319 | mg/L | 0.0030083 | 0.924319 | mg/L | 0.0030083 | 0.33% |
| B 249.772† | 329.2 | 0.0427399 | mg/L | 0.00123010 | 0.0427399 | mg/L | 0.00123010 | 2.88% |
| Ce 413.764† | -19.2 | -0.0085026 | mg/L | 0.00439697 | -0.0085026 | mg/L | 0.00439697 | 51.71% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 57
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 6
Date Collected: 9/29/2021 6:58:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91406.9 | 97.7 | % | 0.37 | 97.7 | % | 0.37 | 0.38% |
| Y 371.029 | 34636.8 | 94.8 | % | 0.92 | 94.8 | % | 0.92 | 0.97% |
| Al 308.215† | 4646.2 | 4.95540 | mg/L | 0.069016 | 4.95540 | mg/L | 0.069016 | 1.39% |
| QC value within limits for Al 308.215 Recovery = 99.11% | | | | | | | | |
| Ba 233.527† | 2326.8 | 0.488051 | mg/L | 0.0013005 | 0.488051 | mg/L | 0.0013005 | 0.27% |
| QC value within limits for Ba 233.527 Recovery = 97.61% | | | | | | | | |
| Ca 315.887† | 255298.1 | 48.4005 | mg/L | 0.07524 | 48.4005 | mg/L | 0.07524 | 0.16% |
| QC value within limits for Ca 315.887 Recovery = 96.80% | | | | | | | | |
| Cu 327.393† | 2442.2 | 0.518184 | mg/L | 0.0073459 | 0.518184 | mg/L | 0.0073459 | 1.42% |
| QC value within limits for Cu 327.393 Recovery = 103.64% | | | | | | | | |
| Fe 273.955† | 5729.4 | 4.86295 | mg/L | 0.079982 | 4.86295 | mg/L | 0.079982 | 1.64% |
| QC value within limits for Fe 273.955 Recovery = 97.26% | | | | | | | | |
| K 766.490† | 92720.5 | 48.3649 | mg/L | 0.06562 | 48.3649 | mg/L | 0.06562 | 0.14% |
| QC value within limits for K 766.490 Recovery = 96.73% | | | | | | | | |
| Mg 279.077† | 32192.4 | 48.7709 | mg/L | 0.59460 | 48.7709 | mg/L | 0.59460 | 1.22% |
| QC value within limits for Mg 279.077 Recovery = 97.54% | | | | | | | | |
| Mn 257.610† | 14563.4 | 0.494687 | mg/L | 0.0065762 | 0.494687 | mg/L | 0.0065762 | 1.33% |
| QC value within limits for Mn 257.610 Recovery = 98.94% | | | | | | | | |
| Mo 202.031† | 692.1 | 0.484884 | mg/L | 0.0020314 | 0.484884 | mg/L | 0.0020314 | 0.42% |
| QC value within limits for Mo 202.031 Recovery = 96.98% | | | | | | | | |
| Na 589.592† | 481054.3 | 49.0066 | mg/L | 0.06938 | 49.0066 | mg/L | 0.06938 | 0.14% |
| QC value within limits for Na 589.592 Recovery = 98.01% | | | | | | | | |
| Ni 231.604† | 949.8 | 0.490570 | mg/L | 0.0075572 | 0.490570 | mg/L | 0.0075572 | 1.54% |
| QC value within limits for Ni 231.604 Recovery = 98.11% | | | | | | | | |
| Se 196.026† | 132.2 | 0.474644 | mg/L | 0.0229046 | 0.474644 | mg/L | 0.0229046 | 4.83% |
| QC value within limits for Se 196.026 Recovery = 94.93% | | | | | | | | |
| Sn 189.927† | 153.9 | 0.485154 | mg/L | 0.0073886 | 0.485154 | mg/L | 0.0073886 | 1.52% |
| QC value within limits for Sn 189.927 Recovery = 97.03% | | | | | | | | |
| Ti 334.940† | 22174.8 | 0.494046 | mg/L | 0.0057476 | 0.494046 | mg/L | 0.0057476 | 1.16% |
| QC value within limits for Ti 334.940 Recovery = 98.81% | | | | | | | | |
| V 290.880† | 4134.9 | 0.468971 | mg/L | 0.0051312 | 0.468971 | mg/L | 0.0051312 | 1.09% |
| QC value within limits for V 290.880 Recovery = 93.79% | | | | | | | | |
| Zn 206.200† | 1818.3 | 0.486417 | mg/L | 0.0011975 | 0.486417 | mg/L | 0.0011975 | 0.25% |
| QC value within limits for Zn 206.200 Recovery = 97.28% | | | | | | | | |
| Si 251.611† | 13437.0 | 4.86745 | mg/L | 0.070860 | 4.86745 | mg/L | 0.070860 | 1.46% |
| QC value within limits for Si 251.611 Recovery = 97.35% | | | | | | | | |
| B 249.772† | 3449.2 | 0.467758 | mg/L | 0.0088912 | 0.467758 | mg/L | 0.0088912 | 1.90% |
| QC value within limits for B 249.772 Recovery = 93.55% | | | | | | | | |
| Ce 413.764† | 2174.2 | 0.471250 | mg/L | 0.0059283 | 0.471250 | mg/L | 0.0059283 | 1.26% |
| QC value within limits for Ce 413.764 Recovery = 94.25% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 58
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 2
Date Collected: 9/29/2021 7:02:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91147.1 | 97.4 | % | 0.46 | 97.4 | % | 0.46 | 0.48% |
| Y 371.029 | 35881.3 | 98.2 | % | 0.37 | 98.2 | % | 0.37 | 0.38% |
| Al 308.215† | 4.2 | 0.0211537 | mg/L | 0.00306820 | 0.0211537 | mg/L | 0.00306820 | 14.50% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 4.6 | 0.0011110 | mg/L | 0.00053446 | 0.0011110 | mg/L | 0.00053446 | 48.11% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 7.7 | -0.0597959 | mg/L | 0.00748252 | -0.0597959 | mg/L | 0.00748252 | 12.51% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 51.8 | 0.0036306 | mg/L | 0.00285876 | 0.0036306 | mg/L | 0.00285876 | 78.74% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -4.5 | -0.0165156 | mg/L | 0.00568182 | -0.0165156 | mg/L | 0.00568182 | 34.40% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -56.8 | 0.227712 | mg/L | 0.0190542 | 0.227712 | mg/L | 0.0190542 | 8.37% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 3.5 | -0.109710 | mg/L | 0.0072014 | -0.109710 | mg/L | 0.0072014 | 6.56% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -12.2 | -0.0016721 | mg/L | 0.00007646 | -0.0016721 | mg/L | 0.00007646 | 4.57% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -0.2 | 0.0031840 | mg/L | 0.00035582 | 0.0031840 | mg/L | 0.00035582 | 11.18% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 765.9 | 0.102567 | mg/L | 0.0038675 | 0.102567 | mg/L | 0.0038675 | 3.77% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -4.9 | -0.0034925 | mg/L | 0.00438573 | -0.0034925 | mg/L | 0.00438573 | 125.58% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 1.4 | 0.0000531 | mg/L | 0.00616803 | 0.0000531 | mg/L | 0.00616803 | >999.9% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 2.2 | 0.0053010 | mg/L | 0.00503120 | 0.0053010 | mg/L | 0.00503120 | 94.91% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 19.8 | 0.0000719 | mg/L | 0.00008643 | 0.0000719 | mg/L | 0.00008643 | 120.27% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -1.8 | 0.0002566 | mg/L | 0.00111584 | 0.0002566 | mg/L | 0.00111584 | 434.90% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 0.1 | -0.0006501 | mg/L | 0.00171296 | -0.0006501 | mg/L | 0.00171296 | 263.50% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 13.1 | -0.0390082 | mg/L | 0.00154247 | -0.0390082 | mg/L | 0.00154247 | 3.95% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 10.5 | -0.0006706 | mg/L | 0.00053004 | -0.0006706 | mg/L | 0.00053004 | 79.04% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -50.9 | -0.0154329 | mg/L | 0.01485600 | -0.0154329 | mg/L | 0.01485600 | 96.26% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 59
Autosampler Location: 120
Sample ID: AD26083-041 10D
Date Collected: 9/29/2021 7:06:09 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-041 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90922.0 | 97.2 | % | 0.34 | 97.2 | % | 0.34 | 0.35% |
| Y 371.029 | 35581.0 | 97.4 | % | 0.52 | 97.4 | % | 0.52 | 0.53% |
| Al 308.215† | -7.0 | 0.0106261 | mg/L | 0.01219278 | 0.0106261 | mg/L | 0.01219278 | 114.74% |
| Ba 233.527† | 819.8 | 0.172560 | mg/L | 0.0015607 | 0.172560 | mg/L | 0.0015607 | 0.90% |
| Ca 315.887† | 39034.4 | 7.34843 | mg/L | 0.145227 | 7.34843 | mg/L | 0.145227 | 1.98% |
| Cu 327.393† | 35.3 | 0.0036798 | mg/L | 0.00302723 | 0.0036798 | mg/L | 0.00302723 | 82.27% |
| Fe 273.955† | 942.5 | 0.789394 | mg/L | 0.0152377 | 0.789394 | mg/L | 0.0152377 | 1.93% |
| K 766.490† | 15088.4 | 8.08572 | mg/L | 0.144536 | 8.08572 | mg/L | 0.144536 | 1.79% |
| Mg 279.077† | 7395.4 | 11.1154 | mg/L | 0.19585 | 11.1154 | mg/L | 0.19585 | 1.76% |
| Mn 257.610† | 1177.8 | 0.0402133 | mg/L | 0.00035726 | 0.0402133 | mg/L | 0.00035726 | 0.89% |
| Mo 202.031† | -1.9 | 0.0019914 | mg/L | 0.00090893 | 0.0019914 | mg/L | 0.00090893 | 45.64% |
| Na 589.592† | 970290.4 | 98.8218 | mg/L | 2.79502 | 98.8218 | mg/L | 2.79502 | 2.83% |
| Ni 231.604† | 2.7 | 0.0007312 | mg/L | 0.00379412 | 0.0007312 | mg/L | 0.00379412 | 518.88% |
| Se 196.026† | 4.7 | 0.0127994 | mg/L | 0.01004402 | 0.0127994 | mg/L | 0.01004402 | 78.47% |
| Sn 189.927† | -6.5 | -0.0190293 | mg/L | 0.00617710 | -0.0190293 | mg/L | 0.00617710 | 32.46% |
| Ti 334.940† | -18.4 | 0.0004369 | mg/L | 0.00054917 | 0.0004369 | mg/L | 0.00054917 | 125.69% |
| V 290.880† | 120.5 | 0.0101743 | mg/L | 0.00064188 | 0.0101743 | mg/L | 0.00064188 | 6.31% |
| Zn 206.200† | -0.7 | -0.0008541 | mg/L | 0.00124396 | -0.0008541 | mg/L | 0.00124396 | 145.64% |
| Si 251.611† | 1710.7 | 0.581473 | mg/L | 0.0092279 | 0.581473 | mg/L | 0.0092279 | 1.59% |
| B 249.772† | 971.4 | 0.132475 | mg/L | 0.0014471 | 0.132475 | mg/L | 0.0014471 | 1.09% |
| Ce 413.764† | -29.9 | -0.0108380 | mg/L | 0.00497993 | -0.0108380 | mg/L | 0.00497993 | 45.95% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 60
Sample ID: AD26083-041 MR 10D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 121
Date Collected: 9/29/2021 7:10:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 MR 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90733.0 | 97.0 | % | 0.24 | 97.0 | % | 0.24 | 0.25% |
| Y 371.029 | 35429.9 | 96.9 | % | 0.29 | 96.9 | % | 0.29 | 0.29% |
| Al 308.215† | -3.6 | 0.0142956 | mg/L | 0.00416100 | 0.0142956 | mg/L | 0.00416100 | 29.11% |
| Ba 233.527† | 892.4 | 0.187820 | mg/L | 0.0017193 | 0.187820 | mg/L | 0.0017193 | 0.92% |
| Ca 315.887† | 42168.6 | 7.94337 | mg/L | 0.067591 | 7.94337 | mg/L | 0.067591 | 0.85% |
| Cu 327.393† | 23.4 | 0.0015064 | mg/L | 0.00195478 | 0.0015064 | mg/L | 0.00195478 | 129.76% |
| Fe 273.955† | 1029.0 | 0.862953 | mg/L | 0.0054667 | 0.862953 | mg/L | 0.0054667 | 0.63% |
| K 766.490† | 16365.1 | 8.74811 | mg/L | 0.039233 | 8.74811 | mg/L | 0.039233 | 0.45% |
| Mg 279.077† | 8010.2 | 12.0489 | mg/L | 0.11853 | 12.0489 | mg/L | 0.11853 | 0.98% |
| Mn 257.610† | 1293.2 | 0.0442453 | mg/L | 0.00038203 | 0.0442453 | mg/L | 0.00038203 | 0.86% |
| Mo 202.031† | -2.5 | 0.0015945 | mg/L | 0.00114180 | 0.0015945 | mg/L | 0.00114180 | 71.61% |
| Na 589.592† | 1061806.8 | 108.140 | mg/L | 1.0124 | 108.140 | mg/L | 1.0124 | 0.94% |
| Ni 231.604† | -2.4 | -0.0018750 | mg/L | 0.00178228 | -0.0018750 | mg/L | 0.00178228 | 95.06% |
| Se 196.026† | -0.6 | -0.0064076 | mg/L | 0.01594402 | -0.0064076 | mg/L | 0.01594402 | 248.83% |
| Sn 189.927† | -7.2 | -0.0209932 | mg/L | 0.01179905 | -0.0209932 | mg/L | 0.01179905 | 56.20% |
| Ti 334.940† | -35.0 | 0.0001688 | mg/L | 0.00080580 | 0.0001688 | mg/L | 0.00080580 | 477.35% |
| V 290.880† | 125.8 | 0.0104240 | mg/L | 0.00063410 | 0.0104240 | mg/L | 0.00063410 | 6.08% |
| Zn 206.200† | -0.3 | -0.0007421 | mg/L | 0.00118616 | -0.0007421 | mg/L | 0.00118616 | 159.84% |
| Si 251.611† | 1871.6 | 0.640291 | mg/L | 0.0052412 | 0.640291 | mg/L | 0.0052412 | 0.82% |
| B 249.772† | 1063.6 | 0.145267 | mg/L | 0.0022598 | 0.145267 | mg/L | 0.0022598 | 1.56% |
| Ce 413.764† | -28.8 | -0.0106080 | mg/L | 0.00985304 | -0.0106080 | mg/L | 0.00985304 | 92.88% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 61
Autosampler Location: 122
Sample ID: AD26083-043 MS 1 10D
Date Collected: 9/29/2021 7:14:27 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-043 MS 1 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90672.3 | 96.9 | % | 0.34 | 96.9 | % | 0.34 | 0.35% |
| Y 371.029 | 35405.5 | 96.9 | % | 0.41 | 96.9 | % | 0.41 | 0.43% |
| Al 308.215† | 460.4 | 0.507753 | mg/L | 0.0094687 | 0.507753 | mg/L | 0.0094687 | 1.86% |
| Ba 233.527† | 1087.1 | 0.228638 | mg/L | 0.0027066 | 0.228638 | mg/L | 0.0027066 | 1.18% |
| Ca 315.887† | 65935.6 | 12.4549 | mg/L | 0.15631 | 12.4549 | mg/L | 0.15631 | 1.26% |
| Cu 327.393† | 311.1 | 0.0628283 | mg/L | 0.00258642 | 0.0628283 | mg/L | 0.00258642 | 4.12% |
| Fe 273.955† | 1540.5 | 1.29827 | mg/L | 0.014222 | 1.29827 | mg/L | 0.014222 | 1.10% |
| K 766.490† | 25180.5 | 13.3220 | mg/L | 0.15558 | 13.3220 | mg/L | 0.15558 | 1.17% |
| Mg 279.077† | 10904.0 | 16.4433 | mg/L | 0.23304 | 16.4433 | mg/L | 0.23304 | 1.42% |
| Mn 257.610† | 2739.0 | 0.0933971 | mg/L | 0.00049308 | 0.0933971 | mg/L | 0.00049308 | 0.53% |
| Mo 202.031† | 66.8 | 0.0497529 | mg/L | 0.00035576 | 0.0497529 | mg/L | 0.00035576 | 0.72% |
| Na 589.592† | 1045604.9 | 106.490 | mg/L | 1.4186 | 106.490 | mg/L | 1.4186 | 1.33% |
| Ni 231.604† | 100.6 | 0.0514118 | mg/L | 0.00501561 | 0.0514118 | mg/L | 0.00501561 | 9.76% |
| Se 196.026† | 11.1 | 0.0360787 | mg/L | 0.01396875 | 0.0360787 | mg/L | 0.01396875 | 38.72% |
| Sn 189.927† | 11.1 | 0.0363708 | mg/L | 0.00402449 | 0.0363708 | mg/L | 0.00402449 | 11.07% |
| Ti 334.940† | 2252.4 | 0.0510902 | mg/L | 0.00074207 | 0.0510902 | mg/L | 0.00074207 | 1.45% |
| V 290.880† | 566.4 | 0.0606740 | mg/L | 0.00816574 | 0.0606740 | mg/L | 0.00816574 | 13.46% |
| Zn 206.200† | 192.9 | 0.0510110 | mg/L | 0.00219242 | 0.0510110 | mg/L | 0.00219242 | 4.30% |
| Si 251.611† | 1901.5 | 0.651213 | mg/L | 0.0105655 | 0.651213 | mg/L | 0.0105655 | 1.62% |
| B 249.772† | 1354.0 | 0.184741 | mg/L | 0.0022939 | 0.184741 | mg/L | 0.0022939 | 1.24% |
| Ce 413.764† | 198.1 | 0.0390241 | mg/L | 0.00146560 | 0.0390241 | mg/L | 0.00146560 | 3.76% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 62 Autosampler Location: 123
Sample ID: AD26083-045 MS 2 10D Date Collected: 9/29/2021 7:18:37 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-045 MS 2 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90552.3 | 96.8 | % | 0.97 | 96.8 | % | 0.97 | 1.00% |
| Y 371.029 | 35263.9 | 96.5 | % | 0.78 | 96.5 | % | 0.78 | 0.81% |
| Al 308.215† | 461.3 | 0.508616 | mg/L | 0.0365063 | 0.508616 | mg/L | 0.0365063 | 7.18% |
| Ba 233.527† | 1101.9 | 0.231735 | mg/L | 0.0116280 | 0.231735 | mg/L | 0.0116280 | 5.02% |
| Ca 315.887† | 68059.8 | 12.8581 | mg/L | 0.88507 | 12.8581 | mg/L | 0.88507 | 6.88% |
| Cu 327.393† | 287.4 | 0.0581379 | mg/L | 0.00566604 | 0.0581379 | mg/L | 0.00566604 | 9.75% |
| Fe 273.955† | 1555.9 | 1.31135 | mg/L | 0.071024 | 1.31135 | mg/L | 0.071024 | 5.42% |
| K 766.490† | 26029.4 | 13.7624 | mg/L | 0.81078 | 13.7624 | mg/L | 0.81078 | 5.89% |
| Mg 279.077† | 11264.5 | 16.9907 | mg/L | 1.07777 | 16.9907 | mg/L | 1.07777 | 6.34% |
| Mn 257.610† | 2831.3 | 0.0965855 | mg/L | 0.00732389 | 0.0965855 | mg/L | 0.00732389 | 7.58% |
| Mo 202.031† | 73.3 | 0.0543143 | mg/L | 0.00436235 | 0.0543143 | mg/L | 0.00436235 | 8.03% |
| Na 589.592† | 1101171.8 | 112.148 | mg/L | 6.2553 | 112.148 | mg/L | 6.2553 | 5.58% |
| Ni 231.604† | 96.5 | 0.0493003 | mg/L | 0.00486229 | 0.0493003 | mg/L | 0.00486229 | 9.86% |
| Se 196.026† | 14.0 | 0.0467152 | mg/L | 0.01776173 | 0.0467152 | mg/L | 0.01776173 | 38.02% |
| Sn 189.927† | 10.7 | 0.0354582 | mg/L | 0.00081160 | 0.0354582 | mg/L | 0.00081160 | 2.29% |
| Ti 334.940† | 2319.9 | 0.0526372 | mg/L | 0.00375291 | 0.0526372 | mg/L | 0.00375291 | 7.13% |
| V 290.880† | 571.4 | 0.0610422 | mg/L | 0.00278173 | 0.0610422 | mg/L | 0.00278173 | 4.56% |
| Zn 206.200† | 193.4 | 0.0511394 | mg/L | 0.00290149 | 0.0511394 | mg/L | 0.00290149 | 5.67% |
| Si 251.611† | 1945.0 | 0.667135 | mg/L | 0.0334055 | 0.667135 | mg/L | 0.0334055 | 5.01% |
| B 249.772† | 1369.3 | 0.186862 | mg/L | 0.0088900 | 0.186862 | mg/L | 0.0088900 | 4.76% |
| Ce 413.764† | 226.2 | 0.0451719 | mg/L | 0.00897274 | 0.0451719 | mg/L | 0.00897274 | 19.86% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 63
Sample ID: AD26083-041 PS 10D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 124
Date Collected: 9/29/2021 7:22:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 PS 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 88829.3 | 94.9 | % | 0.80 | 94.9 | % | 0.80 | 0.84% |
| Y 371.029 | 34176.8 | 93.5 | % | 0.96 | 93.5 | % | 0.96 | 1.03% |
| Al 308.215† | 5100.7 | 5.44071 | mg/L | 0.188642 | 5.44071 | mg/L | 0.188642 | 3.47% |
| Ba 233.527† | 3407.0 | 0.715097 | mg/L | 0.0263442 | 0.715097 | mg/L | 0.0263442 | 3.68% |
| Ca 315.887† | 349962.5 | 66.3702 | mg/L | 12.02631 | 66.3702 | mg/L | 12.02631 | 18.12% |
| Cu 327.393† | 2757.1 | 0.591347 | mg/L | 0.0262678 | 0.591347 | mg/L | 0.0262678 | 4.44% |
| Fe 273.955† | 7252.0 | 6.15869 | mg/L | 0.203582 | 6.15869 | mg/L | 0.203582 | 3.31% |
| K 766.490† | 134575.0 | 70.0810 | mg/L | 12.38582 | 70.0810 | mg/L | 12.38582 | 17.67% |
| Mg 279.077† | 45138.1 | 68.4296 | mg/L | 10.43828 | 68.4296 | mg/L | 10.43828 | 15.25% |
| Mn 257.610† | 17202.7 | 0.586599 | mg/L | 0.0208039 | 0.586599 | mg/L | 0.0208039 | 3.55% |
| Mo 202.031† | 757.0 | 0.530058 | mg/L | 0.0189077 | 0.530058 | mg/L | 0.0189077 | 3.57% |
| Na 589.592† | 1638231.1 | 166.833 | mg/L | 18.6358 | 166.833 | mg/L | 18.6358 | 11.17% |
| Ni 231.604† | 1033.9 | 0.534392 | mg/L | 0.0133880 | 0.534392 | mg/L | 0.0133880 | 2.51% |
| Se 196.026† | 140.8 | 0.506585 | mg/L | 0.0445563 | 0.506585 | mg/L | 0.0445563 | 8.80% |
| Sn 189.927† | 164.1 | 0.521479 | mg/L | 0.0137493 | 0.521479 | mg/L | 0.0137493 | 2.64% |
| Ti 334.940† | 24377.7 | 0.545298 | mg/L | 0.0193786 | 0.545298 | mg/L | 0.0193786 | 3.55% |
| V 290.880† | 4722.8 | 0.530465 | mg/L | 0.0191935 | 0.530465 | mg/L | 0.0191935 | 3.62% |
| Zn 206.200† | 1974.4 | 0.528228 | mg/L | 0.0197680 | 0.528228 | mg/L | 0.0197680 | 3.74% |
| Si 251.611† | 3536.4 | 1.24877 | mg/L | 0.062823 | 1.24877 | mg/L | 0.062823 | 5.03% |
| B 249.772† | 4476.4 | 0.608336 | mg/L | 0.0230819 | 0.608336 | mg/L | 0.0230819 | 3.79% |
| Ce 413.764† | 2292.0 | 0.497007 | mg/L | 0.0219046 | 0.497007 | mg/L | 0.0219046 | 4.41% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 64
Autosampler Location: 125
Sample ID: AD26083-041 SD 10D
Date Collected: 9/29/2021 7:26:56 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-041 SD 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92228.4 | 98.6 | % | 0.32 | 98.6 | % | 0.32 | 0.33% |
| Y 371.029 | 34893.5 | 95.5 | % | 0.39 | 95.5 | % | 0.39 | 0.41% |
| Al 308.215† | -8.0 | 0.0084113 | mg/L | 0.00701951 | 0.0084113 | mg/L | 0.00701951 | 83.45% |
| Ba 233.527† | 164.2 | 0.0346666 | mg/L | 0.00088382 | 0.0346666 | mg/L | 0.00088382 | 2.55% |
| Ca 315.887† | 7542.3 | 1.37046 | mg/L | 0.017545 | 1.37046 | mg/L | 0.017545 | 1.28% |
| Cu 327.393† | 48.8 | 0.0036884 | mg/L | 0.00318562 | 0.0036884 | mg/L | 0.00318562 | 86.37% |
| Fe 273.955† | 183.9 | 0.143819 | mg/L | 0.0069947 | 0.143819 | mg/L | 0.0069947 | 4.86% |
| K 766.490† | 2783.5 | 1.70135 | mg/L | 0.024021 | 1.70135 | mg/L | 0.024021 | 1.41% |
| Mg 279.077† | 1427.8 | 2.05315 | mg/L | 0.036986 | 2.05315 | mg/L | 0.036986 | 1.80% |
| Mn 257.610† | 235.7 | 0.0070220 | mg/L | 0.00015207 | 0.0070220 | mg/L | 0.00015207 | 2.17% |
| Mo 202.031† | -2.1 | 0.0018491 | mg/L | 0.00328838 | 0.0018491 | mg/L | 0.00328838 | 177.84% |
| Na 589.592† | 195928.0 | 19.9744 | mg/L | 0.05486 | 19.9744 | mg/L | 0.05486 | 0.27% |
| Ni 231.604† | -13.3 | -0.0077634 | mg/L | 0.00070072 | -0.0077634 | mg/L | 0.00070072 | 9.03% |
| Se 196.026† | -2.0 | -0.0119318 | mg/L | 0.02631677 | -0.0119318 | mg/L | 0.02631677 | 220.56% |
| Sn 189.927† | -1.8 | -0.0067543 | mg/L | 0.00865324 | -0.0067543 | mg/L | 0.00865324 | 128.11% |
| Ti 334.940† | -0.8 | -0.0001486 | mg/L | 0.00054637 | -0.0001486 | mg/L | 0.00054637 | 367.74% |
| V 290.880† | 18.5 | 0.0017857 | mg/L | 0.00073700 | 0.0017857 | mg/L | 0.00073700 | 41.27% |
| Zn 206.200† | -1.8 | -0.0011477 | mg/L | 0.00089630 | -0.0011477 | mg/L | 0.00089630 | 78.09% |
| Si 251.611† | 343.6 | 0.0818088 | mg/L | 0.00359299 | 0.0818088 | mg/L | 0.00359299 | 4.39% |
| B 249.772† | 198.2 | 0.0253253 | mg/L | 0.00081093 | 0.0253253 | mg/L | 0.00081093 | 3.20% |
| Ce 413.764† | -10.7 | -0.0066452 | mg/L | 0.00626304 | -0.0066452 | mg/L | 0.00626304 | 94.25% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 65
Sample ID: AD26083-037 10D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 126
Date Collected: 9/29/2021 7:31:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-037 10D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 88263.9 | 94.3 | % | 0.75 | 94.3 | % | 0.75 | 0.80% |
| Y 371.029 | 33964.2 | 92.9 | % | 0.67 | 92.9 | % | 0.67 | 0.72% |
| Al 308.215† | -7.7 | 0.0118788 | mg/L | 0.00895304 | 0.0118788 | mg/L | 0.00895304 | 75.37% |
| Ba 233.527† | 24.9 | 0.0052756 | mg/L | 0.00046729 | 0.0052756 | mg/L | 0.00046729 | 8.86% |
| Ca 315.887† | 417330.3 | 79.1582 | mg/L | 0.40422 | 79.1582 | mg/L | 0.40422 | 0.51% |
| Cu 327.393† | -98.6 | 0.0094840 | mg/L | 0.00492641 | 0.0094840 | mg/L | 0.00492641 | 51.94% |
| Fe 273.955† | 243.5 | 0.194571 | mg/L | 0.0054739 | 0.194571 | mg/L | 0.0054739 | 2.81% |
| K 766.490† | 4968.6 | 2.83513 | mg/L | 0.011463 | 2.83513 | mg/L | 0.011463 | 0.40% |
| Mg 279.077† | 17741.0 | 26.8257 | mg/L | 0.08577 | 26.8257 | mg/L | 0.08577 | 0.32% |
| Mn 257.610† | 14470.1 | 0.487438 | mg/L | 0.0009969 | 0.487438 | mg/L | 0.0009969 | 0.20% |
| Mo 202.031† | -7.3 | -0.0017536 | mg/L | 0.00289839 | -0.0017536 | mg/L | 0.00289839 | 165.28% |
| Na 589.592† | 1988191.7 | 202.467 | mg/L | 1.0861 | 202.467 | mg/L | 1.0861 | 0.54% |
| Ni 231.604† | -3.8 | -0.0028388 | mg/L | 0.00368699 | -0.0028388 | mg/L | 0.00368699 | 129.88% |
| Se 196.026† | -0.9 | -0.0080955 | mg/L | 0.02297973 | -0.0080955 | mg/L | 0.02297973 | 283.86% |
| Sn 189.927† | -12.5 | -0.0274555 | mg/L | 0.00586322 | -0.0274555 | mg/L | 0.00586322 | 21.36% |
| Ti 334.940† | -631.5 | -0.0013439 | mg/L | 0.00122794 | -0.0013439 | mg/L | 0.00122794 | 91.37% |
| V 290.880† | 307.4 | 0.0259212 | mg/L | 0.00237486 | 0.0259212 | mg/L | 0.00237486 | 9.16% |
| Zn 206.200† | 14.5 | 0.0032236 | mg/L | 0.00036624 | 0.0032236 | mg/L | 0.00036624 | 11.36% |
| Si 251.611† | 1730.8 | 0.588815 | mg/L | 0.0039195 | 0.588815 | mg/L | 0.0039195 | 0.67% |
| B 249.772† | 255.2 | 0.0332145 | mg/L | 0.00153447 | 0.0332145 | mg/L | 0.00153447 | 4.62% |
| Ce 413.764† | 11.9 | -0.0016925 | mg/L | 0.00339425 | -0.0016925 | mg/L | 0.00339425 | 200.55% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 66
Autosampler Location: 6
Sample ID: CCV V-352960
Date Collected: 9/29/2021 7:35:14 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90568.5 | 96.8 | % | 0.21 | 96.8 | % | 0.21 | 0.21% |
| Y 371.029 | 34194.2 | 93.6 | % | 1.23 | 93.6 | % | 1.23 | 1.31% |
| Al 308.215† | 4606.6 | 4.91324 | mg/L | 0.055212 | 4.91324 | mg/L | 0.055212 | 1.12% |
| QC value within limits for Al 308.215 Recovery = 98.26% | | | | | | | | |
| Ba 233.527† | 2291.7 | 0.480669 | mg/L | 0.0017812 | 0.480669 | mg/L | 0.0017812 | 0.37% |
| QC value within limits for Ba 233.527 Recovery = 96.13% | | | | | | | | |
| Ca 315.887† | 252444.4 | 47.8588 | mg/L | 0.02441 | 47.8588 | mg/L | 0.02441 | 0.05% |
| QC value within limits for Ca 315.887 Recovery = 95.72% | | | | | | | | |
| Cu 327.393† | 2415.8 | 0.512504 | mg/L | 0.0116225 | 0.512504 | mg/L | 0.0116225 | 2.27% |
| QC value within limits for Cu 327.393 Recovery = 102.50% | | | | | | | | |
| Fe 273.955† | 5690.4 | 4.82975 | mg/L | 0.097490 | 4.82975 | mg/L | 0.097490 | 2.02% |
| QC value within limits for Fe 273.955 Recovery = 96.60% | | | | | | | | |
| K 766.490† | 92850.5 | 48.4323 | mg/L | 0.06322 | 48.4323 | mg/L | 0.06322 | 0.13% |
| QC value within limits for K 766.490 Recovery = 96.86% | | | | | | | | |
| Mg 279.077† | 31855.5 | 48.2593 | mg/L | 0.67155 | 48.2593 | mg/L | 0.67155 | 1.39% |
| QC value within limits for Mg 279.077 Recovery = 96.52% | | | | | | | | |
| Mn 257.610† | 14455.3 | 0.490976 | mg/L | 0.0058607 | 0.490976 | mg/L | 0.0058607 | 1.19% |
| QC value within limits for Mn 257.610 Recovery = 98.20% | | | | | | | | |
| Mo 202.031† | 687.6 | 0.481746 | mg/L | 0.0039569 | 0.481746 | mg/L | 0.0039569 | 0.82% |
| QC value within limits for Mo 202.031 Recovery = 96.35% | | | | | | | | |
| Na 589.592† | 482103.4 | 49.1134 | mg/L | 0.05341 | 49.1134 | mg/L | 0.05341 | 0.11% |
| QC value within limits for Na 589.592 Recovery = 98.23% | | | | | | | | |
| Ni 231.604† | 937.0 | 0.483973 | mg/L | 0.0036722 | 0.483973 | mg/L | 0.0036722 | 0.76% |
| QC value within limits for Ni 231.604 Recovery = 96.79% | | | | | | | | |
| Se 196.026† | 134.3 | 0.481976 | mg/L | 0.0079857 | 0.481976 | mg/L | 0.0079857 | 1.66% |
| QC value within limits for Se 196.026 Recovery = 96.40% | | | | | | | | |
| Sn 189.927† | 154.9 | 0.487965 | mg/L | 0.0021687 | 0.487965 | mg/L | 0.0021687 | 0.44% |
| QC value within limits for Sn 189.927 Recovery = 97.59% | | | | | | | | |
| Ti 334.940† | 21954.7 | 0.489128 | mg/L | 0.0074838 | 0.489128 | mg/L | 0.0074838 | 1.53% |
| QC value within limits for Ti 334.940 Recovery = 97.83% | | | | | | | | |
| V 290.880† | 4106.3 | 0.465797 | mg/L | 0.0109524 | 0.465797 | mg/L | 0.0109524 | 2.35% |
| QC value within limits for V 290.880 Recovery = 93.16% | | | | | | | | |
| Zn 206.200† | 1783.3 | 0.477033 | mg/L | 0.0008008 | 0.477033 | mg/L | 0.0008008 | 0.17% |
| QC value within limits for Zn 206.200 Recovery = 95.41% | | | | | | | | |
| Si 251.611† | 13327.5 | 4.82743 | mg/L | 0.066945 | 4.82743 | mg/L | 0.066945 | 1.39% |
| QC value within limits for Si 251.611 Recovery = 96.55% | | | | | | | | |
| B 249.772† | 3398.3 | 0.460657 | mg/L | 0.0098910 | 0.460657 | mg/L | 0.0098910 | 2.15% |
| QC value within limits for B 249.772 Recovery = 92.13% | | | | | | | | |
| Ce 413.764† | 2213.2 | 0.479776 | mg/L | 0.0124820 | 0.479776 | mg/L | 0.0124820 | 2.60% |
| QC value within limits for Ce 413.764 Recovery = 95.96% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 67
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 1
Date Collected: 9/29/2021 7:39:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

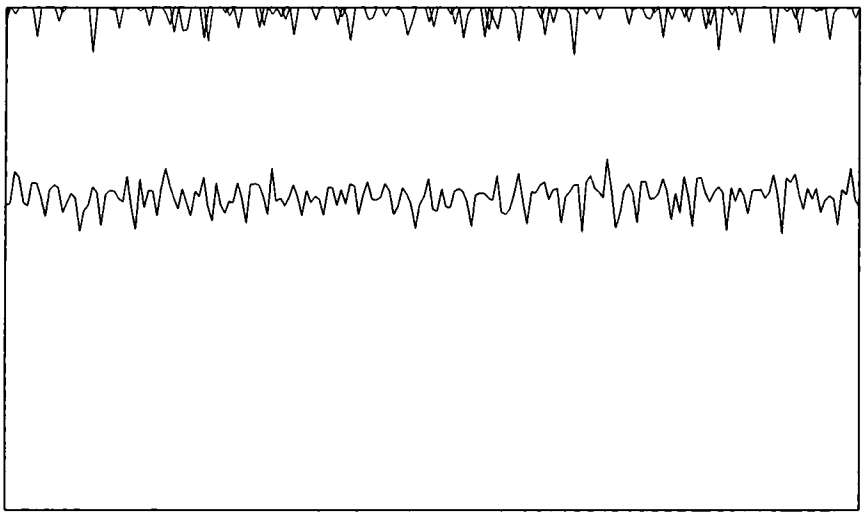
Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90160.3 | 96.4 | % | 0.54 | 96.4 | % | 0.54 | 0.56% |
| Y 371.029 | 35211.4 | 96.3 | % | 0.58 | 96.3 | % | 0.58 | 0.60% |
| Al 308.215† | -4.2 | 0.0123440 | mg/L | 0.01415765 | 0.0123440 | mg/L | 0.01415765 | 114.69% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -1.5 | -0.0001756 | mg/L | 0.00045895 | -0.0001756 | mg/L | 0.00045895 | 261.37% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -16.6 | -0.0644138 | mg/L | 0.00205049 | -0.0644138 | mg/L | 0.00205049 | 3.18% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 28.5 | -0.0011682 | mg/L | 0.00130732 | -0.0011682 | mg/L | 0.00130732 | 111.91% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -7.5 | -0.0190361 | mg/L | 0.00150013 | -0.0190361 | mg/L | 0.00150013 | 7.88% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -142.5 | 0.183236 | mg/L | 0.0062024 | 0.183236 | mg/L | 0.0062024 | 3.38% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 0.1 | -0.114848 | mg/L | 0.0049407 | -0.114848 | mg/L | 0.0049407 | 4.30% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -9.4 | -0.0015791 | mg/L | 0.00054035 | -0.0015791 | mg/L | 0.00054035 | 34.22% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -2.6 | 0.0015109 | mg/L | 0.00286046 | 0.0015109 | mg/L | 0.00286046 | 189.32% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 241.7 | 0.0491835 | mg/L | 0.00528429 | 0.0491835 | mg/L | 0.00528429 | 10.74% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -3.9 | -0.0029691 | mg/L | 0.00541916 | -0.0029691 | mg/L | 0.00541916 | 182.52% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -2.1 | -0.0124603 | mg/L | 0.03143387 | -0.0124603 | mg/L | 0.03143387 | 252.27% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.6 | -0.0096985 | mg/L | 0.00239929 | -0.0096985 | mg/L | 0.00239929 | 24.74% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 25.9 | 0.0002034 | mg/L | 0.00051941 | 0.0002034 | mg/L | 0.00051941 | 255.33% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -3.7 | 0.0000362 | mg/L | 0.00065463 | 0.0000362 | mg/L | 0.00065463 | >999.9% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 1.2 | -0.0003459 | mg/L | 0.00125363 | -0.0003459 | mg/L | 0.00125363 | 362.44% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 15.7 | -0.0380303 | mg/L | 0.00047948 | -0.0380303 | mg/L | 0.00047948 | 1.26% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 2.5 | -0.0017923 | mg/L | 0.00026750 | -0.0017923 | mg/L | 0.00026750 | 14.93% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -78.2 | -0.0214182 | mg/L | 0.00839911 | -0.0214182 | mg/L | 0.00839911 | 39.21% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

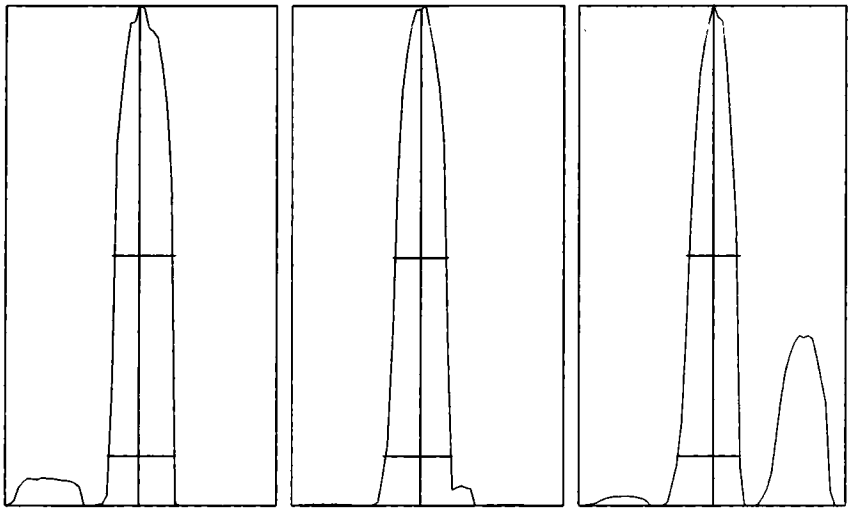
# Tune Report

Tune File : ATUNE.U
Comment : TN092421



| | | |
|---|---|---|
| Integration Time: | 0.1000 sec | |
| Sampling Period: | 0.6200 sec | |
| n: | 200 | |
| Oxide: | 156/140 | 0.65 |
| Doubly Charged: | 70/140 | 1.18 |

| m/z | Range | Count | Mean | RSD% | Background |
|---|---|---|---|---|---|
| 7 | 50,000 | 30169.0 | 31166.2 | 4.54 | 5.60 |
| 89 | 200,000 | 210013.0 | 201907.7 | 3.45 | 7.00 |
| 205 | 100,000 | 103432.0 | 105272.3 | 4.21 | 19.60 |
| 156/140 | 2 | 0.631% | 0.643% | 6.81 | |
| 70/140 | 2 | 1.189% | 1.185% | 6.52 | |



| m/z: | 7 | 89 | 1( |
|---|---|---|---|
| Height: | 31,604 | 207,741 | |
| Axis: | 7.00 | 88.95 | 2 |
| W-50%: | 0.70 | 0.60 | |
| W-10%: | 0.7500 | 0.7500 | |

| | |
|---|---|
| Integration Time: | 0.1000 sec |
| Acquisition Time: | 22.7600 sec |

Y axis : Linear



Generated : Sep 24, 2021 09:39:11
Printed : Sep 24, 2021 09:39:14

# Tune Report

Tune File : ATUNE.U
Comment : TN092421

## Tuning Parameters

| ===Plasma Condition=== | | | ===Ion Lenses=== | | | ===Q-Pole Parameters=== | | |
|---|---|---|---|---|---|---|---|---|
| RF Power | : | 1500 W | Extract 1 | : | 0 V | AMU Gain | : | 127 |
| RF Matching | : | 1.25 V | Extract 2 | : | -140 V | AMU Offset | : | 127 |
| Smpl Depth | : | 10 mm | Omega Bias | : | -65 V | Axis Gain | : | 1 |
| Torch-H | : | -1.8 mm | Omega Lens | : | 7 V | Axis Offset | : | 0.06 |
| Torch-V | : | 0.8 mm | Cell Entrance | : | -40 V | QP Bias | : | -3 V |
| Carrier Gas | : | 0.6 L/min | Cell Exit | : | -60 V | | | |
| Dilution Mode | : | ON | Deflect | : | 13 V | ===Detector Parameters=== | | |
| Dilution Gas | : | 0.45 L/min | Plate Bias | : | -40 V | Discriminator | : | 4.5 mV |
| Optional Gas | : | --- % | ===Octopole Parameters=== | | | Analog HV | : | 1685 V |
| Nebulizer Pump | : | 0.1 rps | OctP RF | : | 190 V | Pulse HV | : | 947 V |
| Sample Pump | : | --- rps | OctP Bias | : | -8 V | | | |
| S/C Temp | : | 2 degC | | | | | | |

===Reaction Cell===

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Reaction Mode | : | OFF | | | | | | |
| H2 Gas | : | --- mL/min | He Gas | : | 0 mL/min | Optional Gas | : | --- % |



Generated : Sep 24, 2021 09:39:11
Printed : Sep 24, 2021 09:39:17

C:\ICPMH\1\7500\QCTUNE.D

QC Tune Report

Data File: C:\ICPMH\1\7500\QCTUNE.D
Date Acquired: 24 Sep 2021 09:51:02 am
Operator: PC
Misc Info:
Vial Number: 4
Current Method: C:\ICPMH\1\METHODS\TN6020.m

Minimum Response(CPS)

| Element | Actual | Required | Flag |
|---|---|---|---|
| 7 Li | 3208000.00 | 0.00 | |
| 59 Co | 13158300.00 | 0.00 | |
| 115 In | 17388400.00 | 0.00 | |
| 205 Tl | 9921050.00 | 0.00 | |

RSD (%)

| Element | Actual | Required | Flag |
|---|---|---|---|
| 7 Li | 1.72 | 5.00 | |
| 59 Co | 0.62 | 5.00 | |
| 115 In | 0.48 | 5.00 | |
| 205 Tl | 0.68 | 5.00 | |

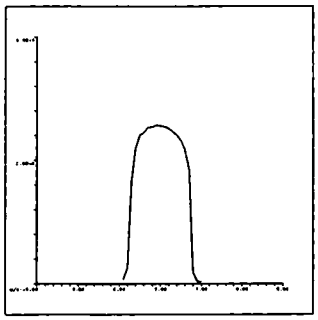
Ion Ratio

| Element | Actual | Required | Flag |
|---|---|---|---|
| 7 Li | | | |
| 59 Co | | | |
| 115 In | | | |
| 205 Tl | | | |

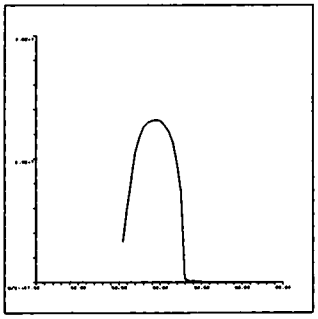
Maximum Bkg. Count(CPS)

| Element | Actual | Required | Flag |
|---|---|---|---|

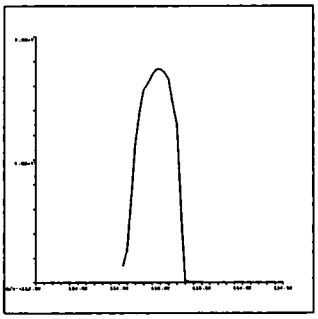
C:\ICPMH\1\7500\QCTUNE.D



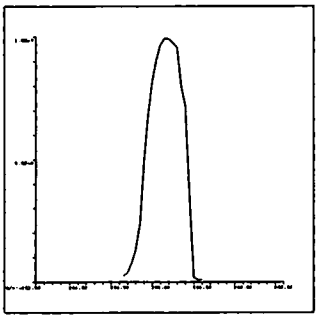
7 Li
Mass Calib.
Actual: 6.95
Required: 6.90-7.10
Flag:
Peak Width
Actual: 0.70
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 58.95
Required: 58.90-59.10
Flag:
Peak Width
Actual: 0.70
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90-115.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 205.10
Required: 204.90-205.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:

QC Tune Result:Pass

# Calibration Blank Report

File A092421B
B- 27870
QC 94428

Rinse

Report As, Be, Cd, Co, Pb, Sb, Se, Tl

Paul C

9/26/21

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **001CALB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T16:46:16-04:00** |
| **Type** | **CalBlk** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 192 | 10.01 |
| Na | 23 | 115 | 2 | 245676 | 1.28 |
| Mg | 24 | 115 | 2 | 6480 | 4.23 |
| Al | 27 | 115 | 2 | 1886 | 1.60 |
| K | 39 | 115 | 2 | 85241 | 0.43 |
| Ca | 44 | 115 | 2 | 1945 | 1.59 |
| V | 51 | 115 | 2 | 550 | 11.06 |
| Cr | 52 | 115 | 2 | 2927 | 0.63 |
| Mn | 55 | 115 | 2 | 6095 | 3.03 |
| Fe | 56 | 115 | 2 | 246105 | 0.96 |
| Co | 59 | 115 | 2 | 1198 | 4.67 |
| Ni | 60 | 115 | 2 | 2182 | 5.50 |
| Cu | 65 | 115 | 2 | 28161 | 1.13 |
| Zn | 66 | 115 | 2 | 8740 | 1.32 |
| As | 75 | 115 | 2 | 94 | 10.59 |
| Se | 78 | 115 | 2 | 230 | 14.96 |
| Kr | 83 | 115 | 1 | 2175 | 3.29 |
| Mo | 95 | 115 | 1 | 1858 | 8.84 |
| Ag | 107 | 115 | 1 | 2514 | 1.73 |
| Cd | 111 | 115 | 1 | 261 | 5.89 |
| Sb | 121 | 115 | 1 | 1599 | 4.01 |
| Ba | 137 | 159 | 1 | 1161 | 5.39 |
| Tl | 205 | 165 | 1 | 6465 | 0.37 |
| (Pb) | 206 | 165 | 1 | 2054 | 7.39 |
| (Pb) | 207 | 165 | 1 | 1569 | 8.25 |
| Pb | 208 | 165 | 1 | 4127 | 2.46 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD |
|---|---|---|---|---|
| Sc | 45 | 1 | 2965951 | 1.20 |
| Sc | 45 | 2 | 186398 | 0.84 |
| In | 115 | 1 | 4132062 | 0.89 |
| In | 115 | 2 | 1276604 | 1.12 |
| Tb | 159 | 1 | 4779984 | 0.28 |
| Tb | 159 | 2 | 3210484 | 0.61 |
| Ho | 165 | 1 | 4511803 | 0.89 |
| Ho | 165 | 2 | 3123698 | 0.52 |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Blank Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **002CALB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T16:50:46-04:00** |
| **Type** | **CalBlk** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 189 | 26.43 |
| Na | 23 | 115 | 2 | 223283 | 1.33 |
| Mg | 24 | 115 | 2 | 6331 | 2.17 |
| Al | 27 | 115 | 2 | 1986 | 6.10 |
| K | 39 | 115 | 2 | 84245 | 1.80 |
| Ca | 44 | 115 | 2 | 1950 | 3.51 |
| V | 51 | 115 | 2 | 499 | 8.82 |
| Cr | 52 | 115 | 2 | 2993 | 1.42 |
| Mn | 55 | 115 | 2 | 5950 | 3.44 |
| Fe | 56 | 115 | 2 | 242630 | 1.04 |
| Co | 59 | 115 | 2 | 1222 | 14.47 |
| Ni | 60 | 115 | 2 | 2112 | 5.66 |
| Cu | 65 | 115 | 2 | 27764 | 0.34 |
| Zn | 66 | 115 | 2 | 8704 | 6.09 |
| As | 75 | 115 | 2 | 82 | 20.02 |
| Se | 78 | 115 | 2 | 218 | 15.28 |
| Kr | 83 | 115 | 1 | 2269 | 4.36 |
| Mo | 95 | 115 | 1 | 1794 | 12.26 |
| Ag | 107 | 115 | 1 | 2634 | 3.11 |
| Cd | 111 | 115 | 1 | 260 | 12.30 |
| Sb | 121 | 115 | 1 | 1528 | 6.27 |
| Ba | 137 | 159 | 1 | 1220 | 1.91 |
| Tl | 205 | 165 | 1 | 5441 | 1.88 |
| (Pb) | 206 | 165 | 1 | 1985 | 0.76 |
| (Pb) | 207 | 165 | 1 | 1487 | 1.57 |
| Pb | 208 | 165 | 1 | 3895 | 2.65 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD |
|---|---|---|---|---|
| Sc | 45 | 1 | 2947446 | 0.62 |
| Sc | 45 | 2 | 184486 | 0.74 |
| In | 115 | 1 | 4096112 | 0.79 |
| In | 115 | 2 | 1265134 | 0.92 |
| Tb | 159 | 1 | 4763019 | 0.95 |
| Tb | 159 | 2 | 3207233 | 1.10 |
| Ho | 165 | 1 | 4515146 | 1.37 |
| Ho | 165 | 2 | 3105768 | 0.64 |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Blank Report

| | |
|---|---|
| **Sample Name** | **CalBlk V-357834** |
| **Data File Name** | **003CALB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T16:55:13-04:00** |
| **Type** | **CalBlk** |
| **VialNumber** | **2101** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 33 | 19.99 |
| Na | 23 | 115 | 2 | 180153 | 0.66 |
| Mg | 24 | 115 | 2 | 1734 | 5.21 |
| Al | 27 | 115 | 2 | 877 | 12.14 |
| K | 39 | 115 | 2 | 78304 | 0.99 |
| Ca | 44 | 115 | 2 | 1281 | 3.85 |
| V | 51 | 115 | 2 | 207 | 18.60 |
| Cr | 52 | 115 | 2 | 3253 | 0.39 |
| Mn | 55 | 115 | 2 | 4502 | 2.92 |
| Fe | 56 | 115 | 2 | 101005 | 1.58 |
| Co | 59 | 115 | 2 | 253 | 28.86 |
| Ni | 60 | 115 | 2 | 1082 | 9.21 |
| Cu | 65 | 115 | 2 | 8752 | 2.53 |
| Zn | 66 | 115 | 2 | 6889 | 3.50 |
| As | 75 | 115 | 2 | 33 | 5.20 |
| Se | 78 | 115 | 2 | 211 | 8.17 |
| Kr | 83 | 115 | 1 | 2224 | 3.64 |
| Mo | 95 | 115 | 1 | 386 | 10.95 |
| Ag | 107 | 115 | 1 | 3019 | 6.02 |
| Cd | 111 | 115 | 1 | 60 | 8.49 |
| Sb | 121 | 115 | 1 | 750 | 7.48 |
| Ba | 137 | 159 | 1 | 717 | 6.05 |
| Tl | 205 | 165 | 1 | 1771 | 8.70 |
| (Pb) | 206 | 165 | 1 | 1346 | 5.57 |
| (Pb) | 207 | 165 | 1 | 1141 | 18.41 |
| Pb | 208 | 185 | 1 | 2750 | 2.82 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD |
|---|---|---|---|---|
| Sc | 45 | 1 | 3015283 | 0.29 |
| Sc | 45 | 2 | 183263 | 1.34 |
| In | 115 | 1 | 4174236 | 1.34 |
| In | 115 | 2 | 1258594 | 0.81 |
| Tb | 159 | 1 | 4869290 | 0.53 |
| Tb | 159 | 2 | 3206652 | 0.48 |
| Ho | 165 | 1 | 4577809 | 0.18 |
| Ho | 165 | 2 | 3119565 | 1.07 |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd1 V-357835** |
| **Data File Name** | **004CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T16:59:44-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 5430 | 6.68 |
| Na | 23 | 115 | 2 | 329457 | 0.83 |
| Mg | 24 | 115 | 2 | 90449 | 0.67 |
| Al | 27 | 115 | 2 | 11775 | 3.87 |
| K | 39 | 115 | 2 | 172971 | 1.07 |
| Ca | 44 | 115 | 2 | 6251 | 2.11 |
| V | 51 | 115 | 2 | 13434 | 3.67 |
| Cr | 52 | 115 | 2 | 19917 | 2.04 |
| Mn | 55 | 115 | 2 | 12235 | 3.00 |
| Fe | 56 | 115 | 2 | 1619851 | 0.92 |
| Co | 59 | 115 | 2 | 26227 | 1.36 |
| Ni | 60 | 115 | 2 | 7796 | 1.16 |
| Cu | 65 | 115 | 2 | 16750 | 0.06 |
| Zn | 66 | 115 | 2 | 9003 | 1.10 |
| As | 75 | 115 | 2 | 2041 | 2.76 |
| Se | 78 | 115 | 2 | 823 | 8.30 |
| Kr | 83 | 115 | 1 | 2171 | 2.76 |
| Mo | 95 | 115 | 1 | 17781 | 1.61 |
| Ag | 107 | 115 | 1 | 53963 | 1.16 |
| Cd | 111 | 115 | 1 | 8553 | 1.86 |
| Sb | 121 | 115 | 1 | 36815 | 0.98 |
| Ba | 137 | 159 | 1 | 15070 | 2.11 |
| Tl | 205 | 165 | 1 | 56282 | 0.63 |
| (Pb) | 206 | 165 | 1 | 21910 | 2.48 |
| (Pb) | 207 | 165 | 1 | 17806 | 1.55 |
| Pb | 208 | 165 | 1 | 44640 | 0.35 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3072796 | 1.02 | 3015283 | 101.9 | 70 | 130 | |
| Sc | 45 | 2 | 181124 | 0.90 | 183263 | 98.8 | 70 | 130 | |
| In | 115 | 1 | 4241587 | 0.41 | 4174236 | 101.6 | 70 | 130 | |
| In | 115 | 2 | 1250708 | 0.99 | 1258594 | 99.4 | 70 | 130 | |
| Tb | 159 | 1 | 4937860 | 0.32 | 4869290 | 101.4 | 70 | 130 | |
| Tb | 159 | 2 | 3221350 | 1.37 | 3206652 | 100.5 | 70 | 130 | |
| Ho | 165 | 1 | 4652154 | 1.24 | 4577809 | 101.6 | 70 | 130 | |
| Ho | 165 | 2 | 3135518 | 1.85 | 3119565 | 100.5 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd2 V-357836** |
| **Data File Name** | **005CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T17:04:13-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2103** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 44503 | 2.53 |
| Na | 23 | 115 | 2 | 1740748 | 0.57 |
| Mg | 24 | 115 | 2 | 745530 | 1.56 |
| Al | 27 | 115 | 2 | 91923 | 1.53 |
| K | 39 | 115 | 2 | 944081 | 0.73 |
| Ca | 44 | 115 | 2 | 46034 | 0.47 |
| V | 51 | 115 | 2 | 107039 | 0.41 |
| Cr | 52 | 115 | 2 | 136926 | 0.86 |
| Mn | 55 | 115 | 2 | 80673 | 1.24 |
| Fe | 56 | 115 | 2 | 11298420 | 0.74 |
| Co | 59 | 115 | 2 | 219622 | 0.70 |
| Ni | 60 | 115 | 2 | 61912 | 0.70 |
| Cu | 65 | 115 | 2 | 88343 | 1.41 |
| Zn | 66 | 115 | 2 | 32264 | 1.74 |
| As | 75 | 115 | 2 | 16426 | 1.35 |
| Se | 78 | 115 | 2 | 5861 | 5.10 |
| Kr | 83 | 115 | 1 | 2198 | 8.25 |
| Mo | 95 | 115 | 1 | 145457 | 0.38 |
| Ag | 107 | 115 | 1 | 393531 | 1.28 |
| Cd | 111 | 115 | 1 | 71635 | 0.32 |
| Sb | 121 | 115 | 1 | 281334 | 0.14 |
| Ba | 137 | 159 | 1 | 108242 | 0.63 |
| Tl | 205 | 165 | 1 | 474478 | 0.68 |
| (Pb) | 206 | 165 | 1 | 172247 | 0.76 |
| (Pb) | 207 | 165 | 1 | 141637 | 0.74 |
| Pb | 208 | 165 | 1 | 350158 | 1.37 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3085203 | 0.60 | 3015283 | 102.3 | 70 | 130 | |
| Sc | 45 | 2 | 182672 | 0.77 | 183263 | 99.7 | 70 | 130 | |
| In | 115 | 1 | 4250679 | 0.51 | 4174236 | 101.8 | 70 | 130 | |
| In | 115 | 2 | 1263485 | 0.79 | 1258594 | 100.4 | 70 | 130 | |
| Tb | 159 | 1 | 5035344 | 1.59 | 4869290 | 103.4 | 70 | 130 | |
| Tb | 159 | 2 | 3259362 | 1.31 | 3206652 | 101.6 | 70 | 130 | |
| Ho | 165 | 1 | 4784873 | 1.58 | 4577809 | 104.5 | 70 | 130 | |
| Ho | 165 | 2 | 3117839 | 0.57 | 3119565 | 99.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd3 V-357837** |
| **Data File Name** | **006CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T17:08:40-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2104** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 91266 | 1.42 |
| Na | 23 | 115 | 2 | 3248712 | 0.83 |
| Mg | 24 | 115 | 2 | 1533728 | 0.38 |
| Al | 27 | 115 | 2 | 177970 | 0.57 |
| K | 39 | 115 | 2 | 1829839 | 1.10 |
| Ca | 44 | 115 | 2 | 91459 | 0.71 |
| V | 51 | 115 | 2 | 216619 | 0.57 |
| Cr | 52 | 115 | 2 | 272746 | 0.23 |
| Mn | 55 | 115 | 2 | 158440 | 0.35 |
| Fe | 56 | 115 | 2 | 22618194 | 0.71 |
| Co | 59 | 115 | 2 | 444577 | 0.63 |
| Ni | 60 | 115 | 2 | 122996 | 1.80 |
| Cu | 65 | 115 | 2 | 172941 | 1.00 |
| Zn | 66 | 115 | 2 | 56071 | 1.54 |
| As | 75 | 115 | 2 | 33194 | 0.80 |
| Se | 78 | 115 | 2 | 11795 | 1.86 |
| Kr | 83 | 115 | 1 | 2239 | 3.49 |
| Mo | 95 | 115 | 1 | 294406 | 0.42 |
| Ag | 107 | 115 | 1 | 787486 | 0.41 |
| Cd | 111 | 115 | 1 | 142550 | 0.79 |
| Sb | 121 | 115 | 1 | 569796 | 1.09 |
| Ba | 137 | 159 | 1 | 215605 | 1.33 |
| Tl | 205 | 165 | 1 | 953495 | 1.03 |
| (Pb) | 206 | 165 | 1 | 339759 | 0.23 |
| (Pb) | 207 | 165 | 1 | 283765 | 0.32 |
| Pb | 208 | 165 | 1 | 696322 | 0.78 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3083627 | 0.82 | 3015283 | 102.3 | 70 | 130 | |
| Sc | 45 | 2 | 183251 | 0.61 | 183263 | 100.0 | 70 | 130 | |
| In | 115 | 1 | 4229048 | 1.37 | 4174236 | 101.3 | 70 | 130 | |
| In | 115 | 2 | 1254063 | 0.44 | 1258594 | 99.6 | 70 | 130 | |
| Tb | 159 | 1 | 4932207 | 0.66 | 4869290 | 101.3 | 70 | 130 | |
| Tb | 159 | 2 | 3244500 | 0.92 | 3206652 | 101.2 | 70 | 130 | |
| Ho | 165 | 1 | 4714767 | 0.72 | 4577809 | 103.0 | 70 | 130 | |
| Ho | 165 | 2 | 3151264 | 0.45 | 3119565 | 101.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd4 V-357838** |
| **Data File Name** | **007CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T17:13:02-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2105** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 450615 | 1.10 |
| Na | 23 | 115 | 2 | 15687366 | 0.88 |
| Mg | 24 | 115 | 2 | 7430873 | 0.84 |
| Al | 27 | 115 | 2 | 874322 | 0.74 |
| K | 39 | 115 | 2 | 8619540 | 0.73 |
| Ca | 44 | 115 | 2 | 444293 | 0.99 |
| V | 51 | 115 | 2 | 1069595 | 0.46 |
| Cr | 52 | 115 | 2 | 1342997 | 0.89 |
| Mn | 55 | 115 | 2 | 761681 | 0.87 |
| Fe | 56 | 115 | 2 | 109764302 | 0.58 |
| Co | 59 | 115 | 2 | 2187817 | 1.75 |
| Ni | 60 | 115 | 2 | 589467 | 0.22 |
| Cu | 65 | 115 | 2 | 808786 | 0.32 |
| Zn | 66 | 115 | 2 | 245258 | 0.13 |
| As | 75 | 115 | 2 | 165097 | 0.29 |
| Se | 78 | 115 | 2 | 57018 | 0.78 |
| Kr | 83 | 115 | 1 | 2124 | 4.01 |
| Mo | 95 | 115 | 1 | 1499968 | 1.53 |
| Ag | 107 | 115 | 1 | 3889555 | 1.02 |
| Cd | 111 | 115 | 1 | 710456 | 1.12 |
| Sb | 121 | 115 | 1 | 2904412 | 0.55 |
| Ba | 137 | 159 | 1 | 1063040 | 0.63 |
| Tl | 205 | 165 | 1 | 5051225 | 0.78 |
| (Pb) | 206 | 165 | 1 | 1752299 | 1.52 |
| (Pb) | 207 | 165 | 1 | 1396227 | 1.59 |
| Pb | 208 | 165 | 1 | 3548100 | 0.94 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3069860 | 1.29 | 3015283 | 101.8 | 70 | 130 | |
| Sc | 45 | 2 | 182163 | 0.49 | 183263 | 99.4 | 70 | 130 | |
| In | 115 | 1 | 4235186 | 0.19 | 4174236 | 101.5 | 70 | 130 | |
| In | 115 | 2 | 1248537 | 0.28 | 1258594 | 99.2 | 70 | 130 | |
| Tb | 159 | 1 | 4972871 | 0.84 | 4869290 | 102.1 | 70 | 130 | |
| Tb | 159 | 2 | 3266921 | 0.95 | 3206652 | 101.9 | 70 | 130 | |
| Ho | 165 | 1 | 4725312 | 0.87 | 4577609 | 103.2 | 70 | 130 | |
| Ho | 165 | 2 | 3170051 | 0.91 | 3119565 | 101.6 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd5 V-357839** |
| **Data File Name** | **008CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T17:17:20-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2106** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 916519 | 0.71 |
| Na | 23 | 115 | 2 | 29206280 | 0.57 |
| Mg | 24 | 115 | 2 | 14193616 | 0.67 |
| Al | 27 | 115 | 2 | 1685235 | 0.74 |
| K | 39 | 115 | 2 | 16439559 | 1.26 |
| Ca | 44 | 115 | 2 | 850920 | 0.31 |
| V | 51 | 115 | 2 | 2100338 | 0.79 |
| Cr | 52 | 115 | 2 | 2569147 | 1.24 |
| Mn | 55 | 115 | 2 | 1483313 | 0.74 |
| Fe | 56 | 115 | 2 | 212772126 | 1.08 |
| Co | 59 | 115 | 2 | 4198482 | 1.73 |
| Ni | 60 | 115 | 2 | 1140686 | 1.45 |
| Cu | 65 | 115 | 2 | 1581022 | 0.91 |
| Zn | 66 | 115 | 2 | 457773 | 0.89 |
| As | 75 | 115 | 2 | 319024 | 1.47 |
| Se | 78 | 115 | 2 | 110371 | 1.61 |
| Kr | 83 | 115 | 1 | 2192 | 3.97 |
| Mo | 95 | 115 | 1 | 2946979 | 0.53 |
| Ag | 107 | 115 | 1 | 7548939 | 0.73 |
| Cd | 111 | 115 | 1 | 1407884 | 1.73 |
| Sb | 121 | 115 | 1 | 5696515 | 0.81 |
| Ba | 137 | 159 | 1 | 2164764 | 1.96 |
| Tl | 205 | 165 | 1 | 9947059 | 0.40 |
| (Pb) | 206 | 165 | 1 | 3424005 | 0.86 |
| (Pb) | 207 | 165 | 1 | 2812023 | 0.85 |
| Pb | 208 | 165 | 1 | 6917544 | 0.96 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3083635 | 0.12 | 3015283 | 102.3 | 70 | 130 | |
| Sc | 45 | 2 | 179624 | 0.81 | 183263 | 98.0 | 70 | 130 | |
| In | 115 | 1 | 4220325 | 0.21 | 4174236 | 101.1 | 70 | 130 | |
| In | 115 | 2 | 1230008 | 1.16 | 1258594 | 97.7 | 70 | 130 | |
| Tb | 159 | 1 | 5008141 | 0.72 | 4869290 | 102.9 | 70 | 130 | |
| Tb | 159 | 2 | 3241356 | 0.66 | 3206652 | 101.1 | 70 | 130 | |
| Ho | 165 | 1 | 4726297 | 0.46 | 4577809 | 103.2 | 70 | 130 | |
| Ho | 165 | 2 | 3142777 | 1.34 | 3119565 | 100.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Initial Calibration Verification (ICV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **ICV V-357840** |
| **Data File Name** | **009_ICV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T17:21:34-04:00** |
| **Type** | **6-ICV** |
| **VialNumber** | **2108** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 52.19 | ppb | 50 | 467945 | 1.73 | 104.38 | 90 | 110 | |
| Na | 23 | 115 | 2 | 5212.39 | ppb | 5000 | 15608504 | 0.58 | 104.25 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 5138.04 | ppb | 5000 | 7408121 | 0.67 | 102.76 | 90 | 110 | |
| Al | 27 | 115 | 2 | 5141.98 | ppb | 5000 | 2927428 | 0.99 | 102.84 | 90 | 110 | |
| K | 39 | 115 | 2 | 5070.62 | ppb | 5000 | 8498957 | 0.80 | 101.41 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 5275.50 | ppb | 5000 | 456127 | 1.03 | 105.51 | 90 | 110 | |
| V | 51 | 115 | 2 | 49.64 | ppb | 50 | 1052787 | 0.75 | 99.29 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 51.42 | ppb | 50 | 1342159 | 0.89 | 102.84 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 50.05 | ppb | 50 | 752561 | 0.47 | 100.09 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 5104.46 | ppb | 5000 | 110002888 | 0.10 | 102.09 | 90 | 110 | |
| Co | 59 | 115 | 2 | 51.99 | ppb | 50 | 2214438 | 1.74 | 103.98 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 51.07 | ppb | 50 | 590571 | 1.74 | 102.15 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 50.00 | ppb | 50 | 802304 | 1.48 | 99.99 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 50.98 | ppb | 50 | 240834 | 2.06 | 101.95 | 90 | 110 | |
| As | 75 | 115 | 2 | 51.64 | ppb | 50 | 166900 | 0.57 | 103.29 | 90 | 110 | |
| Se | 78 | 115 | 2 | 52.41 | ppb | 50 | 11897 | 1.37 | 104.82 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 51.15 | ppb | 50 | 1515960 | 1.14 | 102.31 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 10.26 | ppb | 10 | 783485 | 1.62 | 102.57 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 51.28 | ppb | 50 | 724849 | 0.69 | 102.56 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 51.85 | ppb | 50 | 2971196 | 1.27 | 103.70 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 50.03 | ppb | 50 | 1074450 | 0.60 | 100.06 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 48.56 | ppb | 50 | 5082761 | 0.51 | 97.12 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 51.40 | ppb | 50 | 3604101 | 0.58 | 102.80 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3024243 | 0.38 | 3015263 | 100.3 | 70 | 130 | |
| Sc | 45 | 2 | 180009 | 0.54 | 183263 | 98.2 | 70 | 130 | |
| In | 115 | 1 | 4232047 | 0.37 | 4174236 | 101.4 | 70 | 130 | |
| In | 115 | 2 | 1240952 | 1.00 | 1258594 | 98.6 | 70 | 130 | |
| Tb | 159 | 1 | 4978226 | 0.74 | 4869290 | 102.2 | 70 | 130 | |
| Tb | 159 | 2 | 3260192 | 0.90 | 3206652 | 101.7 | 70 | 130 | |
| Ho | 165 | 1 | 4764431 | 0.42 | 4577809 | 104.1 | 70 | 130 | |
| Ho | 165 | 2 | 3166579 | 1.01 | 3119565 | 101.5 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# LL-ICV/CCV - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **LLICV V-357848** |
| **Data File Name** | **010_LCS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T17:25:52-04:00** |
| **Type** | **6-LCS** |
| **VialNumber** | **2111** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.53 | ppb | 0.5 | 4530 | 2.06 | 106.85 | 80 | 120 | |
| Na | 23 | 115 | 2 | 220.90 | ppb | 250 | 847798 | 1.64 | 88.36 | 80 | 120 | |
| Mg | 24 | 115 | 2 | 241.36 | ppb | 250 | 356440 | 1.44 | 96.54 | 80 | 120 | |
| Al | 27 | 115 | 2 | 101.62 | ppb | 100 | 59649 | 3.23 | 101.62 | 80 | 120 | |
| K | 39 | 115 | 2 | 243.51 | ppb | 250 | 491028 | 1.37 | 97.40 | 80 | 120 | |
| Ca | 44 | 115 | 2 | 240.63 | ppb | 250 | 22421 | 2.32 | 96.25 | 80 | 120 | |
| V | 51 | 115 | 2 | 0.95 | ppb | 1 | 20742 | 4.26 | 94.99 | 80 | 120 | |
| Cr | 52 | 115 | 2 | 0.94 | ppb | 1 | 28310 | 1.29 | 94.33 | 80 | 120 | |
| Mn | 55 | 115 | 2 | 2.93 | ppb | 3 | 49216 | 2.37 | 97.74 | 80 | 120 | |
| Fe | 56 | 115 | 2 | 153.38 | ppb | 150 | 3468114 | 0.22 | 102.25 | 80 | 120 | |
| Co | 59 | 115 | 2 | 0.97 | ppb | 1 | 42362 | 1.20 | 96.97 | 80 | 120 | |
| Ni | 60 | 115 | 2 | 1.72 | ppb | 1.5 | 21312 | 1.07 | 114.58 | 80 | 120 | |
| Cu | 65 | 115 | 2 | 18.85 | ppb | 5 | 313925 | 1.42 | 377.07 | 80 | 120 | >+-10% |
| Zn | 66 | 115 | 2 | 10.04 | ppb | 10 | 53902 | 0.63 | 100.37 | 80 | 120 | |
| As | 75 | 115 | 2 | 1.02 | ppb | 1 | 3390 | 0.06 | 101.94 | 80 | 120 | |
| Se | 78 | 115 | 2 | 5.09 | ppb | 5 | 1369 | 2.50 | 101.75 | 80 | 120 | |
| Mo | 95 | 115 | 1 | 1.07 | ppb | 1 | 30695 | 0.30 | 107.17 | 80 | 120 | |
| Ag | 107 | 115 | 1 | 0.52 | ppb | 0.5 | 40662 | 1.79 | 103.75 | 80 | 120 | |
| Cd | 111 | 115 | 1 | 1.00 | ppb | 1 | 13500 | 0.53 | 99.56 | 80 | 120 | |
| Sb | 121 | 115 | 1 | 1.64 | ppb | 1.5 | 90328 | 1.11 | 109.15 | 80 | 120 | |
| Ba | 137 | 159 | 1 | 2.80 | ppb | 2.5 | 57525 | 7.40 | 111.81 | 80 | 120 | |
| Tl | 205 | 165 | 1 | 1.16 | ppb | 1 | 116165 | 1.55 | 116.17 | 80 | 120 | |
| Pb | 208 | 165 | 1 | 1.53 | ppb | 1.5 | 103577 | 0.45 | 102.01 | 80 | 120 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 2850836 | 7.85 | 3015283 | 94.5 | 70 | 130 | |
| Sc | 45 | 2 | 181050 | 1.99 | 183263 | 98.8 | 70 | 130 | |
| In | 115 | 1 | 4062785 | 9.03 | 4174236 | 97.3 | 70 | 130 | |
| In | 115 | 2 | 1265039 | 0.76 | 1258594 | 100.5 | 70 | 130 | |
| Tb | 159 | 1 | 4744261 | 7.96 | 4869290 | 97.4 | 70 | 130 | |
| Tb | 159 | 2 | 3252111 | 0.34 | 3206652 | 101.4 | 70 | 130 | |
| Ho | 165 | 1 | 4504440 | 8.84 | 4577809 | 98.4 | 70 | 130 | |
| Ho | 165 | 2 | 3174053 | 1.39 | 3119565 | 101.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Initial Calibration Blank (ICB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **ICB V-357841** |
| **Data File Name** | **011_ICB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T17:30:21-04:00** |
| **Type** | **6-ICB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.00 | ppb | 0.25 | |
| Na | 23 | 115 | 2 | -12.62 | ppb | 125 | |
| Mg | 24 | 115 | 2 | -0.20 | ppb | 125 | |
| Al | 27 | 115 | 2 | -0.45 | ppb | 50 | |
| K | 39 | 115 | 2 | -5.78 | ppb | 125 | |
| Ca | 44 | 115 | 2 | -5.95 | ppb | 125 | |
| V | 51 | 115 | 2 | 0.01 | ppb | 0.5 | |
| Cr | 52 | 115 | 2 | -0.03 | ppb | 0.5 | |
| Mn | 55 | 115 | 2 | -0.20 | ppb | 1.5 | |
| Fe | 56 | 115 | 2 | 0.23 | ppb | 75 | |
| Co | 59 | 115 | 2 | 0.00 | ppb | 0.5 | |
| Ni | 60 | 115 | 2 | -0.07 | ppb | 0.75 | |
| Cu | 65 | 115 | 2 | -0.39 | ppb | 2.5 | |
| Zn | 66 | 115 | 2 | -0.63 | ppb | 5 | |
| As | 75 | 115 | 2 | 0.01 | ppb | 0.5 | |
| Se | 78 | 115 | 2 | -0.08 | ppb | 2.5 | |
| Mo | 95 | 115 | 1 | 0.03 | ppb | 0.5 | |
| Ag | 107 | 115 | 1 | -0.02 | ppb | 0.25 | |
| Cd | 111 | 115 | 1 | 0.00 | ppb | 0.5 | |
| Sb | 121 | 115 | 1 | 0.02 | ppb | 0.75 | |
| Ba | 137 | 159 | 1 | -0.01 | ppb | 1.25 | |
| Tl | 205 | 165 | 1 | 0.05 | ppb | 0.5 | |
| Pb | 208 | 165 | 1 | -0.01 | ppb | 0.75 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 2958996 | 0.60 | 3015283 | 98.1 | 70 | 130 | |
| Sc | 45 | 2 | 178303 | 0.80 | 183263 | 97.3 | 70 | 130 | |
| In | 115 | 1 | 4163552 | 0.61 | 4174236 | 99.7 | 70 | 130 | |
| In | 115 | 2 | 1243979 | 1.25 | 1258594 | 98.8 | 70 | 130 | |
| Tb | 159 | 1 | 4850109 | 1.56 | 4869290 | 99.6 | 70 | 130 | |
| Tb | 159 | 2 | 3187336 | 1.72 | 3206652 | 99.4 | 70 | 130 | |
| Ho | 165 | 1 | 4625827 | 0.69 | 4577809 | 101.0 | 70 | 130 | |
| Ho | 165 | 2 | 3087603 | 0.82 | 3119565 | 99.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Interference Check Sample A (ICS-A) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **ICSA V-357842** |
| **Data File Name** | **012ICSA.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T17:34:50-04:00** |
| **Type** | **6-ICSA** |
| **VialNumber** | **2107** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | ppb | 1 | |
| Na | 23 | 115 | 2 | 124336.98 | ppb | 150000 | |
| Mg | 24 | 115 | 2 | 48604.46 | ppb | 60000 | |
| Al | 27 | 115 | 2 | 49753.89 | ppb | 60000 | |
| K | 39 | 115 | 2 | 51000.96 | ppb | 60000 | |
| Ca | 44 | 115 | 2 | 151996.72 | ppb | 180000 | |
| V | 51 | 115 | 2 | 0.09 | ppb | 2 | |
| Cr | 52 | 115 | 2 | 0.53 | ppb | 2 | |
| Mn | 55 | 115 | 2 | 1.59 | ppb | 6 | |
| Fe | 56 | 115 | 2 | 120799.64 | ppb | 150000 | |
| Co | 59 | 115 | 2 | 0.23 | ppb | 2 | |
| Ni | 60 | 115 | 2 | 0.64 | ppb | 3 | |
| Cu | 65 | 115 | 2 | 0.46 | ppb | 10 | |
| Zn | 66 | 115 | 2 | 1.27 | ppb | 20 | |
| As | 75 | 115 | 2 | 0.27 | ppb | 2 | |
| Se | 78 | 115 | 2 | 0.16 | ppb | 10 | |
| Mo | 95 | 115 | 1 | 975.32 | ppb | 1200 | |
| Ag | 107 | 115 | 1 | 0.25 | ppb | 1 | |
| Cd | 111 | 115 | 1 | 0.89 | ppb | 2 | |
| Sb | 121 | 115 | 1 | 0.38 | ppb | 2 | |
| Ba | 137 | 159 | 1 | 0.88 | ppb | 5 | |
| Tl | 205 | 165 | 1 | 0.04 | ppb | 2 | |
| Pb | 208 | 165 | 1 | 0.06 | ppb | 3 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 2963482 | 0.74 | 3015283 | 98.9 | 70 | 130 | |
| Sc | 45 | 2 | 178475 | 0.77 | 183263 | 97.4 | 70 | 130 | |
| In | 115 | 1 | 3927921 | 0.66 | 4174236 | 94.1 | 70 | 130 | |
| In | 115 | 2 | 1159930 | 1.18 | 1258594 | 92.2 | 70 | 130 | |
| Tb | 159 | 1 | 4726831 | 0.38 | 4869290 | 97.1 | 70 | 130 | |
| Tb | 159 | 2 | 3068172 | 0.99 | 3206652 | 95.7 | 70 | 130 | |
| Ho | 165 | 1 | 4511932 | 0.58 | 4577809 | 98.6 | 70 | 130 | |
| Ho | 165 | 2 | 2969794 | 0.23 | 3119565 | 95.2 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **013SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T17:39:16-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | 0.01 | ppb | 162 | 24.08 | 550 | |
| Na | 23 | 115 | 2 | 16.58 | 16.58 | ppb | 229832 | 1.60 | 55000 | |
| Mg | 24 | 115 | 2 | 3.71 | 3.71 | ppb | 7157 | 2.97 | 55000 | |
| Al | 27 | 115 | 2 | 2.83 | 2.83 | ppb | 2311 | 4.91 | 16500 | |
| K | 39 | 115 | 2 | 3.45 | 3.45 | ppb | 84066 | 0.81 | 55000 | |
| Ca | 44 | 115 | 2 | 8.17 | 8.17 | ppb | 1975 | 4.31 | 55000 | |
| V | 51 | 115 | 2 | 0.01 | 0.01 | ppb | 476 | 7.30 | 550 | |
| Cr | 52 | 115 | 2 | -0.01 | -0.01 | ppb | 2930 | 3.14 | 550 | |
| Mn | 55 | 115 | 2 | 0.10 | 0.10 | ppb | 6051 | 1.98 | 550 | |
| Fe | 56 | 115 | 2 | 14.55 | 14.55 | ppb | 418633 | 2.10 | 55000 | |
| Co | 59 | 115 | 2 | 0.02 | 0.02 | ppb | 1055 | 3.35 | 550 | |
| Ni | 60 | 115 | 2 | 0.09 | 0.09 | ppb | 2078 | 5.25 | 550 | |
| Cu | 65 | 115 | 2 | 1.18 | 1.18 | ppb | 27711 | 1.28 | 550 | |
| Zn | 66 | 115 | 2 | 0.35 | 0.35 | ppb | 8531 | 0.30 | 550 | |
| As | 75 | 115 | 2 | 0.01 | 0.01 | ppb | 77 | 14.66 | 550 | |
| Se | 78 | 115 | 2 | 0.05 | 0.05 | ppb | 223 | 16.42 | 2750 | |
| Mo | 95 | 115 | 1 | 0.54 | 0.54 | ppb | 16091 | 5.36 | 550 | |
| Ag | 107 | 115 | 1 | 0.00 | 0.00 | ppb | 2700 | 3.77 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 249 | 17.66 | 550 | |
| Sb | 121 | 115 | 1 | 0.02 | 0.02 | ppb | 1782 | 2.62 | 550 | |
| Ba | 137 | 159 | 1 | 0.03 | 0.03 | ppb | 1319 | 2.93 | 550 | |
| Tl | 205 | 165 | 1 | 0.04 | 0.04 | ppb | 6023 | 5.69 | 550 | |
| Pb | 208 | 165 | 1 | 0.02 | 0.02 | ppb | 3928 | 3.55 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 2961976 | 0.37 | 3015283 | 98.2 | 70 | 130 | |
| Sc | 45 | 2 | 177691 | 1.39 | 183263 | 97.0 | 70 | 130 | |
| In | 115 | 1 | 4180746 | 1.53 | 4174236 | 100.2 | 70 | 130 | |
| In | 115 | 2 | 1257882 | 0.71 | 1258594 | 99.9 | 70 | 130 | |
| Tb | 159 | 1 | 4859476 | 0.60 | 4869290 | 99.8 | 70 | 130 | |
| Tb | 159 | 2 | 3237595 | 1.85 | 3206652 | 101.0 | 70 | 130 | |
| Ho | 165 | 1 | 4561047 | 1.39 | 4577809 | 99.6 | 70 | 130 | |
| Ho | 165 | 2 | 3111575 | 0.21 | 3119565 | 99.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |



Printed at: 9:53 AM on:9/26/2021

# Sample Report

| | |
|---|---|
| **Sample Name** | **LRS V-357843** |
| **Data File Name** | **014SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T17:43:44-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2109** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 466.99 | 466.99 | ppb | 4261190 | 1.72 | 550 | |
| Na | 23 | 115 | 2 | 50485.77 | 50485.77 | ppb | 144233560 | 0.91 | 55000 | |
| Mg | 24 | 115 | 2 | 50354.00 | 50354.00 | ppb | 69963643 | 0.47 | 55000 | |
| Al | 27 | 115 | 2 | 15106.32 | 15106.32 | ppb | 8288265 | 0.83 | 16500 | |
| K | 39 | 115 | 2 | 51855.17 | 51855.17 | ppb | 83089649 | 0.74 | 55000 | |
| Ca | 44 | 115 | 2 | 51738.87 | 51738.87 | ppb | 4301216 | 0.96 | 55000 | |
| V | 51 | 115 | 2 | 504.53 | 504.53 | ppb | 10310804 | 0.73 | 550 | |
| Cr | 52 | 115 | 2 | 499.12 | 499.12 | ppb | 12529970 | 1.39 | 550 | |
| Mn | 55 | 115 | 2 | 499.87 | 499.87 | ppb | 7206713 | 0.61 | 550 | |
| Fe | 56 | 115 | 2 | 49916.64 | 49916.64 | ppb | 1036036945 | 0.29 | 55000 | |
| Co | 59 | 115 | 2 | 493.44 | 493.44 | ppb | 20258685 | 1.05 | 550 | |
| Ni | 60 | 115 | 2 | 490.67 | 490.67 | ppb | 5459720 | 0.69 | 550 | |
| Cu | 65 | 115 | 2 | 469.24 | 469.24 | ppb | 7188214 | 0.51 | 550 | |
| Zn | 66 | 115 | 2 | 492.92 | 492.92 | ppb | 2187859 | 1.09 | 550 | |
| As | 75 | 115 | 2 | 523.71 | 523.71 | ppb | 1630985 | 0.53 | 550 | |
| Se | 78 | 115 | 2 | 2498.15 | 2498.15 | ppb | 537266 | 0.60 | 2750 | |
| Mo | 95 | 115 | 1 | 511.71 | 511.71 | ppb | 14658319 | 0.31 | 550 | |
| Ag | 107 | 115 | 1 | 107.82 | 107.82 | ppb | 7935268 | 0.70 | 550 | |
| Cd | 111 | 115 | 1 | 501.87 | 501.87 | ppb | 6858255 | 0.65 | 550 | |
| Sb | 121 | 115 | 1 | 493.98 | 493.98 | ppb | 27362975 | 0.79 | 550 | |
| Ba | 137 | 159 | 1 | 492.47 | 492.47 | ppb | 10338790 | 0.92 | 550 | |
| Tl | 205 | 165 | 1 | 459.29 | 459.29 | ppb | 46547785 | 0.88 | 550 | |
| Pb | 208 | 165 | 1 | 475.31 | 475.31 | ppb | 32256238 | 0.42 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3077792 | 0.41 | 3015283 | 102.1 | 70 | 130 | |
| Sc | 45 | 2 | 180514 | 0.62 | 183263 | 98.5 | 70 | 130 | |
| In | 115 | 1 | 4091703 | 0.98 | 4174236 | 98.0 | 70 | 130 | |
| In | 115 | 2 | 1196099 | 0.84 | 1258594 | 95.0 | 70 | 130 | |
| Tb | 159 | 1 | 4868840 | 0.34 | 4869280 | 100.0 | 70 | 130 | |
| Tb | 159 | 2 | 3180299 | 0.89 | 3206652 | 99.2 | 70 | 130 | |
| Ho | 165 | 1 | 4614624 | 0.84 | 4577809 | 100.8 | 70 | 130 | |
| Ho | 165 | 2 | 3111621 | 1.46 | 3119565 | 99.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **015SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T17:47:51-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.04 | 0.04 | ppb | 422 | 1.21 | 550 | |
| Na | 23 | 115 | 2 | 15.57 | 15.57 | ppb | 227349 | 1.87 | 55000 | |
| Mg | 24 | 115 | 2 | 4.28 | 4.28 | ppb | 8011 | 2.08 | 55000 | |
| Al | 27 | 115 | 2 | 2.57 | 2.57 | ppb | 2164 | 7.42 | 16500 | |
| K | 39 | 115 | 2 | 4.37 | 4.37 | ppb | 85827 | 0.78 | 55000 | |
| Ca | 44 | 115 | 2 | 8.87 | 8.87 | ppb | 2041 | 5.42 | 55000 | |
| V | 51 | 115 | 2 | 0.02 | 0.02 | ppb | 696 | 8.59 | 550 | |
| Cr | 52 | 115 | 2 | 0.00 | 0.00 | ppb | 3327 | 5.32 | 550 | |
| Mn | 55 | 115 | 2 | 0.10 | 0.10 | ppb | 5978 | 7.25 | 550 | |
| Fe | 56 | 115 | 2 | 11.96 | 11.96 | ppb | 362881 | 2.31 | 55000 | |
| Co | 59 | 115 | 2 | 0.03 | 0.03 | ppb | 1511 | 5.73 | 550 | |
| Ni | 60 | 115 | 2 | 0.09 | 0.09 | ppb | 2112 | 4.62 | 550 | |
| Cu | 65 | 115 | 2 | 1.17 | 1.17 | ppb | 27664 | 2.26 | 550 | |
| Zn | 66 | 115 | 2 | 0.41 | 0.41 | ppb | 8824 | 4.75 | 550 | |
| As | 75 | 115 | 2 | 0.11 | 0.11 | ppb | 396 | 2.93 | 550 | |
| Se | 78 | 115 | 2 | 0.47 | 0.47 | ppb | 319 | 7.91 | 2750 | |
| Mo | 95 | 115 | 1 | 0.38 | 0.38 | ppb | 11336 | 2.99 | 550 | |
| Ag | 107 | 115 | 1 | 0.01 | 0.01 | ppb | 3577 | 6.47 | 550 | |
| Cd | 111 | 115 | 1 | 0.03 | 0.03 | ppb | 447 | 5.34 | 550 | |
| Sb | 121 | 115 | 1 | 0.34 | 0.34 | ppb | 19998 | 4.20 | 550 | |
| Ba | 137 | 159 | 1 | 0.04 | 0.04 | ppb | 1483 | 1.47 | 550 | |
| Tl | 205 | 165 | 1 | 0.55 | 0.55 | ppb | 56633 | 4.26 | 550 | |
| Pb | 208 | 165 | 1 | 0.07 | 0.07 | ppb | 7601 | 2.11 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 2937519 | 0.58 | 3015283 | 97.4 | 70 | 130 | |
| Sc | 45 | 2 | 178433 | 1.13 | 183263 | 97.4 | 70 | 130 | |
| In | 115 | 1 | 4165784 | 0.98 | 4174236 | 99.8 | 70 | 130 | |
| In | 115 | 2 | 1260966 | 0.55 | 1258594 | 100.2 | 70 | 130 | |
| Tb | 159 | 1 | 4843473 | 0.85 | 4869290 | 99.5 | 70 | 130 | |
| Tb | 159 | 2 | 3230585 | 1.12 | 3206652 | 100.7 | 70 | 130 | |
| Ho | 165 | 1 | 4573445 | 0.95 | 4577809 | 99.9 | 70 | 130 | |
| Ho | 165 | 2 | 3128871 | 0.90 | 3119565 | 100.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **016SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T17:52:19-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.04 | 0.04 | ppb | 366 | 11.87 | 550 | |
| Na | 23 | 115 | 2 | 23.34 | 23.34 | ppb | 250691 | 2.45 | 55000 | |
| Mg | 24 | 115 | 2 | 5.00 | 5.00 | ppb | 9055 | 0.24 | 55000 | |
| Al | 27 | 115 | 2 | 2.76 | 2.76 | ppb | 2272 | 2.50 | 16500 | |
| K | 39 | 115 | 2 | 6.03 | 6.03 | ppb | 88619 | 1.24 | 55000 | |
| Ca | 44 | 115 | 2 | 9.73 | 9.73 | ppb | 2116 | 2.62 | 55000 | |
| V | 51 | 115 | 2 | 0.03 | 0.03 | ppb | 809 | 9.16 | 550 | |
| Cr | 52 | 115 | 2 | 0.00 | 0.00 | ppb | 3388 | 5.56 | 550 | |
| Mn | 55 | 115 | 2 | 0.12 | 0.12 | ppb | 6276 | 1.81 | 550 | |
| Fe | 56 | 115 | 2 | 10.87 | 10.87 | ppb | 339039 | 0.66 | 55000 | |
| Co | 59 | 115 | 2 | 0.03 | 0.03 | ppb | 1725 | 5.30 | 550 | |
| Ni | 60 | 115 | 2 | 0.11 | 0.11 | ppb | 2433 | 5.44 | 550 | |
| Cu | 65 | 115 | 2 | 1.18 | 1.18 | ppb | 27726 | 0.66 | 550 | |
| Zn | 66 | 115 | 2 | 0.42 | 0.42 | ppb | 8875 | 1.56 | 550 | |
| As | 75 | 115 | 2 | 0.05 | 0.05 | ppb | 205 | 4.92 | 550 | |
| Se | 78 | 115 | 2 | 0.24 | 0.24 | ppb | 267 | 4.41 | 2750 | |
| Mo | 95 | 115 | 1 | 0.15 | 0.15 | ppb | 4829 | 4.10 | 550 | |
| Ag | 107 | 115 | 1 | 0.01 | 0.01 | ppb | 3572 | 6.64 | 550 | |
| Cd | 111 | 115 | 1 | 0.03 | 0.03 | ppb | 449 | 8.41 | 550 | |
| Sb | 121 | 115 | 1 | 0.09 | 0.09 | ppb | 5881 | 1.87 | 550 | |
| Ba | 137 | 159 | 1 | 0.04 | 0.04 | ppb | 1545 | 8.47 | 550 | |
| Tl | 205 | 165 | 1 | 0.13 | 0.13 | ppb | 14770 | 9.30 | 550 | |
| Pb | 208 | 165 | 1 | 0.05 | 0.05 | ppb | 5885 | 3.75 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 2922866 | 0.33 | 3015283 | 96.9 | 70 | 130 | |
| Sc | 45 | 2 | 178558 | 0.40 | 183263 | 97.4 | 70 | 130 | |
| In | 115 | 1 | 4116916 | 0.58 | 4174236 | 98.6 | 70 | 130 | |
| In | 115 | 2 | 1260900 | 0.58 | 1258594 | 100.2 | 70 | 130 | |
| Tb | 159 | 1 | 4804421 | 0.69 | 4869290 | 98.7 | 70 | 130 | |
| Tb | 159 | 2 | 3205078 | 0.64 | 3206652 | 100.0 | 70 | 130 | |
| Ho | 165 | 1 | 4563621 | 0.72 | 4577809 | 99.7 | 70 | 130 | |
| Ho | 165 | 2 | 3108438 | 0.67 | 3119565 | 99.6 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **017SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T17:56:49-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 311 | 3.27 | 550 | |
| Na | 23 | 115 | 2 | 20.47 | 20.47 | ppb | 243304 | 3.01 | 55000 | |
| Mg | 24 | 115 | 2 | 5.13 | 5.13 | ppb | 9303 | 2.00 | 55000 | |
| Al | 27 | 115 | 2 | 3.08 | 3.08 | ppb | 2471 | 3.37 | 16500 | |
| K | 39 | 115 | 2 | 5.28 | 5.28 | ppb | 87800 | 0.76 | 55000 | |
| Ca | 44 | 115 | 2 | 9.03 | 9.03 | ppb | 2066 | 5.80 | 55000 | |
| V | 51 | 115 | 2 | 0.02 | 0.02 | ppb | 731 | 7.97 | 550 | |
| Cr | 52 | 115 | 2 | 0.01 | 0.01 | ppb | 3458 | 5.09 | 550 | |
| Mn | 55 | 115 | 2 | 0.12 | 0.12 | ppb | 6296 | 4.44 | 550 | |
| Fe | 56 | 115 | 2 | 10.32 | 10.32 | ppb | 328651 | 2.16 | 55000 | |
| Co | 59 | 115 | 2 | 0.04 | 0.04 | ppb | 1949 | 3.42 | 550 | |
| Ni | 60 | 115 | 2 | 0.10 | 0.10 | ppb | 2217 | 6.86 | 550 | |
| Cu | 65 | 115 | 2 | 1.14 | 1.14 | ppb | 27239 | 1.73 | 550 | |
| Zn | 66 | 115 | 2 | 0.48 | 0.48 | ppb | 9182 | 4.24 | 550 | |
| As | 75 | 115 | 2 | 0.04 | 0.04 | ppb | 155 | 4.55 | 550 | |
| Se | 78 | 115 | 2 | 0.18 | 0.18 | ppb | 253 | 7.98 | 2750 | |
| Mo | 95 | 115 | 1 | 0.11 | 0.11 | ppb | 3663 | 1.57 | 550 | |
| Ag | 107 | 115 | 1 | 0.01 | 0.01 | ppb | 3571 | 5.72 | 550 | |
| Cd | 111 | 115 | 1 | 0.03 | 0.03 | ppb | 414 | 4.84 | 550 | |
| Sb | 121 | 115 | 1 | 0.06 | 0.06 | ppb | 3869 | 1.43 | 550 | |
| Ba | 137 | 159 | 1 | 0.03 | 0.03 | ppb | 1422 | 5.76 | 550 | |
| Tl | 205 | 165 | 1 | 0.09 | 0.09 | ppb | 10655 | 1.47 | 550 | |
| Pb | 208 | 165 | 1 | 0.03 | 0.03 | ppb | 5023 | 2.16 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 2905261 | 0.74 | 3015283 | 96.4 | 70 | 130 | |
| Sc | 45 | 2 | 179925 | 0.36 | 183263 | 98.2 | 70 | 130 | |
| In | 115 | 1 | 4172726 | 1.68 | 4174236 | 100.0 | 70 | 130 | |
| In | 115 | 2 | 1267196 | 1.10 | 1258594 | 100.7 | 70 | 130 | |
| Tb | 159 | 1 | 4784110 | 0.70 | 4869290 | 98.3 | 70 | 130 | |
| Tb | 159 | 2 | 3212634 | 0.65 | 3206652 | 100.2 | 70 | 130 | |
| Ho | 165 | 1 | 4504715 | 0.65 | 4577809 | 98.4 | 70 | 130 | |
| Ho | 165 | 2 | 3089022 | 0.22 | 3119565 | 99.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Verification (CCV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCV V-357844** |
| **Data File Name** | **0186CCV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:01:19-04:00** |
| **Type** | **6-CCV** |
| **VialNumber** | **1201** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 48.56 | ppb | 50 | 441329 | 1.28 | 97.12 | 90 | 110 | |
| Na | 23 | 115 | 2 | 4970.38 | ppb | 5000 | 14998979 | 0.99 | 99.41 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 5014.42 | ppb | 5000 | 7281541 | 0.77 | 100.29 | 90 | 110 | |
| Al | 27 | 115 | 2 | 1499.57 | ppb | 1500 | 860290 | 0.83 | 99.97 | 90 | 110 | |
| K | 39 | 115 | 2 | 5096.90 | ppb | 5000 | 8603765 | 0.50 | 101.94 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 5018.67 | ppb | 5000 | 437088 | 1.00 | 100.37 | 90 | 110 | |
| V | 51 | 115 | 2 | 49.55 | ppb | 50 | 1058336 | 0.36 | 99.10 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 50.49 | ppb | 50 | 1327345 | 1.09 | 100.97 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 49.83 | ppb | 50 | 754692 | 0.45 | 99.65 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 5025.57 | ppb | 5000 | 109085563 | 0.99 | 100.51 | 90 | 110 | |
| Co | 59 | 115 | 2 | 51.02 | ppb | 50 | 2188603 | 0.37 | 102.03 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 50.08 | ppb | 50 | 583234 | 0.27 | 100.16 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 48.89 | ppb | 50 | 790433 | 0.40 | 97.79 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 50.05 | ppb | 50 | 238260 | 0.66 | 100.09 | 90 | 110 | |
| As | 75 | 115 | 2 | 50.12 | ppb | 50 | 163129 | 0.92 | 100.23 | 90 | 110 | |
| Se | 78 | 115 | 2 | 250.40 | ppb | 250 | 56458 | 0.45 | 100.16 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 51.16 | ppb | 50 | 1512481 | 0.45 | 102.32 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 51.08 | ppb | 50 | 3880390 | 0.78 | 102.16 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 50.21 | ppb | 50 | 707995 | 0.55 | 100.41 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 50.98 | ppb | 50 | 2914654 | 0.70 | 101.96 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 49.83 | ppb | 50 | 1069728 | 1.18 | 99.66 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 48.51 | ppb | 50 | 5023723 | 1.49 | 97.01 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 50.87 | ppb | 50 | 3529457 | 0.90 | 101.75 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3065342 | 0.95 | 3015283 | 101.7 | 70 | 130 | |
| Sc | 45 | 2 | 180316 | 0.66 | 183263 | 98.4 | 70 | 130 | |
| In | 115 | 1 | 4221890 | 0.31 | 4174236 | 101.1 | 70 | 130 | |
| In | 115 | 2 | 1249806 | 0.78 | 1258594 | 99.3 | 70 | 130 | |
| Tb | 159 | 1 | 4975693 | 1.14 | 4869290 | 102.2 | 70 | 130 | |
| Tb | 159 | 2 | 3257775 | 1.00 | 3206652 | 101.6 | 70 | 130 | |
| Ho | 165 | 1 | 4714080 | 0.71 | 4577809 | 103.0 | 70 | 130 | |
| Ho | 165 | 2 | 3142405 | 0.41 | 3119565 | 100.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Blank (CCB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCB V-357841** |
| **Data File Name** | **0196CCB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:05:36-04:00** |
| **Type** | **6-CCB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | ppb | 0.5 | |
| Na | 23 | 115 | 2 | -19.51 | ppb | 250 | |
| Mg | 24 | 115 | 2 | 0.00 | ppb | 250 | |
| Al | 27 | 115 | 2 | -0.44 | ppb | 100 | |
| K | 39 | 115 | 2 | -5.20 | ppb | 250 | |
| Ca | 44 | 115 | 2 | -6.32 | ppb | 250 | |
| V | 51 | 115 | 2 | 0.01 | ppb | 1 | |
| Cr | 52 | 115 | 2 | -0.02 | ppb | 1 | |
| Mn | 55 | 115 | 2 | -0.19 | ppb | 3 | |
| Fe | 56 | 115 | 2 | 1.45 | ppb | 150 | |
| Co | 59 | 115 | 2 | 0.00 | ppb | 1 | |
| Ni | 60 | 115 | 2 | -0.06 | ppb | 1.5 | |
| Cu | 65 | 115 | 2 | -0.37 | ppb | 5 | |
| Zn | 66 | 115 | 2 | -0.66 | ppb | 10 | |
| As | 75 | 115 | 2 | 0.02 | ppb | 1 | |
| Se | 78 | 115 | 2 | 0.12 | ppb | 5 | |
| Mo | 95 | 115 | 1 | 0.08 | ppb | 1 | |
| Ag | 107 | 115 | 1 | -0.01 | ppb | 0.5 | |
| Cd | 111 | 115 | 1 | 0.00 | ppb | 1 | |
| Sb | 121 | 115 | 1 | 0.06 | ppb | 1.5 | |
| Ba | 137 | 159 | 1 | -0.01 | ppb | 2.5 | |
| Tl | 205 | 165 | 1 | 0.15 | ppb | 1 | |
| Pb | 208 | 165 | 1 | 0.00 | ppb | 1.5 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 2972202 | 0.50 | 3015283 | 98.6 | 70 | 130 | |
| Sc | 45 | 2 | 180278 | 0.74 | 183263 | 98.4 | 70 | 130 | |
| In | 115 | 1 | 4208769 | 0.57 | 4174236 | 100.8 | 70 | 130 | |
| In | 115 | 2 | 1256723 | 0.82 | 1258594 | 99.9 | 70 | 130 | |
| Tb | 159 | 1 | 4862435 | 0.45 | 4869290 | 99.9 | 70 | 130 | |
| Tb | 159 | 2 | 3211610 | 0.61 | 3206652 | 100.2 | 70 | 130 | |
| Ho | 165 | 1 | 4621230 | 0.51 | 4577809 | 100.9 | 70 | 130 | |
| Ho | 165 | 2 | 3091487 | 0.86 | 3119565 | 99.1 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **MB 94428** |
| **Data File Name** | **020SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:10:05-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2401** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.00 | 0.00 | ppb | 48 | 17.56 | 550 | |
| Na | 23 | 115 | 2 | -16.69 | -16.69 | ppb | 128702 | 0.38 | 55000 | |
| Mg | 24 | 115 | 2 | -0.04 | -0.04 | ppb | 1661 | 7.07 | 55000 | |
| Al | 27 | 115 | 2 | 0.12 | 0.12 | ppb | 737 | 12.05 | 16500 | |
| K | 39 | 115 | 2 | -4.14 | -4.14 | ppb | 70597 | 0.32 | 55000 | |
| Ca | 44 | 115 | 2 | -0.18 | -0.18 | ppb | 1233 | 14.39 | 55000 | |
| V | 51 | 115 | 2 | 0.01 | 0.01 | ppb | 456 | 8.45 | 550 | |
| Cr | 52 | 115 | 2 | 0.00 | 0.00 | ppb | 3128 | 4.93 | 550 | |
| Mn | 55 | 115 | 2 | 0.01 | 0.01 | ppb | 4654 | 3.98 | 550 | |
| Fe | 56 | 115 | 2 | 2.58 | 2.58 | ppb | 155668 | 2.19 | 55000 | |
| Co | 59 | 115 | 2 | 0.00 | 0.00 | ppb | 302 | 9.38 | 550 | |
| Ni | 60 | 115 | 2 | -0.02 | -0.02 | ppb | 878 | 8.56 | 550 | |
| Cu | 65 | 115 | 2 | -0.16 | -0.16 | ppb | 6117 | 6.62 | 550 | |
| Zn | 66 | 115 | 2 | 0.40 | 0.40 | ppb | 8678 | 3.94 | 550 | |
| As | 75 | 115 | 2 | 0.01 | 0.01 | ppb | 67 | 9.13 | 550 | |
| Se | 78 | 115 | 2 | -0.05 | -0.05 | ppb | 197 | 14.92 | 2750 | |
| Mo | 95 | 115 | 1 | 0.03 | 0.03 | ppb | 1195 | 3.33 | 550 | |
| Ag | 107 | 115 | 1 | 0.00 | 0.00 | ppb | 2776 | 6.89 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 47 | 18.04 | 550 | |
| Sb | 121 | 115 | 1 | 0.02 | 0.02 | ppb | 1852 | 2.62 | 550 | |
| Ba | 137 | 159 | 1 | -0.01 | -0.01 | ppb | 618 | 5.46 | 550 | |
| Tl | 205 | 165 | 1 | 0.02 | 0.02 | ppb | 4340 | 8.98 | 550 | |
| Pb | 208 | 165 | 1 | 0.01 | 0.01 | ppb | 3588 | 5.77 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3013531 | 0.23 | 3015283 | 99.9 | 70 | 130 | |
| Sc | 45 | 2 | 179371 | 0.67 | 183263 | 97.9 | 70 | 130 | |
| In | 115 | 1 | 4200167 | 1.01 | 4174236 | 100.6 | 70 | 130 | |
| In | 115 | 2 | 1245671 | 1.01 | 1258594 | 99.0 | 70 | 130 | |
| Tb | 159 | 1 | 4921479 | 0.90 | 4869290 | 101.1 | 70 | 130 | |
| Tb | 159 | 2 | 3167720 | 1.26 | 3206652 | 98.8 | 70 | 130 | |
| Ho | 165 | 1 | 4661659 | 0.71 | 4577809 | 101.8 | 70 | 130 | |
| Ho | 165 | 2 | 3086526 | 1.09 | 3119565 | 98.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **LCSW 94428** |
| **Data File Name** | **021SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:14:35-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2402** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 225.77 | 225.77 | ppb | 2022083 | 1.46 | 550 | |
| Na | 23 | 115 | 2 | 23057.04 | 23057.04 | ppb | 66736751 | 0.31 | 55000 | |
| Mg | 24 | 115 | 2 | 22532.39 | 22532.39 | ppb | 31675159 | 0.93 | 55000 | |
| Al | 27 | 115 | 2 | 2337.74 | 2337.74 | ppb | 1298119 | 0.28 | 16500 | |
| K | 39 | 115 | 2 | 22873.46 | 22873.46 | ppb | 37123594 | 1.42 | 55000 | |
| Ca | 44 | 115 | 2 | 23139.78 | 23139.78 | ppb | 1946782 | 0.69 | 55000 | |
| V | 51 | 115 | 2 | 224.93 | 224.93 | ppb | 4650848 | 0.96 | 550 | |
| Cr | 52 | 115 | 2 | 227.96 | 227.96 | ppb | 5792491 | 1.37 | 550 | |
| Mn | 55 | 115 | 2 | 225.75 | 225.75 | ppb | 3295223 | 0.37 | 550 | |
| Fe | 56 | 115 | 2 | 2328.02 | 2328.02 | ppb | 48974765 | 0.99 | 55000 | |
| Co | 59 | 115 | 2 | 228.15 | 228.15 | ppb | 9476167 | 0.69 | 550 | |
| Ni | 60 | 115 | 2 | 230.61 | 230.61 | ppb | 2596670 | 0.53 | 550 | |
| Cu | 65 | 115 | 2 | 226.02 | 226.02 | ppb | 3507399 | 0.99 | 550 | |
| Zn | 66 | 115 | 2 | 225.89 | 225.89 | ppb | 1017954 | 0.69 | 550 | |
| As | 75 | 115 | 2 | 231.63 | 231.63 | ppb | 729864 | 0.57 | 550 | |
| Se | 78 | 115 | 2 | 231.43 | 231.43 | ppb | 50540 | 0.41 | 2750 | |
| Mo | 95 | 115 | 1 | 226.92 | 226.92 | ppb | 6907557 | 0.73 | 550 | |
| Ag | 107 | 115 | 1 | 44.87 | 44.87 | ppb | 3510237 | 0.22 | 550 | |
| Cd | 111 | 115 | 1 | 234.21 | 234.21 | ppb | 3400759 | 0.28 | 550 | |
| Sb | 121 | 115 | 1 | 225.19 | 225.19 | ppb | 13254130 | 0.53 | 550 | |
| Ba | 137 | 159 | 1 | 230.08 | 230.08 | ppb | 4988879 | 0.28 | 550 | |
| Tl | 205 | 165 | 1 | 225.49 | 225.49 | ppb | 23619605 | 0.94 | 550 | |
| Pb | 208 | 165 | 1 | 227.76 | 227.76 | ppb | 15976070 | 1.56 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3021103 | 1.56 | 3015283 | 100.2 | 70 | 130 | |
| Sc | 45 | 2 | 170763 | 1.67 | 183263 | 93.2 | 70 | 130 | |
| In | 115 | 1 | 4347688 | 0.79 | 4174236 | 104.2 | 70 | 130 | |
| In | 115 | 2 | 1210135 | 1.05 | 1258594 | 96.1 | 70 | 130 | |
| Tb | 159 | 1 | 5028805 | 0.77 | 4869290 | 103.3 | 70 | 130 | |
| Tb | 159 | 2 | 3169294 | 0.97 | 3206652 | 98.8 | 70 | 130 | |
| Ho | 165 | 1 | 4769789 | 0.78 | 4577809 | 104.2 | 70 | 130 | |
| Ho | 165 | 2 | 3099372 | 0.57 | 3119565 | 99.4 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **LCS MR 94428** |
| **Data File Name** | **022SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:18:42-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2403** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 223.18 | 223.18 | ppb | 2014277 | 0.25 | 550 | |
| Na | 23 | 115 | 2 | 22884.77 | 22884.77 | ppb | 66853650 | 0.22 | 55000 | |
| Mg | 24 | 115 | 2 | 22332.22 | 22332.22 | ppb | 31684781 | 0.55 | 55000 | |
| Al | 27 | 115 | 2 | 2284.72 | 2284.72 | ppb | 1280498 | 0.87 | 16500 | |
| K | 39 | 115 | 2 | 22643.69 | 22643.69 | ppb | 37091147 | 0.94 | 55000 | |
| Ca | 44 | 115 | 2 | 23013.68 | 23013.68 | ppb | 1954216 | 1.27 | 55000 | |
| V | 51 | 115 | 2 | 223.62 | 223.62 | ppb | 4666697 | 0.58 | 550 | |
| Cr | 52 | 115 | 2 | 226.41 | 226.41 | ppb | 5805947 | 0.71 | 550 | |
| Mn | 55 | 115 | 2 | 223.64 | 223.64 | ppb | 3294809 | 0.86 | 550 | |
| Fe | 56 | 115 | 2 | 2302.31 | 2302.31 | ppb | 48887330 | 0.67 | 55000 | |
| Co | 59 | 115 | 2 | 226.79 | 226.79 | ppb | 9507623 | 1.47 | 550 | |
| Ni | 60 | 115 | 2 | 230.61 | 230.61 | ppb | 2620733 | 1.01 | 550 | |
| Cu | 65 | 115 | 2 | 223.79 | 223.79 | ppb | 3504997 | 1.10 | 550 | |
| Zn | 66 | 115 | 2 | 225.59 | 225.59 | ppb | 1026074 | 1.14 | 550 | |
| As | 75 | 115 | 2 | 230.28 | 230.28 | ppb | 732346 | 1.01 | 550 | |
| Se | 78 | 115 | 2 | 230.93 | 230.93 | ppb | 50896 | 0.73 | 2750 | |
| Mo | 95 | 115 | 1 | 231.82 | 231.82 | ppb | 7003436 | 0.79 | 550 | |
| Ag | 107 | 115 | 1 | 45.31 | 45.31 | ppb | 3518667 | 1.37 | 550 | |
| Cd | 111 | 115 | 1 | 234.95 | 234.95 | ppb | 3386008 | 1.16 | 550 | |
| Sb | 121 | 115 | 1 | 229.56 | 229.56 | ppb | 13410315 | 0.66 | 550 | |
| Ba | 137 | 159 | 1 | 230.73 | 230.73 | ppb | 5052188 | 0.68 | 550 | |
| Tl | 205 | 165 | 1 | 224.06 | 224.06 | ppb | 23572423 | 0.43 | 550 | |
| Pb | 208 | 165 | 1 | 225.72 | 225.72 | ppb | 15902890 | 0.70 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3044425 | 0.95 | 3015288 | 101.0 | 70 | 130 | |
| Sc | 45 | 2 | 171109 | 0.69 | 183263 | 93.4 | 70 | 130 | |
| In | 115 | 1 | 4315115 | 1.31 | 4174236 | 103.4 | 70 | 130 | |
| In | 115 | 2 | 1221295 | 0.32 | 1258594 | 97.0 | 70 | 130 | |
| Tb | 159 | 1 | 5077945 | 0.45 | 4869290 | 104.3 | 70 | 130 | |
| Tb | 159 | 2 | 3198238 | 0.92 | 3206652 | 99.7 | 70 | 130 | |
| Ho | 165 | 1 | 4790205 | 0.69 | 4577809 | 104.6 | 70 | 130 | |
| Ho | 165 | 2 | 3097372 | 0.50 | 3119565 | 99.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-040** |
| **Data File Name** | **023SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:22:49-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2404** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.12 | 0.12 | ppb | 1092 | 7.31 | 550 | |
| Na | 23 | 115 | 2 | 659554.27 | 659554.27 | ppb | 1724357343 | 0.86 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 72478.58 | 72478.58 | ppb | 92259011 | 0.85 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 138.79 | 138.79 | ppb | 70340 | 2.43 | 16500 | |
| K | 39 | 115 | 2 | 53358.55 | 53358.55 | ppb | 78326866 | 1.24 | 55000 | |
| Ca | 44 | 115 | 2 | 54135.80 | 54135.80 | ppb | 4122936 | 0.93 | 55000 | |
| V | 51 | 115 | 2 | 6.76 | 6.76 | ppb | 126785 | 0.47 | 550 | |
| Cr | 52 | 115 | 2 | 3.50 | 3.50 | ppb | 83206 | 0.61 | 550 | |
| Mn | 55 | 115 | 2 | 267.83 | 267.83 | ppb | 3539470 | 0.66 | 550 | |
| Fe | 56 | 115 | 2 | 5626.68 | 5626.68 | ppb | 107069035 | 0.81 | 55000 | |
| Co | 59 | 115 | 2 | 3.83 | 3.83 | ppb | 144402 | 0.96 | 550 | |
| Ni | 60 | 115 | 2 | 8.73 | 8.73 | ppb | 89964 | 1.50 | 550 | |
| Cu | 65 | 115 | 2 | 0.79 | 0.79 | ppb | 18676 | 1.35 | 550 | |
| Zn | 66 | 115 | 2 | 4.44 | 4.44 | ppb | 24000 | 0.78 | 550 | |
| As | 75 | 115 | 2 | 1.08 | 1.08 | ppb | 3120 | 3.46 | 550 | |
| Se | 78 | 115 | 2 | 0.61 | 0.61 | ppb | 304 | 2.90 | 2750 | |
| Mo | 95 | 115 | 1 | 0.30 | 0.30 | ppb | 8146 | 3.43 | 550 | |
| Ag | 107 | 115 | 1 | 0.31 | 0.31 | ppb | 23682 | 4.89 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 239 | 6.15 | 550 | |
| Sb | 121 | 115 | 1 | 0.26 | 0.26 | ppb | 13997 | 2.79 | 550 | |
| Ba | 137 | 159 | 1 | 1042.09 | 1042.09 | ppb | 20605975 | 0.31 | 550 | >LDR |
| Tl | 205 | 165 | 1 | 0.47 | 0.47 | ppb | 46748 | 4.82 | 550 | |
| Pb | 208 | 165 | 1 | 0.64 | 0.64 | ppb | 43730 | 0.74 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3004055 | 0.81 | 3015283 | 99.6 | 70 | 130 | |
| Sc | 45 | 2 | 175904 | 0.61 | 183263 | 96.0 | 70 | 130 | |
| In | 115 | 1 | 3728761 | 0.79 | 4174236 | 89.3 | 70 | 130 | |
| In | 115 | 2 | 1095757 | 0.24 | 1258594 | 87.1 | 70 | 130 | |
| Tb | 159 | 1 | 4586977 | 1.68 | 4869290 | 94.2 | 70 | 130 | |
| Tb | 159 | 2 | 2915522 | 1.59 | 3206652 | 90.9 | 70 | 130 | |
| Ho | 165 | 1 | 4354352 | 0.77 | 4577809 | 95.1 | 70 | 130 | |
| Ho | 165 | 2 | 2830165 | 0.58 | 3119565 | 90.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-040 MR** |
| **Data File Name** | **024SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:27:14-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2405** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.11 | 0.11 | ppb | 1038 | 2.49 | 550 | |
| Na | 23 | 115 | 2 | 685982.36 | 685982.36 | ppb | 1799619760 | 0.55 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 75565.16 | 75565.16 | ppb | 96524613 | 1.26 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 136.82 | 136.82 | ppb | 69623 | 6.01 | 16500 | |
| K | 39 | 115 | 2 | 55600.07 | 55600.07 | ppb | 81901744 | 1.30 | 55000 | >LDR |
| Ca | 44 | 115 | 2 | 55912.82 | 55912.82 | ppb | 4273178 | 1.21 | 55000 | >LDR |
| V | 51 | 115 | 2 | 6.98 | 6.98 | ppb | 131375 | 0.62 | 550 | |
| Cr | 52 | 115 | 2 | 3.64 | 3.64 | ppb | 86910 | 4.60 | 550 | |
| Mn | 55 | 115 | 2 | 279.42 | 279.42 | ppb | 3705319 | 0.79 | 550 | |
| Fe | 56 | 115 | 2 | 5852.61 | 5852.61 | ppb | 111749165 | 0.31 | 55000 | |
| Co | 59 | 115 | 2 | 3.97 | 3.97 | ppb | 149981 | 0.68 | 550 | |
| Ni | 60 | 115 | 2 | 8.97 | 8.97 | ppb | 92727 | 1.22 | 550 | |
| Cu | 65 | 115 | 2 | 0.66 | 0.66 | ppb | 16943 | 0.76 | 550 | |
| Zn | 66 | 115 | 2 | 5.23 | 5.23 | ppb | 27287 | 0.61 | 550 | |
| As | 75 | 115 | 2 | 1.10 | 1.10 | ppb | 3184 | 1.59 | 550 | |
| Se | 78 | 115 | 2 | 0.42 | 0.42 | ppb | 268 | 17.71 | 2750 | |
| Mo | 95 | 115 | 1 | 0.18 | 0.18 | ppb | 5000 | 4.87 | 550 | |
| Ag | 107 | 115 | 1 | 0.29 | 0.29 | ppb | 22123 | 0.95 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 173 | 12.25 | 550 | |
| Sb | 121 | 115 | 1 | 0.15 | 0.15 | ppb | 8439 | 1.16 | 550 | |
| Ba | 137 | 159 | 1 | 1066.68 | 1066.68 | ppb | 20983173 | 0.74 | 550 | >LDR |
| Tl | 205 | 165 | 1 | 0.09 | 0.09 | ppb | 10468 | 9.13 | 550 | |
| Pb | 208 | 165 | 1 | 0.61 | 0.81 | ppb | 41710 | 1.71 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3035646 | 0.50 | 3015283 | 100.7 | 70 | 130 | |
| Sc | 45 | 2 | 177993 | 0.98 | 183263 | 97.1 | 70 | 130 | |
| In | 115 | 1 | 3750763 | 0.46 | 4174236 | 89.9 | 70 | 130 | |
| In | 115 | 2 | 1099619 | 1.11 | 1258594 | 87.4 | 70 | 130 | |
| Tb | 159 | 1 | 4562646 | 1.09 | 4869290 | 93.7 | 70 | 130 | |
| Tb | 159 | 2 | 2948807 | 0.16 | 3206652 | 92.0 | 70 | 130 | |
| Ho | 165 | 1 | 4371099 | 0.76 | 4577809 | 95.5 | 70 | 130 | |
| Ho | 165 | 2 | 2848037 | 0.43 | 3119565 | 91.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-040 SD** |
| **Data File Name** | **025SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:31:40-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2409** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 320 | 19.79 | 550 | |
| Na | 23 | 115 | 2 | 129501.31 | 129501.31 | ppb | 381315794 | 0.56 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 14364.21 | 14364.21 | ppb | 20586028 | 0.54 | 55000 | |
| Al | 27 | 115 | 2 | 28.40 | 28.40 | ppb | 16733 | 4.09 | 16500 | |
| K | 39 | 115 | 2 | 10475.06 | 10475.06 | ppb | 17373588 | 1.68 | 55000 | |
| Ca | 44 | 115 | 2 | 10386.32 | 10386.32 | ppb | 891563 | 1.48 | 55000 | |
| V | 51 | 115 | 2 | 1.32 | 1.32 | ppb | 27968 | 1.76 | 550 | |
| Cr | 52 | 115 | 2 | 0.71 | 0.71 | ppb | 21476 | 2.02 | 550 | |
| Mn | 55 | 115 | 2 | 54.29 | 54.29 | ppb | 811240 | 0.95 | 550 | |
| Fe | 56 | 115 | 2 | 1125.62 | 1125.62 | ppb | 24194120 | 1.51 | 55000 | |
| Co | 59 | 115 | 2 | 0.76 | 0.76 | ppb | 32340 | 0.64 | 550 | |
| Ni | 60 | 115 | 2 | 1.87 | 1.87 | ppb | 22525 | 2.92 | 550 | |
| Cu | 65 | 115 | 2 | 0.42 | 0.42 | ppb | 15235 | 1.60 | 550 | |
| Zn | 66 | 115 | 2 | 4.73 | 4.73 | ppb | 28339 | 1.93 | 550 | |
| As | 75 | 165 | 2 | 0.20 | 0.20 | ppb | 690 | 4.76 | 550 | |
| Se | 78 | 165 | 2 | 0.13 | 0.13 | ppb | 235 | 10.20 | 2750 | |
| Mo | 95 | 115 | 1 | 0.05 | 0.05 | ppb | 1837 | 6.26 | 550 | |
| Ag | 107 | 115 | 1 | 0.02 | 0.02 | ppb | 4724 | 3.61 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 122 | 9.49 | 550 | |
| Sb | 121 | 115 | 1 | 0.05 | 0.05 | ppb | 3582 | 3.12 | 550 | |
| Ba | 137 | 159 | 1 | 214.88 | 214.88 | ppb | 4543468 | 0.95 | 550 | |
| Tl | 205 | 165 | 1 | 0.04 | 0.04 | ppb | 6407 | 7.18 | 550 | |
| Pb | 208 | 165 | 1 | 0.19 | 0.19 | ppb | 16178 | 1.54 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3106859 | 0.36 | 3015283 | 103.0 | 70 | 130 | |
| Sc | 45 | 2 | 188197 | 1.63 | 183263 | 102.7 | 70 | 130 | |
| In | 115 | 1 | 4116306 | 1.43 | 4174236 | 98.6 | 70 | 130 | |
| In | 115 | 2 | 1233639 | 0.60 | 1258594 | 98.0 | 70 | 130 | |
| Tb | 159 | 1 | 4903677 | 0.90 | 4869290 | 100.7 | 70 | 130 | |
| Tb | 159 | 2 | 3216906 | 0.30 | 3206652 | 100.3 | 70 | 130 | |
| Ho | 165 | 1 | 4671711 | 0.90 | 4577809 | 102.1 | 70 | 130 | |
| Ho | 165 | 2 | 3124019 | 1.57 | 3119565 | 100.1 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-042 MS 1** |
| **Data File Name** | **026SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:36:03-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2406** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 217.91 | 217.91 | ppb | 1973106 | 0.33 | 550 | |
| Na | 23 | 115 | 2 | 711489.59 | 711489.59 | ppb | 1929691633 | 0.83 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 98416.39 | 98416.39 | ppb | 129959778 | 1.04 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 2717.70 | 2717.70 | ppb | 1417756 | 1.80 | 16500 | |
| K | 39 | 115 | 2 | 80177.52 | 80177.52 | ppb | 122056368 | 0.69 | 55000 | >LDR |
| Ca | 44 | 115 | 2 | 80397.06 | 80397.06 | ppb | 6351586 | 1.46 | 55000 | >LDR |
| V | 51 | 115 | 2 | 251.90 | 251.90 | ppb | 4892690 | 0.50 | 550 | |
| Cr | 52 | 115 | 2 | 244.09 | 244.09 | ppb | 5825710 | 0.85 | 550 | |
| Mn | 55 | 115 | 2 | 511.96 | 511.96 | ppb | 7014856 | 0.49 | 550 | |
| Fe | 56 | 115 | 2 | 8184.59 | 8184.59 | ppb | 161513190 | 0.29 | 55000 | |
| Co | 59 | 115 | 2 | 238.18 | 238.18 | ppb | 9292633 | 0.18 | 550 | |
| Ni | 60 | 115 | 2 | 238.92 | 238.92 | ppb | 2526841 | 0.17 | 550 | |
| Cu | 65 | 115 | 2 | 223.58 | 223.58 | ppb | 3259053 | 0.22 | 550 | |
| Zn | 66 | 115 | 2 | 226.73 | 226.73 | ppb | 959761 | 0.49 | 550 | |
| As | 75 | 115 | 2 | 245.62 | 245.62 | ppb | 727045 | 0.89 | 550 | |
| Se | 78 | 115 | 2 | 241.43 | 241.43 | ppb | 49523 | 1.55 | 2750 | |
| Mo | 95 | 115 | 1 | 241.12 | 241.12 | ppb | 6587526 | 0.28 | 550 | |
| Ag | 107 | 115 | 1 | 43.74 | 43.74 | ppb | 3071615 | 0.17 | 550 | |
| Cd | 111 | 115 | 1 | 227.55 | 227.55 | ppb | 2965537 | 0.65 | 550 | |
| Sb | 121 | 115 | 1 | 229.87 | 229.87 | ppb | 12143990 | 0.34 | 550 | |
| Ba | 137 | 159 | 1 | 1331.60 | 1331.60 | ppb | 26101175 | 0.45 | 550 | >LDR |
| Tl | 205 | 165 | 1 | 209.38 | 209.38 | ppb | 20134977 | 0.78 | 550 | |
| Pb | 208 | 165 | 1 | 211.31 | 211.31 | ppb | 13607317 | 1.25 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3054604 | 1.45 | 3015283 | 101.3 | 70 | 130 | |
| Sc | 45 | 2 | 180139 | 0.90 | 183263 | 98.3 | 70 | 130 | |
| In | 115 | 1 | 3902116 | 0.42 | 4174236 | 93.5 | 70 | 130 | |
| In | 115 | 2 | 1136849 | 1.69 | 1258594 | 90.3 | 70 | 130 | |
| Tb | 159 | 1 | 4546305 | 0.41 | 4869290 | 93.4 | 70 | 130 | |
| Tb | 159 | 2 | 2911382 | 0.98 | 3206652 | 90.8 | 70 | 130 | |
| Ho | 165 | 1 | 4378418 | 0.86 | 4577809 | 95.6 | 70 | 130 | |
| Ho | 165 | 2 | 2835257 | 0.55 | 3119565 | 90.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |



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# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-044 MS 2** |
| **Data File Name** | **027SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:40:14-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2407** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 203.57 | 203.57 | ppb | 1859490 | 0.43 | 550 | |
| Na | 23 | 115 | 2 | 670110.55 | 670110.55 | ppb | 1829890248 | 0.33 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 92468.38 | 92468.38 | ppb | 122941818 | 0.59 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 2561.43 | 2561.43 | ppb | 1345255 | 0.57 | 16500 | |
| K | 39 | 115 | 2 | 75845.64 | 75845.64 | ppb | 116259261 | 0.35 | 55000 | >LDR |
| Ca | 44 | 115 | 2 | 75937.85 | 75937.85 | ppb | 6040064 | 0.50 | 55000 | >LDR |
| V | 51 | 115 | 2 | 237.81 | 237.81 | ppb | 4650890 | 1.04 | 550 | |
| Cr | 52 | 115 | 2 | 229.16 | 229.16 | ppb | 5507147 | 1.05 | 550 | |
| Mn | 55 | 115 | 2 | 483.72 | 483.72 | ppb | 6673987 | 1.21 | 550 | |
| Fe | 56 | 115 | 2 | 7769.54 | 7769.54 | ppb | 154391537 | 1.10 | 55000 | |
| Co | 59 | 115 | 2 | 220.53 | 220.53 | ppb | 8663863 | 0.76 | 550 | |
| Ni | 60 | 115 | 2 | 224.05 | 224.05 | ppb | 2386178 | 0.96 | 550 | |
| Cu | 65 | 115 | 2 | 208.59 | 208.59 | ppb | 3062032 | 0.44 | 550 | |
| Zn | 66 | 115 | 2 | 213.28 | 213.28 | ppb | 909416 | 0.74 | 550 | |
| As | 75 | 115 | 2 | 229.91 | 229.91 | ppb | 685202 | 0.30 | 550 | |
| Se | 78 | 115 | 2 | 225.48 | 225.48 | ppb | 46578 | 1.17 | 2750 | |
| Mo | 95 | 115 | 1 | 231.02 | 231.02 | ppb | 6300656 | 0.60 | 550 | |
| Ag | 107 | 115 | 1 | 41.31 | 41.31 | ppb | 2895980 | 0.30 | 550 | |
| Cd | 111 | 115 | 1 | 217.00 | 217.00 | ppb | 2823176 | 0.47 | 550 | |
| Sb | 121 | 115 | 1 | 216.59 | 216.59 | ppb | 11422448 | 0.97 | 550 | |
| Ba | 137 | 159 | 1 | 1242.81 | 1242.81 | ppb | 24896854 | 0.42 | 550 | >LDR |
| Tl | 205 | 165 | 1 | 199.68 | 199.68 | ppb | 19111525 | 0.92 | 550 | |
| Pb | 208 | 165 | 1 | 200.09 | 200.09 | ppb | 12824682 | 1.32 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3081128 | 0.32 | 3015283 | 102.2 | 70 | 130 | |
| Sc | 45 | 2 | 180124 | 1.41 | 183263 | 98.3 | 70 | 130 | |
| In | 115 | 1 | 3895353 | 0.27 | 4174236 | 93.3 | 70 | 130 | |
| In | 115 | 2 | 1144527 | 0.49 | 1258594 | 90.9 | 70 | 130 | |
| Tb | 159 | 1 | 4646477 | 1.02 | 4869290 | 95.4 | 70 | 130 | |
| Tb | 159 | 2 | 2957795 | 0.27 | 3206852 | 92.2 | 70 | 130 | |
| Ho | 165 | 1 | 4357688 | 0.23 | 4577609 | 95.2 | 70 | 130 | |
| Ho | 165 | 2 | 2885299 | 0.44 | 3119565 | 92.5 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |



Printed at: 9:56 AM on:9/26/2021

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-040 PS** |
| **Data File Name** | **028SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:44:26-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2408** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 46.62 | 46.62 | ppb | 426268 | 0.84 | 550 | |
| Na | 23 | 115 | 2 | 638958.85 | 638958.85 | ppb | 1710421415 | 1.01 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 75027.56 | 75027.56 | ppb | 97788004 | 1.43 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 1762.14 | 1762.14 | ppb | 907464 | 1.76 | 16500 | |
| K | 39 | 115 | 2 | 56877.26 | 56877.26 | ppb | 85483908 | 1.81 | 55000 | >LDR |
| Ca | 44 | 115 | 2 | 57294.17 | 57294.17 | ppb | 4467474 | 0.80 | 55000 | >LDR |
| V | 51 | 115 | 2 | 62.46 | 62.46 | ppb | 1197490 | 0.90 | 550 | |
| Cr | 52 | 115 | 2 | 58.21 | 58.21 | ppb | 1373486 | 1.08 | 550 | |
| Mn | 55 | 115 | 2 | 308.27 | 308.27 | ppb | 4170630 | 1.10 | 550 | |
| Fe | 56 | 115 | 2 | 10653.00 | 10653.00 | ppb | 207464481 | 0.76 | 55000 | |
| Co | 59 | 115 | 2 | 56.69 | 56.69 | ppb | 2183431 | 1.19 | 550 | |
| Ni | 60 | 115 | 2 | 58.85 | 58.85 | ppb | 615108 | 0.74 | 550 | |
| Cu | 65 | 115 | 2 | 49.64 | 49.64 | ppb | 720261 | 0.62 | 550 | |
| Zn | 66 | 115 | 2 | 54.75 | 54.75 | ppb | 233398 | 0.96 | 550 | |
| As | 75 | 115 | 2 | 55.10 | 55.10 | ppb | 160985 | 1.20 | 550 | |
| Se | 78 | 115 | 2 | 264.11 | 264.11 | ppb | 53448 | 0.89 | 2750 | |
| Mo | 95 | 115 | 1 | 55.06 | 55.06 | ppb | 1490710 | 0.46 | 550 | |
| Ag | 107 | 115 | 1 | 52.47 | 52.47 | ppb | 3650116 | 1.00 | 550 | |
| Cd | 111 | 115 | 1 | 49.48 | 49.48 | ppb | 639053 | 0.58 | 550 | |
| Sb | 121 | 115 | 1 | 51.88 | 51.88 | ppb | 2716122 | 1.09 | 550 | |
| Ba | 137 | 159 | 1 | 1053.72 | 1053.72 | ppb | 21277642 | 0.99 | 550 | >LDR |
| Tl | 205 | 165 | 1 | 46.31 | 46.31 | ppb | 4517227 | 0.94 | 550 | |
| Pb | 208 | 165 | 1 | 47.79 | 47.79 | ppb | 3122504 | 0.21 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3084097 | 0.41 | 3015283 | 102.3 | 70 | 130 | |
| Sc | 45 | 2 | 179402 | 2.06 | 183263 | 97.9 | 70 | 130 | |
| In | 115 | 1 | 3866424 | 0.80 | 4174236 | 92.6 | 70 | 130 | |
| In | 115 | 2 | 1121976 | 1.40 | 1258594 | 89.1 | 70 | 130 | |
| Tb | 159 | 1 | 4683321 | 0.44 | 4869290 | 96.2 | 70 | 130 | |
| Tb | 159 | 2 | 2995117 | 1.04 | 3206652 | 93.4 | 70 | 130 | |
| Ho | 165 | 1 | 4439859 | 0.63 | 4577809 | 97.0 | 70 | 130 | |
| Ho | 165 | 2 | 2930102 | 0.28 | 3119565 | 93.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **029SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:48:46-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 316 | 24.67 | 550 | |
| Na | 23 | 115 | 2 | 164.74 | 164.74 | ppb | 711605 | 0.24 | 55000 | |
| Mg | 24 | 115 | 2 | 6.63 | 6.63 | ppb | 12047 | 2.76 | 55000 | |
| Al | 27 | 115 | 2 | 3.05 | 3.05 | ppb | 2573 | 3.03 | 16500 | |
| K | 39 | 115 | 2 | 22.63 | 22.63 | ppb | 122765 | 0.47 | 55000 | |
| Ca | 44 | 115 | 2 | 11.11 | 11.11 | ppb | 2356 | 6.13 | 55000 | |
| V | 51 | 115 | 2 | 0.03 | 0.03 | ppb | 787 | 5.31 | 550 | |
| Cr | 52 | 115 | 2 | 0.00 | 0.00 | ppb | 3532 | 7.80 | 550 | |
| Mn | 55 | 115 | 2 | 0.11 | 0.11 | ppb | 6485 | 1.30 | 550 | |
| Fe | 56 | 115 | 2 | 11.13 | 11.13 | ppb | 362952 | 0.89 | 55000 | |
| Co | 59 | 115 | 2 | 0.03 | 0.03 | ppb | 1770 | 7.06 | 550 | |
| Ni | 60 | 115 | 2 | 0.12 | 0.12 | ppb | 2655 | 1.80 | 550 | |
| Cu | 65 | 115 | 2 | 1.21 | 1.21 | ppb | 29834 | 1.01 | 550 | |
| Zn | 66 | 115 | 2 | 0.42 | 0.42 | ppb | 9355 | 3.30 | 550 | |
| As | 75 | 115 | 2 | 0.05 | 0.05 | ppb | 216 | 4.77 | 550 | |
| Se | 78 | 115 | 2 | 0.21 | 0.21 | ppb | 273 | 6.15 | 2750 | |
| Mo | 95 | 115 | 1 | 0.15 | 0.15 | ppb | 4952 | 3.85 | 550 | |
| Ag | 107 | 115 | 1 | 0.01 | 0.01 | ppb | 3533 | 2.35 | 550 | |
| Cd | 111 | 115 | 1 | 0.03 | 0.03 | ppb | 445 | 2.51 | 550 | |
| Sb | 121 | 115 | 1 | 0.08 | 0.08 | ppb | 5626 | 2.24 | 550 | |
| Ba | 137 | 159 | 1 | 0.08 | 0.08 | ppb | 2504 | 5.61 | 550 | |
| Tl | 205 | 165 | 1 | 0.32 | 0.32 | ppb | 34298 | 9.36 | 550 | |
| Pb | 208 | 165 | 1 | 0.04 | 0.04 | ppb | 5525 | 3.09 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3125426 | 1.67 | 3015283 | 103.7 | 70 | 130 | |
| Sc | 45 | 2 | 194070 | 0.75 | 183263 | 105.9 | 70 | 130 | |
| In | 115 | 1 | 4293197 | 1.37 | 4174236 | 102.8 | 70 | 130 | |
| In | 115 | 2 | 1327537 | 2.07 | 1258594 | 105.5 | 70 | 130 | |
| Tb | 159 | 1 | 4986092 | 1.27 | 4869290 | 102.4 | 70 | 130 | |
| Tb | 159 | 2 | 3294665 | 0.58 | 3206652 | 102.7 | 70 | 130 | |
| Ho | 165 | 1 | 4674216 | 0.96 | 4577809 | 102.1 | 70 | 130 | |
| Ho | 165 | 2 | 3178402 | 0.42 | 3119565 | 101.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Verification (CCV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCV V-357844** |
| **Data File Name** | **0306CCV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:53:16-04:00** |
| **Type** | **6-CCV** |
| **VialNumber** | **1201** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 47.35 | ppb | 50 | 453696 | 0.61 | 94.69 | 90 | 110 | |
| Na | 23 | 115 | 2 | 5084.49 | ppb | 5000 | 15898644 | 0.41 | 101.69 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 5039.21 | ppb | 5000 | 7584665 | 0.80 | 100.78 | 90 | 110 | |
| Al | 27 | 115 | 2 | 1505.23 | ppb | 1500 | 895052 | 1.07 | 100.35 | 90 | 110 | |
| K | 39 | 115 | 2 | 5150.00 | ppb | 5000 | 9009817 | 0.90 | 103.00 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 5092.80 | ppb | 5000 | 459693 | 0.52 | 101.86 | 90 | 110 | |
| V | 51 | 115 | 2 | 50.18 | ppb | 50 | 1110979 | 0.17 | 100.37 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 50.89 | ppb | 50 | 1386806 | 0.15 | 101.78 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 50.38 | ppb | 50 | 790902 | 0.11 | 100.77 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 5016.78 | ppb | 5000 | 112865027 | 0.69 | 100.34 | 90 | 110 | |
| Co | 59 | 115 | 2 | 51.23 | ppb | 50 | 2278363 | 1.90 | 102.47 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 50.11 | ppb | 50 | 604842 | 0.50 | 100.21 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 49.33 | ppb | 50 | 826503 | 0.78 | 98.66 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 50.37 | ppb | 50 | 248500 | 0.77 | 100.74 | 90 | 110 | |
| As | 75 | 115 | 2 | 50.45 | ppb | 50 | 170193 | 0.58 | 100.90 | 90 | 110 | |
| Se | 78 | 115 | 2 | 255.68 | ppb | 250 | 59749 | 0.79 | 102.27 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 50.74 | ppb | 50 | 1558291 | 0.96 | 101.48 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 50.70 | ppb | 50 | 4001008 | 0.87 | 101.40 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 49.79 | ppb | 50 | 729408 | 0.36 | 99.58 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 50.71 | ppb | 50 | 3011542 | 1.00 | 101.41 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 50.01 | ppb | 50 | 1094330 | 0.96 | 100.02 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 47.95 | ppb | 50 | 5051002 | 0.64 | 95.90 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 50.10 | ppb | 50 | 3536508 | 1.95 | 100.21 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3232199 | 0.82 | 3015283 | 107.2 | 70 | 130 | |
| Sc | 45 | 2 | 188691 | 0.58 | 183263 | 103.0 | 70 | 130 | |
| In | 115 | 1 | 4385875 | 0.53 | 4174236 | 105.1 | 70 | 130 | |
| In | 115 | 2 | 1295375 | 0.41 | 1258594 | 102.9 | 70 | 130 | |
| Tb | 159 | 1 | 5071850 | 0.56 | 4869290 | 104.2 | 70 | 130 | |
| Tb | 159 | 2 | 3335513 | 0.42 | 3206652 | 104.0 | 70 | 130 | |
| Ho | 165 | 1 | 4796015 | 2.02 | 4577809 | 104.8 | 70 | 130 | |
| Ho | 165 | 2 | 3228245 | 0.42 | 3119565 | 103.5 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Blank (CCB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCB V-357841** |
| **Data File Name** | **0316CCB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T18:57:33-04:00** |
| **Type** | **6-CCB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | ppb | 0.5 | |
| Na | 23 | 115 | 2 | 91.23 | ppb | 250 | |
| Mg | 24 | 115 | 2 | 0.30 | ppb | 250 | |
| Al | 27 | 115 | 2 | -0.32 | ppb | 100 | |
| K | 39 | 115 | 2 | 10.20 | ppb | 250 | |
| Ca | 44 | 115 | 2 | -6.02 | ppb | 250 | |
| V | 51 | 115 | 2 | 0.01 | ppb | 1 | |
| Cr | 52 | 115 | 2 | -0.02 | ppb | 1 | |
| Mn | 55 | 115 | 2 | -0.20 | ppb | 3 | |
| Fe | 56 | 115 | 2 | 1.71 | ppb | 150 | |
| Co | 59 | 115 | 2 | 0.00 | ppb | 1 | |
| Ni | 60 | 115 | 2 | -0.06 | ppb | 1.5 | |
| Cu | 65 | 115 | 2 | -0.37 | ppb | 5 | |
| Zn | 66 | 115 | 2 | -0.62 | ppb | 10 | |
| As | 75 | 115 | 2 | 0.03 | ppb | 1 | |
| Se | 78 | 115 | 2 | 0.08 | ppb | 5 | |
| Mo | 95 | 115 | 1 | 0.08 | ppb | 1 | |
| Ag | 107 | 115 | 1 | -0.01 | ppb | 0.5 | |
| Cd | 111 | 115 | 1 | 0.00 | ppb | 1 | |
| Sb | 121 | 115 | 1 | 0.06 | ppb | 1.5 | |
| Ba | 137 | 159 | 1 | 0.00 | ppb | 2.5 | |
| Tl | 205 | 165 | 1 | 0.17 | ppb | 1 | |
| Pb | 208 | 165 | 1 | -0.01 | ppb | 1.5 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3109585 | 1.24 | 3015283 | 103.1 | 70 | 130 | |
| Sc | 45 | 2 | 191081 | 1.45 | 183263 | 104.3 | 70 | 130 | |
| In | 115 | 1 | 4301788 | 0.66 | 4174236 | 103.1 | 70 | 130 | |
| In | 115 | 2 | 1317792 | 2.96 | 1258594 | 104.7 | 70 | 130 | |
| Tb | 159 | 1 | 4921144 | 0.64 | 4869290 | 101.1 | 70 | 130 | |
| Tb | 159 | 2 | 3231282 | 1.30 | 3206652 | 100.8 | 70 | 130 | |
| Ho | 165 | 1 | 4618485 | 0.89 | 4577809 | 100.9 | 70 | 130 | |
| Ho | 165 | 2 | 3176528 | 0.72 | 3119565 | 101.8 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-003** |
| **Data File Name** | **032SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:02:02-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2410** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.02 | 0.02 | ppb | 221 | 9.09 | 550 | |
| Na | 23 | 115 | 2 | 7802.87 | 7802.87 | ppb | 23045578 | 0.84 | 55000 | |
| Mg | 24 | 115 | 2 | 12806.70 | 12806.70 | ppb | 18278010 | 0.47 | 55000 | |
| Al | 27 | 115 | 2 | 310.83 | 310.83 | ppb | 175813 | 3.98 | 16500 | |
| K | 39 | 115 | 2 | 795.54 | 795.54 | ppb | 1384500 | 1.37 | 55000 | |
| Ca | 44 | 115 | 2 | 31941.95 | 31941.95 | ppb | 2727909 | 0.94 | 55000 | |
| V | 51 | 115 | 2 | 1.99 | 1.99 | ppb | 41876 | 0.23 | 550 | |
| Cr | 52 | 115 | 2 | 1.14 | 1.14 | ppb | 32520 | 0.34 | 550 | |
| Mn | 55 | 115 | 2 | 57.89 | 57.89 | ppb | 861250 | 0.91 | 550 | |
| Fe | 56 | 115 | 2 | 573.90 | 573.90 | ppb | 12331756 | 1.10 | 55000 | |
| Co | 59 | 115 | 2 | 0.29 | 0.29 | ppb | 12287 | 1.44 | 550 | |
| Ni | 60 | 115 | 2 | 3.54 | 3.54 | ppb | 41469 | 2.33 | 550 | |
| Cu | 65 | 115 | 2 | 1.00 | 1.00 | ppb | 24299 | 1.38 | 550 | |
| Zn | 66 | 115 | 2 | 11.28 | 11.28 | ppb | 58019 | 0.71 | 550 | |
| As | 75 | 115 | 2 | 0.57 | 0.57 | ppb | 1856 | 1.69 | 550 | |
| Se | 78 | 115 | 2 | 0.22 | 0.22 | ppb | 254 | 16.96 | 2750 | |
| Mo | 95 | 115 | 1 | 0.21 | 0.21 | ppb | 6974 | 0.91 | 550 | |
| Ag | 107 | 115 | 1 | 0.25 | 0.25 | ppb | 23060 | 4.66 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 179 | 12.38 | 550 | |
| Sb | 121 | 115 | 1 | 0.08 | 0.08 | ppb | 5722 | 3.10 | 550 | |
| Ba | 137 | 159 | 1 | 138.98 | 138.98 | ppb | 3175307 | 0.73 | 550 | |
| Tl | 205 | 165 | 1 | 0.06 | 0.06 | ppb | 8836 | 4.48 | 550 | |
| Pb | 208 | 165 | 1 | 0.25 | 0.25 | ppb | 21193 | 2.12 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3160390 | 1.07 | 3015283 | 104.8 | 70 | 130 | |
| Sc | 45 | 2 | 175778 | 0.55 | 183263 | 95.9 | 70 | 130 | |
| In | 115 | 1 | 4386103 | 0.68 | 4174236 | 105.1 | 70 | 130 | |
| In | 115 | 2 | 1228511 | 0.37 | 1258594 | 97.6 | 70 | 130 | |
| Tb | 159 | 1 | 5298174 | 0.40 | 4869290 | 108.8 | 70 | 130 | |
| Tb | 159 | 2 | 3337802 | 0.23 | 3206652 | 104.1 | 70 | 130 | |
| Ho | 165 | 1 | 4993568 | 0.79 | 4577809 | 109.1 | 70 | 130 | |
| Ho | 165 | 2 | 3266815 | 0.45 | 3119565 | 104.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-006** |
| **Data File Name** | **033SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:06:27-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2411** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 286 | 12.91 | 550 | |
| Na | 23 | 115 | 2 | 5582.84 | 5582.84 | ppb | 16469390 | 0.94 | 55000 | |
| Mg | 24 | 115 | 2 | 10281.40 | 10281.40 | ppb | 14612964 | 0.54 | 55000 | |
| Al | 27 | 115 | 2 | 553.48 | 553.48 | ppb | 311109 | 5.99 | 16500 | |
| K | 39 | 115 | 2 | 819.95 | 819.95 | ppb | 1418919 | 2.27 | 55000 | |
| Ca | 44 | 115 | 2 | 27672.23 | 27672.23 | ppb | 2353398 | 0.71 | 55000 | |
| V | 51 | 115 | 2 | 1.26 | 1.26 | ppb | 26562 | 2.79 | 550 | |
| Cr | 52 | 115 | 2 | 1.68 | 1.68 | ppb | 46293 | 5.63 | 550 | |
| Mn | 55 | 115 | 2 | 215.85 | 215.85 | ppb | 3185797 | 0.81 | 550 | |
| Fe | 56 | 115 | 2 | 520.13 | 520.13 | ppb | 11138539 | 0.85 | 55000 | |
| Co | 59 | 115 | 2 | 0.34 | 0.34 | ppb | 14569 | 1.82 | 550 | |
| Ni | 60 | 115 | 2 | 2.72 | 2.72 | ppb | 31977 | 1.27 | 550 | |
| Cu | 65 | 115 | 2 | 0.89 | 0.89 | ppb | 22475 | 2.09 | 550 | |
| Zn | 66 | 115 | 2 | 13.53 | 13.53 | ppb | 67950 | 0.71 | 550 | |
| As | 75 | 115 | 2 | 0.65 | 0.65 | ppb | 2083 | 6.61 | 550 | |
| Se | 78 | 115 | 2 | 0.01 | 0.01 | ppb | 207 | 13.34 | 2750 | |
| Mo | 95 | 115 | 1 | 0.35 | 0.35 | ppb | 11319 | 0.32 | 550 | |
| Ag | 107 | 115 | 1 | 0.20 | 0.20 | ppb | 18998 | 0.68 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 151 | 14.09 | 550 | |
| Sb | 121 | 115 | 1 | 0.07 | 0.07 | ppb | 4891 | 13.06 | 550 | |
| Ba | 137 | 159 | 1 | 150.83 | 150.83 | ppb | 3455972 | 0.35 | 550 | |
| Tl | 205 | 165 | 1 | 0.03 | 0.03 | ppb | 5273 | 9.95 | 550 | |
| Pb | 208 | 165 | 1 | 0.32 | 0.32 | ppb | 26585 | 1.22 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3222699 | 0.53 | 3015283 | 106.9 | 70 | 130 | |
| Sc | 45 | 2 | 174544 | 0.27 | 183263 | 95.2 | 70 | 130 | |
| In | 115 | 1 | 4422904 | 1.19 | 4174236 | 106.0 | 70 | 130 | |
| In | 115 | 2 | 1223435 | 0.96 | 1258594 | 97.2 | 70 | 130 | |
| Tb | 159 | 1 | 5313188 | 0.44 | 4869290 | 109.1 | 70 | 130 | |
| Tb | 159 | 2 | 3366168 | 0.67 | 3206652 | 105.0 | 70 | 130 | |
| Ho | 165 | 1 | 5046680 | 0.95 | 4577809 | 110.2 | 70 | 130 | |
| Ho | 165 | 2 | 3276147 | 0.71 | 3119565 | 105.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-012** |
| **Data File Name** | **034SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:10:51-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2412** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 293 | 7.96 | 550 | |
| Na | 23 | 115 | 2 | 3957.50 | 3957.50 | ppb | 11832026 | 0.85 | 55000 | |
| Mg | 24 | 115 | 2 | 2514.86 | 2514.86 | ppb | 3606098 | 1.04 | 55000 | |
| Al | 27 | 115 | 2 | 419.30 | 419.30 | ppb | 238151 | 4.07 | 16500 | |
| K | 39 | 115 | 2 | 1664.25 | 1664.25 | ppb | 2826653 | 1.10 | 55000 | |
| Ca | 44 | 115 | 2 | 4009.70 | 4009.70 | ppb | 345162 | 0.20 | 55000 | |
| V | 51 | 115 | 2 | 0.80 | 0.80 | ppb | 17021 | 1.46 | 550 | |
| Cr | 52 | 115 | 2 | 1.13 | 1.13 | ppb | 32418 | 2.94 | 550 | |
| Mn | 55 | 115 | 2 | 341.17 | 341.17 | ppb | 5078238 | 0.74 | 550 | |
| Fe | 56 | 115 | 2 | 9460.20 | 9460.20 | ppb | 202727195 | 0.21 | 55000 | |
| Co | 59 | 115 | 2 | 0.24 | 0.24 | ppb | 10320 | 4.47 | 550 | |
| Ni | 60 | 115 | 2 | 0.69 | 0.69 | ppb | 8959 | 3.36 | 550 | |
| Cu | 65 | 115 | 2 | 0.97 | 0.97 | ppb | 23977 | 4.01 | 550 | |
| Zn | 66 | 115 | 2 | 19.45 | 19.45 | ppb | 95607 | 1.21 | 550 | |
| As | 75 | 115 | 2 | 0.41 | 0.41 | ppb | 1349 | 1.33 | 550 | |
| Se | 78 | 115 | 2 | -0.01 | -0.01 | ppb | 205 | 3.85 | 2750 | |
| Mo | 95 | 115 | 1 | 0.57 | 0.57 | ppb | 18249 | 0.79 | 550 | |
| Ag | 107 | 115 | 1 | 0.22 | 0.22 | ppb | 20774 | 3.88 | 550 | |
| Cd | 111 | 115 | 1 | 0.06 | 0.06 | ppb | 950 | 6.72 | 550 | |
| Sb | 121 | 115 | 1 | 0.43 | 0.43 | ppb | 27034 | 1.93 | 550 | |
| Ba | 137 | 159 | 1 | 52.18 | 52.18 | ppb | 1225727 | 0.93 | 550 | |
| Tl | 205 | 165 | 1 | 0.02 | 0.02 | ppb | 4279 | 10.70 | 550 | |
| Pb | 208 | 165 | 1 | 0.27 | 0.27 | ppb | 23567 | 3.04 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3146375 | 0.82 | 3015283 | 104.3 | 70 | 130 | |
| Sc | 45 | 2 | 172457 | 0.86 | 183263 | 94.1 | 70 | 130 | |
| In | 115 | 1 | 4501933 | 0.63 | 4174236 | 107.9 | 70 | 130 | |
| In | 115 | 2 | 1234539 | 1.28 | 1258594 | 98.1 | 70 | 130 | |
| Tb | 159 | 1 | 5444834 | 1.42 | 4869290 | 111.8 | 70 | 130 | |
| Tb | 159 | 2 | 3393743 | 1.17 | 3208652 | 105.8 | 70 | 130 | |
| Ho | 165 | 1 | 5168712 | 0.73 | 4577809 | 112.9 | 70 | 130 | |
| Ho | 165 | 2 | 3299486 | 0.43 | 3119565 | 105.8 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-014** |
| **Data File Name** | **035SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:15:14-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2501** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.02 | 0.02 | ppb | 213 | 14.32 | 550 | |
| Na | 23 | 115 | 2 | 50913.25 | 50913.25 | ppb | 148595783 | 0.22 | 55000 | |
| Mg | 24 | 115 | 2 | 4486.79 | 4486.79 | ppb | 6370333 | 0.17 | 55000 | |
| Al | 27 | 115 | 2 | 173.59 | 173.59 | ppb | 97954 | 3.38 | 16500 | |
| K | 39 | 115 | 2 | 714.47 | 714.47 | ppb | 1244528 | 0.22 | 55000 | |
| Ca | 44 | 115 | 2 | 9426.42 | 9426.42 | ppb | 801556 | 0.34 | 55000 | |
| V | 51 | 115 | 2 | 0.60 | 0.60 | ppb | 12694 | 1.85 | 550 | |
| Cr | 52 | 115 | 2 | 0.72 | 0.72 | ppb | 21608 | 2.25 | 550 | |
| Mn | 55 | 115 | 2 | 50.80 | 50.80 | ppb | 752264 | 1.04 | 550 | |
| Fe | 56 | 115 | 2 | 419.16 | 419.16 | ppb | 8985203 | 0.39 | 55000 | |
| Co | 59 | 115 | 2 | 0.18 | 0.18 | ppb | 7954 | 3.00 | 550 | |
| Ni | 60 | 115 | 2 | 0.97 | 0.97 | ppb | 12053 | 3.51 | 550 | |
| Cu | 65 | 115 | 2 | 0.44 | 0.44 | ppb | 15367 | 3.28 | 550 | |
| Zn | 66 | 115 | 2 | 21.97 | 21.97 | ppb | 106004 | 1.60 | 550 | |
| As | 75 | 115 | 2 | 6.89 | 6.89 | ppb | 21939 | 0.95 | 550 | |
| Se | 78 | 115 | 2 | 0.05 | 0.05 | ppb | 215 | 13.61 | 2750 | |
| Mo | 95 | 115 | 1 | 1.36 | 1.36 | ppb | 42444 | 2.04 | 550 | |
| Ag | 107 | 115 | 1 | 0.21 | 0.21 | ppb | 20198 | 3.05 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 170 | 11.30 | 550 | |
| Sb | 121 | 115 | 1 | 0.05 | 0.05 | ppb | 3565 | 3.21 | 550 | |
| Ba | 137 | 159 | 1 | 54.46 | 54.46 | ppb | 1242208 | 0.49 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 3344 | 6.66 | 550 | |
| Pb | 208 | 165 | 1 | 0.20 | 0.20 | ppb | 17890 | 3.19 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3162588 | 0.74 | 3015283 | 104.9 | 70 | 130 | |
| Sc | 45 | 2 | 175219 | 0.39 | 183263 | 95.6 | 70 | 130 | |
| In | 115 | 1 | 4419159 | 1.26 | 4174236 | 105.9 | 70 | 130 | |
| In | 115 | 2 | 1221928 | 0.44 | 1258594 | 97.1 | 70 | 130 | |
| Tb | 159 | 1 | 5287917 | 1.16 | 4869290 | 108.6 | 70 | 130 | |
| Tb | 159 | 2 | 3342305 | 0.89 | 3206652 | 104.2 | 70 | 130 | |
| Ho | 165 | 1 | 5037961 | 0.59 | 4577809 | 110.1 | 70 | 130 | |
| Ho | 165 | 2 | 3240367 | 0.20 | 3119565 | 103.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-016** |
| **Data File Name** | **036SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:19:39-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2502** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | 0.01 | ppb | 122 | 15.02 | 550 | |
| Na | 23 | 115 | 2 | 6651.72 | 6651.72 | ppb | 19647339 | 0.89 | 55000 | |
| Mg | 24 | 115 | 2 | 5008.07 | 5008.07 | ppb | 7139908 | 0.28 | 55000 | |
| Al | 27 | 115 | 2 | 71.85 | 71.85 | ppb | 41100 | 8.78 | 16500 | |
| K | 39 | 115 | 2 | 1144.71 | 1144.71 | ppb | 1956310 | 0.83 | 55000 | |
| Ca | 44 | 115 | 2 | 19748.82 | 19748.82 | ppb | 1684982 | 0.25 | 55000 | |
| V | 51 | 115 | 2 | 0.39 | 0.39 | ppb | 8298 | 6.85 | 550 | |
| Cr | 52 | 115 | 2 | 0.30 | 0.30 | ppb | 10688 | 0.36 | 550 | |
| Mn | 55 | 115 | 2 | 123.59 | 123.59 | ppb | 1831312 | 0.47 | 550 | |
| Fe | 56 | 115 | 2 | 140.10 | 140.10 | ppb | 3081515 | 2.42 | 55000 | |
| Co | 59 | 115 | 2 | 0.12 | 0.12 | ppb | 5167 | 1.60 | 550 | |
| Ni | 60 | 115 | 2 | 0.28 | 0.28 | ppb | 4257 | 3.26 | 550 | |
| Cu | 65 | 115 | 2 | 0.23 | 0.23 | ppb | 12087 | 1.16 | 550 | |
| Zn | 66 | 115 | 2 | 9.48 | 9.48 | ppb | 49774 | 1.55 | 550 | |
| As | 75 | 165 | 2 | 0.75 | 0.75 | ppb | 2442 | 2.24 | 550 | |
| Se | 78 | 165 | 2 | -0.07 | -0.07 | ppb | 191 | 5.90 | 2750 | |
| Mo | 95 | 115 | 1 | 0.90 | 0.90 | ppb | 28618 | 0.57 | 550 | |
| Ag | 107 | 115 | 1 | 0.19 | 0.19 | ppb | 18688 | 0.97 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 264 | 3.03 | 550 | |
| Sb | 121 | 115 | 1 | 0.07 | 0.07 | ppb | 5255 | 5.54 | 550 | |
| Ba | 137 | 159 | 1 | 86.43 | 86.43 | ppb | 2015457 | 0.12 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 3123 | 4.79 | 550 | |
| Pb | 208 | 165 | 1 | 0.07 | 0.07 | ppb | 8362 | 3.14 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3170976 | 0.33 | 3015283 | 105.2 | 70 | 130 | |
| Sc | 45 | 2 | 171122 | 0.94 | 183263 | 93.4 | 70 | 130 | |
| In | 115 | 1 | 4478723 | 1.46 | 4174236 | 107.3 | 70 | 130 | |
| In | 115 | 2 | 1227027 | 0.53 | 1258594 | 97.5 | 70 | 130 | |
| Tb | 159 | 1 | 5406815 | 0.69 | 4869290 | 111.0 | 70 | 130 | |
| Tb | 159 | 2 | 3343021 | 0.88 | 3206652 | 104.3 | 70 | 130 | |
| Ho | 165 | 1 | 5147890 | 0.49 | 4577809 | 112.5 | 70 | 130 | |
| Ho | 165 | 2 | 3269704 | 0.41 | 3119565 | 104.8 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-019** |
| **Data File Name** | **037SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:24:03-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2503** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | 0.01 | ppb | 162 | 7.21 | 550 | |
| Na | 23 | 115 | 2 | 292343.25 | 292343.25 | ppb | 802664157 | 0.25 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 21750.73 | 21750.73 | ppb | 29074172 | 0.53 | 55000 | |
| Al | 27 | 115 | 2 | 187.31 | 187.31 | ppb | 99529 | 10.10 | 16500 | |
| K | 39 | 115 | 2 | 15225.79 | 15225.79 | ppb | 23521520 | 1.63 | 55000 | |
| Ca | 44 | 115 | 2 | 18074.07 | 18074.07 | ppb | 1446068 | 1.47 | 55000 | |
| V | 51 | 115 | 2 | 0.77 | 0.77 | ppb | 15327 | 0.55 | 550 | |
| Cr | 52 | 115 | 2 | 0.71 | 0.71 | ppb | 20159 | 3.08 | 550 | |
| Mn | 55 | 115 | 2 | 62.13 | 62.13 | ppb | 865412 | 1.15 | 550 | |
| Fe | 56 | 115 | 2 | 629.39 | 629.39 | ppb | 12658926 | 1.37 | 55000 | |
| Co | 59 | 115 | 2 | 0.16 | 0.16 | ppb | 6493 | 0.87 | 550 | |
| Ni | 60 | 115 | 2 | 0.90 | 0.90 | ppb | 10671 | 3.87 | 550 | |
| Cu | 65 | 115 | 2 | 0.43 | 0.43 | ppb | 14354 | 3.50 | 550 | |
| Zn | 66 | 115 | 2 | 5.01 | 5.01 | ppb | 27643 | 0.76 | 550 | |
| As | 75 | 115 | 2 | 4.06 | 4.06 | ppb | 12198 | 0.82 | 550 | |
| Se | 78 | 115 | 2 | 0.08 | 0.08 | ppb | 210 | 3.59 | 2750 | |
| Mo | 95 | 115 | 1 | 1.38 | 1.38 | ppb | 40224 | 0.85 | 550 | |
| Ag | 107 | 115 | 1 | 0.26 | 0.26 | ppb | 22604 | 2.16 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 137 | 11.47 | 550 | |
| Sb | 121 | 115 | 1 | 0.06 | 0.06 | ppb | 3986 | 7.99 | 550 | |
| Ba | 137 | 159 | 1 | 38.80 | 38.80 | ppb | 841505 | 0.97 | 550 | |
| Tl | 205 | 165 | 1 | 0.00 | 0.00 | ppb | 2293 | 13.92 | 550 | |
| Pb | 208 | 165 | 1 | 0.39 | 0.39 | ppb | 30094 | 0.70 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3051905 | 1.26 | 3015283 | 101.2 | 70 | 130 | |
| Sc | 45 | 2 | 168779 | 0.92 | 183263 | 92.1 | 70 | 130 | |
| In | 115 | 1 | 4120873 | 0.99 | 4174236 | 98.7 | 70 | 130 | |
| In | 115 | 2 | 1150743 | 1.42 | 1258594 | 91.4 | 70 | 130 | |
| Tb | 159 | 1 | 5025531 | 0.65 | 4869290 | 103.2 | 70 | 130 | |
| Tb | 159 | 2 | 3164063 | 1.00 | 3206652 | 98.7 | 70 | 130 | |
| Ho | 165 | 1 | 4795950 | 1.78 | 4577809 | 104.8 | 70 | 130 | |
| Ho | 165 | 2 | 3068420 | 0.26 | 3119565 | 98.4 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-021** |
| **Data File Name** | **038SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:28:28-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2504** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.04 | 0.04 | ppb | 458 | 20.60 | 550 | |
| Na | 23 | 115 | 2 | 9392.59 | 9392.59 | ppb | 27625426 | 1.67 | 55000 | |
| Mg | 24 | 115 | 2 | 5068.76 | 5068.76 | ppb | 7214328 | 0.76 | 55000 | |
| Al | 27 | 115 | 2 | 586.23 | 586.23 | ppb | 330043 | 1.97 | 16500 | |
| K | 39 | 115 | 2 | 1400.47 | 1400.47 | ppb | 2372509 | 1.82 | 55000 | |
| Ca | 44 | 115 | 2 | 16931.39 | 16931.39 | ppb | 1442376 | 1.30 | 55000 | |
| V | 51 | 115 | 2 | 1.87 | 1.87 | ppb | 39332 | 2.47 | 550 | |
| Cr | 52 | 115 | 2 | 2.12 | 2.12 | ppb | 57647 | 0.76 | 550 | |
| Mn | 55 | 115 | 2 | 106.42 | 106.42 | ppb | 1574886 | 1.04 | 550 | |
| Fe | 56 | 115 | 2 | 878.98 | 878.98 | ppb | 18779135 | 0.76 | 55000 | |
| Co | 59 | 115 | 2 | 0.45 | 0.45 | ppb | 19033 | 3.73 | 550 | |
| Ni | 60 | 115 | 2 | 2.04 | 2.04 | ppb | 24306 | 1.26 | 550 | |
| Cu | 65 | 115 | 2 | 1.36 | 1.36 | ppb | 29892 | 2.85 | 550 | |
| Zn | 66 | 115 | 2 | 17.03 | 17.03 | ppb | 83897 | 0.35 | 550 | |
| As | 75 | 115 | 2 | 0.90 | 0.90 | ppb | 2905 | 2.35 | 550 | |
| Se | 78 | 115 | 2 | -0.06 | -0.06 | ppb | 191 | 4.07 | 2750 | |
| Mo | 95 | 115 | 1 | 1.53 | 1.53 | ppb | 48536 | 2.21 | 550 | |
| Ag | 107 | 115 | 1 | 0.18 | 0.18 | ppb | 17697 | 1.71 | 550 | |
| Cd | 111 | 115 | 1 | 0.02 | 0.02 | ppb | 320 | 0.80 | 550 | |
| Sb | 121 | 115 | 1 | 0.19 | 0.19 | ppb | 12378 | 3.55 | 550 | |
| Ba | 137 | 159 | 1 | 93.17 | 93.17 | ppb | 2184355 | 0.88 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 3093 | 2.29 | 550 | |
| Pb | 208 | 165 | 1 | 0.53 | 0.53 | ppb | 43110 | 0.57 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3198324 | 1.22 | 3015283 | 106.1 | 70 | 130 | |
| Sc | 45 | 2 | 172579 | 0.82 | 183263 | 94.2 | 70 | 130 | |
| In | 115 | 1 | 4493853 | 2.54 | 4174236 | 107.7 | 70 | 130 | |
| In | 115 | 2 | 1224966 | 0.95 | 1258594 | 97.3 | 70 | 130 | |
| Tb | 159 | 1 | 5435934 | 0.69 | 4869290 | 111.6 | 70 | 130 | |
| Tb | 159 | 2 | 3369183 | 1.07 | 3206652 | 105.1 | 70 | 130 | |
| Ho | 165 | 1 | 5160182 | 0.51 | 4577809 | 112.7 | 70 | 130 | |
| Ho | 165 | 2 | 3274708 | 0.68 | 3119565 | 105.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-023** |
| **Data File Name** | **039SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:32:51-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2505** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.04 | 0.04 | ppb | 450 | 4.51 | 550 | |
| Na | 23 | 115 | 2 | 9416.55 | 9416.55 | ppb | 27388817 | 1.53 | 55000 | |
| Mg | 24 | 115 | 2 | 5059.51 | 5059.51 | ppb | 7121679 | 1.09 | 55000 | |
| Al | 27 | 115 | 2 | 602.72 | 602.72 | ppb | 335536 | 1.05 | 16500 | |
| K | 39 | 115 | 2 | 1420.78 | 1420.78 | ppb | 2379079 | 1.88 | 55000 | |
| Ca | 44 | 115 | 2 | 16996.67 | 16996.67 | ppb | 1432010 | 2.74 | 55000 | |
| V | 51 | 115 | 2 | 1.89 | 1.89 | ppb | 39268 | 3.57 | 550 | |
| Cr | 52 | 115 | 2 | 2.10 | 2.10 | ppb | 56461 | 2.51 | 550 | |
| Mn | 55 | 115 | 2 | 107.37 | 107.37 | ppb | 1571307 | 0.89 | 550 | |
| Fe | 56 | 115 | 2 | 864.12 | 864.12 | ppb | 18260713 | 0.65 | 55000 | |
| Co | 59 | 115 | 2 | 0.45 | 0.45 | ppb | 18931 | 2.23 | 550 | |
| Ni | 60 | 115 | 2 | 2.15 | 2.15 | ppb | 25264 | 1.91 | 550 | |
| Cu | 65 | 115 | 2 | 1.42 | 1.42 | ppb | 30405 | 0.67 | 550 | |
| Zn | 66 | 115 | 2 | 20.23 | 20.23 | ppb | 97326 | 1.51 | 550 | |
| As | 75 | 115 | 2 | 0.88 | 0.88 | ppb | 2817 | 3.62 | 550 | |
| Se | 78 | 115 | 2 | -0.06 | -0.06 | ppb | 190 | 3.56 | 2750 | |
| Mo | 95 | 115 | 1 | 1.53 | 1.53 | ppb | 48430 | 0.35 | 550 | |
| Ag | 107 | 115 | 1 | 0.18 | 0.18 | ppb | 17946 | 4.05 | 550 | |
| Cd | 111 | 115 | 1 | 0.02 | 0.02 | ppb | 331 | 0.67 | 550 | |
| Sb | 121 | 115 | 1 | 0.21 | 0.21 | ppb | 13369 | 0.86 | 550 | |
| Ba | 137 | 159 | 1 | 94.16 | 94.16 | ppb | 2213426 | 1.04 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 3226 | 4.81 | 550 | |
| Pb | 208 | 165 | 1 | 0.54 | 0.54 | ppb | 44340 | 0.58 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3201378 | 0.54 | 3015283 | 106.2 | 70 | 130 | |
| Sc | 45 | 2 | 173116 | 0.72 | 183263 | 94.5 | 70 | 130 | |
| In | 115 | 1 | 4487673 | 1.29 | 4174236 | 107.5 | 70 | 130 | |
| In | 115 | 2 | 1211410 | 0.56 | 1258594 | 96.3 | 70 | 130 | |
| Tb | 159 | 1 | 5450270 | 1.16 | 4869290 | 111.9 | 70 | 130 | |
| Tb | 159 | 2 | 3378502 | 1.72 | 3206652 | 105.4 | 70 | 130 | |
| Ho | 165 | 1 | 5231382 | 0.97 | 4577809 | 114.3 | 70 | 130 | |
| Ho | 165 | 2 | 3289199 | 1.06 | 3119565 | 105.4 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-028** |
| **Data File Name** | **040SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:37:14-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2506** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.30 | 0.30 | ppb | 2929 | 3.62 | 550 | |
| Na | 23 | 115 | 2 | 101573.44 | 101573.44 | ppb | 278050511 | 0.72 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 35633.12 | 35633.12 | ppb | 47469458 | 1.07 | 55000 | |
| Al | 27 | 115 | 2 | 4286.00 | 4286.00 | ppb | 2255036 | 0.31 | 16500 | |
| K | 39 | 115 | 2 | 4563.40 | 4563.40 | ppb | 7075689 | 0.53 | 55000 | |
| Ca | 44 | 115 | 2 | 121104.99 | 121104.99 | ppb | 9651062 | 0.27 | 55000 | >LDR |
| V | 51 | 115 | 2 | 10.92 | 10.92 | ppb | 214177 | 1.39 | 550 | |
| Cr | 52 | 115 | 2 | 11.23 | 11.23 | ppb | 273337 | 0.22 | 550 | |
| Mn | 55 | 115 | 2 | 534.57 | 534.57 | ppb | 7389451 | 0.33 | 550 | |
| Fe | 56 | 115 | 2 | 7490.50 | 7490.50 | ppb | 149136238 | 0.65 | 55000 | |
| Co | 59 | 115 | 2 | 3.76 | 3.76 | ppb | 148404 | 0.43 | 550 | |
| Ni | 60 | 115 | 2 | 12.63 | 12.63 | ppb | 135712 | 0.69 | 550 | |
| Cu | 65 | 115 | 2 | 8.69 | 8.69 | ppb | 135498 | 1.04 | 550 | |
| Zn | 66 | 115 | 2 | 40.55 | 40.55 | ppb | 178313 | 0.43 | 550 | |
| As | 75 | 115 | 2 | 2.48 | 2.48 | ppb | 7446 | 0.89 | 550 | |
| Se | 78 | 115 | 2 | 0.50 | 0.50 | ppb | 294 | 8.55 | 2750 | |
| Mo | 95 | 115 | 1 | 1.52 | 1.52 | ppb | 45272 | 1.51 | 550 | |
| Ag | 107 | 115 | 1 | 0.19 | 0.19 | ppb | 17259 | 1.41 | 550 | |
| Cd | 111 | 115 | 1 | 0.05 | 0.05 | ppb | 763 | 0.81 | 550 | |
| Sb | 121 | 115 | 1 | 0.15 | 0.15 | ppb | 9233 | 1.85 | 550 | |
| Ba | 137 | 159 | 1 | 756.89 | 756.89 | ppb | 17338409 | 1.09 | 550 | >LDR |
| Tl | 205 | 165 | 1 | 0.05 | 0.05 | ppb | 7921 | 1.29 | 550 | |
| Pb | 208 | 165 | 1 | 3.88 | 3.88 | ppb | 292570 | 0.77 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3287899 | 0.59 | 3015283 | 109.0 | 70 | 130 | |
| Sc | 45 | 2 | 177214 | 1.36 | 183263 | 96.7 | 70 | 130 | |
| In | 115 | 1 | 4227710 | 0.65 | 4174236 | 101.3 | 70 | 130 | |
| In | 115 | 2 | 1146789 | 0.57 | 1256594 | 91.1 | 70 | 130 | |
| Tb | 159 | 1 | 5313392 | 0.76 | 4869290 | 109.1 | 70 | 130 | |
| Tb | 159 | 2 | 3257387 | 0.11 | 3206652 | 101.6 | 70 | 130 | |
| Ho | 165 | 1 | 5060217 | 0.70 | 4577809 | 111.0 | 70 | 130 | |
| Ho | 165 | 2 | 3193361 | 0.94 | 3119565 | 102.4 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | noges.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **041SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:41:34-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.04 | 0.04 | ppb | 356 | 13.82 | 550 | |
| Na | 23 | 115 | 2 | 89.60 | 89.60 | ppb | 451628 | 1.17 | 55000 | |
| Mg | 24 | 115 | 2 | 6.76 | 6.76 | ppb | 11677 | 2.09 | 55000 | |
| Al | 27 | 115 | 2 | 3.33 | 3.33 | ppb | 2613 | 5.66 | 16500 | |
| K | 39 | 115 | 2 | 11.79 | 11.79 | ppb | 98698 | 0.67 | 55000 | |
| Ca | 44 | 115 | 2 | 12.35 | 12.35 | ppb | 2355 | 2.90 | 55000 | |
| V | 51 | 115 | 2 | 0.03 | 0.03 | ppb | 948 | 3.15 | 550 | |
| Cr | 52 | 115 | 2 | 0.00 | 0.00 | ppb | 3346 | 2.37 | 550 | |
| Mn | 55 | 115 | 2 | 0.14 | 0.14 | ppb | 6629 | 3.83 | 550 | |
| Fe | 56 | 115 | 2 | 10.77 | 10.77 | ppb | 337936 | 0.37 | 55000 | |
| Co | 59 | 115 | 2 | 0.03 | 0.03 | ppb | 1553 | 2.81 | 550 | |
| Ni | 60 | 115 | 2 | 0.12 | 0.12 | ppb | 2536 | 4.25 | 550 | |
| Cu | 65 | 115 | 2 | 1.20 | 1.20 | ppb | 28266 | 0.98 | 550 | |
| Zn | 66 | 115 | 2 | 0.41 | 0.41 | ppb | 8845 | 5.26 | 550 | |
| As | 75 | 115 | 2 | 0.03 | 0.03 | ppb | 126 | 9.44 | 550 | |
| Se | 78 | 115 | 2 | 0.06 | 0.06 | ppb | 225 | 5.96 | 2750 | |
| Mo | 95 | 115 | 1 | 0.07 | 0.07 | ppb | 2703 | 3.51 | 550 | |
| Ag | 107 | 115 | 1 | 0.00 | 0.00 | ppb | 3478 | 8.35 | 550 | |
| Cd | 111 | 115 | 1 | 0.03 | 0.03 | ppb | 429 | 2.59 | 550 | |
| Sb | 121 | 115 | 1 | 0.03 | 0.03 | ppb | 2308 | 7.21 | 550 | |
| Ba | 137 | 159 | 1 | 0.08 | 0.08 | ppb | 2448 | 6.94 | 550 | |
| Tl | 205 | 165 | 1 | 0.06 | 0.06 | ppb | 8147 | 3.64 | 550 | |
| Pb | 208 | 165 | 1 | 0.02 | 0.02 | ppb | 4669 | 4.93 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3027025 | 0.14 | 3015283 | 100.4 | 70 | 130 | |
| Sc | 45 | 2 | 180715 | 0.98 | 183263 | 98.6 | 70 | 130 | |
| In | 115 | 1 | 4380603 | 0.65 | 4174236 | 104.9 | 70 | 130 | |
| In | 115 | 2 | 1265478 | 1.19 | 1258594 | 100.5 | 70 | 130 | |
| Tb | 159 | 1 | 5080700 | 1.99 | 4869290 | 104.3 | 70 | 130 | |
| Tb | 159 | 2 | 3303326 | 1.76 | 3206652 | 103.0 | 70 | 130 | |
| Ho | 165 | 1 | 4853754 | 1.16 | 4577809 | 106.0 | 70 | 130 | |
| Ho | 165 | 2 | 3211809 | 0.11 | 3119565 | 103.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Verification (CCV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCV V-357844** |
| **Data File Name** | **0426CCV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:46:02-04:00** |
| **Type** | **6-CCV** |
| **VialNumber** | **1201** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 49.86 | ppb | 50 | 460962 | 0.91 | 99.72 | 90 | 110 | |
| Na | 23 | 115 | 2 | 4991.94 | ppb | 5000 | 15201950 | 0.77 | 99.84 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 4945.32 | ppb | 5000 | 7247434 | 0.84 | 98.91 | 90 | 110 | |
| Al | 27 | 115 | 2 | 1463.77 | ppb | 1500 | 847522 | 1.09 | 97.58 | 90 | 110 | |
| K | 39 | 115 | 2 | 4945.15 | ppb | 5000 | 8427007 | 0.97 | 98.90 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 4897.62 | ppb | 5000 | 430502 | 1.03 | 97.95 | 90 | 110 | |
| V | 51 | 115 | 2 | 48.98 | ppb | 50 | 1055720 | 0.25 | 97.95 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 50.40 | ppb | 50 | 1337163 | 0.37 | 100.79 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 48.87 | ppb | 50 | 747104 | 0.31 | 97.74 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 4926.00 | ppb | 5000 | 107910321 | 0.95 | 98.52 | 90 | 110 | |
| Co | 59 | 115 | 2 | 51.05 | ppb | 50 | 2210533 | 0.58 | 102.11 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 49.45 | ppb | 50 | 581295 | 1.01 | 98.91 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 48.74 | ppb | 50 | 795241 | 0.08 | 97.48 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 49.33 | ppb | 50 | 237110 | 0.64 | 98.66 | 90 | 110 | |
| As | 75 | 115 | 2 | 49.39 | ppb | 50 | 162231 | 0.73 | 98.77 | 90 | 110 | |
| Se | 78 | 115 | 2 | 246.61 | ppb | 250 | 56118 | 0.42 | 98.64 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 50.51 | ppb | 50 | 1546616 | 0.95 | 101.01 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 51.00 | ppb | 50 | 4012672 | 0.32 | 101.99 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 49.65 | ppb | 50 | 725175 | 0.38 | 99.30 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 50.60 | ppb | 50 | 2996367 | 1.04 | 101.20 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 48.74 | ppb | 50 | 1103428 | 0.58 | 97.48 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 49.14 | ppb | 50 | 5366176 | 0.48 | 98.29 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 51.05 | ppb | 50 | 3734623 | 0.06 | 102.11 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3118658 | 1.05 | 3015283 | 103.4 | 70 | 130 | |
| Sc | 45 | 2 | 177979 | 1.43 | 183263 | 97.1 | 70 | 130 | |
| In | 115 | 1 | 4372744 | 0.29 | 4174236 | 104.8 | 70 | 130 | |
| In | 115 | 2 | 1261300 | 0.69 | 1258594 | 100.2 | 70 | 130 | |
| Tb | 159 | 1 | 5247007 | 0.65 | 4869290 | 107.8 | 70 | 130 | |
| Tb | 159 | 2 | 3363467 | 1.39 | 3206652 | 104.9 | 70 | 130 | |
| Ho | 165 | 1 | 4971041 | 1.25 | 4577809 | 108.6 | 70 | 130 | |
| Ho | 165 | 2 | 3243439 | 0.67 | 3119565 | 104.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Blank (CCB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCB V-357841** |
| **Data File Name** | **0436CCB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:50:19-04:00** |
| **Type** | **6-CCB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | ppb | 0.5 | |
| Na | 23 | 115 | 2 | 51.95 | ppb | 250 | |
| Mg | 24 | 115 | 2 | 0.60 | ppb | 250 | |
| Al | 27 | 115 | 2 | -0.07 | ppb | 100 | |
| K | 39 | 115 | 2 | 3.71 | ppb | 250 | |
| Ca | 44 | 115 | 2 | -5.86 | ppb | 250 | |
| V | 51 | 115 | 2 | 0.01 | ppb | 1 | |
| Cr | 52 | 115 | 2 | -0.03 | ppb | 1 | |
| Mn | 55 | 115 | 2 | -0.18 | ppb | 3 | |
| Fe | 56 | 115 | 2 | 1.80 | ppb | 150 | |
| Co | 59 | 115 | 2 | 0.00 | ppb | 1 | |
| Ni | 60 | 115 | 2 | -0.07 | ppb | 1.5 | |
| Cu | 65 | 115 | 2 | -0.37 | ppb | 5 | |
| Zn | 66 | 115 | 2 | -0.63 | ppb | 10 | |
| As | 75 | 115 | 2 | 0.02 | ppb | 1 | |
| Se | 78 | 115 | 2 | 0.12 | ppb | 5 | |
| Mo | 95 | 115 | 1 | 0.07 | ppb | 1 | |
| Ag | 107 | 115 | 1 | -0.01 | ppb | 0.5 | |
| Cd | 111 | 115 | 1 | 0.00 | ppb | 1 | |
| Sb | 121 | 115 | 1 | 0.04 | ppb | 1.5 | |
| Ba | 137 | 159 | 1 | 0.00 | ppb | 2.5 | |
| Tl | 205 | 165 | 1 | 0.14 | ppb | 1 | |
| Pb | 208 | 165 | 1 | -0.01 | ppb | 1.5 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3014939 | 0.60 | 3015283 | 100.0 | 70 | 130 | |
| Sc | 45 | 2 | 179272 | 0.41 | 183263 | 97.8 | 70 | 130 | |
| In | 115 | 1 | 4320312 | 0.52 | 4174236 | 103.5 | 70 | 130 | |
| In | 115 | 2 | 1258538 | 0.90 | 1258594 | 100.0 | 70 | 130 | |
| Tb | 159 | 1 | 4981046 | 0.44 | 4869290 | 102.3 | 70 | 130 | |
| Tb | 159 | 2 | 3240047 | 0.54 | 3206652 | 101.0 | 70 | 130 | |
| Ho | 165 | 1 | 4768818 | 0.72 | 4577809 | 104.2 | 70 | 130 | |
| Ho | 165 | 2 | 3177382 | 0.16 | 3119565 | 101.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-030** |
| **Data File Name** | **044SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:54:48-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2507** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | 0.01 | ppb | 88 | 12.21 | 550 | |
| Na | 23 | 115 | 2 | 41010.46 | 41010.46 | ppb | 117105259 | 0.74 | 55000 | |
| Mg | 24 | 115 | 2 | 2829.91 | 2829.91 | ppb | 3930466 | 0.52 | 55000 | |
| Al | 27 | 115 | 2 | 58.00 | 58.00 | ppb | 32437 | 2.13 | 16500 | |
| K | 39 | 115 | 2 | 3891.20 | 3891.20 | ppb | 6298782 | 1.27 | 55000 | |
| Ca | 44 | 115 | 2 | 3087.31 | 3087.31 | ppb | 257579 | 0.10 | 55000 | |
| V | 51 | 115 | 2 | 0.33 | 0.33 | ppb | 6964 | 2.39 | 550 | |
| Cr | 52 | 115 | 2 | 0.21 | 0.21 | ppb | 8374 | 1.15 | 550 | |
| Mn | 55 | 115 | 2 | 22.93 | 22.93 | ppb | 334394 | 2.06 | 550 | |
| Fe | 56 | 115 | 2 | 99.87 | 99.87 | ppb | 2166965 | 1.26 | 55000 | |
| Co | 59 | 115 | 2 | 0.05 | 0.05 | ppb | 2349 | 1.31 | 550 | |
| Ni | 60 | 115 | 2 | 0.36 | 0.36 | ppb | 5056 | 1.92 | 550 | |
| Cu | 65 | 115 | 2 | 0.07 | 0.07 | ppb | 9307 | 3.23 | 550 | |
| Zn | 66 | 115 | 2 | 6.84 | 6.84 | ppb | 36796 | 0.88 | 550 | |
| As | 75 | 115 | 2 | 0.99 | 0.99 | ppb | 3118 | 1.95 | 550 | |
| Se | 78 | 115 | 2 | -0.02 | -0.02 | ppb | 196 | 12.54 | 2750 | |
| Mo | 95 | 115 | 1 | 0.41 | 0.41 | ppb | 12981 | 0.87 | 550 | |
| Ag | 107 | 115 | 1 | 0.16 | 0.16 | ppb | 15857 | 3.83 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 79 | 7.85 | 550 | |
| Sb | 121 | 115 | 1 | 0.05 | 0.05 | ppb | 3941 | 1.61 | 550 | |
| Ba | 137 | 159 | 1 | 49.61 | 49.61 | ppb | 1128763 | 0.98 | 550 | |
| Tl | 205 | 165 | 1 | 0.03 | 0.03 | ppb | 5093 | 3.37 | 550 | |
| Pb | 208 | 165 | 1 | 0.12 | 0.12 | ppb | 12173 | 2.46 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3103663 | 0.54 | 3015283 | 102.9 | 70 | 130 | |
| Sc | 45 | 2 | 169004 | 1.35 | 183263 | 92.2 | 70 | 130 | |
| In | 115 | 1 | 4363916 | 1.34 | 4174236 | 104.5 | 70 | 130 | |
| In | 115 | 2 | 1195152 | 0.38 | 1258594 | 95.0 | 70 | 130 | |
| Tb | 159 | 1 | 5273548 | 0.56 | 4869290 | 108.3 | 70 | 130 | |
| Tb | 159 | 2 | 3262280 | 1.21 | 3206652 | 101.7 | 70 | 130 | |
| Ho | 165 | 1 | 5016566 | 0.48 | 4577809 | 109.6 | 70 | 130 | |
| Ho | 165 | 2 | 3183363 | 0.64 | 3119565 | 102.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-036** |
| **Data File Name** | **045SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T19:59:13-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2508** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.02 | 0.02 | ppb | 209 | 10.62 | 550 | |
| Na | 23 | 115 | 2 | 1599844.85 | 1599844.85 | ppb | 3739777900 | 1.45 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 209322.20 | 209322.20 | ppb | 238241608 | 0.81 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 462.08 | 462.08 | ppb | 208197 | 3.13 | 16500 | |
| K | 39 | 115 | 2 | 19759.95 | 19759.95 | ppb | 25974326 | 1.46 | 55000 | |
| Ca | 44 | 115 | 2 | 650475.77 | 650475.77 | ppb | 44284906 | 0.95 | 55000 | >LDR |
| V | 51 | 115 | 2 | 1.17 | 1.17 | ppb | 19746 | 3.38 | 550 | |
| Cr | 52 | 115 | 2 | 1.53 | 1.53 | ppb | 34047 | 2.73 | 550 | |
| Mn | 55 | 115 | 2 | 3533.37 | 3533.37 | ppb | 41708784 | 0.28 | 550 | >LDR |
| Fe | 56 | 115 | 2 | 2729.77 | 2729.77 | ppb | 46483653 | 1.19 | 55000 | |
| Co | 59 | 115 | 2 | 3.67 | 3.67 | ppb | 123472 | 0.45 | 550 | |
| Ni | 60 | 115 | 2 | 4.03 | 4.03 | ppb | 37596 | 0.72 | 550 | |
| Cu | 65 | 115 | 2 | 0.59 | 0.59 | ppb | 14229 | 3.66 | 550 | |
| Zn | 66 | 115 | 2 | 5.32 | 5.32 | ppb | 24658 | 1.02 | 550 | |
| As | 75 | 115 | 2 | 3.50 | 3.50 | ppb | 8963 | 2.21 | 550 | |
| Se | 78 | 115 | 2 | 0.55 | 0.55 | ppb | 261 | 9.53 | 2750 | |
| Mo | 95 | 115 | 1 | 0.76 | 0.76 | ppb | 18502 | 4.27 | 550 | |
| Ag | 107 | 115 | 1 | 0.24 | 0.24 | ppb | 17112 | 2.58 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 213 | 10.47 | 550 | |
| Sb | 121 | 115 | 1 | 0.09 | 0.09 | ppb | 4549 | 2.34 | 550 | |
| Ba | 137 | 159 | 1 | 25.51 | 25.51 | ppb | 455508 | 0.76 | 550 | |
| Tl | 205 | 165 | 1 | 0.02 | 0.02 | ppb | 3039 | 8.70 | 550 | |
| Pb | 208 | 165 | 1 | 0.39 | 0.39 | ppb | 24736 | 1.05 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 2879407 | 0.41 | 3015283 | 95.5 | 70 | 130 | |
| Sc | 45 | 2 | 172630 | 1.07 | 183263 | 94.2 | 70 | 130 | |
| In | 115 | 1 | 3397324 | 0.51 | 4174236 | 81.4 | 70 | 130 | |
| In | 115 | 2 | 979765 | 0.47 | 1258594 | 77.8 | 70 | 130 | |
| Tb | 159 | 1 | 4136339 | 0.60 | 4869290 | 84.9 | 70 | 130 | |
| Tb | 159 | 2 | 2557753 | 0.33 | 3206652 | 79.8 | 70 | 130 | |
| Ho | 165 | 1 | 3903113 | 1.05 | 4577809 | 85.3 | 70 | 130 | |
| Ho | 165 | 2 | 2466494 | 0.25 | 3119565 | 79.1 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-038** |
| **Data File Name** | **046SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T20:03:41-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2509** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.00 | 0.00 | ppb | 54 | 45.13 | 550 | |
| Na | 23 | 115 | 2 | 8193.50 | 8193.50 | ppb | 23903513 | 0.74 | 55000 | |
| Mg | 24 | 115 | 2 | 2863.01 | 2863.01 | ppb | 4039155 | 1.14 | 55000 | |
| Al | 27 | 115 | 2 | 29.72 | 29.72 | ppb | 17199 | 7.21 | 16500 | |
| K | 39 | 115 | 2 | 959.86 | 959.86 | ppb | 1635113 | 0.33 | 55000 | |
| Ca | 44 | 115 | 2 | 8768.70 | 8768.70 | ppb | 740889 | 1.08 | 55000 | |
| V | 51 | 115 | 2 | 1.37 | 1.37 | ppb | 28517 | 1.38 | 550 | |
| Cr | 52 | 115 | 2 | 0.42 | 0.42 | ppb | 13808 | 1.75 | 550 | |
| Mn | 55 | 115 | 2 | 2.84 | 2.84 | ppb | 45847 | 1.49 | 550 | |
| Fe | 56 | 115 | 2 | 111.17 | 111.17 | ppb | 2439034 | 0.91 | 55000 | |
| Co | 59 | 115 | 2 | 0.07 | 0.07 | ppb | 3194 | 2.19 | 550 | |
| Ni | 60 | 115 | 2 | 1.33 | 1.33 | ppb | 16097 | 1.44 | 550 | |
| Cu | 65 | 115 | 2 | 0.42 | 0.42 | ppb | 14982 | 0.75 | 550 | |
| Zn | 66 | 115 | 2 | 4.70 | 4.70 | ppb | 27771 | 2.21 | 550 | |
| As | 75 | 115 | 2 | 0.30 | 0.30 | ppb | 979 | 0.82 | 550 | |
| Se | 78 | 115 | 2 | -0.04 | -0.04 | ppb | 194 | 8.57 | 2750 | |
| Mo | 95 | 115 | 1 | 0.99 | 0.99 | ppb | 31563 | 2.65 | 550 | |
| Ag | 107 | 115 | 1 | 0.18 | 0.18 | ppb | 18208 | 2.12 | 550 | |
| Cd | 111 | 115 | 1 | 0.03 | 0.03 | ppb | 589 | 6.63 | 550 | |
| Sb | 121 | 115 | 1 | 0.63 | 0.63 | ppb | 39327 | 1.26 | 550 | |
| Ba | 137 | 159 | 1 | 25.13 | 25.13 | ppb | 582496 | 0.21 | 550 | |
| Tl | 205 | 165 | 1 | 0.00 | 0.00 | ppb | 2198 | 8.59 | 550 | |
| Pb | 208 | 165 | 1 | 0.06 | 0.06 | ppb | 7587 | 1.12 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3129798 | 0.64 | 3015283 | 103.8 | 70 | 130 | |
| Sc | 45 | 2 | 168636 | 0.50 | 183263 | 92.0 | 70 | 130 | |
| In | 115 | 1 | 4499884 | 0.17 | 4174236 | 107.8 | 70 | 130 | |
| In | 115 | 2 | 1213975 | 0.77 | 1258594 | 96.5 | 70 | 130 | |
| Tb | 159 | 1 | 5369667 | 1.48 | 4869290 | 110.3 | 70 | 130 | |
| Tb | 159 | 2 | 3348204 | 0.66 | 3206652 | 104.4 | 70 | 130 | |
| Ho | 165 | 1 | 5117640 | 1.15 | 4577809 | 111.8 | 70 | 130 | |
| Ho | 165 | 2 | 3251324 | 0.64 | 3119565 | 104.2 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-046** |
| **Data File Name** | **047SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T20:08:08-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2510** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.00 | 0.00 | ppb | 79 | 14.84 | 550 | |
| Na | 23 | 115 | 2 | 15977.04 | 15977.04 | ppb | 46226739 | 0.54 | 55000 | |
| Mg | 24 | 115 | 2 | 993.49 | 993.49 | ppb | 1396061 | 0.37 | 55000 | |
| Al | 27 | 115 | 2 | 77.05 | 77.05 | ppb | 43365 | 6.18 | 16500 | |
| K | 39 | 115 | 2 | 14419.00 | 14419.00 | ppb | 23394298 | 1.22 | 55000 | |
| Ca | 44 | 115 | 2 | 6362.01 | 6362.01 | ppb | 535341 | 1.03 | 55000 | |
| V | 51 | 115 | 2 | 0.40 | 0.40 | ppb | 8559 | 4.08 | 550 | |
| Cr | 52 | 115 | 2 | 0.38 | 0.38 | ppb | 12764 | 2.53 | 550 | |
| Mn | 55 | 115 | 2 | 57.96 | 57.96 | ppb | 848069 | 0.54 | 550 | |
| Fe | 56 | 115 | 2 | 362.71 | 362.71 | ppb | 7701522 | 1.01 | 55000 | |
| Co | 59 | 115 | 2 | 0.12 | 0.12 | ppb | 5170 | 4.80 | 550 | |
| Ni | 60 | 115 | 2 | 0.35 | 0.35 | ppb | 4933 | 2.20 | 550 | |
| Cu | 65 | 115 | 2 | 1.01 | 1.01 | ppb | 23957 | 0.72 | 550 | |
| Zn | 66 | 115 | 2 | 15.24 | 15.24 | ppb | 74759 | 1.27 | 550 | |
| As | 75 | 115 | 2 | 0.44 | 0.44 | ppb | 1419 | 0.45 | 550 | |
| Se | 78 | 115 | 2 | -0.01 | -0.01 | ppb | 200 | 7.55 | 2750 | |
| Mo | 95 | 115 | 1 | 1.01 | 1.01 | ppb | 31505 | 1.57 | 550 | |
| Ag | 107 | 115 | 1 | 0.17 | 0.17 | ppb | 17078 | 1.02 | 550 | |
| Cd | 111 | 115 | 1 | 0.43 | 0.43 | ppb | 6352 | 2.45 | 550 | |
| Sb | 121 | 115 | 1 | 0.24 | 0.24 | ppb | 15172 | 1.31 | 550 | |
| Ba | 137 | 159 | 1 | 24.92 | 24.92 | ppb | 584054 | 1.06 | 550 | |
| Tl | 205 | 165 | 1 | 0.00 | 0.00 | ppb | 2177 | 4.46 | 550 | |
| Pb | 208 | 165 | 1 | 0.27 | 0.27 | ppb | 23546 | 3.50 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3124333 | 0.37 | 3015283 | 103.6 | 70 | 130 | |
| Sc | 45 | 2 | 169179 | 0.94 | 183263 | 92.3 | 70 | 130 | |
| In | 115 | 1 | 4413069 | 0.37 | 4174236 | 105.7 | 70 | 130 | |
| In | 115 | 2 | 1206308 | 0.89 | 1258594 | 96.0 | 70 | 130 | |
| Tb | 159 | 1 | 5428514 | 0.72 | 4869290 | 111.5 | 70 | 130 | |
| Tb | 159 | 2 | 3347007 | 1.14 | 3206652 | 104.4 | 70 | 130 | |
| Ho | 165 | 1 | 5165300 | 1.54 | 4577809 | 112.8 | 70 | 130 | |
| Ho | 165 | 2 | 3273610 | 1.06 | 3119565 | 104.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |



Printed at: 9:59 AM on:9/26/2021

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-039** |
| **Data File Name** | **048SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T20:12:35-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2511** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.00 | 0.00 | ppb | 66 | 38.83 | 550 | |
| Na | 23 | 115 | 2 | 8624.49 | 8624.49 | ppb | 25199829 | 0.30 | 55000 | |
| Mg | 24 | 115 | 2 | 2968.63 | 2968.63 | ppb | 4224225 | 0.60 | 55000 | |
| Al | 27 | 115 | 2 | 3.85 | 3.85 | ppb | 2799 | 7.48 | 16500 | |
| K | 39 | 115 | 2 | 988.32 | 988.32 | ppb | 1684594 | 0.60 | 55000 | |
| Ca | 44 | 115 | 2 | 9225.10 | 9225.10 | ppb | 780849 | 0.57 | 55000 | |
| V | 51 | 115 | 2 | 1.26 | 1.26 | ppb | 26415 | 2.20 | 550 | |
| Cr | 52 | 115 | 2 | 0.18 | 0.18 | ppb | 7771 | 3.28 | 550 | |
| Mn | 55 | 115 | 2 | 0.23 | 0.23 | ppb | 7781 | 1.89 | 550 | |
| Fe | 56 | 115 | 2 | 7.09 | 7.09 | ppb | 247263 | 1.76 | 55000 | |
| Co | 59 | 115 | 2 | 0.01 | 0.01 | ppb | 491 | 15.54 | 550 | |
| Ni | 60 | 115 | 2 | 1.22 | 1.22 | ppb | 14899 | 2.34 | 550 | |
| Cu | 65 | 115 | 2 | 0.38 | 0.38 | ppb | 14402 | 1.69 | 550 | |
| Zn | 66 | 115 | 2 | 18.68 | 18.68 | ppb | 90710 | 1.48 | 550 | |
| As | 75 | 115 | 2 | 0.26 | 0.26 | ppb | 869 | 3.95 | 550 | |
| Se | 78 | 115 | 2 | -0.09 | -0.09 | ppb | 184 | 5.15 | 2750 | |
| Mo | 95 | 115 | 1 | 1.05 | 1.05 | ppb | 33407 | 1.02 | 550 | |
| Ag | 107 | 115 | 1 | 0.18 | 0.18 | ppb | 17962 | 3.32 | 550 | |
| Cd | 111 | 115 | 1 | 0.03 | 0.03 | ppb | 503 | 3.59 | 550 | |
| Sb | 121 | 115 | 1 | 0.53 | 0.53 | ppb | 33087 | 1.21 | 550 | |
| Ba | 137 | 159 | 1 | 25.03 | 25.03 | ppb | 597311 | 0.46 | 550 | |
| Tl | 205 | 165 | 1 | 0.00 | 0.00 | ppb | 2116 | 12.81 | 550 | |
| Pb | 208 | 165 | 1 | 0.03 | 0.03 | ppb | 5422 | 19.13 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3120546 | 0.24 | 3015283 | 103.5 | 70 | 130 | |
| Sc | 45 | 2 | 167482 | 0.52 | 183263 | 91.4 | 70 | 130 | |
| In | 115 | 1 | 4476421 | 0.61 | 4174236 | 107.2 | 70 | 130 | |
| In | 115 | 2 | 1216272 | 0.14 | 1258594 | 96.6 | 70 | 130 | |
| Tb | 159 | 1 | 5526663 | 0.38 | 4869290 | 113.5 | 70 | 130 | |
| Tb | 159 | 2 | 3361665 | 1.00 | 3206652 | 104.8 | 70 | 130 | |
| Ho | 165 | 1 | 5204670 | 0.68 | 4577809 | 113.7 | 70 | 130 | |
| Ho | 165 | 2 | 3288587 | 0.99 | 3119565 | 105.4 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |



Printed at: 9:59 AM on:9/26/2021

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **049SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T20:17:01-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 314 | 29.19 | 550 | |
| Na | 23 | 115 | 2 | 132.07 | 132.07 | ppb | 573366 | 1.76 | 55000 | |
| Mg | 24 | 115 | 2 | 6.71 | 6.71 | ppb | 11475 | 2.50 | 55000 | |
| Al | 27 | 115 | 2 | 3.19 | 3.19 | ppb | 2505 | 3.50 | 16500 | |
| K | 39 | 115 | 2 | 17.31 | 17.31 | ppb | 106835 | 1.10 | 55000 | |
| Ca | 44 | 115 | 2 | 10.52 | 10.52 | ppb | 2168 | 4.60 | 55000 | |
| V | 51 | 115 | 2 | 0.04 | 0.04 | ppb | 1057 | 7.46 | 550 | |
| Cr | 52 | 115 | 2 | 0.00 | 0.00 | ppb | 3212 | 4.26 | 550 | |
| Mn | 55 | 115 | 2 | 0.11 | 0.11 | ppb | 6125 | 0.99 | 550 | |
| Fe | 56 | 115 | 2 | 9.55 | 9.55 | ppb | 307825 | 2.14 | 55000 | |
| Co | 59 | 115 | 2 | 0.03 | 0.03 | ppb | 1399 | 7.77 | 550 | |
| Ni | 60 | 115 | 2 | 0.12 | 0.12 | ppb | 2419 | 1.04 | 550 | |
| Cu | 65 | 115 | 2 | 1.17 | 1.17 | ppb | 27427 | 0.52 | 550 | |
| Zn | 66 | 115 | 2 | 0.39 | 0.39 | ppb | 8635 | 2.83 | 550 | |
| As | 75 | 115 | 2 | 0.03 | 0.03 | ppb | 121 | 14.32 | 550 | |
| Se | 78 | 115 | 2 | 0.00 | 0.00 | ppb | 211 | 4.26 | 2750 | |
| Mo | 95 | 115 | 1 | 0.08 | 0.08 | ppb | 2699 | 4.79 | 550 | |
| Ag | 107 | 115 | 1 | 0.00 | 0.00 | ppb | 3355 | 5.41 | 550 | |
| Cd | 111 | 115 | 1 | 0.02 | 0.02 | ppb | 418 | 4.27 | 550 | |
| Sb | 121 | 115 | 1 | 0.02 | 0.02 | ppb | 2078 | 3.85 | 550 | |
| Ba | 137 | 159 | 1 | 0.07 | 0.07 | ppb | 2214 | 6.78 | 550 | |
| Tl | 205 | 165 | 1 | 0.05 | 0.05 | ppb | 7631 | 2.92 | 550 | |
| Pb | 208 | 165 | 1 | 0.02 | 0.02 | ppb | 4568 | 1.14 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 2978153 | 1.26 | 3015283 | 98.8 | 70 | 130 | |
| Sc | 45 | 2 | 175104 | 1.03 | 183263 | 95.5 | 70 | 130 | |
| In | 115 | 1 | 4319074 | 0.93 | 4174236 | 103.5 | 70 | 130 | |
| In | 115 | 2 | 1251205 | 0.66 | 1258594 | 99.4 | 70 | 130 | |
| Tb | 159 | 1 | 5100249 | 1.02 | 4869290 | 104.7 | 70 | 130 | |
| Tb | 159 | 2 | 3335043 | 0.49 | 3206652 | 104.0 | 70 | 130 | |
| Ho | 165 | 1 | 4863103 | 1.19 | 4577809 | 106.2 | 70 | 130 | |
| Ho | 165 | 2 | 3233833 | 1.02 | 3119565 | 103.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Verification (CCV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCV V-357844** |
| **Data File Name** | **0506CCV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T20:21:29-04:00** |
| **Type** | **6-CCV** |
| **VialNumber** | **1201** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 51.84 | ppb | 50 | 472424 | 0.74 | 103.69 | 90 | 110 | |
| Na | 23 | 115 | 2 | 4936.92 | ppb | 5000 | 14864344 | 0.68 | 98.74 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 4878.15 | ppb | 5000 | 7067188 | 0.22 | 97.56 | 90 | 110 | |
| Al | 27 | 115 | 2 | 1443.28 | ppb | 1500 | 826107 | 0.91 | 96.22 | 90 | 110 | |
| K | 39 | 115 | 2 | 4847.30 | ppb | 5000 | 8167480 | 1.61 | 96.95 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 4866.81 | ppb | 5000 | 422897 | 0.73 | 97.34 | 90 | 110 | |
| V | 51 | 115 | 2 | 48.50 | ppb | 50 | 1033534 | 0.78 | 97.00 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 49.43 | ppb | 50 | 1296642 | 0.97 | 98.86 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 48.35 | ppb | 50 | 730799 | 0.51 | 96.71 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 4862.35 | ppb | 5000 | 105295246 | 0.33 | 97.25 | 90 | 110 | |
| Co | 59 | 115 | 2 | 50.28 | ppb | 50 | 2152130 | 0.84 | 100.56 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 48.82 | ppb | 50 | 567298 | 0.36 | 97.65 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 47.96 | ppb | 50 | 773693 | 0.56 | 95.92 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 49.21 | ppb | 50 | 233860 | 0.91 | 98.43 | 90 | 110 | |
| As | 75 | 115 | 2 | 48.92 | ppb | 50 | 158863 | 0.37 | 97.84 | 90 | 110 | |
| Se | 78 | 115 | 2 | 245.96 | ppb | 250 | 55331 | 0.74 | 98.38 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 50.09 | ppb | 50 | 1534865 | 0.11 | 100.18 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 50.49 | ppb | 50 | 3975289 | 0.23 | 100.97 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 49.60 | ppb | 50 | 724867 | 0.34 | 99.19 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 50.79 | ppb | 50 | 3009518 | 0.69 | 101.58 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 48.52 | ppb | 50 | 1103462 | 0.71 | 97.04 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 49.17 | ppb | 50 | 5419314 | 1.44 | 98.33 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 51.32 | ppb | 50 | 3789307 | 0.42 | 102.64 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 3073873 | 0.90 | 3015283 | 101.9 | 70 | 130 | |
| Sc | 45 | 2 | 174121 | 0.49 | 183263 | 95.0 | 70 | 130 | |
| In | 115 | 1 | 4375828 | 0.46 | 4174236 | 104.8 | 70 | 130 | |
| In | 115 | 2 | 1246868 | 0.64 | 1258594 | 99.1 | 70 | 130 | |
| Tb | 159 | 1 | 5271115 | 1.17 | 4869290 | 108.3 | 70 | 130 | |
| Tb | 159 | 2 | 3364482 | 0.43 | 3206652 | 104.9 | 70 | 130 | |
| Ho | 165 | 1 | 5017087 | 0.88 | 4577809 | 109.6 | 70 | 130 | |
| Ho | 165 | 2 | 3262768 | 0.07 | 3119565 | 104.6 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Blank (CCB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCB V-357841** |
| **Data File Name** | **0516CCB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092421B.b** |
| **Acq Date Time** | **2021-09-24T20:25:47-04:00** |
| **Type** | **6-CCB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

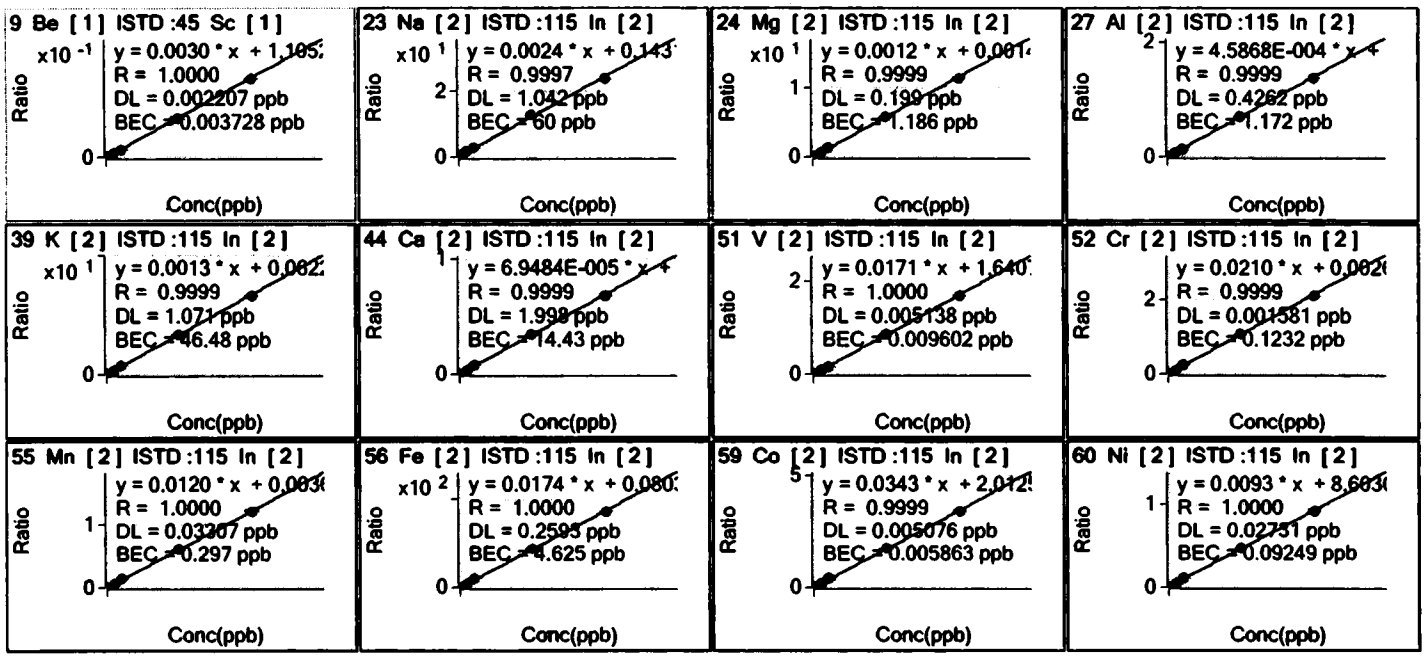
**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | ppb | 0.5 | |
| Na | 23 | 115 | 2 | 83.43 | ppb | 250 | |
| Mg | 24 | 115 | 2 | 0.68 | ppb | 250 | |
| Al | 27 | 115 | 2 | 0.08 | ppb | 100 | |
| K | 39 | 115 | 2 | 7.36 | ppb | 250 | |
| Ca | 44 | 115 | 2 | -7.06 | ppb | 250 | |
| V | 51 | 115 | 2 | 0.01 | ppb | 1 | |
| Cr | 52 | 115 | 2 | -0.03 | ppb | 1 | |
| Mn | 55 | 115 | 2 | -0.19 | ppb | 3 | |
| Fe | 56 | 115 | 2 | 1.61 | ppb | 150 | |
| Co | 59 | 115 | 2 | 0.01 | ppb | 1 | |
| Ni | 60 | 115 | 2 | -0.06 | ppb | 1.5 | |
| Cu | 65 | 115 | 2 | -0.37 | ppb | 5 | |
| Zn | 66 | 115 | 2 | -0.64 | ppb | 10 | |
| As | 75 | 115 | 2 | 0.02 | ppb | 1 | |
| Se | 78 | 115 | 2 | 0.17 | ppb | 5 | |
| Mo | 95 | 115 | 1 | 0.06 | ppb | 1 | |
| Ag | 107 | 115 | 1 | -0.01 | ppb | 0.5 | |
| Cd | 111 | 115 | 1 | 0.00 | ppb | 1 | |
| Sb | 121 | 115 | 1 | 0.04 | ppb | 1.5 | |
| Ba | 137 | 159 | 1 | 0.01 | ppb | 2.5 | |
| Tl | 205 | 165 | 1 | 0.15 | ppb | 1 | |
| Pb | 208 | 165 | 1 | -0.01 | ppb | 1.5 | |

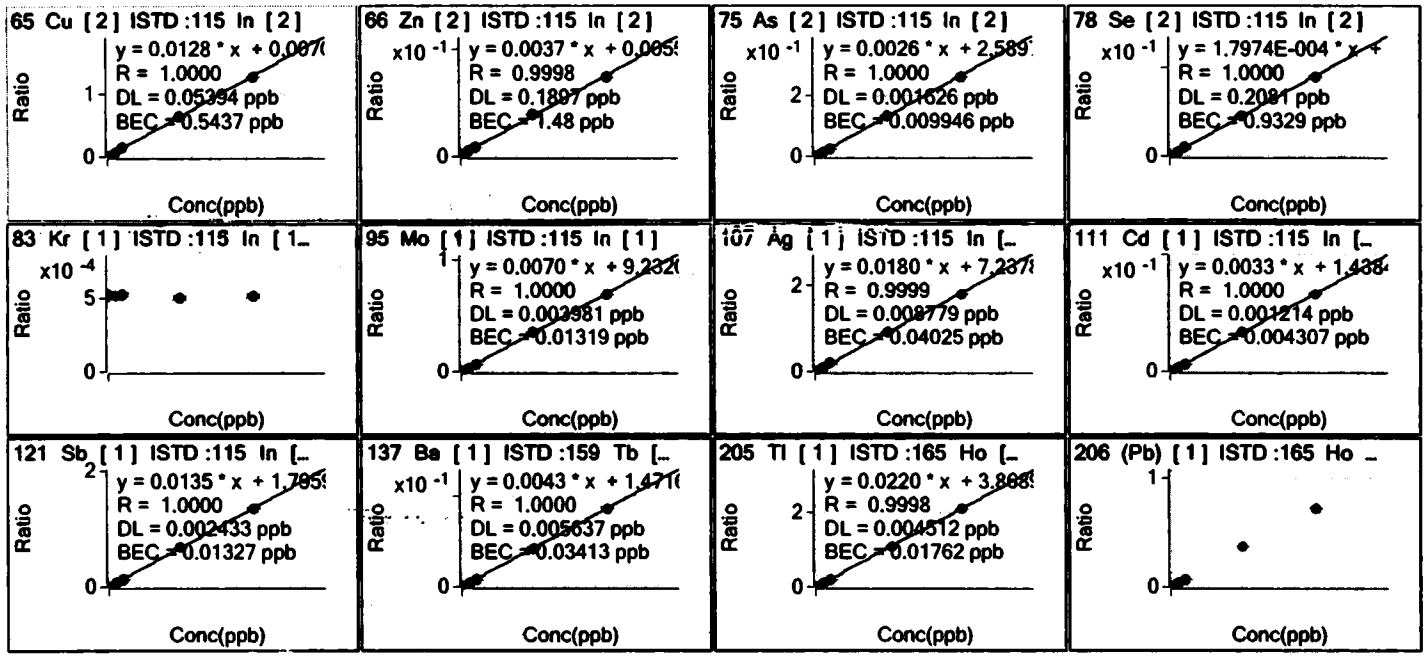
**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 2930755 | 0.45 | 3015283 | 97.2 | 70 | 130 | |
| Sc | 45 | 2 | 174252 | 1.58 | 183263 | 95.1 | 70 | 130 | |
| In | 115 | 1 | 4218841 | 0.10 | 4174236 | 101.1 | 70 | 130 | |
| In | 115 | 2 | 1250043 | 0.49 | 1258594 | 99.3 | 70 | 130 | |
| Tb | 159 | 1 | 5020759 | 0.48 | 4869290 | 103.1 | 70 | 130 | |
| Tb | 159 | 2 | 3339032 | 0.45 | 3206652 | 104.1 | 70 | 130 | |
| Ho | 165 | 1 | 4765240 | 0.52 | 4577809 | 104.1 | 70 | 130 | |
| Ho | 165 | 2 | 3209084 | 0.28 | 3119565 | 102.9 | 70 | 130 | |

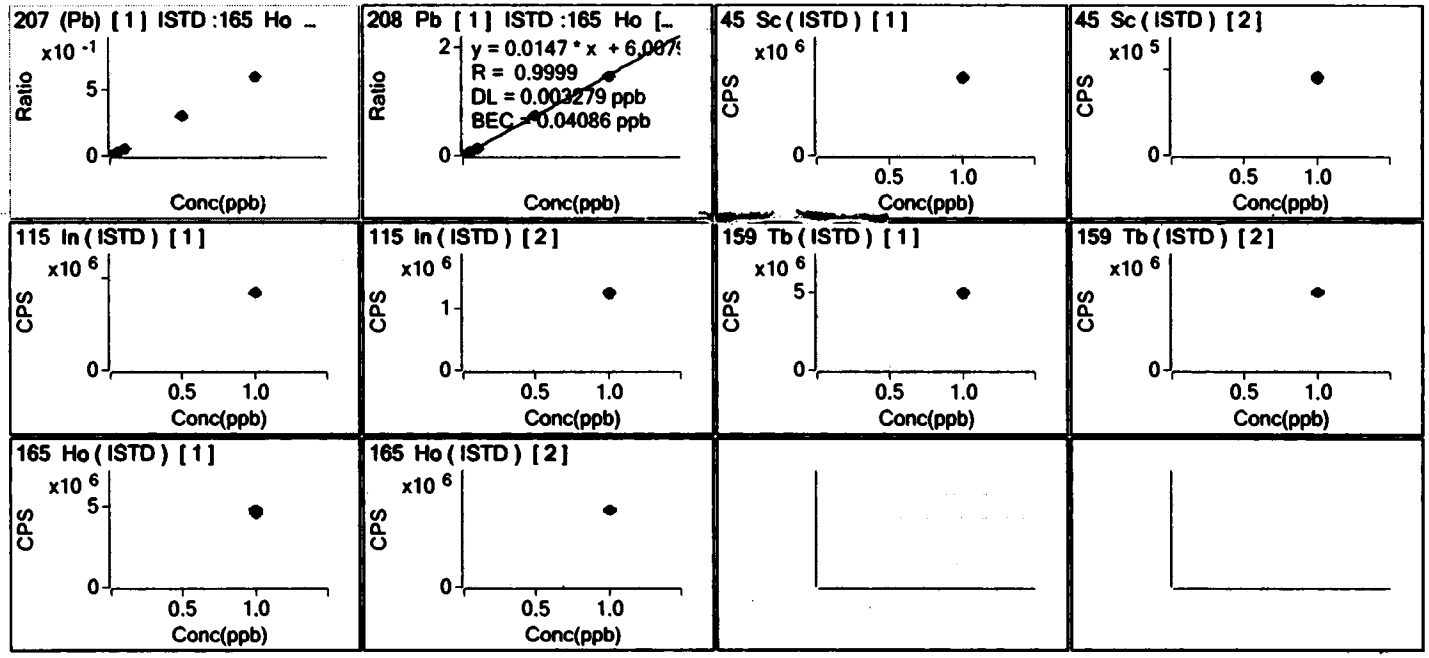
| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |




10917738 2688




10917738 2689




10917738 2590

V-357904
ANS 9/24/21

Analysis Begun

Logged In Analyst: peservice
Technique: AA FIMS-MHS
Spectrometer: FIMS-100, S/N B050-9550
Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\AA\Data\Sample Information\H27670SW.sifx
Batch ID: H27670SW
Results Data Set: H27670SW
Results Library: C:\Users\Public\PerkinElmer Syngistix\AA\Data\Results\Results.mdb

9/27/21

Sequence No.: 1
Autosampler Location: 1
Sample ID: Calibration Blank
Date Collected: 9/24/2021 5:07:18 PM
Analyst:
Data Type: Original

Replicate Data: Calibration Blank
Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [0.00] | 0.0000 | 0.0001 | 0.0000 | 5:08:08 PM | Yes |
| 2 | | [0.00] | -0.0000 | -0.0004 | -0.0000 | 5:08:44 PM | Yes |
| Mean: | | [0.00] | 0.0000 | | | | |
| SD: | | 0.0000 | 0.0000 | | | | |
| %RSD: | | 0.00% | 158.26% | | | | |

Auto-zero performed.

Sequence No.: 2
Autosampler Location: 2
Sample ID: .2 PPB
Date Collected: 9/24/2021 5:08:48 PM
Analyst:
Data Type: Original

Replicate Data: .2 PPB
Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [0.2] | 0.0020 | 0.0085 | 0.0020 | 5:09:38 PM | Yes |
| 2 | | [0.2] | 0.0020 | 0.0084 | 0.0020 | 5:10:15 PM | Yes |
| Mean: | | [0.2] | 0.0020 | | | | |
| SD: | | 0.000 | 0.0000 | | | | |
| %RSD: | | 0.00% | 0.18% | | | | |

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00976 Intercept: 0.00000

Sequence No.: 3
Autosampler Location: 3
Sample ID: .5 PPB
Date Collected: 9/24/2021 5:10:18 PM
Analyst:
Data Type: Original

Replicate Data: .5 PPB
Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [0.5] | 0.0042 | 0.0180 | 0.0042 | 5:11:08 PM | Yes |
| 2 | | [0.5] | 0.0041 | 0.0175 | 0.0041 | 5:11:43 PM | Yes |
| Mean: | | [0.5] | 0.0041 | | | | |
| SD: | | 0.000 | 0.0001 | | | | |
| %RSD: | | 0.00% | 1.36% | | | | |

Standard number 2 applied. [0.5]
Correlation Coef.: 0.996533 Slope: 0.00819 Intercept: 0.00012

Sequence No.: 4
Autosampler Location: 4
Sample ID: 1 PPB
Date Collected: 9/24/2021 5:11:46 PM
Analyst:
Data Type: Original

**Replicate Data: 1 PPB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [1] | 0.0080 | 0.0336 | 0.0080 | 5:12:35 PM | Yes |
| 2 | | [1] | 0.0079 | 0.0335 | 0.0079 | 5:13:11 PM | Yes |
| Mean: | | [1] | 0.0079 | | | | |
| SD: | | 0.00 | 0.0001 | | | | |
| %RSD: | | 0.00% | 0.68% | | | | |

Standard number 3 applied. [1]
Correlation Coef.: 0.998814 Slope: 0.00781 Intercept: 0.00019

---

**Sequence No.: 5** **Autosampler Location: 5**
**Sample ID: 2 PPB** **Date Collected: 9/24/2021 5:13:15 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: 2 PPB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [2] | 0.0156 | 0.0664 | 0.0156 | 5:14:06 PM | Yes |
| 2 | | [2] | 0.0157 | 0.0668 | 0.0158 | 5:14:43 PM | Yes |
| Mean: | | [2] | 0.0157 | | | | |
| SD: | | 0.00 | 0.0001 | | | | |
| %RSD: | | 0.00% | 0.54% | | | | |

Standard number 4 applied. [2]
Correlation Coef.: 0.999723 Slope: 0.00775 Intercept: 0.00021

---

**Sequence No.: 6** **Autosampler Location: 6**
**Sample ID: 5 PPB** **Date Collected: 9/24/2021 5:14:46 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: 5 PPB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [5] | 0.0396 | 0.1689 | 0.0396 | 5:15:37 PM | Yes |
| 2 | | [5] | 0.0396 | 0.1681 | 0.0396 | 5:16:14 PM | Yes |
| Mean: | | [5] | 0.0396 | | | | |
| SD: | | 0.00 | 0.0000 | | | | |
| %RSD: | | 0.00% | 0.01% | | | | |

Standard number 5 applied. [5]
Correlation Coef.: 0.999937 Slope: 0.00788 Intercept: 0.00012

---

**Sequence No.: 7** **Autosampler Location: 7**
**Sample ID: 10 PPB** **Date Collected: 9/24/2021 5:16:18 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: 10 PPB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [10] | 0.0776 | 0.3326 | 0.0776 | 5:17:10 PM | Yes |
| 2 | | [10] | 0.0778 | 0.3302 | 0.0778 | 5:17:47 PM | Yes |
| Mean: | | [10] | 0.0777 | | | | |
| SD: | | 0.00 | 0.0001 | | | | |
| %RSD: | | 0.00% | 0.18% | | | | |

Standard number 6 applied. [10]
Correlation Coef.: 0.999955 Slope: 0.00777 Intercept: 0.00025

---

**Sequence No.: 8** **Autosampler Location: 8**
**Sample ID: 25 PPB** **Date Collected: 9/24/2021 5:18:14 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: 25 PPB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [25] | 0.1899 | 0.8193 | 0.1900 | 5:19:05 PM | Yes |
| 2 | | [25] | 0.1850 | 0.8080 | 0.1850 | 5:19:41 PM | Yes |
| Mean: | | [25] | 0.1875 | | | | |
| SD: | | 0.00 | 0.0035 | | | | |
| %RSD: | | 0.00% | 1.86% | | | | |

Standard number 7 applied. [25]
Correlation Coef.: 0.999878 Slope: 0.00750 Intercept: 0.00082

---

**Calibration data for Hg 253.7** **Equation: Linear, Calculated Intercept**

| ID | Mean Signal (Abs) | Entered Conc. ug/L | Calculated Conc. ug/L | Standard Deviation | %RSD |
|---|---|---|---|---|---|
| Calibration Blank | 0.0000 | 0 | -0.109 | 0.00 | 158.26 |
| .2 PPB | 0.0020 | 0.2 | 0.151 | 0.00 | 0.18 |
| .5 PPB | 0.0041 | 0.5 | 0.441 | 0.00 | 1.36 |
| 1 PPB | 0.0079 | 1.0 | 0.948 | 0.00 | 0.68 |
| 2 PPB | 0.0157 | 2.0 | 1.981 | 0.00 | 0.54 |
| 5 PPB | 0.0396 | 5.0 | 5.171 | 0.00 | 0.01 |
| 10 PPB | 0.0777 | 10.0 | 10.245 | 0.00 | 0.18 |
| 25 PPB | 0.1875 | 25.0 | 24.873 | 0.00 | 1.86 |

Correlation Coef.: 0.999878 Slope: 0.00750 Intercept: 0.00082

==========

**Sequence No.: 9** **Autosampler Location: 10**
**Sample ID: ICV (2)** **Date Collected: 9/24/2021 5:20:08 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: ICV (2)** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 20.62 | 20.62 | 0.1555 | 0.6781 | 0.1556 | 5:21:00 PM | Yes |
| 2 | 20.45 | 20.45 | 0.1543 | 0.6699 | 0.1543 | 5:21:36 PM | Yes |
| Mean: | 20.53 | 20.53 | 0.1549 | | | | |
| SD: | 0.118 | 0.118 | 0.0009 | | | | |
| %RSD: | 0.58% | 0.58% | 0.57% | | | | |

QC value within limits for Hg 253.7 Recovery = 102.67%
All analyte(s) passed QC.

==========

**Sequence No.: 10** **Autosampler Location: 1**
**Sample ID: ICB** **Date Collected: 9/24/2021 5:22:04 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: ICB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.114 | -0.114 | -0.0000 | -0.0007 | -0.0000 | 5:22:55 PM | Yes |
| 2 | -0.104 | -0.104 | 0.0000 | 0.0002 | 0.0001 | 5:23:31 PM | Yes |
| Mean: | -0.109 | -0.109 | 0.0000 | | | | |
| SD: | 0.0074 | 0.0074 | 0.0001 | | | | |
| %RSD: | 6.77% | 6.77% | >999.9% | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

**Sequence No.: 11** **Autosampler Location: 11**
**Sample ID: MB 94428 (1)** **Date Collected: 9/24/2021 5:23:35 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: MB 94428 (1)** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.103 | -0.103 | 0.0000 | 0.0002 | 0.0001 | 5:24:26 PM | Yes |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | -0.099 | -0.099 | 0.0001 | 0.0005 | 0.0001 | 5:25:03 PM | Yes |
| Mean: | -0.101 | -0.101 | 0.0001 | | | | |
| SD: | 0.0027 | 0.0027 | 0.0000 | | | | |
| %RSD: | 2.70% | 2.70% | 33.56% | | | | |

**Sequence No.: 12** **Autosampler Location: 12**
**Sample ID: LCS 94428** **Date Collected: 9/24/2021 5:25:07 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: LCS 94428** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 10.11 | 10.11 | 0.0767 | 0.3360 | 0.0767 | 5:25:58 PM | Yes |
| 2 | 10.06 | 10.06 | 0.0763 | 0.3318 | 0.0763 | 5:26:35 PM | Yes |
| Mean: | 10.09 | 10.09 | 0.0765 | | | | |
| SD: | 0.037 | 0.037 | 0.0003 | | | | |
| %RSD: | 0.37% | 0.37% | 0.37% | | | | |

**Sequence No.: 13** **Autosampler Location: 13**
**Sample ID: LCS 94428 MR** **Date Collected: 9/24/2021 5:27:02 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: LCS 94428 MR** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 9.451 | 9.451 | 0.0717 | 0.3124 | 0.0718 | 5:27:55 PM | Yes |
| 2 | 9.400 | 9.400 | 0.0714 | 0.3116 | 0.0714 | 5:28:32 PM | Yes |
| Mean: | 9.426 | 9.426 | 0.0716 | | | | |
| SD: | 0.0356 | 0.0356 | 0.0003 | | | | |
| %RSD: | 0.38% | 0.38% | 0.37% | | | | |

**Sequence No.: 14** **Autosampler Location: 14**
**Sample ID: AD26083-040** **Date Collected: 9/24/2021 5:29:00 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: AD26083-040** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.104 | -0.104 | 0.0000 | -0.0001 | 0.0001 | 5:29:52 PM | Yes |
| 2 | -0.101 | -0.101 | 0.0001 | 0.0004 | 0.0001 | 5:30:29 PM | Yes |
| Mean: | -0.103 | -0.103 | 0.0000 | | | | |
| SD: | 0.0024 | 0.0024 | 0.0000 | | | | |
| %RSD: | 2.35% | 2.35% | 36.37% | | | | |

**Sequence No.: 15** **Autosampler Location: 15**
**Sample ID: AD26083-040 MR** **Date Collected: 9/24/2021 5:30:32 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: AD26083-040 MR** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.109 | -0.109 | 0.0000 | -0.0002 | 0.0000 | 5:31:23 PM | Yes |
| 2 | -0.099 | -0.099 | 0.0001 | 0.0007 | 0.0001 | 5:32:00 PM | Yes |
| Mean: | -0.104 | -0.104 | 0.0000 | | | | |
| SD: | 0.0071 | 0.0071 | 0.0001 | | | | |
| %RSD: | 6.84% | 6.84% | 129.56% | | | | |

**Sequence No.: 16** **Autosampler Location: 16**
**Sample ID: AD26083-042 MS 1** **Date Collected: 9/24/2021 5:32:04 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: AD26083-042 MS 1** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 5.274 | 5.274 | 0.0404 | 0.1916 | 0.0404 | 5:32:55 PM | Yes |
| 2 | 5.224 | 5.224 | 0.0400 | 0.1889 | 0.0400 | 5:33:31 PM | Yes |
| Mean: | 5.249 | 5.249 | 0.0402 | | | | |
| SD: | 0.0350 | 0.0350 | 0.0003 | | | | |
| %RSD: | 0.67% | 0.67% | 0.65% | | | | |

==========

**Sequence No.: 17** **Autosampler Location: 17**
**Sample ID: AD26083-044 MS 2** **Date Collected: 9/24/2021 5:33:35 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: AD26083-044 MS 2** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 5.191 | 5.191 | 0.0398 | 0.1879 | 0.0398 | 5:34:26 PM | Yes |
| 2 | 5.161 | 5.161 | 0.0396 | 0.1866 | 0.0396 | 5:35:03 PM | Yes |
| Mean: | 5.176 | 5.176 | 0.0397 | | | | |
| SD: | 0.0212 | 0.0212 | 0.0002 | | | | |
| %RSD: | 0.41% | 0.41% | 0.40% | | | | |

==========

**Sequence No.: 18** AMS 9/24/21 **Autosampler Location: 18**
**Sample ID: AD26083-003** **Date Collected: 9/24/2021 5:35:06 PM**
**Analyst:** AD 26083-003 **Data Type: Original**

---

**Replicate Data: AD26083-003** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.073 | -0.073 | 0.0003 | 0.0009 | 0.0003 | 5:35:57 PM | Yes |
| 2 | -0.074 | -0.074 | 0.0003 | 0.0011 | 0.0003 | 5:36:34 PM | Yes |
| Mean: | -0.074 | -0.074 | 0.0003 | | | | |
| SD: | 0.0003 | 0.0003 | 0.0000 | | | | |
| %RSD: | 0.34% | 0.34% | 0.71% | | | | |

==========

**Sequence No.: 19** **Autosampler Location: 19**
**Sample ID: AD26083-006** **Date Collected: 9/24/2021 5:36:38 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: AD26083-006** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.101 | -0.101 | 0.0001 | 0.0003 | 0.0001 | 5:37:29 PM | Yes |
| 2 | -0.099 | -0.099 | 0.0001 | 0.0004 | 0.0001 | 5:38:06 PM | Yes |
| Mean: | -0.100 | -0.100 | 0.0001 | | | | |
| SD: | 0.0018 | 0.0018 | 0.0000 | | | | |
| %RSD: | 1.84% | 1.84% | 19.88% | | | | |

==========

**Sequence No.: 20** **Autosampler Location: 20**
**Sample ID: AD26083-012** **Date Collected: 9/24/2021 5:38:09 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: AD26083-012** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.104 | -0.104 | 0.0000 | 0.0001 | 0.0001 | 5:39:01 PM | Yes |
| 2 | -0.102 | -0.102 | 0.0001 | 0.0003 | 0.0001 | 5:39:38 PM | Yes |
| Mean: | -0.103 | -0.103 | 0.0000 | | | | |
| SD: | 0.0019 | 0.0019 | 0.0000 | | | | |

%RSD: 1.86% 1.86% 29.69%

==========

**Sequence No.: 21** **Autosampler Location: 9**
**Sample ID: CCV** **Date Collected: 9/24/2021 5:39:41 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: CCV** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 10.54 | 10.54 | 0.0799 | 0.3428 | 0.0799 | 5:40:33 PM | Yes |
| 2 | 10.51 | 10.51 | 0.0797 | 0.3412 | 0.0797 | 5:41:10 PM | Yes |
| Mean: | 10.52 | 10.52 | 0.0798 | | | | |
| SD: | 0.021 | 0.021 | 0.0002 | | | | |
| %RSD: | 0.20% | 0.20% | 0.20% | | | | |

QC value within limits for Hg 253.7 Recovery = 105.23%
All analyte(s) passed QC.

==========

**Sequence No.: 22** **Autosampler Location: 1**
**Sample ID: CCB** **Date Collected: 9/24/2021 5:41:37 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: CCB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.096 | -0.096 | 0.0001 | 0.0005 | 0.0001 | 5:42:28 PM | Yes |
| 2 | -0.091 | -0.091 | 0.0001 | 0.0009 | 0.0002 | 5:43:05 PM | Yes |
| Mean: | -0.093 | -0.093 | 0.0001 | | | | |
| SD: | 0.0030 | 0.0030 | 0.0000 | | | | |
| %RSD: | 3.24% | 3.24% | 19.03% | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

**Sequence No.: 23** **Autosampler Location: 21**
**Sample ID: AD26083-014** **Date Collected: 9/24/2021 5:43:09 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: AD26083-014** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.103 | -0.103 | 0.0000 | 0.0003 | 0.0001 | 5:44:00 PM | Yes |
| 2 | -0.102 | -0.102 | 0.0001 | 0.0003 | 0.0001 | 5:44:36 PM | Yes |
| Mean: | -0.102 | -0.102 | 0.0001 | | | | |
| SD: | 0.0008 | 0.0008 | 0.0000 | | | | |
| %RSD: | 0.80% | 0.80% | 11.94% | | | | |

==========

**Sequence No.: 24** **Autosampler Location: 22**
**Sample ID: AD26083-016** **Date Collected: 9/24/2021 5:44:40 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: AD26083-016** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.104 | -0.104 | 0.0000 | -0.0000 | 0.0001 | 5:45:31 PM | Yes |
| 2 | -0.102 | -0.102 | 0.0001 | 0.0001 | 0.0001 | 5:46:07 PM | Yes |
| Mean: | -0.103 | -0.103 | 0.0000 | | | | |
| SD: | 0.0018 | 0.0018 | 0.0000 | | | | |
| %RSD: | 1.73% | 1.73% | 27.32% | | | | |

==========

**Sequence No.: 25** **Autosampler Location: 23**
**Sample ID: AD26083-019** **Date Collected: 9/24/2021 5:46:11 PM**

Analyst: Data Type: Original

---

Replicate Data: AD26083-019 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.107 | -0.107 | 0.0000 | -0.0002 | 0.0000 | 5:47:02 PM | Yes |
| 2 | -0.098 | -0.098 | 0.0001 | 0.0003 | 0.0001 | 5:47:39 PM | Yes |
| Mean: | -0.102 | -0.102 | 0.0001 | | | | |
| SD: | 0.0064 | 0.0064 | 0.0000 | | | | |
| %RSD: | 6.26% | 6.26% | 91.31% | | | | |

==========

Sequence No.: 26 Autosampler Location: 24
Sample ID: AD26083-021 Date Collected: 9/24/2021 5:47:42 PM
Analyst: Data Type: Original

---

Replicate Data: AD26083-021 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.099 | -0.099 | 0.0001 | 0.0005 | 0.0001 | 5:48:33 PM | Yes |
| 2 | -0.101 | -0.101 | 0.0001 | 0.0004 | 0.0001 | 5:49:09 PM | Yes |
| Mean: | -0.100 | -0.100 | 0.0001 | | | | |
| SD: | 0.0013 | 0.0013 | 0.0000 | | | | |
| %RSD: | 1.31% | 1.31% | 14.50% | | | | |

==========

Sequence No.: 27 Autosampler Location: 25
Sample ID: AD26083-023 Date Collected: 9/24/2021 5:49:13 PM
Analyst: Data Type: Original

---

Replicate Data: AD26083-023 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.101 | -0.101 | 0.0001 | 0.0003 | 0.0001 | 5:50:04 PM | Yes |
| 2 | -0.104 | -0.104 | 0.0000 | 0.0000 | 0.0001 | 5:50:40 PM | Yes |
| Mean: | -0.102 | -0.102 | 0.0001 | | | | |
| SD: | 0.0015 | 0.0015 | 0.0000 | | | | |
| %RSD: | 1.45% | 1.45% | 21.63% | | | | |

==========

Sequence No.: 28 Autosampler Location: 26
Sample ID: AD26083-028 Date Collected: 9/24/2021 5:50:44 PM
Analyst: Data Type: Original

---

Replicate Data: AD26083-028 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.095 | -0.095 | 0.0001 | 0.0006 | 0.0001 | 5:51:35 PM | Yes |
| 2 | -0.096 | -0.096 | 0.0001 | 0.0004 | 0.0001 | 5:52:11 PM | Yes |
| Mean: | -0.095 | -0.095 | 0.0001 | | | | |
| SD: | 0.0011 | 0.0011 | 0.0000 | | | | |
| %RSD: | 1.16% | 1.16% | 7.97% | | | | |

==========

Sequence No.: 29 Autosampler Location: 27
Sample ID: AD26083-030 Date Collected: 9/24/2021 5:52:15 PM
Analyst: Data Type: Original

---

Replicate Data: AD26083-030 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.107 | -0.107 | 0.0000 | -0.0000 | 0.0000 | 5:53:05 PM | Yes |
| 2 | -0.105 | -0.105 | 0.0000 | 0.0003 | 0.0001 | 5:53:42 PM | Yes |
| Mean: | -0.106 | -0.106 | 0.0000 | | | | |

| | | | |
|---|---|---|---|
| SD: | 0.0018 | 0.0018 | 0.0000 |
| %RSD: | 1.72% | 1.72% | 51.57% |

**Sequence No.: 30** **Autosampler Location: 28**
**Sample ID: AD26083-036** **Date Collected: 9/24/2021 5:53:46 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: AD26083-036** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.102 | -0.102 | 0.0001 | 0.0004 | 0.0001 | 5:54:38 PM | Yes |
| 2 | -0.101 | -0.101 | 0.0001 | 0.0004 | 0.0001 | 5:55:15 PM | Yes |
| Mean: | -0.101 | -0.101 | 0.0001 | | | | |
| SD: | 0.0005 | 0.0005 | 0.0000 | | | | |
| %RSD: | 0.46% | 0.46% | 5.97% | | | | |

**Sequence No.: 31** **Autosampler Location: 29**
**Sample ID: AD26083-038** **Date Collected: 9/24/2021 5:55:18 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: AD26083-038** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.105 | -0.105 | 0.0000 | 0.0002 | 0.0001 | 5:56:09 PM | Yes |
| 2 | -0.105 | -0.105 | 0.0000 | 0.0002 | 0.0001 | 5:56:46 PM | Yes |
| Mean: | -0.105 | -0.105 | 0.0000 | | | | |
| SD: | 0.0001 | 0.0001 | 0.0000 | | | | |
| %RSD: | 0.09% | 0.09% | 2.21% | | | | |

**Sequence No.: 32** **Autosampler Location: 30**
**Sample ID: AD26083-046** **Date Collected: 9/24/2021 5:56:50 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: AD26083-046** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.105 | -0.105 | 0.0000 | 0.0002 | 0.0001 | 5:57:41 PM | Yes |
| 2 | -0.106 | -0.106 | 0.0000 | 0.0002 | 0.0000 | 5:58:17 PM | Yes |
| Mean: | -0.106 | -0.106 | 0.0000 | | | | |
| SD: | 0.0004 | 0.0004 | 0.0000 | | | | |
| %RSD: | 0.39% | 0.39% | 11.02% | | | | |

**Sequence No.: 33** **Autosampler Location: 9**
**Sample ID: CCV** **Date Collected: 9/24/2021 5:58:21 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: CCV** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 10.38 | 10.38 | 0.0787 | 0.3396 | 0.0788 | 5:59:12 PM | Yes |
| 2 | 10.45 | 10.45 | 0.0793 | 0.3394 | 0.0793 | 5:59:49 PM | Yes |
| Mean: | 10.42 | 10.42 | 0.0790 | | | | |
| SD: | 0.050 | 0.050 | 0.0004 | | | | |
| %RSD: | 0.48% | 0.48% | 0.48% | | | | |

QC value within limits for Hg 253.7 Recovery = 104.18%
All analyte(s) passed QC.

**Sequence No.: 34** **Autosampler Location: 1**
**Sample ID: CCB** **Date Collected: 9/24/2021 6:00:17 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: CCB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.097 | -0.097 | 0.0001 | 0.0003 | 0.0001 | 6:01:08 PM | Yes |
| 2 | -0.099 | -0.099 | 0.0001 | 0.0004 | 0.0001 | 6:01:45 PM | Yes |
| Mean: | -0.098 | -0.098 | 0.0001 | | | | |
| SD: | 0.0009 | 0.0009 | 0.0000 | | | | |
| %RSD: | 0.96% | 0.96% | 8.25% | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

**Sequence No.: 35** **Autosampler Location: 31**
**Sample ID: AD26083-039** **Date Collected: 9/24/2021 6:01:48 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: AD26083-039** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.106 | -0.106 | 0.0000 | 0.0001 | 0.0000 | 6:02:40 PM | Yes |
| 2 | -0.103 | -0.103 | 0.0000 | 0.0003 | 0.0001 | 6:03:17 PM | Yes |
| Mean: | -0.105 | -0.105 | 0.0000 | | | | |
| SD: | 0.0018 | 0.0018 | 0.0000 | | | | |
| %RSD: | 1.69% | 1.69% | 38.38% | | | | |

QCV failed

==========

**Sequence No.: 36** **Autosampler Location: 9**
**Sample ID: CCV** **Date Collected: 9/24/2021 6:03:21 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: CCV** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.732 | 0.732 | 0.0063 | 0.0236 | 0.0063 | 6:04:12 PM | Yes |
| 2 | -0.109 | -0.109 | 0.0000 | 0.0001 | 0.0000 | 6:04:48 PM | Yes |
| Mean: | 0.312 | 0.312 | 0.0032 | | | | |
| SD: | 0.5944 | 0.5944 | 0.0045 | | | | |
| %RSD: | 190.72% | 190.72% | 141.19% | | | | |

QC value less than the lower limit for Hg 253.7 Recovery = 3.12%
QC Failed. Continue with analysis.

==========

**Sequence No.: 37** **Autosampler Location: 1**
**Sample ID: CCB** **Date Collected: 9/24/2021 7:22:04 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: CCB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.097 | -0.097 | 0.0001 | 0.0003 | 0.0001 | 7:22:55 PM | Yes |
| 2 | -0.097 | -0.097 | 0.0001 | 0.0004 | 0.0001 | 7:23:32 PM | Yes |
| Mean: | -0.097 | -0.097 | 0.0001 | | | | |
| SD: | 0.0002 | 0.0002 | 0.0000 | | | | |
| %RSD: | 0.22% | 0.22% | 1.81% | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Method: PE2 4300DV SWAQ AX Page: 1 Date: 9/29/2021 10:05:42 AM

SW27669C2 27688 / 27669 / 27670 / 27671

SW846

Analysis Begun

Start Time: 9/29/2021 10:02:00 AM
Logged In Analyst: shiamala
Spectrometer Model: Optima 4300 DV, S/N 069N-na
Plasma On Time: 9/29/2021 9:44:10 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\administrator\Sample Information\09.29.21.sif
Batch ID:
Results Data Set: SW27669C2
Results Library: C:\pe\administrator\Results\Results.mdb

10/4/21

Sequence No.: 1
Sample ID: CALBLK V-352951
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 9/29/2021 10:02:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-352951

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 810144.2 | 4222.16 | 0.52% | 100 | % |
| Y 371.029 | 850009.3 | 5577.21 | 0.66% | 100 | % |
| Ag 328.068† | -575.3 | 10.61 | 1.84% | [0.00] | mg/L |
| Al 308.215† | 10512.6 | 66.55 | 0.63% | [0.00] | mg/L |
| As 188.979† | 57.0 | 3.52 | 6.18% | [0.00] | mg/L |
| Ba 233.527† | -1174.3 | 5.58 | 0.47% | [0.00] | mg/L |
| Be 313.107† | 2782.6 | 92.94 | 3.34% | [0.00] | mg/L |
| Ca 315.887† | 5610.9 | 122.85 | 2.19% | [0.00] | mg/L |
| Cd 228.802† | 32.1 | 22.54 | 70.16% | [0.00] | mg/L |
| Co 228.616† | 93.2 | 2.04 | 2.19% | [0.00] | mg/L |
| Cr 267.716† | -1258.8 | 20.24 | 1.61% | [0.00] | mg/L |
| Cu 327.393† | -6497.0 | 50.00 | 0.77% | [0.00] | mg/L |
| Fe 273.955† | -858.8 | 7.72 | 0.90% | [0.00] | mg/L |
| K 404.721† | 4362.3 | 84.01 | 1.93% | [0.00] | mg/L |
| Mg 279.077† | -1830.3 | 112.31 | 6.14% | [0.00] | mg/L |
| Mn 257.610† | 647.6 | 74.93 | 11.57% | [0.00] | mg/L |
| Mo 202.031† | 196.3 | 4.51 | 2.30% | [0.00] | mg/L |
| Na 330.237† | -3395.6 | 75.04 | 2.21% | [0.00] | mg/L |
| Ni 231.604† | 1126.8 | 3.97 | 0.35% | [0.00] | mg/L |
| Pb 220.353† | -332.9 | 1.34 | 0.40% | [0.00] | mg/L |
| Sb 206.836† | -322.6 | 2.97 | 0.92% | [0.00] | mg/L |
| Se 196.026† | -18.9 | 3.63 | 19.23% | [0.00] | mg/L |
| Sn 189.927† | -66.0 | 4.40 | 6.66% | [0.00] | mg/L |
| Ti 334.940† | 1303.0 | 54.28 | 4.17% | [0.00] | mg/L |
| Tl 190.801† | -7.4 | 2.56 | 34.45% | [0.00] | mg/L |
| V 290.880† | 4404.0 | 85.39 | 1.94% | [0.00] | mg/L |
| Zn 206.200† | 233.9 | 10.17 | 4.35% | [0.00] | mg/L |
| Si 251.611† | 1391.0 | 101.83 | 7.32% | [0.00] | mg/L |
| B 249.772† | 446.4 | 43.14 | 9.66% | [0.00] | mg/L |
| Ce 413.764 | 2039.4 | 30.97 | 1.52% | [0.00] | mg/L |

27671 / 94429

All reported

26083-037 (10D)

Ca Mg Reported

Na K Al NOT Reported

Sequence No.: 2
Sample ID: CALST2 V-352961
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 9/29/2021 10:06:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-352961

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 798485.2 | 15414.63 | 1.93% | 98.6 | % |
| Y 371.029 | 829959.3 | 15076.36 | 1.82% | 97.6 | % |
| Ag 328.068† | 3586.7 | 85.52 | 2.38% | [0.02] | mg/L |
| Al 308.215† | 6575.6 | 239.76 | 3.65% | [0.2] | mg/L |
| As 188.979† | 54.1 | 3.20 | 5.92% | [0.040] | mg/L |
| Ba 233.527† | 4901.1 | 71.98 | 1.47% | [0.050] | mg/L |
| Be 313.107† | 38636.4 | 680.04 | 1.76% | [0.012] | mg/L |
| Ca 315.887† | 702305.9 | 12390.86 | 1.76% | [5] | mg/L |
| Cd 228.802† | 570.4 | 1.25 | 0.22% | [0.012] | mg/L |
| Co 228.616† | 678.2 | 9.02 | 1.33% | [0.020] | mg/L |
| Cr 267.716† | 5924.3 | 87.53 | 1.48% | [0.050] | mg/L |
| Cu 327.393† | 5984.0 | 27.99 | 0.47% | [0.050] | mg/L |
| Fe 273.955† | 9480.1 | 223.28 | 2.36% | [0.30] | mg/L |
| K 404.721† | 1090.2 | 111.30 | 10.21% | [5.0] | mg/L |
| Mg 279.077† | 135566.1 | 2272.75 | 1.68% | [5.0] | mg/L |
| Mn 257.610† | 34270.4 | 641.75 | 1.87% | [0.040] | mg/L |
| Mo 202.031† | 259.5 | 9.74 | 3.76% | [0.020] | mg/L |
| Na 330.237† | 6112.7 | 140.90 | 2.31% | [5.0] | mg/L |
| Ni 231.604† | 1736.3 | 37.75 | 2.17% | [0.050] | mg/L |
| Pb 220.353† | 197.4 | 9.68 | 4.90% | [0.050] | mg/L |
| Sb 206.836† | 57.7 | 4.84 | 8.39% | [0.050] | mg/L |
| Se 196.026† | 54.8 | 5.83 | 10.63% | [0.050] | mg/L |
| Sn 189.927† | 206.0 | 6.76 | 3.28% | [0.050] | mg/L |
| Ti 334.940† | 43228.6 | 846.13 | 1.96% | [0.050] | mg/L |
| Tl 190.801† | 42.4 | 0.29 | 0.68% | [0.050] | mg/L |
| V 290.880† | 7934.6 | 126.79 | 1.60% | [0.050] | mg/L |
| Zn 206.200† | 2495.9 | 37.31 | 1.50% | [0.050] | mg/L |
| Si 251.611† | 20518.1 | 395.84 | 1.93% | [0.2] | mg/L |
| B 249.772† | 19802.9 | 496.45 | 2.51% | [0.20] | mg/L |
| Ce 413.764 | 12146.6 | 51.70 | 0.43% | [0.2] | mg/L |

Sequence No.: 3
Sample ID: CALST3 V-352955
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 9/29/2021 10:10:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-352955

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 765978.7 | 1294.78 | 0.17% | 94.5 | % |
| Y 371.029 | 786031.5 | 1790.58 | 0.23% | 92.5 | % |
| Ag 328.068† | 17467.9 | 112.48 | 0.64% | [0.10] | mg/L |
| Al 308.215† | 152055.2 | 813.88 | 0.54% | [5.0] | mg/L |
| As 188.979† | 657.4 | 0.34 | 0.05% | [0.50] | mg/L |
| Ba 233.527† | 47417.9 | 254.01 | 0.54% | [0.50] | mg/L |
| Be 313.107† | 1587539.2 | 2380.14 | 0.15% | [0.50] | mg/L |
| Ca 315.887† | 6692676.9 | 8010.23 | 0.12% | [50] | mg/L |
| Cd 228.802† | 23909.5 | 37.54 | 0.16% | [0.50] | mg/L |
| Co 228.616† | 15759.3 | 14.12 | 0.09% | [0.50] | mg/L |
| Cr 267.716† | 57891.4 | 407.70 | 0.70% | [0.50] | mg/L |
| Cu 327.393† | 57519.8 | 486.80 | 0.85% | [0.50] | mg/L |
| Fe 273.955† | 148131.1 | 1020.38 | 0.69% | [5.0] | mg/L |
| K 404.721† | 6400.0 | 106.67 | 1.67% | [50] | mg/L |
| Mg 279.077† | 1241547.5 | 2895.66 | 0.23% | [50] | mg/L |
| Mn 257.610† | 409339.2 | 2700.75 | 0.66% | [0.50] | mg/L |
| Mo 202.031† | 6382.1 | 20.61 | 0.32% | [0.50] | mg/L |
| Na 330.237† | 66067.2 | 357.07 | 0.54% | [50] | mg/L |
| Ni 231.604† | 16217.5 | 48.53 | 0.30% | [0.50] | mg/L |
| Pb 220.353† | 1966.3 | 8.87 | 0.45% | [0.50] | mg/L |
| Sb 206.836† | 587.2 | 4.17 | 0.71% | [0.50] | mg/L |
| Se 196.026† | 500.6 | 4.31 | 0.86% | [0.50] | mg/L |
| Sn 189.927† | 2056.4 | 4.46 | 0.22% | [0.50] | mg/L |
| Ti 334.940† | 422948.6 | 2472.95 | 0.58% | [0.50] | mg/L |
| Tl 190.801† | 427.9 | 3.93 | 0.92% | [0.50] | mg/L |
| V 290.880† | 79523.1 | 452.17 | 0.57% | [0.50] | mg/L |
| Zn 206.200† | 24713.0 | 35.13 | 0.14% | [0.50] | mg/L |
| Si 251.611† | 223167.0 | 1359.59 | 0.61% | [5] | mg/L |
| B 249.772† | 48562.9 | 641.09 | 1.32% | [0.50] | mg/L |
| Ce 413.764 | 27330.6 | 122.63 | 0.45% | [0.5] | mg/L |

Sequence No.: 4
Sample ID: CALST4 V-352956
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 9/29/2021 10:14:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-352956

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 725784.9 | 26375.14 | 3.63% | 89.6 | % |
| Y 371.029 | 740369.4 | 26942.13 | 3.64% | 87.1 | % |
| Ag 328.068† | 35813.5 | 1402.50 | 3.92% | [0.20] | mg/L |
| Al 308.215† | 309480.8 | 12667.40 | 4.09% | [10] | mg/L |
| As 188.979† | 1362.9 | 44.58 | 3.27% | [1.0] | mg/L |
| Ba 233.527† | 96791.9 | 3803.86 | 3.93% | [1.0] | mg/L |
| Be 313.107† | 3302385.0 | 159821.11 | 4.84% | [1.0] | mg/L |
| Ca 315.887† | 13844292.4 | 667142.84 | 4.82% | [100] | mg/L |
| Cd 228.802† | 49477.3 | 1901.16 | 3.84% | [1.0] | mg/L |
| Co 228.616† | 31921.2 | 1070.40 | 3.35% | [1.0] | mg/L |
| Cr 267.716† | 118053.8 | 4610.08 | 3.91% | [1.0] | mg/L |
| Cu 327.393† | 117248.5 | 4254.95 | 3.63% | [1.0] | mg/L |
| Fe 273.955† | 301180.8 | 11973.19 | 3.98% | [10] | mg/L |
| K 404.721† | 13984.0 | 696.72 | 4.98% | [100] | mg/L |
| Mg 279.077† | 2528560.8 | 97838.11 | 3.87% | [100] | mg/L |
| Mn 257.610† | 834962.7 | 33143.92 | 3.97% | [1.0] | mg/L |
| Mo 202.031† | 13027.6 | 444.36 | 3.41% | [1.0] | mg/L |
| Na 330.237† | 143372.8 | 5691.57 | 3.97% | [100] | mg/L |
| Ni 231.604† | 33142.0 | 1300.50 | 3.92% | [1.0] | mg/L |
| Pb 220.353† | 4001.3 | 129.20 | 3.23% | [1.0] | mg/L |
| Sb 206.836† | 1216.8 | 32.01 | 2.63% | [1.0] | mg/L |
| Se 196.026† | 1031.6 | 34.25 | 3.32% | [1.0] | mg/L |
| Sn 189.927† | 4113.4 | 138.37 | 3.36% | [1.0] | mg/L |
| Ti 334.940† | 875951.6 | 35506.19 | 4.05% | [1.0] | mg/L |
| Tl 190.801† | 878.5 | 32.09 | 3.65% | [1.0] | mg/L |
| V 290.880† | 164153.8 | 6572.90 | 4.00% | [1.0] | mg/L |
| Zn 206.200† | 50860.9 | 1937.80 | 3.81% | [1.0] | mg/L |
| Si 251.611† | 456904.2 | 17937.40 | 3.93% | [10] | mg/L |
| B 249.772† | 101251.4 | 4658.42 | 4.60% | [1.0] | mg/L |
| Ce 413.764 | 51819.0 | 348.27 | 0.67% | [1] | mg/L |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| Ag 328.068 | 3 | Lin, Calc Int | -79.0 | 178700 | 0.00000 | 0.999910 | |
| Al 308.215 | 3 | Lin, Calc Int | -314.4 | 30880 | 0.00000 | 0.999955 | |
| As 188.979 | 3 | Lin, Calc Int | -4.6 | 1359 | 0.00000 | 0.999829 | |
| Ba 233.527 | 3 | Lin, Calc Int | -151.4 | 96590 | 0.00000 | 0.999940 | |
| Be 313.107 | 3 | Lin, Calc Int | -12038.0 | 3291000 | 0.00000 | 0.999801 | |
| Ca 315.887 | 3 | Lin, Calc Int | -37474.3 | 138000 | 0.00000 | 0.999841 | |
| Cd 228.802 | 3 | Lin, Calc Int | -161.5 | 49340 | 0.00000 | 0.999851 | |
| Co 228.616 | 3 | Lin, Calc Int | -18.7 | 31860 | 0.00000 | 0.999976 | |
| Cr 267.716 | 3 | Lin, Calc Int | -198.2 | 117800 | 0.00000 | 0.999947 | |
| Cu 327.393 | 3 | Lin, Calc Int | -147.5 | 117000 | 0.00000 | 0.999947 | |
| Fe 273.955 | 3 | Lin, Calc Int | -247.5 | 30050 | 0.00000 | 0.999959 | |
| K 404.721 | 3 | Lin, Calc Int | 67.8 | 136.8 | 0.00000 | 0.998231 | |
| Mg 279.077 | 3 | Lin, Calc Int | -45.2 | 25200 | 0.00000 | 0.999939 | |
| Mn 257.610 | 3 | Lin, Calc Int | -1094.5 | 833100 | 0.00000 | 0.999944 | |
| Mo 202.031 | 3 | Lin, Calc Int | -24.5 | 13000 | 0.00000 | 0.999945 | |
| Na 330.237 | 3 | Lin, Calc Int | -1504.8 | 1429 | 0.00000 | 0.999196 | |
| Ni 231.604 | 3 | Lin, Calc Int | -29.1 | 33040 | 0.00000 | 0.999926 | |
| Pb 220.353 | 3 | Lin, Calc Int | -7.5 | 3997 | 0.00000 | 0.999960 | |
| Sb 206.836 | 3 | Lin, Calc Int | -5.3 | 1215 | 0.00000 | 0.999840 | |
| Se 196.026 | 3 | Lin, Calc Int | -1.3 | 1027 | 0.00000 | 0.999859 | |
| Sn 189.927 | 3 | Lin, Calc Int | 0.1 | 4113 | 0.00000 | 1.000000 | |
| Ti 334.940 | 3 | Lin, Calc Int | -3008.2 | 873700 | 0.00000 | 0.999837 | |
| Tl 190.801 | 3 | Lin, Calc Int | -2.8 | 877.3 | 0.00000 | 0.999911 | |
| V 290.880 | 3 | Lin, Calc Int | -590.7 | 163900 | 0.00000 | 0.999870 | |
| Zn 206.200 | 3 | Lin, Calc Int | -152.6 | 50760 | 0.00000 | 0.999892 | |
| Si 251.611 | 3 | Lin, Calc Int | 4195.8 | 44990 | 0.00000 | 0.999578 | |
| B 249.772 | 3 | Lin, Calc Int | -587.1 | 101200 | 0.00000 | 0.999753 | |
| Ce 413.764 | 3 | Lin, Calc Int | 1021.6 | 51300 | 0.00000 | 0.999171 | |

Sequence No.: 5
Sample ID: ICV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 10:20:24 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 755261.0 | 93.2 | % | 0.07 | | | | 0.07% |
| Y 371.029 | 765113.4 | 90.0 | % | 1.41 | | | | 1.57% |
| Ag 328.068† | 17323.4 | 0.0980900 | mg/L | 0.00032460 | 0.0980900 | mg/L | 0.00032460 | 0.33% |
| QC value within limits for Ag 328.068 Recovery = 98.09% | | | | | | | | |
| Al 308.215† | 152959.1 | 4.96359 | mg/L | 0.021278 | 4.96359 | mg/L | 0.021278 | 0.43% |
| QC value within limits for Al 308.215 Recovery = 99.27% | | | | | | | | |
| As 188.979† | 667.2 | 0.494006 | mg/L | 0.0037698 | 0.494006 | mg/L | 0.0037698 | 0.76% |
| QC value within limits for As 188.979 Recovery = 98.80% | | | | | | | | |
| Ba 233.527† | 47627.3 | 0.494649 | mg/L | 0.0026626 | 0.494649 | mg/L | 0.0026626 | 0.54% |
| QC value within limits for Ba 233.527 Recovery = 98.93% | | | | | | | | |
| Be 313.107† | 1592585.3 | 0.487509 | mg/L | 0.0000872 | 0.487509 | mg/L | 0.0000872 | 0.02% |
| QC value within limits for Be 313.107 Recovery = 97.50% | | | | | | | | |
| Ca 315.887† | 6707514.1 | 48.8786 | mg/L | 0.03829 | 48.8786 | mg/L | 0.03829 | 0.08% |
| QC value within limits for Ca 315.887 Recovery = 97.76% | | | | | | | | |
| Cd 228.802† | 24005.3 | 0.495783 | mg/L | 0.0018614 | 0.495783 | mg/L | 0.0018614 | 0.38% |
| QC value within limits for Cd 228.802 Recovery = 99.16% | | | | | | | | |
| Co 228.616† | 15814.0 | 0.497035 | mg/L | 0.0011520 | 0.497035 | mg/L | 0.0011520 | 0.23% |
| QC value within limits for Co 228.616 Recovery = 99.41% | | | | | | | | |
| Cr 267.716† | 58316.3 | 0.496531 | mg/L | 0.0025901 | 0.496531 | mg/L | 0.0025901 | 0.52% |
| QC value within limits for Cr 267.716 Recovery = 99.31% | | | | | | | | |
| Cu 327.393† | 57980.1 | 0.496857 | mg/L | 0.0029061 | 0.496857 | mg/L | 0.0029061 | 0.58% |
| QC value within limits for Cu 327.393 Recovery = 99.37% | | | | | | | | |
| Fe 273.955† | 148702.2 | 4.95655 | mg/L | 0.024906 | 4.95655 | mg/L | 0.024906 | 0.50% |
| QC value within limits for Fe 273.955 Recovery = 99.13% | | | | | | | | |
| K 404.721† | 6520.8 | 47.1730 | mg/L | 0.64210 | 47.1730 | mg/L | 0.64210 | 1.36% |
| QC value within limits for K 404.721 Recovery = 94.35% | | | | | | | | |
| Mg 279.077† | 1242422.7 | 49.3061 | mg/L | 0.02866 | 49.3061 | mg/L | 0.02866 | 0.06% |
| QC value within limits for Mg 279.077 Recovery = 98.61% | | | | | | | | |
| Mn 257.610† | 411568.8 | 0.495344 | mg/L | 0.0024572 | 0.495344 | mg/L | 0.0024572 | 0.50% |
| QC value within limits for Mn 257.610 Recovery = 99.07% | | | | | | | | |
| Mo 202.031† | 6431.5 | 0.496820 | mg/L | 0.0011730 | 0.496820 | mg/L | 0.0011730 | 0.24% |
| QC value within limits for Mo 202.031 Recovery = 99.36% | | | | | | | | |
| Na 330.237† | 66288.9 | 47.4249 | mg/L | 0.19488 | 47.4249 | mg/L | 0.19488 | 0.41% |
| QC value within limits for Na 330.237 Recovery = 94.85% | | | | | | | | |
| Ni 231.604† | 16324.5 | 0.494962 | mg/L | 0.0017827 | 0.494962 | mg/L | 0.0017827 | 0.36% |
| QC value within limits for Ni 231.604 Recovery = 98.99% | | | | | | | | |
| Pb 220.353† | 1964.9 | 0.497502 | mg/L | 0.0027575 | 0.497502 | mg/L | 0.0027575 | 0.55% |
| QC value within limits for Pb 220.353 Recovery = 99.50% | | | | | | | | |
| Sb 206.836† | 582.1 | 0.488922 | mg/L | 0.0051331 | 0.488922 | mg/L | 0.0051331 | 1.05% |
| QC value within limits for Sb 206.836 Recovery = 97.78% | | | | | | | | |
| Se 196.026† | 497.0 | 0.484620 | mg/L | 0.0053411 | 0.484620 | mg/L | 0.0053411 | 1.10% |
| QC value within limits for Se 196.026 Recovery = 96.92% | | | | | | | | |
| Sn 189.927† | 2042.2 | 0.496482 | mg/L | 0.0030073 | 0.496482 | mg/L | 0.0030073 | 0.61% |
| QC value within limits for Sn 189.927 Recovery = 99.30% | | | | | | | | |
| Ti 334.940† | 425838.0 | 0.490866 | mg/L | 0.0024687 | 0.490866 | mg/L | 0.0024687 | 0.50% |
| QC value within limits for Ti 334.940 Recovery = 98.17% | | | | | | | | |
| Tl 190.801† | 431.4 | 0.500148 | mg/L | 0.0011886 | 0.500148 | mg/L | 0.0011886 | 0.24% |
| QC value within limits for Tl 190.801 Recovery = 100.03% | | | | | | | | |
| V 290.880† | 80111.4 | 0.492523 | mg/L | 0.0021023 | 0.492523 | mg/L | 0.0021023 | 0.43% |
| QC value within limits for V 290.880 Recovery = 98.50% | | | | | | | | |
| Zn 206.200† | 24754.5 | 0.490670 | mg/L | 0.0019605 | 0.490670 | mg/L | 0.0019605 | 0.40% |
| QC value within limits for Zn 206.200 Recovery = 98.13% | | | | | | | | |
| Si 251.611† | 221081.5 | 4.82328 | mg/L | 0.026764 | 4.82328 | mg/L | 0.026764 | 0.55% |
| QC value within limits for Si 251.611 Recovery = 96.47% | | | | | | | | |
| B 249.772† | 49232.2 | 0.473430 | mg/L | 0.0018073 | 0.473430 | mg/L | 0.0018073 | 0.38% |
| QC value within limits for B 249.772 Recovery = 94.69% | | | | | | | | |
| Ce 413.764 | 27116.0 | 0.508664 | mg/L | 0.0049561 | 0.508664 | mg/L | 0.0049561 | 0.97% |
| QC value within limits for Ce 413.764 Recovery = 101.73% | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/29/2021 10:24:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 803482.5 | 99.2 | % | 0.22 | | | | 0.23% |
| Y 371.029 | 846100.9 | 99.5 | % | 0.17 | | | | 0.17% |
| Ag 328.068† | 17.2 | 0.0005223 | mg/L | 0.00021293 | 0.0005223 | mg/L | 0.00021293 | 40.77% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 88.9 | 0.0130591 | mg/L | 0.00109566 | 0.0130591 | mg/L | 0.00109566 | 8.39% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 5.7 | 0.0075510 | mg/L | 0.00205838 | 0.0075510 | mg/L | 0.00205838 | 27.26% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -28.0 | 0.0012768 | mg/L | 0.00014842 | 0.0012768 | mg/L | 0.00014842 | 11.62% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 274.9 | 0.0037408 | mg/L | 0.00002389 | 0.0037408 | mg/L | 0.00002389 | 0.64% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 184.5 | 0.272901 | mg/L | 0.0002025 | 0.272901 | mg/L | 0.0002025 | 0.07% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 17.3 | 0.0036455 | mg/L | 0.00016575 | 0.0036455 | mg/L | 0.00016575 | 4.55% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 22.1 | 0.0012741 | mg/L | 0.00047191 | 0.0012741 | mg/L | 0.00047191 | 37.04% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 7.8 | 0.0017477 | mg/L | 0.00025405 | 0.0017477 | mg/L | 0.00025405 | 14.54% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -17.1 | 0.0011177 | mg/L | 0.00078610 | 0.0011177 | mg/L | 0.00078610 | 70.33% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -98.1 | 0.0049714 | mg/L | 0.00083212 | 0.0049714 | mg/L | 0.00083212 | 16.74% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 209.1 | 1.03336 | mg/L | 0.688234 | 1.03336 | mg/L | 0.688234 | 66.60% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -60.9 | -0.0006234 | mg/L | 0.00349611 | -0.0006234 | mg/L | 0.00349611 | 560.86% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -36.9 | 0.0012695 | mg/L | 0.00003179 | 0.0012695 | mg/L | 0.00003179 | 2.50% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 9.9 | 0.0026450 | mg/L | 0.00044100 | 0.0026450 | mg/L | 0.00044100 | 16.67% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | -45.8 | 1.02066 | mg/L | 0.030870 | 1.02066 | mg/L | 0.030870 | 3.02% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 40.1 | 0.0020927 | mg/L | 0.00047661 | 0.0020927 | mg/L | 0.00047661 | 22.77% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -4.4 | 0.0007890 | mg/L | 0.00102468 | 0.0007890 | mg/L | 0.00102468 | 129.87% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -4.4 | 0.0007063 | mg/L | 0.00191477 | 0.0007063 | mg/L | 0.00191477 | 271.10% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 3.8 | 0.0049652 | mg/L | 0.00540374 | 0.0049652 | mg/L | 0.00540374 | 108.83% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -4.8 | -0.0011892 | mg/L | 0.00124738 | -0.0011892 | mg/L | 0.00124738 | 104.90% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 139.6 | 0.0036031 | mg/L | 0.00004447 | 0.0036031 | mg/L | 0.00004447 | 1.23% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -2.0 | 0.0008337 | mg/L | 0.00231804 | 0.0008337 | mg/L | 0.00231804 | 278.05% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 18.1 | 0.0037154 | mg/L | 0.00054498 | 0.0037154 | mg/L | 0.00054498 | 14.67% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 0.6 | 0.0030186 | mg/L | 0.00010967 | 0.0030186 | mg/L | 0.00010967 | 3.63% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 52.5 | -0.0920963 | mg/L | 0.00038315 | -0.0920963 | mg/L | 0.00038315 | 0.42% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 711.3 | 0.0128160 | mg/L | 0.00190913 | 0.0128160 | mg/L | 0.00190913 | 14.90% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -97.7 | -0.0218181 | mg/L | 0.00215779 | -0.0218181 | mg/L | 0.00215779 | 9.89% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: LLICV V-352961
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 9/29/2021 10:28:21 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV V-352961

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 792853.6 | 97.9 | % | 0.36 | | | | 0.37% |
| Y 371.029 | 827079.6 | 97.3 | % | 0.40 | | | | 0.41% |
| Ag 328.068† | 3529.9 | 0.0203733 | mg/L | 0.00029608 | 0.0203733 | mg/L | 0.00029608 | 1.45% |
| QC value within limits for Ag 328.068 Recovery = 101.87% | | | | | | | | |
| Al 308.215† | 6508.0 | 0.220935 | mg/L | 0.0017493 | 0.220935 | mg/L | 0.0017493 | 0.79% |
| QC value within limits for Al 308.215 Recovery = 110.47% | | | | | | | | |
| As 188.979† | 57.9 | 0.0459839 | mg/L | 0.00324430 | 0.0459839 | mg/L | 0.00324430 | 7.06% |
| QC value within limits for As 188.979 Recovery = 114.96% | | | | | | | | |
| Ba 233.527† | 4829.0 | 0.0515617 | mg/L | 0.00006720 | 0.0515617 | mg/L | 0.00006720 | 0.13% |
| QC value within limits for Ba 233.527 Recovery = 103.12% | | | | | | | | |
| Be 313.107† | 38565.7 | 0.0153742 | mg/L | 0.00000804 | 0.0153742 | mg/L | 0.00000804 | 0.05% |
| QC value greater than the upper limit for Be 313.107 Recovery = 128.12% | | | | | | | | |
| Ca 315.887† | 698263.0 | 5.33164 | mg/L | 0.000563 | 5.33164 | mg/L | 0.000563 | 0.01% |
| QC value within limits for Ca 315.887 Recovery = 106.63% | | | | | | | | |
| Cd 228.802† | 596.1 | 0.0159531 | mg/L | 0.00013044 | 0.0159531 | mg/L | 0.00013044 | 0.82% |
| QC value greater than the upper limit for Cd 228.802 Recovery = 132.94% | | | | | | | | |
| Co 228.616† | 689.9 | 0.0222490 | mg/L | 0.00055354 | 0.0222490 | mg/L | 0.00055354 | 2.49% |
| QC value within limits for Co 228.616 Recovery = 111.25% | | | | | | | | |
| Cr 267.716† | 5930.7 | 0.0520079 | mg/L | 0.00020701 | 0.0520079 | mg/L | 0.00020701 | 0.40% |
| QC value within limits for Cr 267.716 Recovery = 104.02% | | | | | | | | |
| Cu 327.393† | 6006.3 | 0.0526010 | mg/L | 0.00027591 | 0.0526010 | mg/L | 0.00027591 | 0.52% |
| QC value within limits for Cu 327.393 Recovery = 105.20% | | | | | | | | |
| Fe 273.955† | 9345.0 | 0.319208 | mg/L | 0.0010635 | 0.319208 | mg/L | 0.0010635 | 0.33% |
| QC value within limits for Fe 273.955 Recovery = 106.40% | | | | | | | | |
| K 404.721† | 1036.4 | 7.08093 | mg/L | 0.287396 | 7.08093 | mg/L | 0.287396 | 4.06% |
| QC value greater than the upper limit for K 404.721 Recovery = 141.62% | | | | | | | | |
| Mg 279.077† | 134499.1 | 5.33926 | mg/L | 0.000951 | 5.33926 | mg/L | 0.000951 | 0.02% |
| QC value within limits for Mg 279.077 Recovery = 106.79% | | | | | | | | |
| Mn 257.610† | 33908.1 | 0.0420157 | mg/L | 0.00008181 | 0.0420157 | mg/L | 0.00008181 | 0.19% |
| QC value within limits for Mn 257.610 Recovery = 105.04% | | | | | | | | |
| Mo 202.031† | 266.5 | 0.0223953 | mg/L | 0.00025549 | 0.0223953 | mg/L | 0.00025549 | 1.14% |
| QC value within limits for Mo 202.031 Recovery = 111.98% | | | | | | | | |
| Na 330.237† | 6048.0 | 5.28354 | mg/L | 0.014882 | 5.28354 | mg/L | 0.014882 | 0.28% |
| QC value within limits for Na 330.237 Recovery = 105.67% | | | | | | | | |
| Ni 231.604† | 1751.3 | 0.0538860 | mg/L | 0.00033430 | 0.0538860 | mg/L | 0.00033430 | 0.62% |
| QC value within limits for Ni 231.604 Recovery = 107.77% | | | | | | | | |
| Pb 220.353† | 196.8 | 0.0514156 | mg/L | 0.00204681 | 0.0514156 | mg/L | 0.00204681 | 3.98% |
| QC value within limits for Pb 220.353 Recovery = 102.83% | | | | | | | | |
| Sb 206.836† | 55.9 | 0.0506204 | mg/L | 0.00236383 | 0.0506204 | mg/L | 0.00236383 | 4.67% |
| QC value within limits for Sb 206.836 Recovery = 101.24% | | | | | | | | |
| Se 196.026† | 63.3 | 0.0629124 | mg/L | 0.00384144 | 0.0629124 | mg/L | 0.00384144 | 6.11% |
| QC value greater than the upper limit for Se 196.026 Recovery = 125.82% | | | | | | | | |
| Sn 189.927† | 202.4 | 0.0491946 | mg/L | 0.00042136 | 0.0491946 | mg/L | 0.00042136 | 0.86% |
| QC value within limits for Sn 189.927 Recovery = 98.39% | | | | | | | | |
| Ti 334.940† | 42977.1 | 0.0526358 | mg/L | 0.00007615 | 0.0526358 | mg/L | 0.00007615 | 0.14% |
| QC value within limits for Ti 334.940 Recovery = 105.27% | | | | | | | | |
| Tl 190.801† | 43.5 | 0.0537730 | mg/L | 0.00065605 | 0.0537730 | mg/L | 0.00065605 | 1.22% |
| QC value within limits for Tl 190.801 Recovery = 107.55% | | | | | | | | |
| V 290.880† | 7875.7 | 0.0516706 | mg/L | 0.00023578 | 0.0516706 | mg/L | 0.00023578 | 0.46% |
| QC value within limits for V 290.880 Recovery = 103.34% | | | | | | | | |
| Zn 206.200† | 2459.2 | 0.0514531 | mg/L | 0.00019997 | 0.0514531 | mg/L | 0.00019997 | 0.39% |
| QC value within limits for Zn 206.200 Recovery = 102.91% | | | | | | | | |
| Si 251.611† | 20305.4 | 0.358236 | mg/L | 0.0016575 | 0.358236 | mg/L | 0.0016575 | 0.46% |
| QC value greater than the upper limit for Si 251.611 Recovery = 179.12% | | | | | | | | |
| B 249.772† | 19344.5 | 0.195809 | mg/L | 0.0024080 | 0.195809 | mg/L | 0.0024080 | 1.23% |
| QC value within limits for B 249.772 Recovery = 97.90% | | | | | | | | |
| Ce 413.764 | 11754.8 | 0.209224 | mg/L | 0.0015938 | 0.209224 | mg/L | 0.0015938 | 0.76% |
| QC value within limits for Ce 413.764 Recovery = 104.61% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 8
Sample ID: LRS V-352964
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 9/29/2021 10:32:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LRS V-352964

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 682748.4 | 84.3 | % | 1.34 | | | | 1.58% |
| Y 371.029 | 659661.7 | 77.6 | % | 1.29 | | | | 1.66% |
| Ag 328.068† | 181798.7 | 1.04557 | mg/L | 0.020579 | 1.04557 | mg/L | 0.020579 | 1.97% |
| QC value within limits for Ag 328.068 Recovery = 104.56% | | | | | | | | |
| Al 308.215† | 14635000.5 | 473.949 | mg/L | 9.0625 | 473.949 | mg/L | 9.0625 | 1.91% |
| QC value within limits for Al 308.215 Recovery = 94.79% | | | | | | | | |
| As 188.979† | 14085.7 | 10.3360 | mg/L | 0.19359 | 10.3360 | mg/L | 0.19359 | 1.87% |
| QC value within limits for As 188.979 Recovery = 103.36% | | | | | | | | |
| Ba 233.527† | 975559.9 | 10.1014 | mg/L | 0.20091 | 10.1014 | mg/L | 0.20091 | 1.99% |
| QC value within limits for Ba 233.527 Recovery = 101.01% | | | | | | | | |
| Be 313.107† | 15699596.4 | 4.77343 | mg/L | 0.096382 | 4.77343 | mg/L | 0.096382 | 2.02% |
| QC value within limits for Be 313.107 Recovery = 95.47% | | | | | | | | |
| Ca 315.887† | 65584311.2 | 475.539 | mg/L | 9.5342 | 475.539 | mg/L | 9.5342 | 2.00% |
| QC value within limits for Ca 315.887 Recovery = 95.11% | | | | | | | | |
| Cd 228.802† | 257254.4 | 5.35613 | mg/L | 0.101592 | 5.35613 | mg/L | 0.101592 | 1.90% |
| QC value within limits for Cd 228.802 Recovery = 107.12% | | | | | | | | |
| Co 228.616† | 155851.3 | 4.89516 | mg/L | 0.093545 | 4.89516 | mg/L | 0.093545 | 1.91% |
| QC value within limits for Co 228.616 Recovery = 97.90% | | | | | | | | |
| Cr 267.716† | 1143942.2 | 9.70872 | mg/L | 0.189779 | 9.70872 | mg/L | 0.189779 | 1.95% |
| QC value within limits for Cr 267.716 Recovery = 97.09% | | | | | | | | |
| Cu 327.393† | 1199372.0 | 10.2529 | mg/L | 0.19960 | 10.2529 | mg/L | 0.19960 | 1.95% |
| QC value within limits for Cu 327.393 Recovery = 102.53% | | | | | | | | |
| Fe 273.955† | 5753845.0 | 191.477 | mg/L | 3.7583 | 191.477 | mg/L | 3.7583 | 1.96% |
| QC value within limits for Fe 273.955 Recovery = 95.74% | | | | | | | | |
| K 404.721† | 66406.0 | 484.949 | mg/L | 10.6229 | 484.949 | mg/L | 10.6229 | 2.19% |
| QC value greater than the upper limit for K 404.721 Recovery = 242.47% | | | | | | | | |
| Mg 279.077† | 12170754.9 | 482.986 | mg/L | 9.8263 | 482.986 | mg/L | 9.8263 | 2.03% |
| QC value within limits for Mg 279.077 Recovery = 96.60% | | | | | | | | |
| Mn 257.610† | 8068846.6 | 9.68682 | mg/L | 0.193604 | 9.68682 | mg/L | 0.193604 | 2.00% |
| QC value within limits for Mn 257.610 Recovery = 96.87% | | | | | | | | |
| Mo 202.031† | 126662.5 | 9.77826 | mg/L | 0.188963 | 9.77826 | mg/L | 0.188963 | 1.93% |
| QC value within limits for Mo 202.031 Recovery = 97.78% | | | | | | | | |
| Na 330.237† | 1653569.0 | 1157.80 | mg/L | 23.334 | 1157.80 | mg/L | 23.334 | 2.02% |
| QC value greater than the upper limit for Na 330.237 Recovery = 115.78% | | | | | | | | |
| Ni 231.604† | 315565.7 | 9.55190 | mg/L | 0.178625 | 9.55190 | mg/L | 0.178625 | 1.87% |
| QC value within limits for Ni 231.604 Recovery = 95.52% | | | | | | | | |
| Pb 220.353† | 38879.5 | 9.96781 | mg/L | 0.170007 | 9.96781 | mg/L | 0.170007 | 1.71% |
| QC value within limits for Pb 220.353 Recovery = 99.68% | | | | | | | | |
| Sb 206.836† | 6011.5 | 5.18515 | mg/L | 0.074705 | 5.18515 | mg/L | 0.074705 | 1.44% |
| QC value within limits for Sb 206.836 Recovery = 103.70% | | | | | | | | |
| Se 196.026† | 5241.9 | 5.04212 | mg/L | 0.077775 | 5.04212 | mg/L | 0.077775 | 1.54% |
| QC value within limits for Se 196.026 Recovery = 100.84% | | | | | | | | |
| Sn 189.927† | 40546.4 | 9.85764 | mg/L | 0.157542 | 9.85764 | mg/L | 0.157542 | 1.60% |
| QC value within limits for Sn 189.927 Recovery = 98.58% | | | | | | | | |
| Ti 334.940† | 8654963.8 | 9.91008 | mg/L | 0.206786 | 9.91008 | mg/L | 0.206786 | 2.09% |
| QC value within limits for Ti 334.940 Recovery = 99.10% | | | | | | | | |
| Tl 190.801† | 4117.0 | 4.82866 | mg/L | 0.088239 | 4.82866 | mg/L | 0.088239 | 1.83% |
| QC value within limits for Tl 190.801 Recovery = 96.57% | | | | | | | | |
| V 290.880† | 1635107.0 | 9.98262 | mg/L | 0.203593 | 9.98262 | mg/L | 0.203593 | 2.04% |
| QC value within limits for V 290.880 Recovery = 99.83% | | | | | | | | |
| Zn 206.200† | 495766.6 | 9.76960 | mg/L | 0.176628 | 9.76960 | mg/L | 0.176628 | 1.81% |
| QC value within limits for Zn 206.200 Recovery = 97.70% | | | | | | | | |
| Si 251.611† | 1053212.9 | 23.4044 | mg/L | 0.42908 | 23.4044 | mg/L | 0.42908 | 1.83% |
| QC value within limits for Si 251.611 Recovery = 93.62% | | | | | | | | |
| B 249.772† | 513982.2 | 4.35022 | mg/L | 0.083809 | 4.35022 | mg/L | 0.083809 | 1.93% |
| QC value less than the lower limit for B 249.772 Recovery = 87.00% | | | | | | | | |
| Ce 413.764 | 1041987.0 | 20.2917 | mg/L | 0.09635 | 20.2917 | mg/L | 0.09635 | 0.47% |
| QC value less than the lower limit for Ce 413.764 Recovery = 81.17% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 9
Sample ID: ICS3 V-352955
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 9/29/2021 10:38:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-352955

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 766073.3 | 94.6 | % | 0.21 | | | | 0.22% |
| Y 371.029 | 788326.8 | 92.7 | % | 0.21 | | | | 0.22% |
| Ag 328.068† | 17745.5 | 0.100462 | mg/L | 0.0005674 | 0.100462 | mg/L | 0.0005674 | 0.56% |
| QC value within limits for Ag 328.068 Recovery = 100.46% | | | | | | | | |
| Al 308.215† | 154929.5 | 5.02740 | mg/L | 0.034247 | 5.02740 | mg/L | 0.034247 | 0.68% |
| QC value within limits for Al 308.215 Recovery = 100.55% | | | | | | | | |
| As 188.979† | 679.0 | 0.502653 | mg/L | 0.0025251 | 0.502653 | mg/L | 0.0025251 | 0.50% |
| QC value within limits for As 188.979 Recovery = 100.53% | | | | | | | | |
| Ba 233.527† | 48072.4 | 0.499257 | mg/L | 0.0035996 | 0.499257 | mg/L | 0.0035996 | 0.72% |
| QC value within limits for Ba 233.527 Recovery = 99.85% | | | | | | | | |
| Be 313.107† | 1604572.8 | 0.491151 | mg/L | 0.0002251 | 0.491151 | mg/L | 0.0002251 | 0.05% |
| QC value within limits for Be 313.107 Recovery = 98.23% | | | | | | | | |
| Ca 315.887† | 6778235.8 | 49.3911 | mg/L | 0.01827 | 49.3911 | mg/L | 0.01827 | 0.04% |
| QC value within limits for Ca 315.887 Recovery = 98.78% | | | | | | | | |
| Cd 228.802† | 24396.8 | 0.503807 | mg/L | 0.0027213 | 0.503807 | mg/L | 0.0027213 | 0.54% |
| QC value within limits for Cd 228.802 Recovery = 100.76% | | | | | | | | |
| Co 228.616† | 16002.6 | 0.502957 | mg/L | 0.0024700 | 0.502957 | mg/L | 0.0024700 | 0.49% |
| QC value within limits for Co 228.616 Recovery = 100.59% | | | | | | | | |
| Cr 267.716† | 59125.2 | 0.503395 | mg/L | 0.0035954 | 0.503395 | mg/L | 0.0035954 | 0.71% |
| QC value within limits for Cr 267.716 Recovery = 100.68% | | | | | | | | |
| Cu 327.393† | 58671.5 | 0.502764 | mg/L | 0.0039821 | 0.502764 | mg/L | 0.0039821 | 0.79% |
| QC value within limits for Cu 327.393 Recovery = 100.55% | | | | | | | | |
| Fe 273.955† | 151062.3 | 5.03508 | mg/L | 0.033501 | 5.03508 | mg/L | 0.033501 | 0.67% |
| QC value within limits for Fe 273.955 Recovery = 100.70% | | | | | | | | |
| K 404.721† | 6752.1 | 48.8644 | mg/L | 1.27724 | 48.8644 | mg/L | 1.27724 | 2.61% |
| QC value within limits for K 404.721 Recovery = 97.73% | | | | | | | | |
| Mg 279.077† | 1261295.0 | 50.0550 | mg/L | 0.06094 | 50.0550 | mg/L | 0.06094 | 0.12% |
| QC value within limits for Mg 279.077 Recovery = 100.11% | | | | | | | | |
| Mn 257.610† | 416448.7 | 0.501201 | mg/L | 0.0035340 | 0.501201 | mg/L | 0.0035340 | 0.71% |
| QC value within limits for Mn 257.610 Recovery = 100.24% | | | | | | | | |
| Mo 202.031† | 6499.5 | 0.502055 | mg/L | 0.0014809 | 0.502055 | mg/L | 0.0014809 | 0.29% |
| QC value within limits for Mo 202.031 Recovery = 100.41% | | | | | | | | |
| Na 330.237† | 67494.8 | 48.2685 | mg/L | 0.30587 | 48.2685 | mg/L | 0.30587 | 0.63% |
| QC value within limits for Na 330.237 Recovery = 96.54% | | | | | | | | |
| Ni 231.604† | 16567.1 | 0.502306 | mg/L | 0.0029394 | 0.502306 | mg/L | 0.0029394 | 0.59% |
| QC value within limits for Ni 231.604 Recovery = 100.46% | | | | | | | | |
| Pb 220.353† | 2007.2 | 0.508163 | mg/L | 0.0037387 | 0.508163 | mg/L | 0.0037387 | 0.74% |
| QC value within limits for Pb 220.353 Recovery = 101.63% | | | | | | | | |
| Sb 206.836† | 590.9 | 0.496217 | mg/L | 0.0026701 | 0.496217 | mg/L | 0.0026701 | 0.54% |
| QC value within limits for Sb 206.836 Recovery = 99.24% | | | | | | | | |
| Se 196.026† | 507.9 | 0.495160 | mg/L | 0.0016013 | 0.495160 | mg/L | 0.0016013 | 0.32% |
| QC value within limits for Se 196.026 Recovery = 99.03% | | | | | | | | |
| Sn 189.927† | 2108.1 | 0.512493 | mg/L | 0.0051063 | 0.512493 | mg/L | 0.0051063 | 1.00% |
| QC value within limits for Sn 189.927 Recovery = 102.50% | | | | | | | | |
| Ti 334.940† | 429477.8 | 0.495032 | mg/L | 0.0031741 | 0.495032 | mg/L | 0.0031741 | 0.64% |
| QC value within limits for Ti 334.940 Recovery = 99.01% | | | | | | | | |
| Tl 190.801† | 442.7 | 0.513149 | mg/L | 0.0073494 | 0.513149 | mg/L | 0.0073494 | 1.43% |
| QC value within limits for Tl 190.801 Recovery = 102.63% | | | | | | | | |
| V 290.880† | 80995.0 | 0.497916 | mg/L | 0.0038848 | 0.497916 | mg/L | 0.0038848 | 0.78% |
| QC value within limits for V 290.880 Recovery = 99.58% | | | | | | | | |
| Zn 206.200† | 25204.0 | 0.499524 | mg/L | 0.0033823 | 0.499524 | mg/L | 0.0033823 | 0.68% |
| QC value within limits for Zn 206.200 Recovery = 99.90% | | | | | | | | |
| Si 251.611† | 227394.1 | 4.96364 | mg/L | 0.036962 | 4.96364 | mg/L | 0.036962 | 0.74% |
| QC value within limits for Si 251.611 Recovery = 99.27% | | | | | | | | |
| B 249.772† | 54372.9 | 0.523947 | mg/L | 0.0067907 | 0.523947 | mg/L | 0.0067907 | 1.30% |
| QC value within limits for B 249.772 Recovery = 104.79% | | | | | | | | |
| Ce 413.764 | 27486.0 | 0.515877 | mg/L | 0.0026435 | 0.515877 | mg/L | 0.0026435 | 0.51% |
| QC value within limits for Ce 413.764 Recovery = 103.18% | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: RINSE
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 9/29/2021 10:42:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: RINSE

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 807383.3 | 99.7 | % | 0.60 | | | | 0.60% |
| Y 371.029 | 849682.3 | 100.0 | % | 0.77 | | | | 0.77% |
| Ag 328.068† | 95.9 | 0.0009651 | mg/L | 0.00018196 | 0.0009651 | mg/L | 0.00018196 | 18.85% |
| Al 308.215† | 182.6 | 0.0160926 | mg/L | 0.00136443 | 0.0160926 | mg/L | 0.00136443 | 8.48% |
| As 188.979† | 9.3 | 0.0102173 | mg/L | 0.00162501 | 0.0102173 | mg/L | 0.00162501 | 15.90% |
| Ba 233.527† | -69.4 | 0.0008492 | mg/L | 0.00013929 | 0.0008492 | mg/L | 0.00013929 | 16.40% |
| Be 313.107† | 511.7 | 0.0038128 | mg/L | 0.00002851 | 0.0038128 | mg/L | 0.00002851 | 0.75% |
| Ca 315.887† | -273.2 | 0.269584 | mg/L | 0.0007937 | 0.269584 | mg/L | 0.0007937 | 0.29% |
| Cd 228.802† | 25.6 | 0.0038187 | mg/L | 0.00018707 | 0.0038187 | mg/L | 0.00018707 | 4.90% |
| Co 228.616† | 20.6 | 0.0012250 | mg/L | 0.00094770 | 0.0012250 | mg/L | 0.00094770 | 77.36% |
| Cr 267.716† | -15.2 | 0.0015531 | mg/L | 0.00063041 | 0.0015531 | mg/L | 0.00063041 | 40.59% |
| Cu 327.393† | 38.8 | 0.0015956 | mg/L | 0.00014845 | 0.0015956 | mg/L | 0.00014845 | 9.30% |
| Fe 273.955† | -161.7 | 0.0028543 | mg/L | 0.00092913 | 0.0028543 | mg/L | 0.00092913 | 32.55% |
| K 404.721† | 328.0 | 1.90260 | mg/L | 1.004569 | 1.90260 | mg/L | 1.004569 | 52.80% |
| Mg 279.077† | -139.0 | -0.0037233 | mg/L | 0.00264695 | -0.0037233 | mg/L | 0.00264695 | 71.09% |
| Mn 257.610† | -12.1 | 0.0012993 | mg/L | 0.00007298 | 0.0012993 | mg/L | 0.00007298 | 5.62% |
| Mo 202.031† | 14.7 | 0.0030139 | mg/L | 0.00030309 | 0.0030139 | mg/L | 0.00030309 | 10.06% |
| Na 330.237† | 65.2 | 1.09833 | mg/L | 0.035240 | 1.09833 | mg/L | 0.035240 | 3.21% |
| Ni 231.604† | 56.1 | 0.0025785 | mg/L | 0.00028548 | 0.0025785 | mg/L | 0.00028548 | 11.07% |
| Pb 220.353† | 3.9 | 0.0028569 | mg/L | 0.00038994 | 0.0028569 | mg/L | 0.00038994 | 13.65% |
| Sb 206.836† | -5.4 | -0.0000600 | mg/L | 0.00189281 | -0.0000600 | mg/L | 0.00189281 | >999.9% |
| Se 196.026† | 2.9 | 0.0041123 | mg/L | 0.00811429 | 0.0041123 | mg/L | 0.00811429 | 197.32% |
| Sn 189.927† | 5.3 | 0.0012714 | mg/L | 0.00193863 | 0.0012714 | mg/L | 0.00193863 | 152.48% |
| Ti 334.940† | 138.9 | 0.0036023 | mg/L | 0.00003963 | 0.0036023 | mg/L | 0.00003963 | 1.10% |
| Tl 190.801† | 0.5 | 0.0037314 | mg/L | 0.00114424 | 0.0037314 | mg/L | 0.00114424 | 30.66% |
| V 290.880† | 23.1 | 0.0037460 | mg/L | 0.00064165 | 0.0037460 | mg/L | 0.00064165 | 17.13% |
| Zn 206.200† | 68.7 | 0.0043602 | mg/L | 0.00009541 | 0.0043602 | mg/L | 0.00009541 | 2.19% |
| Si 251.611† | 13.7 | -0.0929598 | mg/L | 0.00037163 | -0.0929598 | mg/L | 0.00037163 | 0.40% |
| B 249.772† | 1991.3 | 0.0254778 | mg/L | 0.00367140 | 0.0254778 | mg/L | 0.00367140 | 14.41% |
| Ce 413.764 | 75.9 | -0.0184344 | mg/L | 0.00272719 | -0.0184344 | mg/L | 0.00272719 | 14.79% |

Sequence No.: 11
Sample ID: ICSA V-352957
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 9/29/2021 10:46:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-352957

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 673342.2 | 83.1 | % | 0.53 | | | | 0.63% |
| Y 371.029 | 687365.9 | 80.9 | % | 0.45 | | | | 0.55% |
| Ag 328.068† | -3539.6 | -0.0068673 | mg/L | 0.00036353 | -0.0068673 | mg/L | 0.00036353 | 5.29% |
| Al 308.215† | 14982912.5 | 485.215 | mg/L | 6.1471 | 485.215 | mg/L | 6.1471 | 1.27% |
| QC value within limits for Al 308.215 Recovery = 97.04% | | | | | | | | |
| As 188.979† | 43.2 | 0.0014930 | mg/L | 0.00463947 | 0.0014930 | mg/L | 0.00463947 | 310.74% |
| Ba 233.527† | -271.3 | -0.0012411 | mg/L | 0.00010662 | -0.0012411 | mg/L | 0.00010662 | 8.59% |
| Be 313.107† | -2790.2 | 0.0028096 | mg/L | 0.00005577 | 0.0028096 | mg/L | 0.00005577 | 1.98% |
| Ca 315.887† | 67106909.1 | 486.572 | mg/L | 5.9701 | 486.572 | mg/L | 5.9701 | 1.23% |
| QC value within limits for Ca 315.887 Recovery = 97.31% | | | | | | | | |
| Cd 228.802† | -1820.6 | 0.0131343 | mg/L | 0.00033031 | 0.0131343 | mg/L | 0.00033031 | 2.51% |
| Co 228.616† | 161.5 | 0.0056282 | mg/L | 0.00050497 | 0.0056282 | mg/L | 0.00050497 | 8.97% |
| Cr 267.716† | -1606.5 | -0.0119499 | mg/L | 0.00026018 | -0.0119499 | mg/L | 0.00026018 | 2.18% |
| Cu 327.393† | -4531.9 | -0.0372862 | mg/L | 0.00152296 | -0.0372862 | mg/L | 0.00152296 | 4.08% |
| Fe 273.955† | 5715517.2 | 190.201 | mg/L | 0.1241 | 190.201 | mg/L | 0.1241 | 0.07% |
| QC value within limits for Fe 273.955 Recovery = 95.10% | | | | | | | | |
| K 404.721† | -129.9 | -1.44493 | mg/L | 1.040032 | -1.44493 | mg/L | 1.040032 | 71.98% |
| Mg 279.077† | 12354112.9 | 490.263 | mg/L | 5.7319 | 490.263 | mg/L | 5.7319 | 1.17% |
| QC value within limits for Mg 279.077 Recovery = 98.05% | | | | | | | | |
| Mn 257.610† | 1325.4 | 0.0029047 | mg/L | 0.00005410 | 0.0029047 | mg/L | 0.00005410 | 1.86% |
| Mo 202.031† | 262.9 | 0.0596092 | mg/L | 0.00061697 | 0.0596092 | mg/L | 0.00061697 | 1.04% |
| Na 330.237† | -1199.2 | 0.213789 | mg/L | 0.0874477 | 0.213789 | mg/L | 0.0874477 | 40.90% |
| Ni 231.604† | 542.3 | 0.0172937 | mg/L | 0.00071838 | 0.0172937 | mg/L | 0.00071838 | 4.15% |
| Pb 220.353† | -446.7 | 0.133898 | mg/L | 0.0038507 | 0.133898 | mg/L | 0.0038507 | 2.88% |
| Sb 206.836† | -395.7 | -0.158590 | mg/L | 0.0084738 | -0.158590 | mg/L | 0.0084738 | 5.34% |
| Se 196.026† | -110.5 | -0.169647 | mg/L | 0.0032302 | -0.169647 | mg/L | 0.0032302 | 1.90% |
| Sn 189.927† | -134.5 | -0.0327227 | mg/L | 0.00025022 | -0.0327227 | mg/L | 0.00025022 | 0.76% |
| Ti 334.940† | 4533.5 | 0.0086324 | mg/L | 0.00011864 | 0.0086324 | mg/L | 0.00011864 | 1.37% |
| Tl 190.801† | -13.3 | 0.0611263 | mg/L | 0.00871226 | 0.0611263 | mg/L | 0.00871226 | 14.25% |
| V 290.880† | -996.5 | -0.0024761 | mg/L | 0.00026914 | -0.0024761 | mg/L | 0.00026914 | 10.87% |
| Zn 206.200† | 450.8 | 0.0118881 | mg/L | 0.00011477 | 0.0118881 | mg/L | 0.00011477 | 0.97% |
| Si 251.611† | 1519.7 | 0.0262117 | mg/L | 0.00075796 | 0.0262117 | mg/L | 0.00075796 | 2.89% |
| B 249.772† | 83830.4 | 0.102775 | mg/L | 0.0164703 | 0.102775 | mg/L | 0.0164703 | 16.03% |
| Ce 413.764 | -295.8 | -0.0256797 | mg/L | 0.00118913 | -0.0256797 | mg/L | 0.00118913 | 4.63% |

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 10:52:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 749341.5 | 92.5 | % | 0.46 | | | | 0.50% |
| Y 371.029 | 771450.2 | 90.8 | % | 0.48 | | | | 0.53% |
| Ag 328.068† | 17427.9 | 0.0986764 | mg/L | 0.00063524 | 0.0986764 | mg/L | 0.00063524 | 0.64% |
| QC value within limits for Ag 328.068 Recovery = 98.68% | | | | | | | | |
| Al 308.215† | 154803.4 | 5.02332 | mg/L | 0.024570 | 5.02332 | mg/L | 0.024570 | 0.49% |
| QC value within limits for Al 308.215 Recovery = 100.47% | | | | | | | | |
| As 188.979† | 676.7 | 0.501023 | mg/L | 0.0029494 | 0.501023 | mg/L | 0.0029494 | 0.59% |
| QC value within limits for As 188.979 Recovery = 100.20% | | | | | | | | |
| Ba 233.527† | 47962.0 | 0.498113 | mg/L | 0.0023105 | 0.498113 | mg/L | 0.0023105 | 0.46% |
| QC value within limits for Ba 233.527 Recovery = 99.62% | | | | | | | | |
| Be 313.107† | 1611015.8 | 0.493108 | mg/L | 0.0014708 | 0.493108 | mg/L | 0.0014708 | 0.30% |
| QC value within limits for Be 313.107 Recovery = 98.62% | | | | | | | | |
| Ca 315.887† | 6797902.8 | 49.5336 | mg/L | 0.16029 | 49.5336 | mg/L | 0.16029 | 0.32% |
| QC value within limits for Ca 315.887 Recovery = 99.07% | | | | | | | | |
| Cd 228.802† | 24345.8 | 0.502764 | mg/L | 0.0020018 | 0.502764 | mg/L | 0.0020018 | 0.40% |
| QC value within limits for Cd 228.802 Recovery = 100.55% | | | | | | | | |
| Co 228.616† | 15933.0 | 0.500771 | mg/L | 0.0017175 | 0.500771 | mg/L | 0.0017175 | 0.34% |
| QC value within limits for Co 228.616 Recovery = 100.15% | | | | | | | | |
| Cr 267.716† | 58812.3 | 0.500740 | mg/L | 0.0033906 | 0.500740 | mg/L | 0.0033906 | 0.68% |
| QC value within limits for Cr 267.716 Recovery = 100.15% | | | | | | | | |
| Cu 327.393† | 58278.0 | 0.499403 | mg/L | 0.0025526 | 0.499403 | mg/L | 0.0025526 | 0.51% |
| QC value within limits for Cu 327.393 Recovery = 99.88% | | | | | | | | |
| Fe 273.955† | 150295.4 | 5.00956 | mg/L | 0.031170 | 5.00956 | mg/L | 0.031170 | 0.62% |
| QC value within limits for Fe 273.955 Recovery = 100.19% | | | | | | | | |
| K 404.721† | 6814.7 | 49.3214 | mg/L | 1.19561 | 49.3214 | mg/L | 1.19561 | 2.42% |
| QC value within limits for K 404.721 Recovery = 98.64% | | | | | | | | |
| Mg 279.077† | 1260126.2 | 50.0087 | mg/L | 0.12805 | 50.0087 | mg/L | 0.12805 | 0.26% |
| QC value within limits for Mg 279.077 Recovery = 100.02% | | | | | | | | |
| Mn 257.610† | 415197.1 | 0.499699 | mg/L | 0.0029228 | 0.499699 | mg/L | 0.0029228 | 0.58% |
| QC value within limits for Mn 257.610 Recovery = 99.94% | | | | | | | | |
| Mo 202.031† | 6506.8 | 0.502616 | mg/L | 0.0013442 | 0.502616 | mg/L | 0.0013442 | 0.27% |
| QC value within limits for Mo 202.031 Recovery = 100.52% | | | | | | | | |
| Na 330.237† | 66757.1 | 47.7524 | mg/L | 0.21955 | 47.7524 | mg/L | 0.21955 | 0.46% |
| QC value within limits for Na 330.237 Recovery = 95.50% | | | | | | | | |
| Ni 231.604† | 16559.9 | 0.502086 | mg/L | 0.0021825 | 0.502086 | mg/L | 0.0021825 | 0.43% |
| QC value within limits for Ni 231.604 Recovery = 100.42% | | | | | | | | |
| Pb 220.353† | 1987.6 | 0.503252 | mg/L | 0.0041387 | 0.503252 | mg/L | 0.0041387 | 0.82% |
| QC value within limits for Pb 220.353 Recovery = 100.65% | | | | | | | | |
| Sb 206.836† | 582.1 | 0.488971 | mg/L | 0.0025086 | 0.488971 | mg/L | 0.0025086 | 0.51% |
| QC value within limits for Sb 206.836 Recovery = 97.79% | | | | | | | | |
| Se 196.026† | 503.2 | 0.490576 | mg/L | 0.0105182 | 0.490576 | mg/L | 0.0105182 | 2.14% |
| QC value within limits for Se 196.026 Recovery = 98.12% | | | | | | | | |
| Sn 189.927† | 2064.9 | 0.502006 | mg/L | 0.0011545 | 0.502006 | mg/L | 0.0011545 | 0.23% |
| QC value within limits for Sn 189.927 Recovery = 100.40% | | | | | | | | |
| Ti 334.940† | 429253.9 | 0.494776 | mg/L | 0.0025318 | 0.494776 | mg/L | 0.0025318 | 0.51% |
| QC value within limits for Ti 334.940 Recovery = 98.96% | | | | | | | | |
| Tl 190.801† | 437.1 | 0.506738 | mg/L | 0.0040421 | 0.506738 | mg/L | 0.0040421 | 0.80% |
| QC value within limits for Tl 190.801 Recovery = 101.35% | | | | | | | | |
| V 290.880† | 80852.6 | 0.497047 | mg/L | 0.0026579 | 0.497047 | mg/L | 0.0026579 | 0.53% |
| QC value within limits for V 290.880 Recovery = 99.41% | | | | | | | | |
| Zn 206.200† | 24949.7 | 0.494516 | mg/L | 0.0015032 | 0.494516 | mg/L | 0.0015032 | 0.30% |
| QC value within limits for Zn 206.200 Recovery = 98.90% | | | | | | | | |
| Si 251.611† | 223322.7 | 4.87312 | mg/L | 0.028300 | 4.87312 | mg/L | 0.028300 | 0.58% |
| QC value within limits for Si 251.611 Recovery = 97.46% | | | | | | | | |
| B 249.772† | 47712.7 | 0.458204 | mg/L | 0.0081337 | 0.458204 | mg/L | 0.0081337 | 1.78% |
| QC value within limits for B 249.772 Recovery = 91.64% | | | | | | | | |
| Ce 413.764 | 26969.7 | 0.505811 | mg/L | 0.0033001 | 0.505811 | mg/L | 0.0033001 | 0.65% |
| QC value within limits for Ce 413.764 Recovery = 101.16% | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 10:56:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 774687.1 | 95.6 | % | 5.07 | | | | 5.31% |
| Y 371.029 | 817457.2 | 96.2 | % | 5.04 | | | | 5.24% |
| Ag 328.068† | 123.2 | 0.0011168 | mg/L | 0.00006562 | 0.0011168 | mg/L | 0.00006562 | 5.88% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 591.3 | 0.0293294 | mg/L | 0.02043625 | 0.0293294 | mg/L | 0.02043625 | 69.68% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 10.2 | 0.0108410 | mg/L | 0.00404042 | 0.0108410 | mg/L | 0.00404042 | 37.27% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -116.9 | 0.0003572 | mg/L | 0.00079626 | 0.0003572 | mg/L | 0.00079626 | 222.91% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 626.6 | 0.0038477 | mg/L | 0.00006462 | 0.0038477 | mg/L | 0.00006462 | 1.68% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 876.7 | 0.277917 | mg/L | 0.0017000 | 0.277917 | mg/L | 0.0017000 | 0.61% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 23.9 | 0.0038012 | mg/L | 0.00023243 | 0.0038012 | mg/L | 0.00023243 | 6.11% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 24.4 | 0.0013430 | mg/L | 0.00035482 | 0.0013430 | mg/L | 0.00035482 | 26.42% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -77.0 | 0.0010285 | mg/L | 0.00039876 | 0.0010285 | mg/L | 0.00039876 | 38.77% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -143.7 | 0.0000358 | mg/L | 0.00350043 | 0.0000358 | mg/L | 0.00350043 | >999.9% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -157.1 | 0.0030085 | mg/L | 0.00120355 | 0.0030085 | mg/L | 0.00120355 | 40.01% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 409.2 | 2.49575 | mg/L | 3.644538 | 2.49575 | mg/L | 3.644538 | 146.03% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -231.3 | -0.0073857 | mg/L | 0.00535342 | -0.0073857 | mg/L | 0.00535342 | 72.48% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 12.1 | 0.0013283 | mg/L | 0.00008785 | 0.0013283 | mg/L | 0.00008785 | 6.61% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 24.4 | 0.0037631 | mg/L | 0.00082401 | 0.0037631 | mg/L | 0.00082401 | 21.90% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | -51.9 | 1.01640 | mg/L | 0.156769 | 1.01640 | mg/L | 0.156769 | 15.42% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 116.3 | 0.0043997 | mg/L | 0.00207664 | 0.0043997 | mg/L | 0.00207664 | 47.20% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -17.3 | -0.0024315 | mg/L | 0.00604942 | -0.0024315 | mg/L | 0.00604942 | 248.80% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -21.1 | -0.0129742 | mg/L | 0.01399397 | -0.0129742 | mg/L | 0.01399397 | 107.86% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -0.4 | 0.0009022 | mg/L | 0.00396143 | 0.0009022 | mg/L | 0.00396143 | 439.08% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -1.2 | -0.0003187 | mg/L | 0.00036433 | -0.0003187 | mg/L | 0.00036433 | 114.30% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 197.4 | 0.0036693 | mg/L | 0.00016602 | 0.0036693 | mg/L | 0.00016602 | 4.52% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | 0.1 | 0.0032235 | mg/L | 0.00102657 | 0.0032235 | mg/L | 0.00102657 | 31.85% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 185.9 | 0.0047398 | mg/L | 0.00155771 | 0.0047398 | mg/L | 0.00155771 | 32.86% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 28.8 | 0.0035743 | mg/L | 0.00017232 | 0.0035743 | mg/L | 0.00017232 | 4.82% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 105.0 | -0.0909306 | mg/L | 0.00192853 | -0.0909306 | mg/L | 0.00192853 | 2.12% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -179.1 | 0.0040212 | mg/L | 0.00171711 | 0.0040212 | mg/L | 0.00171711 | 42.70% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | 0.4 | -0.0199055 | mg/L | 0.00155441 | -0.0199055 | mg/L | 0.00155441 | 7.81% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: AD26083-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 9/29/2021 11:00:24 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-002

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 688265.1 | 85.0 | % | 0.53 | | | | 0.63% |
| Y 371.029 | 699289.5 | 82.3 | % | 0.47 | | | | 0.57% |
| Ag 328.068† | 138.9 | 0.0012625 | mg/L | 0.00027830 | 0.0012625 | mg/L | 0.00027830 | 22.04% |
| Al 308.215† | 13006.5 | 0.431381 | mg/L | 0.0134672 | 0.431381 | mg/L | 0.0134672 | 3.12% |
| As 188.979† | 7.7 | 0.0090010 | mg/L | 0.00285103 | 0.0090010 | mg/L | 0.00285103 | 31.67% |
| Ba 233.527† | 27387.4 | 0.285106 | mg/L | 0.0016959 | 0.285106 | mg/L | 0.0016959 | 0.59% |
| Be 313.107† | 316.6 | 0.0037535 | mg/L | 0.00005533 | 0.0037535 | mg/L | 0.00005533 | 1.47% |
| Ca 315.887† | 26474477.3 | 192.123 | mg/L | 1.6087 | 192.123 | mg/L | 1.6087 | 0.84% |
| Cd 228.802† | 1.2 | 0.0043269 | mg/L | 0.00021910 | 0.0043269 | mg/L | 0.00021910 | 5.06% |
| Co 228.616† | 453.0 | 0.0155569 | mg/L | 0.00024060 | 0.0155569 | mg/L | 0.00024060 | 1.55% |
| Cr 267.716† | 200.7 | 0.0033850 | mg/L | 0.00027978 | 0.0033850 | mg/L | 0.00027978 | 8.27% |
| Cu 327.393† | -1449.6 | -0.0096807 | mg/L | 0.00097839 | -0.0096807 | mg/L | 0.00097839 | 10.11% |
| Fe 273.955† | 27265.5 | 0.915541 | mg/L | 0.0006440 | 0.915541 | mg/L | 0.0006440 | 0.07% |
| K 404.721† | 1385.6 | 9.63335 | mg/L | 0.840216 | 9.63335 | mg/L | 0.840216 | 8.72% |
| Mg 279.077† | 1898032.6 | 75.3233 | mg/L | 0.14427 | 75.3233 | mg/L | 0.14427 | 0.19% |
| Mn 257.610† | 4509355.5 | 5.41416 | mg/L | 0.006147 | 5.41416 | mg/L | 0.006147 | 0.11% |
| Mo 202.031† | 159.8 | 0.0142023 | mg/L | 0.00092035 | 0.0142023 | mg/L | 0.00092035 | 6.48% |
| Na 330.237† | 1367995.1 | 958.029 | mg/L | 3.6622 | 958.029 | mg/L | 3.6622 | 0.38% |
| Ni 231.604† | 2727.7 | 0.0834368 | mg/L | 0.00097581 | 0.0834368 | mg/L | 0.00097581 | 1.17% |
| Pb 220.353† | -56.3 | -0.0094110 | mg/L | 0.00024450 | -0.0094110 | mg/L | 0.00024450 | 2.60% |
| Sb 206.836† | -70.3 | -0.0532447 | mg/L | 0.00403937 | -0.0532447 | mg/L | 0.00403937 | 7.59% |
| Se 196.026† | -21.3 | -0.0194450 | mg/L | 0.00716161 | -0.0194450 | mg/L | 0.00716161 | 36.83% |
| Sn 189.927† | -5.6 | -0.0013836 | mg/L | 0.00054928 | -0.0013836 | mg/L | 0.00054928 | 39.70% |
| Ti 334.940† | 15465.8 | 0.0211457 | mg/L | 0.00147396 | 0.0211457 | mg/L | 0.00147396 | 6.97% |
| Tl 190.801† | -11.7 | 0.0029112 | mg/L | 0.00346169 | 0.0029112 | mg/L | 0.00346169 | 118.91% |
| V 290.880† | -244.6 | 0.0021124 | mg/L | 0.00065203 | 0.0021124 | mg/L | 0.00065203 | 30.87% |
| Zn 206.200† | 1559.3 | 0.0337241 | mg/L | 0.00038338 | 0.0337241 | mg/L | 0.00038338 | 1.14% |
| Si 251.611† | 637107.7 | 14.0691 | mg/L | 0.03221 | 14.0691 | mg/L | 0.03221 | 0.23% |
| B 249.772† | 95032.0 | 0.941739 | mg/L | 0.0122414 | 0.941739 | mg/L | 0.0122414 | 1.30% |
| Ce 413.764 | -169.9 | -0.0232250 | mg/L | 0.00099168 | -0.0232250 | mg/L | 0.00099168 | 4.27% |

Sequence No.: 15
Sample ID: AD26083-005
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 9/29/2021 11:04:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-005

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 804140.6 | 99.3 | % | 1.51 | | | | 1.52% |
| Y 371.029 | 846253.6 | 99.6 | % | 1.43 | | | | 1.43% |
| Ag 328.068† | 99.7 | 0.0009884 | mg/L | 0.00025869 | 0.0009884 | mg/L | 0.00025869 | 26.17% |
| Al 308.215† | 723.7 | 0.0336166 | mg/L | 0.00364517 | 0.0336166 | mg/L | 0.00364517 | 10.84% |
| As 188.979† | 3.5 | 0.0059609 | mg/L | 0.00123616 | 0.0059609 | mg/L | 0.00123616 | 20.74% |
| Ba 233.527† | -37.8 | 0.0011760 | mg/L | 0.00023272 | 0.0011760 | mg/L | 0.00023272 | 19.79% |
| Be 313.107† | 529.2 | 0.0038181 | mg/L | 0.00001494 | 0.0038181 | mg/L | 0.00001494 | 0.39% |
| Ca 315.887† | 11077.1 | 0.351836 | mg/L | 0.0039559 | 0.351836 | mg/L | 0.0039559 | 1.12% |
| Cd 228.802† | 11.0 | 0.0035338 | mg/L | 0.00018108 | 0.0035338 | mg/L | 0.00018108 | 5.12% |
| Co 228.616† | 22.9 | 0.0012983 | mg/L | 0.00005176 | 0.0012983 | mg/L | 0.00005176 | 3.99% |
| Cr 267.716† | -17.5 | 0.0015330 | mg/L | 0.00059024 | 0.0015330 | mg/L | 0.00059024 | 38.50% |
| Cu 327.393† | 87.3 | 0.0020113 | mg/L | 0.00065401 | 0.0020113 | mg/L | 0.00065401 | 32.52% |
| Fe 273.955† | 359.0 | 0.0201837 | mg/L | 0.00164865 | 0.0201837 | mg/L | 0.00164865 | 8.17% |
| K 404.721† | 420.5 | 2.57877 | mg/L | 0.970328 | 2.57877 | mg/L | 0.970328 | 37.63% |
| Mg 279.077† | 53.7 | 0.0039238 | mg/L | 0.00172501 | 0.0039238 | mg/L | 0.00172501 | 43.96% |
| Mn 257.610† | 599.8 | 0.0020337 | mg/L | 0.00005367 | 0.0020337 | mg/L | 0.00005367 | 2.64% |
| Mo 202.031† | 22.8 | 0.0036380 | mg/L | 0.00024208 | 0.0036380 | mg/L | 0.00024208 | 6.65% |
| Na 330.237† | 184.1 | 1.18148 | mg/L | 0.088512 | 1.18148 | mg/L | 0.088512 | 7.49% |
| Ni 231.604† | 82.3 | 0.0033718 | mg/L | 0.00096685 | 0.0033718 | mg/L | 0.00096685 | 28.67% |
| Pb 220.353† | -10.4 | -0.0007133 | mg/L | 0.00086850 | -0.0007133 | mg/L | 0.00086850 | 121.76% |
| Sb 206.836† | -11.4 | -0.0049624 | mg/L | 0.00349199 | -0.0049624 | mg/L | 0.00349199 | 70.37% |
| Se 196.026† | 2.5 | 0.0037189 | mg/L | 0.00389171 | 0.0037189 | mg/L | 0.00389171 | 104.65% |
| Sn 189.927† | 4.0 | 0.0009556 | mg/L | 0.00092097 | 0.0009556 | mg/L | 0.00092097 | 96.38% |
| Ti 334.940† | 552.9 | 0.0040761 | mg/L | 0.00010343 | 0.0040761 | mg/L | 0.00010343 | 2.54% |
| Tl 190.801† | -1.7 | 0.0012197 | mg/L | 0.00245447 | 0.0012197 | mg/L | 0.00245447 | 201.24% |
| V 290.880† | -72.7 | 0.0031612 | mg/L | 0.00041992 | 0.0031612 | mg/L | 0.00041992 | 13.28% |
| Zn 206.200† | 213.3 | 0.0072081 | mg/L | 0.00013971 | 0.0072081 | mg/L | 0.00013971 | 1.94% |
| Si 251.611† | 2177.8 | -0.0448481 | mg/L | 0.00213301 | -0.0448481 | mg/L | 0.00213301 | 4.76% |
| B 249.772† | 342.2 | 0.0091086 | mg/L | 0.00245744 | 0.0091086 | mg/L | 0.00245744 | 26.98% |
| Ce 413.764 | 118.3 | -0.0176073 | mg/L | 0.00043690 | -0.0176073 | mg/L | 0.00043690 | 2.48% |

Sequence No.: 16
Sample ID: AD26083-008
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 9/29/2021 11:08:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-008

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 737854.6 | 91.1 | % | 0.16 | | | | 0.17% |
| Y 371.029 | 759535.1 | 89.4 | % | 0.17 | | | | 0.19% |
| Ag 328.068† | 107.0 | 0.0011379 | mg/L | 0.00028483 | 0.0011379 | mg/L | 0.00028483 | 25.03% |
| Al 308.215† | 5800.0 | 0.198007 | mg/L | 0.0068828 | 0.198007 | mg/L | 0.0068828 | 3.48% |
| As 188.979† | 5.4 | 0.0073275 | mg/L | 0.00408600 | 0.0073275 | mg/L | 0.00408600 | 55.76% |
| Ba 233.527† | 11801.2 | 0.123744 | mg/L | 0.0005697 | 0.123744 | mg/L | 0.0005697 | 0.46% |
| Be 313.107† | 316.7 | 0.0037535 | mg/L | 0.00004828 | 0.0037535 | mg/L | 0.00004828 | 1.29% |
| Ca 315.887† | 18687825.5 | 135.696 | mg/L | 0.8956 | 135.696 | mg/L | 0.8956 | 0.66% |
| Cd 228.802† | -4.2 | 0.0036919 | mg/L | 0.00043281 | 0.0036919 | mg/L | 0.00043281 | 11.72% |
| Co 228.616† | 39.2 | 0.0021367 | mg/L | 0.00029376 | 0.0021367 | mg/L | 0.00029376 | 13.75% |
| Cr 267.716† | -187.4 | 0.0000919 | mg/L | 0.00033513 | 0.0000919 | mg/L | 0.00033513 | 364.56% |
| Cu 327.393† | -1290.3 | -0.0088252 | mg/L | 0.00026452 | -0.0088252 | mg/L | 0.00026452 | 3.00% |
| Fe 273.955† | 50852.5 | 1.70044 | mg/L | 0.006012 | 1.70044 | mg/L | 0.006012 | 0.35% |
| K 404.721† | 1583.0 | 11.0764 | mg/L | 0.44841 | 11.0764 | mg/L | 0.44841 | 4.05% |
| Mg 279.077† | 1515861.9 | 60.1573 | mg/L | 0.02226 | 60.1573 | mg/L | 0.02226 | 0.04% |
| Mn 257.610† | 360838.9 | 0.434450 | mg/L | 0.0003654 | 0.434450 | mg/L | 0.0003654 | 0.08% |
| Mo 202.031† | 90.7 | 0.0088763 | mg/L | 0.00011380 | 0.0088763 | mg/L | 0.00011380 | 1.28% |
| Na 330.237† | 55594.1 | 39.9434 | mg/L | 0.10518 | 39.9434 | mg/L | 0.10518 | 0.26% |
| Ni 231.604† | 266.0 | 0.0089306 | mg/L | 0.00031051 | 0.0089306 | mg/L | 0.00031051 | 3.48% |
| Pb 220.353† | -44.4 | -0.0070635 | mg/L | 0.00153793 | -0.0070635 | mg/L | 0.00153793 | 21.77% |
| Sb 206.836† | -43.2 | -0.0310502 | mg/L | 0.00242308 | -0.0310502 | mg/L | 0.00242308 | 7.80% |
| Se 196.026† | -14.4 | -0.0126685 | mg/L | 0.00935449 | -0.0126685 | mg/L | 0.00935449 | 73.84% |
| Sn 189.927† | -21.6 | -0.0052824 | mg/L | 0.00240850 | -0.0052824 | mg/L | 0.00240850 | 45.60% |
| Ti 334.940† | 7344.6 | 0.0118501 | mg/L | 0.00035037 | 0.0118501 | mg/L | 0.00035037 | 2.96% |
| Tl 190.801† | -16.0 | -0.0059156 | mg/L | 0.00294076 | -0.0059156 | mg/L | 0.00294076 | 49.71% |
| V 290.880† | -938.3 | -0.0021211 | mg/L | 0.00066066 | -0.0021211 | mg/L | 0.00066066 | 31.15% |
| Zn 206.200† | 1130.6 | 0.0252784 | mg/L | 0.00019271 | 0.0252784 | mg/L | 0.00019271 | 0.76% |
| Si 251.611† | 714196.8 | 15.7830 | mg/L | 0.03013 | 15.7830 | mg/L | 0.03013 | 0.19% |
| B 249.772† | 8261.7 | 0.0809348 | mg/L | 0.00050943 | 0.0809348 | mg/L | 0.00050943 | 0.63% |
| Ce 413.764 | 9.1 | -0.0197373 | mg/L | 0.00212747 | -0.0197373 | mg/L | 0.00212747 | 10.78% |

Sequence No.: 17
Sample ID: AD26083-009
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 9/29/2021 11:12:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-009

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 734570.5 | 90.7 | % | 0.53 | | | | 0.58% |
| Y 371.029 | 756050.4 | 88.9 | % | 0.60 | | | | 0.68% |
| Ag 328.068† | 98.2 | 0.0010886 | mg/L | 0.00039953 | 0.0010886 | mg/L | 0.00039953 | 36.70% |
| Al 308.215† | 3977.7 | 0.138995 | mg/L | 0.0009799 | 0.138995 | mg/L | 0.0009799 | 0.70% |
| As 188.979† | 5.0 | 0.0070468 | mg/L | 0.00162476 | 0.0070468 | mg/L | 0.00162476 | 23.06% |
| Ba 233.527† | 11780.7 | 0.123532 | mg/L | 0.0010091 | 0.123532 | mg/L | 0.0010091 | 0.82% |
| Be 313.107† | 267.3 | 0.0037385 | mg/L | 0.00003007 | 0.0037385 | mg/L | 0.00003007 | 0.80% |
| Ca 315.887† | 18585335.2 | 134.953 | mg/L | 1.5050 | 134.953 | mg/L | 1.5050 | 1.12% |
| Cd 228.802† | 0.4 | 0.0037904 | mg/L | 0.00024474 | 0.0037904 | mg/L | 0.00024474 | 6.46% |
| Co 228.616† | 24.7 | 0.0016889 | mg/L | 0.00041762 | 0.0016889 | mg/L | 0.00041762 | 24.73% |
| Cr 267.716† | -202.5 | -0.0000362 | mg/L | 0.00019638 | -0.0000362 | mg/L | 0.00019638 | 542.87% |
| Cu 327.393† | -1294.4 | -0.0088681 | mg/L | 0.00034872 | -0.0088681 | mg/L | 0.00034872 | 3.93% |
| Fe 273.955† | 50475.4 | 1.68789 | mg/L | 0.000493 | 1.68789 | mg/L | 0.000493 | 0.03% |
| K 404.721† | 1774.9 | 12.4792 | mg/L | 1.34081 | 12.4792 | mg/L | 1.34081 | 10.74% |
| Mg 279.077† | 1513415.5 | 60.0602 | mg/L | 0.11346 | 60.0602 | mg/L | 0.11346 | 0.19% |
| Mn 257.610† | 354988.1 | 0.427427 | mg/L | 0.0003947 | 0.427427 | mg/L | 0.0003947 | 0.09% |
| Mo 202.031† | 94.4 | 0.0091507 | mg/L | 0.00079998 | 0.0091507 | mg/L | 0.00079998 | 8.74% |
| Na 330.237† | 58517.3 | 41.9883 | mg/L | 0.01763 | 41.9883 | mg/L | 0.01763 | 0.04% |
| Ni 231.604† | 295.7 | 0.0098284 | mg/L | 0.00063065 | 0.0098284 | mg/L | 0.00063065 | 6.42% |
| Pb 220.353† | -43.5 | -0.0068795 | mg/L | 0.00079356 | -0.0068795 | mg/L | 0.00079356 | 11.54% |
| Sb 206.836† | -43.6 | -0.0314302 | mg/L | 0.00306087 | -0.0314302 | mg/L | 0.00306087 | 9.74% |
| Se 196.026† | -7.0 | -0.0054891 | mg/L | 0.00851425 | -0.0054891 | mg/L | 0.00851425 | 155.11% |
| Sn 189.927† | -27.8 | -0.0067826 | mg/L | 0.00220842 | -0.0067826 | mg/L | 0.00220842 | 32.56% |
| Ti 334.940† | 4839.1 | 0.0089822 | mg/L | 0.00005702 | 0.0089822 | mg/L | 0.00005702 | 0.63% |
| Tl 190.801† | -12.7 | -0.0021000 | mg/L | 0.00557480 | -0.0021000 | mg/L | 0.00557480 | 265.47% |
| V 290.880† | -904.2 | -0.0019129 | mg/L | 0.00038530 | -0.0019129 | mg/L | 0.00038530 | 20.14% |
| Zn 206.200† | 1090.5 | 0.0244902 | mg/L | 0.00024597 | 0.0244902 | mg/L | 0.00024597 | 1.00% |
| Si 251.611† | 716119.3 | 15.8258 | mg/L | 0.01678 | 15.8258 | mg/L | 0.01678 | 0.11% |
| B 249.772† | 9103.8 | 0.0893072 | mg/L | 0.00100418 | 0.0893072 | mg/L | 0.00100418 | 1.12% |
| Ce 413.764 | 24.8 | -0.0194309 | mg/L | 0.00153125 | -0.0194309 | mg/L | 0.00153125 | 7.88% |

Sequence No.: 18
Sample ID: AD26083-011
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 9/29/2021 11:17:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-011

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 755550.7 | 93.3 | % | 0.37 | | | | 0.40% |
| Y 371.029 | 782215.6 | 92.0 | % | 0.42 | | | | 0.45% |
| Ag 328.068† | 107.7 | 0.0010468 | mg/L | 0.00041485 | 0.0010468 | mg/L | 0.00041485 | 39.63% |
| Al 308.215† | 1373.2 | 0.0546508 | mg/L | 0.00062474 | 0.0546508 | mg/L | 0.00062474 | 1.14% |
| As 188.979† | 9.9 | 0.0106692 | mg/L | 0.00094394 | 0.0106692 | mg/L | 0.00094394 | 8.85% |
| Ba 233.527† | 29275.8 | 0.304657 | mg/L | 0.0004107 | 0.304657 | mg/L | 0.0004107 | 0.13% |
| Be 313.107† | 457.5 | 0.0037963 | mg/L | 0.00001668 | 0.0037963 | mg/L | 0.00001668 | 0.44% |
| Ca 315.887† | 10677563.2 | 77.6482 | mg/L | 0.28285 | 77.6482 | mg/L | 0.28285 | 0.36% |
| Cd 228.802† | 4.2 | 0.0034775 | mg/L | 0.00007499 | 0.0034775 | mg/L | 0.00007499 | 2.16% |
| Co 228.616† | 6.9 | 0.0016544 | mg/L | 0.00007190 | 0.0016544 | mg/L | 0.00007190 | 4.35% |
| Cr 267.716† | -82.9 | 0.0009785 | mg/L | 0.00002592 | 0.0009785 | mg/L | 0.00002592 | 2.65% |
| Cu 327.393† | -764.7 | -0.0045195 | mg/L | 0.00022541 | -0.0045195 | mg/L | 0.00022541 | 4.99% |
| Fe 273.955† | 7105.3 | 0.244676 | mg/L | 0.0015776 | 0.244676 | mg/L | 0.0015776 | 0.64% |
| K 404.721† | 842.8 | 5.66590 | mg/L | 0.684913 | 5.66590 | mg/L | 0.684913 | 12.09% |
| Mg 279.077† | 397383.1 | 15.7715 | mg/L | 0.00690 | 15.7715 | mg/L | 0.00690 | 0.04% |
| Mn 257.610† | 513161.3 | 0.617291 | mg/L | 0.0004289 | 0.617291 | mg/L | 0.0004289 | 0.07% |
| Mo 202.031† | 77.9 | 0.0078793 | mg/L | 0.00015985 | 0.0078793 | mg/L | 0.00015985 | 2.03% |
| Na 330.237† | 27563.4 | 20.3346 | mg/L | 0.14569 | 20.3346 | mg/L | 0.14569 | 0.72% |
| Ni 231.604† | 170.6 | 0.0060432 | mg/L | 0.00039907 | 0.0060432 | mg/L | 0.00039907 | 6.60% |
| Pb 220.353† | -25.4 | -0.0039192 | mg/L | 0.00137087 | -0.0039192 | mg/L | 0.00137087 | 34.98% |
| Sb 206.836† | -31.4 | -0.0214112 | mg/L | 0.00350752 | -0.0214112 | mg/L | 0.00350752 | 16.38% |
| Se 196.026† | -9.2 | -0.0076838 | mg/L | 0.00796791 | -0.0076838 | mg/L | 0.00796791 | 103.70% |
| Sn 189.927† | -25.2 | -0.0061539 | mg/L | 0.00034162 | -0.0061539 | mg/L | 0.00034162 | 5.55% |
| Ti 334.940† | 1165.8 | 0.0047777 | mg/L | 0.00003291 | 0.0047777 | mg/L | 0.00003291 | 0.69% |
| Tl 190.801† | -9.5 | -0.0024213 | mg/L | 0.00432383 | -0.0024213 | mg/L | 0.00432383 | 178.58% |
| V 290.880† | -229.3 | 0.0022061 | mg/L | 0.00022246 | 0.0022061 | mg/L | 0.00022246 | 10.08% |
| Zn 206.200† | 45.6 | 0.0039056 | mg/L | 0.00010147 | 0.0039056 | mg/L | 0.00010147 | 2.60% |
| Si 251.611† | 430436.6 | 9.47481 | mg/L | 0.011544 | 9.47481 | mg/L | 0.011544 | 0.12% |
| B 249.772† | 845.3 | 0.0132188 | mg/L | 0.00051172 | 0.0132188 | mg/L | 0.00051172 | 3.87% |
| Ce 413.764 | 29.6 | -0.0193372 | mg/L | 0.00026172 | -0.0193372 | mg/L | 0.00026172 | 1.35% |

Sequence No.: 19
Sample ID: AD26083-018
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 9/29/2021 11:21:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-018

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 752464.9 | 92.9 | % | 0.49 | | | | 0.53% |
| Y 371.029 | 777259.7 | 91.4 | % | 0.46 | | | | 0.50% |
| Ag 328.068† | 143.9 | 0.0015135 | mg/L | 0.00026305 | 0.0015135 | mg/L | 0.00026305 | 17.38% |
| Al 308.215† | 49295.6 | 1.60656 | mg/L | 0.001403 | 1.60656 | mg/L | 0.001403 | 0.09% |
| As 188.979† | 19.3 | 0.0174481 | mg/L | 0.00062637 | 0.0174481 | mg/L | 0.00062637 | 3.59% |
| Ba 233.527† | 11139.7 | 0.116896 | mg/L | 0.0006904 | 0.116896 | mg/L | 0.0006904 | 0.59% |
| Be 313.107† | 1384.7 | 0.0040780 | mg/L | 0.00001872 | 0.0040780 | mg/L | 0.00001872 | 0.46% |
| Ca 315.887† | 1840108.4 | 13.6062 | mg/L | 0.01298 | 13.6062 | mg/L | 0.01298 | 0.10% |
| Cd 228.802† | -41.9 | 0.0037890 | mg/L | 0.00021452 | 0.0037890 | mg/L | 0.00021452 | 5.66% |
| Co 228.616† | 133.3 | 0.0048776 | mg/L | 0.00030968 | 0.0048776 | mg/L | 0.00030968 | 6.35% |
| Cr 267.716† | 899.7 | 0.0093166 | mg/L | 0.00057004 | 0.0093166 | mg/L | 0.00057004 | 6.12% |
| Cu 327.393† | 7939.6 | 0.0691047 | mg/L | 0.00016402 | 0.0691047 | mg/L | 0.00016402 | 0.24% |
| Fe 273.955† | 126008.8 | 4.20139 | mg/L | 0.002848 | 4.20139 | mg/L | 0.002848 | 0.07% |
| K 404.721† | 1234.6 | 8.53004 | mg/L | 0.570903 | 8.53004 | mg/L | 0.570903 | 6.69% |
| Mg 279.077† | 396558.3 | 15.7388 | mg/L | 0.03492 | 15.7388 | mg/L | 0.03492 | 0.22% |
| Mn 257.610† | 148511.1 | 0.179580 | mg/L | 0.0001759 | 0.179580 | mg/L | 0.0001759 | 0.10% |
| Mo 202.031† | 65.6 | 0.0070530 | mg/L | 0.00045040 | 0.0070530 | mg/L | 0.00045040 | 6.39% |
| Na 330.237† | 130428.8 | 92.2938 | mg/L | 0.14300 | 92.2938 | mg/L | 0.14300 | 0.15% |
| Ni 231.604† | 1121.5 | 0.0348218 | mg/L | 0.00110798 | 0.0348218 | mg/L | 0.00110798 | 3.18% |
| Pb 220.353† | 6.5 | 0.0048003 | mg/L | 0.00063782 | 0.0048003 | mg/L | 0.00063782 | 13.29% |
| Sb 206.836† | -42.0 | -0.0296571 | mg/L | 0.00666449 | -0.0296571 | mg/L | 0.00666449 | 22.47% |
| Se 196.026† | -6.4 | -0.0049426 | mg/L | 0.00292921 | -0.0049426 | mg/L | 0.00292921 | 59.26% |
| Sn 189.927† | -6.9 | -0.0016969 | mg/L | 0.00094841 | -0.0016969 | mg/L | 0.00094841 | 55.89% |
| Ti 334.940† | 73790.8 | 0.0879057 | mg/L | 0.00006330 | 0.0879057 | mg/L | 0.00006330 | 0.07% |
| Tl 190.801† | -8.5 | -0.0055434 | mg/L | 0.00010528 | -0.0055434 | mg/L | 0.00010528 | 1.90% |
| V 290.880† | 610.1 | 0.0073284 | mg/L | 0.00041555 | 0.0073284 | mg/L | 0.00041555 | 5.67% |
| Zn 206.200† | 3521.0 | 0.0723699 | mg/L | 0.00053264 | 0.0723699 | mg/L | 0.00053264 | 0.74% |
| Si 251.611† | 548318.9 | 12.0969 | mg/L | 0.01393 | 12.0969 | mg/L | 0.01393 | 0.12% |
| B 249.772† | 14771.8 | 0.135670 | mg/L | 0.0021337 | 0.135670 | mg/L | 0.0021337 | 1.57% |
| Ce 413.764 | 289.7 | -0.0142665 | mg/L | 0.00061743 | -0.0142665 | mg/L | 0.00061743 | 4.33% |

Sequence No.: 20 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/29/2021 11:25:07 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 743710.9 | 91.8 | % | 0.46 | | | | 0.50% |
| Y 371.029 | 766794.9 | 90.2 | % | 0.48 | | | | 0.53% |
| Ag 328.068† | 17493.1 | 0.0990290 | mg/L | 0.00033321 | 0.0990290 | mg/L | 0.00033321 | 0.34% |
| QC value within limits for Ag 328.068 Recovery = 99.03% | | | | | | | | |
| Al 308.215† | 154096.8 | 5.00043 | mg/L | 0.008375 | 5.00043 | mg/L | 0.008375 | 0.17% |
| QC value within limits for Al 308.215 Recovery = 100.01% | | | | | | | | |
| As 188.979† | 681.9 | 0.504809 | mg/L | 0.0051730 | 0.504809 | mg/L | 0.0051730 | 1.02% |
| QC value within limits for As 188.979 Recovery = 100.96% | | | | | | | | |
| Ba 233.527† | 47397.3 | 0.492267 | mg/L | 0.0016542 | 0.492267 | mg/L | 0.0016542 | 0.34% |
| QC value within limits for Ba 233.527 Recovery = 98.45% | | | | | | | | |
| Be 313.107† | 1604103.2 | 0.491008 | mg/L | 0.0005750 | 0.491008 | mg/L | 0.0005750 | 0.12% |
| QC value within limits for Be 313.107 Recovery = 98.20% | | | | | | | | |
| Ca 315.887† | 6810464.0 | 49.6247 | mg/L | 0.05534 | 49.6247 | mg/L | 0.05534 | 0.11% |
| QC value within limits for Ca 315.887 Recovery = 99.25% | | | | | | | | |
| Cd 228.802† | 24351.2 | 0.502830 | mg/L | 0.0023632 | 0.502830 | mg/L | 0.0023632 | 0.47% |
| QC value within limits for Cd 228.802 Recovery = 100.57% | | | | | | | | |
| Co 228.616† | 15804.2 | 0.496725 | mg/L | 0.0031467 | 0.496725 | mg/L | 0.0031467 | 0.63% |
| QC value within limits for Co 228.616 Recovery = 99.35% | | | | | | | | |
| Cr 267.716† | 58304.9 | 0.496434 | mg/L | 0.0009258 | 0.496434 | mg/L | 0.0009258 | 0.19% |
| QC value within limits for Cr 267.716 Recovery = 99.29% | | | | | | | | |
| Cu 327.393† | 57666.9 | 0.494179 | mg/L | 0.0014792 | 0.494179 | mg/L | 0.0014792 | 0.30% |
| QC value within limits for Cu 327.393 Recovery = 98.84% | | | | | | | | |
| Fe 273.955† | 148632.1 | 4.95421 | mg/L | 0.013625 | 4.95421 | mg/L | 0.013625 | 0.28% |
| QC value within limits for Fe 273.955 Recovery = 99.08% | | | | | | | | |
| K 404.721† | 7143.5 | 51.7252 | mg/L | 1.38543 | 51.7252 | mg/L | 1.38543 | 2.68% |
| QC value within limits for K 404.721 Recovery = 103.45% | | | | | | | | |
| Mg 279.077† | 1263668.6 | 50.1492 | mg/L | 0.07160 | 50.1492 | mg/L | 0.07160 | 0.14% |
| QC value within limits for Mg 279.077 Recovery = 100.30% | | | | | | | | |
| Mn 257.610† | 410997.5 | 0.494658 | mg/L | 0.0012933 | 0.494658 | mg/L | 0.0012933 | 0.26% |
| QC value within limits for Mn 257.610 Recovery = 98.93% | | | | | | | | |
| Mo 202.031† | 6431.6 | 0.496828 | mg/L | 0.0032760 | 0.496828 | mg/L | 0.0032760 | 0.66% |
| QC value within limits for Mo 202.031 Recovery = 99.37% | | | | | | | | |
| Na 330.237† | 67499.0 | 48.2714 | mg/L | 0.17110 | 48.2714 | mg/L | 0.17110 | 0.35% |
| QC value within limits for Na 330.237 Recovery = 96.54% | | | | | | | | |
| Ni 231.604† | 16451.4 | 0.498804 | mg/L | 0.0027643 | 0.498804 | mg/L | 0.0027643 | 0.55% |
| QC value within limits for Ni 231.604 Recovery = 99.76% | | | | | | | | |
| Pb 220.353† | 1979.7 | 0.501271 | mg/L | 0.0040080 | 0.501271 | mg/L | 0.0040080 | 0.80% |
| QC value within limits for Pb 220.353 Recovery = 100.25% | | | | | | | | |
| Sb 206.836† | 567.1 | 0.476597 | mg/L | 0.0061477 | 0.476597 | mg/L | 0.0061477 | 1.29% |
| QC value within limits for Sb 206.836 Recovery = 95.32% | | | | | | | | |
| Se 196.026† | 495.5 | 0.483082 | mg/L | 0.0005619 | 0.483082 | mg/L | 0.0005619 | 0.12% |
| QC value within limits for Se 196.026 Recovery = 96.62% | | | | | | | | |
| Sn 189.927† | 2055.2 | 0.499651 | mg/L | 0.0039273 | 0.499651 | mg/L | 0.0039273 | 0.79% |
| QC value within limits for Sn 189.927 Recovery = 99.93% | | | | | | | | |
| Ti 334.940† | 424724.6 | 0.489591 | mg/L | 0.0009158 | 0.489591 | mg/L | 0.0009158 | 0.19% |
| QC value within limits for Ti 334.940 Recovery = 97.92% | | | | | | | | |
| Tl 190.801† | 435.4 | 0.504689 | mg/L | 0.0059238 | 0.504689 | mg/L | 0.0059238 | 1.17% |
| QC value within limits for Tl 190.801 Recovery = 100.94% | | | | | | | | |
| V 290.880† | 80136.1 | 0.492674 | mg/L | 0.0013038 | 0.492674 | mg/L | 0.0013038 | 0.26% |
| QC value within limits for V 290.880 Recovery = 98.53% | | | | | | | | |
| Zn 206.200† | 24800.9 | 0.491584 | mg/L | 0.0023353 | 0.491584 | mg/L | 0.0023353 | 0.48% |
| QC value within limits for Zn 206.200 Recovery = 98.32% | | | | | | | | |
| Si 251.611† | 222351.3 | 4.85151 | mg/L | 0.009426 | 4.85151 | mg/L | 0.009426 | 0.19% |
| QC value within limits for Si 251.611 Recovery = 97.03% | | | | | | | | |
| B 249.772† | 46596.9 | 0.447386 | mg/L | 0.0053758 | 0.447386 | mg/L | 0.0053758 | 1.20% |
| QC value less than the lower limit for B 249.772 Recovery = 89.48% | | | | | | | | |
| Ce 413.764 | 26389.7 | 0.494506 | mg/L | 0.0036720 | 0.494506 | mg/L | 0.0036720 | 0.74% |
| QC value within limits for Ce 413.764 Recovery = 98.90% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 21
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 11:29:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 790468.4 | 97.6 | % | 0.68 | | | | 0.70% |
| Y 371.029 | 835063.2 | 98.2 | % | 0.45 | | | | 0.46% |
| Ag 328.068† | 122.2 | 0.0011126 | mg/L | 0.00022920 | 0.0011126 | mg/L | 0.00022920 | 20.60% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 224.0 | 0.0174353 | mg/L | 0.00274261 | 0.0174353 | mg/L | 0.00274261 | 15.73% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 9.9 | 0.0106119 | mg/L | 0.00216722 | 0.0106119 | mg/L | 0.00216722 | 20.42% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -132.0 | 0.0002002 | mg/L | 0.00013706 | 0.0002002 | mg/L | 0.00013706 | 68.47% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 884.2 | 0.0039260 | mg/L | 0.00007545 | 0.0039260 | mg/L | 0.00007545 | 1.92% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 814.6 | 0.277467 | mg/L | 0.0005658 | 0.277467 | mg/L | 0.0005658 | 0.20% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 29.8 | 0.0039210 | mg/L | 0.00030520 | 0.0039210 | mg/L | 0.00030520 | 7.78% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 48.1 | 0.0020853 | mg/L | 0.00035111 | 0.0020853 | mg/L | 0.00035111 | 16.84% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -72.1 | 0.0010704 | mg/L | 0.00006690 | 0.0010704 | mg/L | 0.00006690 | 6.25% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | -10.7 | 0.0011729 | mg/L | 0.00096615 | 0.0011729 | mg/L | 0.00096615 | 82.38% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -158.6 | 0.0029608 | mg/L | 0.00175094 | 0.0029608 | mg/L | 0.00175094 | 59.14% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 577.1 | 3.72335 | mg/L | 0.492057 | 3.72335 | mg/L | 0.492057 | 13.22% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -160.8 | -0.0045881 | mg/L | 0.00171883 | -0.0045881 | mg/L | 0.00171883 | 37.46% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 10.3 | 0.0013261 | mg/L | 0.00002606 | 0.0013261 | mg/L | 0.00002606 | 1.97% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 23.5 | 0.0036885 | mg/L | 0.00030088 | 0.0036885 | mg/L | 0.00030088 | 8.16% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | -110.1 | 0.975710 | mg/L | 0.0688928 | 0.975710 | mg/L | 0.0688928 | 7.06% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 118.2 | 0.0044569 | mg/L | 0.00029845 | 0.0044569 | mg/L | 0.00029845 | 6.70% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -17.6 | -0.0025156 | mg/L | 0.00142722 | -0.0025156 | mg/L | 0.00142722 | 56.74% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -20.7 | -0.0126636 | mg/L | 0.00261865 | -0.0126636 | mg/L | 0.00261865 | 20.68% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 4.9 | 0.0060978 | mg/L | 0.00863321 | 0.0060978 | mg/L | 0.00863321 | 141.58% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -7.1 | -0.0017398 | mg/L | 0.00124741 | -0.0017398 | mg/L | 0.00124741 | 71.70% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 77.2 | 0.0035317 | mg/L | 0.00005804 | 0.0035317 | mg/L | 0.00005804 | 1.64% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -3.0 | -0.0003327 | mg/L | 0.00216916 | -0.0003327 | mg/L | 0.00216916 | 651.99% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 5.7 | 0.0036402 | mg/L | 0.00096317 | 0.0036402 | mg/L | 0.00096317 | 26.46% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 10.5 | 0.0032131 | mg/L | 0.00003940 | 0.0032131 | mg/L | 0.00003940 | 1.23% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 289.7 | -0.0868267 | mg/L | 0.00127817 | -0.0868267 | mg/L | 0.00127817 | 1.47% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -585.6 | 0.0000032 | mg/L | 0.00135164 | 0.0000032 | mg/L | 0.00135164 | >999.9% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | 92.3 | -0.0181153 | mg/L | 0.00170602 | -0.0181153 | mg/L | 0.00170602 | 9.42% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 22
Sample ID: AD26083-026
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 9/29/2021 11:33:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-026

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 761691.4 | 94.0 | % | 0.15 | | | | 0.16% |
| Y 371.029 | 787726.2 | 92.7 | % | 0.09 | | | | 0.10% |
| Ag 328.068† | 142.3 | 0.0012366 | mg/L | 0.00071421 | 0.0012366 | mg/L | 0.00071421 | 57.76% |
| Al 308.215† | 4884.3 | 0.168353 | mg/L | 0.0018452 | 0.168353 | mg/L | 0.0018452 | 1.10% |
| As 188.979† | 8.3 | 0.0094598 | mg/L | 0.00352184 | 0.0094598 | mg/L | 0.00352184 | 37.23% |
| Ba 233.527† | 41677.6 | 0.433051 | mg/L | 0.0028794 | 0.433051 | mg/L | 0.0028794 | 0.66% |
| Be 313.107† | 729.1 | 0.0038788 | mg/L | 0.00004405 | 0.0038788 | mg/L | 0.00004405 | 1.14% |
| Ca 315.887† | 8281875.4 | 60.2875 | mg/L | 0.12368 | 60.2875 | mg/L | 0.12368 | 0.21% |
| Cd 228.802† | 35.6 | 0.0041882 | mg/L | 0.00042022 | 0.0041882 | mg/L | 0.00042022 | 10.03% |
| Co 228.616† | 6.0 | 0.0019837 | mg/L | 0.00036170 | 0.0019837 | mg/L | 0.00036170 | 18.23% |
| Cr 267.716† | -80.8 | 0.0009965 | mg/L | 0.00024823 | 0.0009965 | mg/L | 0.00024823 | 24.91% |
| Cu 327.393† | 300.7 | 0.0044069 | mg/L | 0.00034627 | 0.0044069 | mg/L | 0.00034627 | 7.86% |
| Fe 273.955† | 4728.4 | 0.165583 | mg/L | 0.0017008 | 0.165583 | mg/L | 0.0017008 | 1.03% |
| K 404.721† | 419.9 | 2.57437 | mg/L | 1.201694 | 2.57437 | mg/L | 1.201694 | 46.68% |
| Mg 279.077† | 331599.8 | 13.1610 | mg/L | 0.11309 | 13.1610 | mg/L | 0.11309 | 0.86% |
| Mn 257.610† | 63645.2 | 0.0777109 | mg/L | 0.00060579 | 0.0777109 | mg/L | 0.00060579 | 0.78% |
| Mo 202.031† | 141.8 | 0.0127978 | mg/L | 0.00011918 | 0.0127978 | mg/L | 0.00011918 | 0.93% |
| Na 330.237† | 56437.2 | 40.5332 | mg/L | 0.27438 | 40.5332 | mg/L | 0.27438 | 0.68% |
| Ni 231.604† | 495.3 | 0.0158716 | mg/L | 0.00051396 | 0.0158716 | mg/L | 0.00051396 | 3.24% |
| Pb 220.353† | -24.6 | -0.0037455 | mg/L | 0.00103824 | -0.0037455 | mg/L | 0.00103824 | 27.72% |
| Sb 206.836† | -29.8 | -0.0200002 | mg/L | 0.00290462 | -0.0200002 | mg/L | 0.00290462 | 14.52% |
| Se 196.026† | -5.0 | -0.0035559 | mg/L | 0.00473032 | -0.0035559 | mg/L | 0.00473032 | 133.03% |
| Sn 189.927† | -13.0 | -0.0031686 | mg/L | 0.00049804 | -0.0031686 | mg/L | 0.00049804 | 15.72% |
| Ti 334.940† | 3788.8 | 0.0077800 | mg/L | 0.00009545 | 0.0077800 | mg/L | 0.00009545 | 1.23% |
| Tl 190.801† | -10.6 | -0.0048494 | mg/L | 0.00084270 | -0.0048494 | mg/L | 0.00084270 | 17.38% |
| V 290.880† | -150.2 | 0.0026886 | mg/L | 0.00037983 | 0.0026886 | mg/L | 0.00037983 | 14.13% |
| Zn 206.200† | 3487.9 | 0.0717191 | mg/L | 0.00009080 | 0.0717191 | mg/L | 0.00009080 | 0.13% |
| Si 251.611† | 239541.8 | 5.23147 | mg/L | 0.041421 | 5.23147 | mg/L | 0.041421 | 0.79% |
| B 249.772† | 18924.7 | 0.192251 | mg/L | 0.0029893 | 0.192251 | mg/L | 0.0029893 | 1.55% |
| Ce 413.764 | 142.7 | -0.0171315 | mg/L | 0.00205847 | -0.0171315 | mg/L | 0.00205847 | 12.02% |

Sequence No.: 23
Sample ID: AD26083-027
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 9/29/2021 11:37:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-027

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 718006.8 | 88.6 | % | 1.35 | | | | 1.53% |
| Y 371.029 | 736811.4 | 86.7 | % | 1.18 | | | | 1.36% |
| Ag 328.068† | 236.7 | 0.0017798 | mg/L | 0.00033731 | 0.0017798 | mg/L | 0.00033731 | 18.95% |
| Al 308.215† | 5618.6 | 0.192132 | mg/L | 0.0079166 | 0.192132 | mg/L | 0.0079166 | 4.12% |
| As 188.979† | 29.6 | 0.0251375 | mg/L | 0.00193294 | 0.0251375 | mg/L | 0.00193294 | 7.69% |
| Ba 233.527† | 9101.4 | 0.0957935 | mg/L | 0.00114445 | 0.0957935 | mg/L | 0.00114445 | 1.19% |
| Be 313.107† | 1286.0 | 0.0040480 | mg/L | 0.00001890 | 0.0040480 | mg/L | 0.00001890 | 0.47% |
| Ca 315.887† | 848192.7 | 6.41813 | mg/L | 0.087719 | 6.41813 | mg/L | 0.087719 | 1.37% |
| Cd 228.802† | 14.3 | 0.0037960 | mg/L | 0.00025551 | 0.0037960 | mg/L | 0.00025551 | 6.73% |
| Co 228.616† | 39.6 | 0.0020706 | mg/L | 0.00017456 | 0.0020706 | mg/L | 0.00017456 | 8.43% |
| Cr 267.716† | 98.7 | 0.0025192 | mg/L | 0.00048599 | 0.0025192 | mg/L | 0.00048599 | 19.29% |
| Cu 327.393† | -543.8 | -0.0033899 | mg/L | 0.00045688 | -0.0033899 | mg/L | 0.00045688 | 13.48% |
| Fe 273.955† | 11899.5 | 0.404212 | mg/L | 0.0050527 | 0.404212 | mg/L | 0.0050527 | 1.25% |
| K 404.721† | 3135.2 | 22.4237 | mg/L | 1.05485 | 22.4237 | mg/L | 1.05485 | 4.70% |
| Mg 279.077† | 172807.5 | 6.85949 | mg/L | 0.097722 | 6.85949 | mg/L | 0.097722 | 1.42% |
| Mn 257.610† | 39133.0 | 0.0482874 | mg/L | 0.00068497 | 0.0482874 | mg/L | 0.00068497 | 1.42% |
| Mo 202.031† | 158.9 | 0.0141197 | mg/L | 0.00085636 | 0.0141197 | mg/L | 0.00085636 | 6.06% |
| Na 330.237† | 569980.9 | 399.781 | mg/L | 6.6158 | 399.781 | mg/L | 6.6158 | 1.65% |
| Ni 231.604† | 425.2 | 0.0137481 | mg/L | 0.00091832 | 0.0137481 | mg/L | 0.00091832 | 6.68% |
| Pb 220.353† | -59.7 | -0.0127243 | mg/L | 0.00260793 | -0.0127243 | mg/L | 0.00260793 | 20.50% |
| Sb 206.836† | -57.3 | -0.0426897 | mg/L | 0.00511948 | -0.0426897 | mg/L | 0.00511948 | 11.99% |
| Se 196.026† | -6.4 | -0.0049821 | mg/L | 0.00368047 | -0.0049821 | mg/L | 0.00368047 | 73.87% |
| Sn 189.927† | -11.0 | -0.0026917 | mg/L | 0.00067115 | -0.0026917 | mg/L | 0.00067115 | 24.93% |
| Ti 334.940† | 6952.8 | 0.0114016 | mg/L | 0.00019217 | 0.0114016 | mg/L | 0.00019217 | 1.69% |
| Tl 190.801† | -8.8 | -0.0065027 | mg/L | 0.00151284 | -0.0065027 | mg/L | 0.00151284 | 23.26% |
| V 290.880† | 845.9 | 0.0087680 | mg/L | 0.00034579 | 0.0087680 | mg/L | 0.00034579 | 3.94% |
| Zn 206.200† | 250.7 | 0.0079458 | mg/L | 0.00024845 | 0.0079458 | mg/L | 0.00024845 | 3.13% |
| Si 251.611† | 366952.0 | 8.06372 | mg/L | 0.124871 | 8.06372 | mg/L | 0.124871 | 1.55% |
| B 249.772† | 53701.2 | 0.535123 | mg/L | 0.0126997 | 0.535123 | mg/L | 0.0126997 | 2.37% |
| Ce 413.764 | 92.5 | -0.0181112 | mg/L | 0.00043992 | -0.0181112 | mg/L | 0.00043992 | 2.43% |

Sequence No.: 24
Sample ID: AD26083-032
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 9/29/2021 11:41:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-032

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 573674.8 | 70.8 | % | 0.10 | | | | 0.14% |
| Y 371.029 | 581087.2 | 68.4 | % | 0.13 | | | | 0.18% |
| Ag 328.068† | -318.3 | 0.0002928 | mg/L | 0.00044252 | 0.0002928 | mg/L | 0.00044252 | 151.15% |
| Al 308.215† | 3172.2 | 0.112909 | mg/L | 0.0013789 | 0.112909 | mg/L | 0.0013789 | 1.22% |
| As 188.979† | 21.2 | 0.0189210 | mg/L | 0.00652119 | 0.0189210 | mg/L | 0.00652119 | 34.47% |
| Ba 233.527† | 7195.7 | 0.0760637 | mg/L | 0.00130789 | 0.0760637 | mg/L | 0.00130789 | 1.72% |
| Be 313.107† | -39.9 | 0.0036452 | mg/L | 0.00003364 | 0.0036452 | mg/L | 0.00003364 | 0.92% |
| Ca 315.887† | 75482289.0 | 547.266 | mg/L | 7.1040 | 547.266 | mg/L | 7.1040 | 1.30% |
| Cd 228.802† | -203.3 | 0.0054648 | mg/L | 0.00026145 | 0.0054648 | mg/L | 0.00026145 | 4.78% |
| Co 228.616† | 48.3 | 0.0022944 | mg/L | 0.00017856 | 0.0022944 | mg/L | 0.00017856 | 7.78% |
| Cr 267.716† | -892.8 | -0.0058943 | mg/L | 0.00060254 | -0.0058943 | mg/L | 0.00060254 | 10.22% |
| Cu 327.393† | -5121.5 | -0.0424342 | mg/L | 0.00078074 | -0.0424342 | mg/L | 0.00078074 | 1.84% |
| Fe 273.955† | 753125.0 | 25.0697 | mg/L | 0.36527 | 25.0697 | mg/L | 0.36527 | 1.46% |
| K 404.721† | 12432.5 | 90.3892 | mg/L | 1.01527 | 90.3892 | mg/L | 1.01527 | 1.12% |
| Mg 279.077† | 14181765.9 | 562.791 | mg/L | 8.3284 | 562.791 | mg/L | 8.3284 | 1.48% |
| Mn 257.610† | 2411903.5 | 2.89646 | mg/L | 0.043715 | 2.89646 | mg/L | 0.043715 | 1.51% |
| Mo 202.031† | 200.9 | 0.0173389 | mg/L | 0.00164657 | 0.0173389 | mg/L | 0.00164657 | 9.50% |
| Na 330.237† | 7672162.4 | 5368.09 | mg/L | 35.120 | 5368.09 | mg/L | 35.120 | 0.65% |
| Ni 231.604† | 555.0 | 0.0176784 | mg/L | 0.00009772 | 0.0176784 | mg/L | 0.00009772 | 0.55% |
| Pb 220.353† | -111.7 | -0.0066658 | mg/L | 0.00197012 | -0.0066658 | mg/L | 0.00197012 | 29.56% |
| Sb 206.836† | -122.4 | -0.0962665 | mg/L | 0.00848937 | -0.0962665 | mg/L | 0.00848937 | 8.82% |
| Se 196.026† | -52.7 | -0.0487385 | mg/L | 0.01411874 | -0.0487385 | mg/L | 0.01411874 | 28.97% |
| Sn 189.927† | -32.3 | -0.0078633 | mg/L | 0.00302025 | -0.0078633 | mg/L | 0.00302025 | 38.41% |
| Ti 334.940† | 5146.5 | 0.0093341 | mg/L | 0.00025603 | 0.0093341 | mg/L | 0.00025603 | 2.74% |
| Tl 190.801† | -30.0 | 0.0062205 | mg/L | 0.00170050 | 0.0062205 | mg/L | 0.00170050 | 27.34% |
| V 290.880† | -2661.9 | -0.0126402 | mg/L | 0.00009641 | -0.0126402 | mg/L | 0.00009641 | 0.76% |
| Zn 206.200† | 329.9 | 0.0095049 | mg/L | 0.00018636 | 0.0095049 | mg/L | 0.00018636 | 1.96% |
| Si 251.611† | 606546.7 | 13.4007 | mg/L | 0.18874 | 13.4007 | mg/L | 0.18874 | 1.41% |
| B 249.772† | 159315.5 | 1.48430 | mg/L | 0.008987 | 1.48430 | mg/L | 0.008987 | 0.61% |
| Ce 413.764 | -238.7 | -0.0245676 | mg/L | 0.00104858 | -0.0245676 | mg/L | 0.00104858 | 4.27% |

Sequence No.: 25
Sample ID: AD26083-033
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 9/29/2021 11:47:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-033

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 813153.2 | 100 | % | 0.9 | | | | 0.92% |
| Y 371.029 | 857114.8 | 101 | % | 0.8 | | | | 0.83% |
| Ag 328.068† | 107.1 | 0.0010302 | mg/L | 0.00018382 | 0.0010302 | mg/L | 0.00018382 | 17.84% |
| Al 308.215† | 336.1 | 0.0210635 | mg/L | 0.00387291 | 0.0210635 | mg/L | 0.00387291 | 18.39% |
| As 188.979† | 10.4 | 0.0109906 | mg/L | 0.00182296 | 0.0109906 | mg/L | 0.00182296 | 16.59% |
| Ba 233.527† | -44.8 | 0.0011034 | mg/L | 0.00003958 | 0.0011034 | mg/L | 0.00003958 | 3.59% |
| Be 313.107† | 733.0 | 0.0038800 | mg/L | 0.00001191 | 0.0038800 | mg/L | 0.00001191 | 0.31% |
| Ca 315.887† | 14516.7 | 0.376761 | mg/L | 0.0136858 | 0.376761 | mg/L | 0.0136858 | 3.63% |
| Cd 228.802† | 28.2 | 0.0038865 | mg/L | 0.00004003 | 0.0038865 | mg/L | 0.00004003 | 1.03% |
| Co 228.616† | 43.9 | 0.0019572 | mg/L | 0.00033276 | 0.0019572 | mg/L | 0.00033276 | 17.00% |
| Cr 267.716† | -50.9 | 0.0012499 | mg/L | 0.00016469 | 0.0012499 | mg/L | 0.00016469 | 13.18% |
| Cu 327.393† | 239.0 | 0.0033075 | mg/L | 0.00138321 | 0.0033075 | mg/L | 0.00138321 | 41.82% |
| Fe 273.955† | 280.2 | 0.0175624 | mg/L | 0.00030819 | 0.0175624 | mg/L | 0.00030819 | 1.75% |
| K 404.721† | 441.0 | 2.72848 | mg/L | 0.588601 | 2.72848 | mg/L | 0.588601 | 21.57% |
| Mg 279.077† | 462.6 | 0.0201486 | mg/L | 0.01594361 | 0.0201486 | mg/L | 0.01594361 | 79.13% |
| Mn 257.610† | 438.7 | 0.0018404 | mg/L | 0.00005814 | 0.0018404 | mg/L | 0.00005814 | 3.16% |
| Mo 202.031† | 13.3 | 0.0029114 | mg/L | 0.00050627 | 0.0029114 | mg/L | 0.00050627 | 17.39% |
| Na 330.237† | 491.7 | 1.39669 | mg/L | 0.057797 | 1.39669 | mg/L | 0.057797 | 4.14% |
| Ni 231.604† | 94.1 | 0.0037287 | mg/L | 0.00042757 | 0.0037287 | mg/L | 0.00042757 | 11.47% |
| Pb 220.353† | -9.7 | -0.0005432 | mg/L | 0.00242067 | -0.0005432 | mg/L | 0.00242067 | 445.65% |
| Sb 206.836† | -11.5 | -0.0051291 | mg/L | 0.00117207 | -0.0051291 | mg/L | 0.00117207 | 22.85% |
| Se 196.026† | -3.6 | -0.0022321 | mg/L | 0.00506874 | -0.0022321 | mg/L | 0.00506874 | 227.09% |
| Sn 189.927† | 3.2 | 0.0007611 | mg/L | 0.00155737 | 0.0007611 | mg/L | 0.00155737 | 204.61% |
| Ti 334.940† | 371.7 | 0.0038688 | mg/L | 0.00004405 | 0.0038688 | mg/L | 0.00004405 | 1.14% |
| Tl 190.801† | -3.4 | -0.0007274 | mg/L | 0.00201050 | -0.0007274 | mg/L | 0.00201050 | 276.39% |
| V 290.880† | -141.4 | 0.0027420 | mg/L | 0.00040109 | 0.0027420 | mg/L | 0.00040109 | 14.63% |
| Zn 206.200† | 1118.4 | 0.0250394 | mg/L | 0.00019929 | 0.0250394 | mg/L | 0.00019929 | 0.80% |
| Si 251.611† | 1519.7 | -0.0594787 | mg/L | 0.00061028 | -0.0594787 | mg/L | 0.00061028 | 1.03% |
| B 249.772† | 168.3 | 0.0074001 | mg/L | 0.00188835 | 0.0074001 | mg/L | 0.00188835 | 25.52% |
| Ce 413.764 | 152.6 | -0.0169390 | mg/L | 0.00287000 | -0.0169390 | mg/L | 0.00287000 | 16.94% |

Sequence No.: 26
Sample ID: AD26083-035
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 9/29/2021 11:50:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-035

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 725540.4 | 89.6 | % | 0.88 | | | | 0.98% |
| Y 371.029 | 746162.7 | 87.8 | % | 0.70 | | | | 0.79% |
| Ag 328.068† | 191.2 | 0.0015179 | mg/L | 0.00021399 | 0.0015179 | mg/L | 0.00021399 | 14.10% |
| Al 308.215† | 3935.4 | 0.137623 | mg/L | 0.0012717 | 0.137623 | mg/L | 0.0012717 | 0.92% |
| As 188.979† | 16.3 | 0.0153182 | mg/L | 0.00593781 | 0.0153182 | mg/L | 0.00593781 | 38.76% |
| Ba 233.527† | 23322.2 | 0.243020 | mg/L | 0.0022305 | 0.243020 | mg/L | 0.0022305 | 0.92% |
| Be 313.107† | 1045.2 | 0.0039749 | mg/L | 0.00001196 | 0.0039749 | mg/L | 0.00001196 | 0.30% |
| Ca 315.887† | 2666700.2 | 19.5962 | mg/L | 0.14031 | 19.5962 | mg/L | 0.14031 | 0.72% |
| Cd 228.802† | 8.2 | 0.0036336 | mg/L | 0.00020595 | 0.0036336 | mg/L | 0.00020595 | 5.67% |
| Co 228.616† | 52.1 | 0.0028972 | mg/L | 0.00035716 | 0.0028972 | mg/L | 0.00035716 | 12.33% |
| Cr 267.716† | -91.8 | 0.0009031 | mg/L | 0.00016207 | 0.0009031 | mg/L | 0.00016207 | 17.95% |
| Cu 327.393† | 450.5 | 0.0050901 | mg/L | 0.00016823 | 0.0050901 | mg/L | 0.00016823 | 3.31% |
| Fe 273.955† | 8747.3 | 0.299318 | mg/L | 0.0023022 | 0.299318 | mg/L | 0.0023022 | 0.77% |
| K 404.721† | 4951.9 | 35.7040 | mg/L | 1.07041 | 35.7040 | mg/L | 1.07041 | 3.00% |
| Mg 279.077† | 559660.4 | 22.2114 | mg/L | 0.19111 | 22.2114 | mg/L | 0.19111 | 0.86% |
| Mn 257.610† | 8882.0 | 0.0119754 | mg/L | 0.00010068 | 0.0119754 | mg/L | 0.00010068 | 0.84% |
| Mo 202.031† | 70.6 | 0.0073226 | mg/L | 0.00041452 | 0.0073226 | mg/L | 0.00041452 | 5.66% |
| Na 330.237† | 449676.3 | 315.622 | mg/L | 1.6439 | 315.622 | mg/L | 1.6439 | 0.52% |
| Ni 231.604† | 383.6 | 0.0124902 | mg/L | 0.00057096 | 0.0124902 | mg/L | 0.00057096 | 4.57% |
| Pb 220.353† | -49.8 | -0.0097621 | mg/L | 0.00118201 | -0.0097621 | mg/L | 0.00118201 | 12.11% |
| Sb 206.836† | -47.1 | -0.0343574 | mg/L | 0.00247498 | -0.0343574 | mg/L | 0.00247498 | 7.20% |
| Se 196.026† | -11.0 | -0.0094439 | mg/L | 0.00842710 | -0.0094439 | mg/L | 0.00842710 | 89.23% |
| Sn 189.927† | -13.4 | -0.0032840 | mg/L | 0.00139625 | -0.0032840 | mg/L | 0.00139625 | 42.52% |
| Ti 334.940† | 1639.5 | 0.0053199 | mg/L | 0.00021544 | 0.0053199 | mg/L | 0.00021544 | 4.05% |
| Tl 190.801† | -10.8 | -0.0078270 | mg/L | 0.00196503 | -0.0078270 | mg/L | 0.00196503 | 25.11% |
| V 290.880† | -126.3 | 0.0028346 | mg/L | 0.00024570 | 0.0028346 | mg/L | 0.00024570 | 8.67% |
| Zn 206.200† | 1092.1 | 0.0245205 | mg/L | 0.00028174 | 0.0245205 | mg/L | 0.00028174 | 1.15% |
| Si 251.611† | 90570.0 | 1.92011 | mg/L | 0.011708 | 1.92011 | mg/L | 0.011708 | 0.61% |
| B 249.772† | 9540.7 | 0.0989686 | mg/L | 0.00106890 | 0.0989686 | mg/L | 0.00106890 | 1.08% |
| Ce 413.764 | 70.1 | -0.0185479 | mg/L | 0.00235495 | -0.0185479 | mg/L | 0.00235495 | 12.70% |

Sequence No.: 27
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 11:54:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 756166.5 | 93.3 | % | 0.85 | | | | 0.91% |
| Y 371.029 | 781852.2 | 92.0 | % | 0.78 | | | | 0.85% |
| Ag 328.068† | 17303.8 | 0.0979641 | mg/L | 0.00148415 | 0.0979641 | mg/L | 0.00148415 | 1.51% |
| QC value within limits for Ag 328.068 Recovery = 97.96% | | | | | | | | |
| Al 308.215† | 152041.8 | 4.93389 | mg/L | 0.070513 | 4.93389 | mg/L | 0.070513 | 1.43% |
| QC value within limits for Al 308.215 Recovery = 98.68% | | | | | | | | |
| As 188.979† | 674.2 | 0.499134 | mg/L | 0.0038348 | 0.499134 | mg/L | 0.0038348 | 0.77% |
| QC value within limits for As 188.979 Recovery = 99.83% | | | | | | | | |
| Ba 233.527† | 46838.8 | 0.486485 | mg/L | 0.0066164 | 0.486485 | mg/L | 0.0066164 | 1.36% |
| QC value within limits for Ba 233.527 Recovery = 97.30% | | | | | | | | |
| Be 313.107† | 1588137.8 | 0.486157 | mg/L | 0.0007706 | 0.486157 | mg/L | 0.0007706 | 0.16% |
| QC value within limits for Be 313.107 Recovery = 97.23% | | | | | | | | |
| Ca 315.887† | 6725668.8 | 49.0102 | mg/L | 0.06211 | 49.0102 | mg/L | 0.06211 | 0.13% |
| QC value within limits for Ca 315.887 Recovery = 98.02% | | | | | | | | |
| Cd 228.802† | 24197.3 | 0.499656 | mg/L | 0.0062983 | 0.499656 | mg/L | 0.0062983 | 1.26% |
| QC value within limits for Cd 228.802 Recovery = 99.93% | | | | | | | | |
| Co 228.616† | 15586.6 | 0.489891 | mg/L | 0.0060125 | 0.489891 | mg/L | 0.0060125 | 1.23% |
| QC value within limits for Co 228.616 Recovery = 97.98% | | | | | | | | |
| Cr 267.716† | 57696.9 | 0.491275 | mg/L | 0.0071474 | 0.491275 | mg/L | 0.0071474 | 1.45% |
| QC value within limits for Cr 267.716 Recovery = 98.26% | | | | | | | | |
| Cu 327.393† | 57435.2 | 0.492198 | mg/L | 0.0071843 | 0.492198 | mg/L | 0.0071843 | 1.46% |
| QC value within limits for Cu 327.393 Recovery = 98.44% | | | | | | | | |
| Fe 273.955† | 146867.4 | 4.89549 | mg/L | 0.070309 | 4.89549 | mg/L | 0.070309 | 1.44% |
| QC value within limits for Fe 273.955 Recovery = 97.91% | | | | | | | | |
| K 404.721† | 7032.1 | 50.9107 | mg/L | 1.13551 | 50.9107 | mg/L | 1.13551 | 2.23% |
| QC value within limits for K 404.721 Recovery = 101.82% | | | | | | | | |
| Mg 279.077† | 1248066.3 | 49.5301 | mg/L | 0.12099 | 49.5301 | mg/L | 0.12099 | 0.24% |
| QC value within limits for Mg 279.077 Recovery = 99.06% | | | | | | | | |
| Mn 257.610† | 406392.1 | 0.489130 | mg/L | 0.0069338 | 0.489130 | mg/L | 0.0069338 | 1.42% |
| QC value within limits for Mn 257.610 Recovery = 97.83% | | | | | | | | |
| Mo 202.031† | 6278.2 | 0.485027 | mg/L | 0.0061122 | 0.485027 | mg/L | 0.0061122 | 1.26% |
| QC value within limits for Mo 202.031 Recovery = 97.01% | | | | | | | | |
| Na 330.237† | 66933.9 | 47.8761 | mg/L | 0.66024 | 47.8761 | mg/L | 0.66024 | 1.38% |
| QC value within limits for Na 330.237 Recovery = 95.75% | | | | | | | | |
| Ni 231.604† | 16316.1 | 0.494708 | mg/L | 0.0063895 | 0.494708 | mg/L | 0.0063895 | 1.29% |
| QC value within limits for Ni 231.604 Recovery = 98.94% | | | | | | | | |
| Pb 220.353† | 1984.2 | 0.502341 | mg/L | 0.0052146 | 0.502341 | mg/L | 0.0052146 | 1.04% |
| QC value within limits for Pb 220.353 Recovery = 100.47% | | | | | | | | |
| Sb 206.836† | 564.4 | 0.474234 | mg/L | 0.0068194 | 0.474234 | mg/L | 0.0068194 | 1.44% |
| QC value within limits for Sb 206.836 Recovery = 94.85% | | | | | | | | |
| Se 196.026† | 484.6 | 0.472519 | mg/L | 0.0086215 | 0.472519 | mg/L | 0.0086215 | 1.82% |
| QC value within limits for Se 196.026 Recovery = 94.50% | | | | | | | | |
| Sn 189.927† | 2038.7 | 0.495628 | mg/L | 0.0058853 | 0.495628 | mg/L | 0.0058853 | 1.19% |
| QC value within limits for Sn 189.927 Recovery = 99.13% | | | | | | | | |
| Ti 334.940† | 420383.2 | 0.484622 | mg/L | 0.0065413 | 0.484622 | mg/L | 0.0065413 | 1.35% |
| QC value within limits for Ti 334.940 Recovery = 96.92% | | | | | | | | |
| Tl 190.801† | 435.4 | 0.504664 | mg/L | 0.0085213 | 0.504664 | mg/L | 0.0085213 | 1.69% |
| QC value within limits for Tl 190.801 Recovery = 100.93% | | | | | | | | |
| V 290.880† | 79237.6 | 0.487191 | mg/L | 0.0075619 | 0.487191 | mg/L | 0.0075619 | 1.55% |
| QC value within limits for V 290.880 Recovery = 97.44% | | | | | | | | |
| Zn 206.200† | 24487.2 | 0.485403 | mg/L | 0.0061085 | 0.485403 | mg/L | 0.0061085 | 1.26% |
| QC value within limits for Zn 206.200 Recovery = 97.08% | | | | | | | | |
| Si 251.611† | 220065.4 | 4.80067 | mg/L | 0.065800 | 4.80067 | mg/L | 0.065800 | 1.37% |
| QC value within limits for Si 251.611 Recovery = 96.01% | | | | | | | | |
| B 249.772† | 46218.5 | 0.443871 | mg/L | 0.0115443 | 0.443871 | mg/L | 0.0115443 | 2.60% |
| QC value less than the lower limit for B 249.772 Recovery = 88.77% | | | | | | | | |
| Ce 413.764 | 26283.8 | 0.492442 | mg/L | 0.0036592 | 0.492442 | mg/L | 0.0036592 | 0.74% |
| QC value within limits for Ce 413.764 Recovery = 98.49% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 28
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 11:59:03 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 804970.9 | 99.4 | % | 2.35 | | | | 2.36% |
| Y 371.029 | 852835.0 | 100 | % | 2.2 | | | | 2.24% |
| Ag 328.068† | 87.0 | 0.0009147 | mg/L | 0.00037948 | 0.0009147 | mg/L | 0.00037948 | 41.49% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 17.2 | 0.0107357 | mg/L | 0.00335399 | 0.0107357 | mg/L | 0.00335399 | 31.24% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 8.4 | 0.0095288 | mg/L | 0.00245726 | 0.0095288 | mg/L | 0.00245726 | 25.79% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -106.3 | 0.0004663 | mg/L | 0.00005033 | 0.0004663 | mg/L | 0.00005033 | 10.79% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 916.5 | 0.0039358 | mg/L | 0.00004871 | 0.0039358 | mg/L | 0.00004871 | 1.24% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 750.2 | 0.277000 | mg/L | 0.0013836 | 0.277000 | mg/L | 0.0013836 | 0.50% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 28.8 | 0.0038985 | mg/L | 0.00015428 | 0.0038985 | mg/L | 0.00015428 | 3.96% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 39.2 | 0.0018070 | mg/L | 0.00060491 | 0.0018070 | mg/L | 0.00060491 | 33.48% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -39.8 | 0.0013444 | mg/L | 0.00030331 | 0.0013444 | mg/L | 0.00030331 | 22.56% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 113.2 | 0.0022314 | mg/L | 0.00118459 | 0.0022314 | mg/L | 0.00118459 | 53.09% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -221.5 | 0.0008661 | mg/L | 0.00230233 | 0.0008661 | mg/L | 0.00230233 | 265.83% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 495.6 | 3.12738 | mg/L | 1.377503 | 3.12738 | mg/L | 1.377503 | 44.05% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -102.2 | -0.0022623 | mg/L | 0.00172240 | -0.0022623 | mg/L | 0.00172240 | 76.14% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 18.7 | 0.0013362 | mg/L | 0.00001749 | 0.0013362 | mg/L | 0.00001749 | 1.31% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 15.8 | 0.0031027 | mg/L | 0.00054217 | 0.0031027 | mg/L | 0.00054217 | 17.47% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 39.1 | 1.08004 | mg/L | 0.060944 | 1.08004 | mg/L | 0.060944 | 5.64% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 113.2 | 0.0043052 | mg/L | 0.00025576 | 0.0043052 | mg/L | 0.00025576 | 5.94% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -13.1 | -0.0014072 | mg/L | 0.00211927 | -0.0014072 | mg/L | 0.00211927 | 150.61% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -14.2 | -0.0072840 | mg/L | 0.00106224 | -0.0072840 | mg/L | 0.00106224 | 14.58% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -4.5 | -0.0031111 | mg/L | 0.00460588 | -0.0031111 | mg/L | 0.00460588 | 148.05% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -6.6 | -0.0016131 | mg/L | 0.00044244 | -0.0016131 | mg/L | 0.00044244 | 27.43% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 71.6 | 0.0035253 | mg/L | 0.00007818 | 0.0035253 | mg/L | 0.00007818 | 2.22% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -5.3 | -0.0029695 | mg/L | 0.00240108 | -0.0029695 | mg/L | 0.00240108 | 80.86% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -83.7 | 0.0030942 | mg/L | 0.00105451 | 0.0030942 | mg/L | 0.00105451 | 34.08% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 4.9 | 0.0031032 | mg/L | 0.00012966 | 0.0031032 | mg/L | 0.00012966 | 4.18% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 301.7 | -0.0865603 | mg/L | 0.00021307 | -0.0865603 | mg/L | 0.00021307 | 0.25% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -535.3 | 0.0005088 | mg/L | 0.00154890 | 0.0005088 | mg/L | 0.00154890 | 304.44% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | 10.3 | -0.0197137 | mg/L | 0.00223621 | -0.0197137 | mg/L | 0.00223621 | 11.34% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: MB 94428 (1)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 9/29/2021 12:02:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 94428 (1)

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 813036.2 | 100 | % | 0.6 | | | | 0.64% |
| Y 371.029 | 860118.8 | 101 | % | 0.6 | | | | 0.62% |
| Ag 328.068† | 64.3 | 0.0007941 | mg/L | 0.00013318 | 0.0007941 | mg/L | 0.00013318 | 16.77% |
| Al 308.215† | 375.5 | 0.0223419 | mg/L | 0.00122472 | 0.0223419 | mg/L | 0.00122472 | 5.48% |
| As 188.979† | 9.2 | 0.0101302 | mg/L | 0.00210272 | 0.0101302 | mg/L | 0.00210272 | 20.76% |
| Ba 233.527† | -56.5 | 0.0009824 | mg/L | 0.00021014 | 0.0009824 | mg/L | 0.00021014 | 21.39% |
| Be 313.107† | 747.4 | 0.0038844 | mg/L | 0.00000935 | 0.0038844 | mg/L | 0.00000935 | 0.24% |
| Ca 315.887† | 23274.0 | 0.440222 | mg/L | 0.0016630 | 0.440222 | mg/L | 0.0016630 | 0.38% |
| Cd 228.802† | 15.4 | 0.0036395 | mg/L | 0.00020072 | 0.0036395 | mg/L | 0.00020072 | 5.52% |
| Co 228.616† | 48.6 | 0.0021049 | mg/L | 0.00059500 | 0.0021049 | mg/L | 0.00059500 | 28.27% |
| Cr 267.716† | 7.8 | 0.0017480 | mg/L | 0.00043382 | 0.0017480 | mg/L | 0.00043382 | 24.82% |
| Cu 327.393† | 322.3 | 0.0040203 | mg/L | 0.00048838 | 0.0040203 | mg/L | 0.00048838 | 12.15% |
| Fe 273.955† | 1923.3 | 0.0722387 | mg/L | 0.00074443 | 0.0722387 | mg/L | 0.00074443 | 1.03% |
| K 404.721† | 452.4 | 2.81180 | mg/L | 0.490939 | 2.81180 | mg/L | 0.490939 | 17.46% |
| Mg 279.077† | -13.2 | 0.0012675 | mg/L | 0.00554623 | 0.0012675 | mg/L | 0.00554623 | 437.57% |
| Mn 257.610† | 2065.8 | 0.0037935 | mg/L | 0.00006151 | 0.0037935 | mg/L | 0.00006151 | 1.62% |
| Mo 202.031† | 5.0 | 0.0022722 | mg/L | 0.00023176 | 0.0022722 | mg/L | 0.00023176 | 10.20% |
| Na 330.237† | 438.2 | 1.35923 | mg/L | 0.081525 | 1.35923 | mg/L | 0.081525 | 6.00% |
| Ni 231.604† | 96.1 | 0.0037893 | mg/L | 0.00043240 | 0.0037893 | mg/L | 0.00043240 | 11.41% |
| Pb 220.353† | 1.5 | 0.0022542 | mg/L | 0.00139082 | 0.0022542 | mg/L | 0.00139082 | 61.70% |
| Sb 206.836† | -6.2 | -0.0007345 | mg/L | 0.00293648 | -0.0007345 | mg/L | 0.00293648 | 399.79% |
| Se 196.026† | -5.6 | -0.0041680 | mg/L | 0.00301142 | -0.0041680 | mg/L | 0.00301142 | 72.25% |
| Sn 189.927† | 7.0 | 0.0016729 | mg/L | 0.00009781 | 0.0016729 | mg/L | 0.00009781 | 5.85% |
| Ti 334.940† | 189.0 | 0.0036596 | mg/L | 0.00003014 | 0.0036596 | mg/L | 0.00003014 | 0.82% |
| Tl 190.801† | -9.3 | -0.0074226 | mg/L | 0.00134716 | -0.0074226 | mg/L | 0.00134716 | 18.15% |
| V 290.880† | -160.2 | 0.0026275 | mg/L | 0.00040065 | 0.0026275 | mg/L | 0.00040065 | 15.25% |
| Zn 206.200† | 354.8 | 0.0099962 | mg/L | 0.00007758 | 0.0099962 | mg/L | 0.00007758 | 0.78% |
| Si 251.611† | 800.7 | -0.0754364 | mg/L | 0.00071152 | -0.0754364 | mg/L | 0.00071152 | 0.94% |
| B 249.772† | -1014.1 | -0.0044992 | mg/L | 0.00051321 | -0.0044992 | mg/L | 0.00051321 | 11.41% |
| Ce 413.764 | 137.6 | -0.0172305 | mg/L | 0.00014886 | -0.0172305 | mg/L | 0.00014886 | 0.86% |

Sequence No.: 30
Sample ID: LCS 94428
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 9/29/2021 12:06:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS 94428

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 765690.1 | 94.5 | % | 0.75 | | | | 0.80% |
| Y 371.029 | 791214.6 | 93.1 | % | 0.77 | | | | 0.82% |
| Ag 328.068† | 17414.0 | 0.0986344 | mg/L | 0.00053918 | 0.0986344 | mg/L | 0.00053918 | 0.55% |
| Al 308.215† | 156188.0 | 5.06816 | mg/L | 0.048761 | 5.06816 | mg/L | 0.048761 | 0.96% |
| As 188.979† | 693.9 | 0.513647 | mg/L | 0.0059092 | 0.513647 | mg/L | 0.0059092 | 1.15% |
| Ba 233.527† | 48068.0 | 0.499210 | mg/L | 0.0042859 | 0.499210 | mg/L | 0.0042859 | 0.86% |
| Be 313.107† | 1640947.6 | 0.502202 | mg/L | 0.0001129 | 0.502202 | mg/L | 0.0001129 | 0.02% |
| Ca 315.887† | 6922917.5 | 50.4396 | mg/L | 0.03510 | 50.4396 | mg/L | 0.03510 | 0.07% |
| Cd 228.802† | 24924.5 | 0.514629 | mg/L | 0.0050385 | 0.514629 | mg/L | 0.0050385 | 0.98% |
| Co 228.616† | 16202.0 | 0.509205 | mg/L | 0.0045596 | 0.509205 | mg/L | 0.0045596 | 0.90% |
| Cr 267.716† | 59689.7 | 0.508186 | mg/L | 0.0047251 | 0.508186 | mg/L | 0.0047251 | 0.93% |
| Cu 327.393† | 59724.2 | 0.511765 | mg/L | 0.0042726 | 0.511765 | mg/L | 0.0042726 | 0.83% |
| Fe 273.955† | 152570.6 | 5.08527 | mg/L | 0.045779 | 5.08527 | mg/L | 0.045779 | 0.90% |
| K 404.721† | 7092.3 | 51.3509 | mg/L | 1.42423 | 51.3509 | mg/L | 1.42423 | 2.77% |
| Mg 279.077† | 1279834.2 | 50.7908 | mg/L | 0.05591 | 50.7908 | mg/L | 0.05591 | 0.11% |
| Mn 257.610† | 417690.0 | 0.502692 | mg/L | 0.0046085 | 0.502692 | mg/L | 0.0046085 | 0.92% |
| Mo 202.031† | 6519.6 | 0.503601 | mg/L | 0.0048191 | 0.503601 | mg/L | 0.0048191 | 0.96% |
| Na 330.237† | 68395.1 | 48.8983 | mg/L | 0.30246 | 48.8983 | mg/L | 0.30246 | 0.62% |
| Ni 231.604† | 16959.6 | 0.514184 | mg/L | 0.0049619 | 0.514184 | mg/L | 0.0049619 | 0.97% |
| Pb 220.353† | 2063.9 | 0.522377 | mg/L | 0.0037067 | 0.522377 | mg/L | 0.0037067 | 0.71% |
| Sb 206.836† | 590.4 | 0.495820 | mg/L | 0.0007466 | 0.495820 | mg/L | 0.0007466 | 0.15% |
| Se 196.026† | 493.9 | 0.481522 | mg/L | 0.0028372 | 0.481522 | mg/L | 0.0028372 | 0.59% |
| Sn 189.927† | 2077.7 | 0.505113 | mg/L | 0.0040939 | 0.505113 | mg/L | 0.0040939 | 0.81% |
| Ti 334.940† | 432916.7 | 0.498968 | mg/L | 0.0049994 | 0.498968 | mg/L | 0.0049994 | 1.00% |
| Tl 190.801† | 440.2 | 0.510460 | mg/L | 0.0022986 | 0.510460 | mg/L | 0.0022986 | 0.45% |
| V 290.880† | 81597.8 | 0.501595 | mg/L | 0.0052166 | 0.501595 | mg/L | 0.0052166 | 1.04% |
| Zn 206.200† | 25377.8 | 0.502949 | mg/L | 0.0051790 | 0.502949 | mg/L | 0.0051790 | 1.03% |
| Si 251.611† | 26052.0 | 0.488122 | mg/L | 0.0051702 | 0.488122 | mg/L | 0.0051702 | 1.06% |
| B 249.772† | 48188.3 | 0.462615 | mg/L | 0.0096139 | 0.462615 | mg/L | 0.0096139 | 2.08% |
| Ce 413.764 | 29097.5 | 0.547290 | mg/L | 0.0027578 | 0.547290 | mg/L | 0.0027578 | 0.50% |

Sequence No.: 31
Sample ID: LCS MR 94428
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 9/29/2021 12:10:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS MR 94428

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 767653.3 | 94.8 | % | 0.22 | | | | 0.23% |
| Y 371.029 | 793435.7 | 93.3 | % | 0.18 | | | | 0.19% |
| Ag 328.068† | 17373.6 | 0.0984108 | mg/L | 0.00076203 | 0.0984108 | mg/L | 0.00076203 | 0.77% |
| Al 308.215† | 155907.2 | 5.05907 | mg/L | 0.010115 | 5.05907 | mg/L | 0.010115 | 0.20% |
| As 188.979† | 684.2 | 0.506497 | mg/L | 0.0025386 | 0.506497 | mg/L | 0.0025386 | 0.50% |
| Ba 233.527† | 48192.8 | 0.500503 | mg/L | 0.0009822 | 0.500503 | mg/L | 0.0009822 | 0.20% |
| Be 313.107† | 1638258.6 | 0.501385 | mg/L | 0.0007358 | 0.501385 | mg/L | 0.0007358 | 0.15% |
| Ca 315.887† | 6902713.6 | 50.2932 | mg/L | 0.05244 | 50.2932 | mg/L | 0.05244 | 0.10% |
| Cd 228.802† | 24784.7 | 0.511763 | mg/L | 0.0031181 | 0.511763 | mg/L | 0.0031181 | 0.61% |
| Co 228.616† | 16082.3 | 0.505448 | mg/L | 0.0040322 | 0.505448 | mg/L | 0.0040322 | 0.80% |
| Cr 267.716† | 59819.8 | 0.509289 | mg/L | 0.0017039 | 0.509289 | mg/L | 0.0017039 | 0.33% |
| Cu 327.393† | 59918.7 | 0.513428 | mg/L | 0.0014222 | 0.513428 | mg/L | 0.0014222 | 0.28% |
| Fe 273.955† | 151388.0 | 5.04592 | mg/L | 0.010053 | 5.04592 | mg/L | 0.010053 | 0.20% |
| K 404.721† | 7093.8 | 51.3621 | mg/L | 0.24674 | 51.3621 | mg/L | 0.24674 | 0.48% |
| Mg 279.077† | 1276353.8 | 50.6526 | mg/L | 0.02882 | 50.6526 | mg/L | 0.02882 | 0.06% |
| Mn 257.610† | 418333.8 | 0.503464 | mg/L | 0.0012068 | 0.503464 | mg/L | 0.0012068 | 0.24% |
| Mo 202.031† | 6463.7 | 0.499300 | mg/L | 0.0027714 | 0.499300 | mg/L | 0.0027714 | 0.56% |
| Na 330.237† | 68564.3 | 49.0166 | mg/L | 0.09097 | 49.0166 | mg/L | 0.09097 | 0.19% |
| Ni 231.604† | 16883.5 | 0.511880 | mg/L | 0.0036944 | 0.511880 | mg/L | 0.0036944 | 0.72% |
| Pb 220.353† | 2046.2 | 0.517956 | mg/L | 0.0036394 | 0.517956 | mg/L | 0.0036394 | 0.70% |
| Sb 206.836† | 584.5 | 0.490951 | mg/L | 0.0028181 | 0.490951 | mg/L | 0.0028181 | 0.57% |
| Se 196.026† | 497.5 | 0.485077 | mg/L | 0.0077429 | 0.485077 | mg/L | 0.0077429 | 1.60% |
| Sn 189.927† | 2068.6 | 0.502890 | mg/L | 0.0026548 | 0.502890 | mg/L | 0.0026548 | 0.53% |
| Ti 334.940† | 433891.4 | 0.500084 | mg/L | 0.0013439 | 0.500084 | mg/L | 0.0013439 | 0.27% |
| Tl 190.801† | 444.7 | 0.515565 | mg/L | 0.0045191 | 0.515565 | mg/L | 0.0045191 | 0.88% |
| V 290.880† | 81889.1 | 0.503372 | mg/L | 0.0013863 | 0.503372 | mg/L | 0.0013863 | 0.28% |
| Zn 206.200† | 25097.3 | 0.497424 | mg/L | 0.0035948 | 0.497424 | mg/L | 0.0035948 | 0.72% |
| Si 251.611† | 25982.6 | 0.486563 | mg/L | 0.0029474 | 0.486563 | mg/L | 0.0029474 | 0.61% |
| B 249.772† | 49101.5 | 0.471794 | mg/L | 0.0046945 | 0.471794 | mg/L | 0.0046945 | 1.00% |
| Ce 413.764 | 29441.6 | 0.553997 | mg/L | 0.0038687 | 0.553997 | mg/L | 0.0038687 | 0.70% |

Sequence No.: 32
Sample ID: AD26083-040
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 9/29/2021 12:15:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 690611.1 | 85.2 | % | 0.49 | | | | 0.57% |
| Y 371.029 | 704467.1 | 82.9 | % | 0.48 | | | | 0.57% |
| Ag 328.068† | -80.4 | 0.0007500 | mg/L | 0.00011179 | 0.0007500 | mg/L | 0.00011179 | 14.91% |
| Al 308.215† | 6941.0 | 0.234955 | mg/L | 0.0032274 | 0.234955 | mg/L | 0.0032274 | 1.37% |
| As 188.979† | 17.5 | 0.0162364 | mg/L | 0.00264245 | 0.0162364 | mg/L | 0.00264245 | 16.27% |
| Ba 233.527† | 227404.6 | 2.35587 | mg/L | 0.008294 | 2.35587 | mg/L | 0.008294 | 0.35% |
| Be 313.107† | 1785.4 | 0.0041998 | mg/L | 0.00002379 | 0.0041998 | mg/L | 0.00002379 | 0.57% |
| Ca 315.887† | 13869959.4 | 100.782 | mg/L | 2.0227 | 100.782 | mg/L | 2.0227 | 2.01% |
| Cd 228.802† | -107.2 | 0.0042883 | mg/L | 0.00025752 | 0.0042883 | mg/L | 0.00025752 | 6.01% |
| Co 228.616† | 158.4 | 0.0122074 | mg/L | 0.00079937 | 0.0122074 | mg/L | 0.00079937 | 6.55% |
| Cr 267.716† | 296.9 | 0.0042010 | mg/L | 0.00035611 | 0.0042010 | mg/L | 0.00035611 | 8.48% |
| Cu 327.393† | -1354.3 | -0.0108505 | mg/L | 0.00012904 | -0.0108505 | mg/L | 0.00012904 | 1.19% |
| Fe 273.955† | 352983.4 | 11.7543 | mg/L | 0.04210 | 11.7543 | mg/L | 0.04210 | 0.36% |
| K 404.721† | 16639.7 | 121.145 | mg/L | 0.3223 | 121.145 | mg/L | 0.3223 | 0.27% |
| Mg 279.077† | 3805340.9 | 151.013 | mg/L | 0.7795 | 151.013 | mg/L | 0.7795 | 0.52% |
| Mn 257.610† | 473814.9 | 0.570061 | mg/L | 0.0019188 | 0.570061 | mg/L | 0.0019188 | 0.34% |
| Mo 202.031† | 108.9 | 0.0102746 | mg/L | 0.00028090 | 0.0102746 | mg/L | 0.00028090 | 2.73% |
| Na 330.237† | 2240885.2 | 1568.66 | mg/L | 7.202 | 1568.66 | mg/L | 7.202 | 0.46% |
| Ni 231.604† | 1028.0 | 0.0319940 | mg/L | 0.00063129 | 0.0319940 | mg/L | 0.00063129 | 1.97% |
| Pb 220.353† | -55.2 | -0.0066264 | mg/L | 0.00198683 | -0.0066264 | mg/L | 0.00198683 | 29.98% |
| Sb 206.836† | -79.4 | -0.0608672 | mg/L | 0.00325049 | -0.0608672 | mg/L | 0.00325049 | 5.34% |
| Se 196.026† | -32.1 | -0.0293899 | mg/L | 0.00327390 | -0.0293899 | mg/L | 0.00327390 | 11.14% |
| Sn 189.927† | -14.5 | -0.0035433 | mg/L | 0.00284548 | -0.0035433 | mg/L | 0.00284548 | 80.31% |
| Ti 334.940† | 10201.9 | 0.0151206 | mg/L | 0.00046130 | 0.0151206 | mg/L | 0.00046130 | 3.05% |
| Tl 190.801† | -19.5 | -0.0121996 | mg/L | 0.00218090 | -0.0121996 | mg/L | 0.00218090 | 17.88% |
| V 290.880† | 580.6 | 0.0071488 | mg/L | 0.00051409 | 0.0071488 | mg/L | 0.00051409 | 7.19% |
| Zn 206.200† | 240.9 | 0.0077529 | mg/L | 0.00001486 | 0.0077529 | mg/L | 0.00001486 | 0.19% |
| Si 251.611† | 431583.6 | 9.50550 | mg/L | 0.046149 | 9.50550 | mg/L | 0.046149 | 0.49% |
| B 249.772† | 196376.7 | 1.90190 | mg/L | 0.025038 | 1.90190 | mg/L | 0.025038 | 1.32% |
| Ce 413.764 | -58.4 | -0.0210524 | mg/L | 0.00051499 | -0.0210524 | mg/L | 0.00051499 | 2.45% |

Sequence No.: 33
Sample ID: AD26083-040 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 9/29/2021 12:19:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040 MR

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 667648.6 | 82.4 | % | 1.76 | | | | 2.13% |
| Y 371.029 | 681883.1 | 80.2 | % | 1.70 | | | | 2.12% |
| Ag 328.068† | -99.1 | 0.0006526 | mg/L | 0.00013824 | 0.0006526 | mg/L | 0.00013824 | 21.18% |
| Al 308.215† | 6726.6 | 0.228015 | mg/L | 0.0064472 | 0.228015 | mg/L | 0.0064472 | 2.83% |
| As 188.979† | 18.9 | 0.0172724 | mg/L | 0.00478181 | 0.0172724 | mg/L | 0.00478181 | 27.68% |
| Ba 233.527† | 229975.8 | 2.38249 | mg/L | 0.004310 | 2.38249 | mg/L | 0.004310 | 0.18% |
| Be 313.107† | 2088.6 | 0.0042919 | mg/L | 0.00001975 | 0.0042919 | mg/L | 0.00001975 | 0.46% |
| Ca 315.887† | 13942926.7 | 101.311 | mg/L | 1.4308 | 101.311 | mg/L | 1.4308 | 1.41% |
| Cd 228.802† | -115.5 | 0.0041565 | mg/L | 0.00030627 | 0.0041565 | mg/L | 0.00030627 | 7.37% |
| Co 228.616† | 156.1 | 0.0122149 | mg/L | 0.00040233 | 0.0122149 | mg/L | 0.00040233 | 3.29% |
| Cr 267.716† | 232.4 | 0.0036542 | mg/L | 0.00016306 | 0.0036542 | mg/L | 0.00016306 | 4.46% |
| Cu 327.393† | -1591.0 | -0.0128826 | mg/L | 0.00088694 | -0.0128826 | mg/L | 0.00088694 | 6.88% |
| Fe 273.955† | 355854.6 | 11.8499 | mg/L | 0.02293 | 11.8499 | mg/L | 0.02293 | 0.19% |
| K 404.721† | 17230.4 | 125.463 | mg/L | 1.8538 | 125.463 | mg/L | 1.8538 | 1.48% |
| Mg 279.077† | 3838555.6 | 152.331 | mg/L | 0.6054 | 152.331 | mg/L | 0.6054 | 0.40% |
| Mn 257.610† | 478448.5 | 0.575623 | mg/L | 0.0009175 | 0.575623 | mg/L | 0.0009175 | 0.16% |
| Mo 202.031† | 116.8 | 0.0108825 | mg/L | 0.00074542 | 0.0108825 | mg/L | 0.00074542 | 6.85% |
| Na 330.237† | 2305721.8 | 1614.01 | mg/L | 7.839 | 1614.01 | mg/L | 7.839 | 0.49% |
| Ni 231.604† | 1069.2 | 0.0332412 | mg/L | 0.00140676 | 0.0332412 | mg/L | 0.00140676 | 4.23% |
| Pb 220.353† | -63.3 | -0.0086253 | mg/L | 0.00186378 | -0.0086253 | mg/L | 0.00186378 | 21.61% |
| Sb 206.836† | -91.2 | -0.0705655 | mg/L | 0.00722055 | -0.0705655 | mg/L | 0.00722055 | 10.23% |
| Se 196.026† | -36.2 | -0.0333082 | mg/L | 0.00191012 | -0.0333082 | mg/L | 0.00191012 | 5.73% |
| Sn 189.927† | -22.4 | -0.0054666 | mg/L | 0.00314719 | -0.0054666 | mg/L | 0.00314719 | 57.57% |
| Ti 334.940† | 9272.0 | 0.0140562 | mg/L | 0.00011465 | 0.0140562 | mg/L | 0.00011465 | 0.82% |
| Tl 190.801† | -18.7 | -0.0112480 | mg/L | 0.00595976 | -0.0112480 | mg/L | 0.00595976 | 52.98% |
| V 290.880† | 613.3 | 0.0073481 | mg/L | 0.00042687 | 0.0073481 | mg/L | 0.00042687 | 5.81% |
| Zn 206.200† | 316.2 | 0.0092359 | mg/L | 0.00023530 | 0.0092359 | mg/L | 0.00023530 | 2.55% |
| Si 251.611† | 434807.5 | 9.57720 | mg/L | 0.021542 | 9.57720 | mg/L | 0.021542 | 0.22% |
| B 249.772† | 198708.0 | 1.92458 | mg/L | 0.009506 | 1.92458 | mg/L | 0.009506 | 0.49% |
| Ce 413.764 | -16.7 | -0.0202390 | mg/L | 0.00257225 | -0.0202390 | mg/L | 0.00257225 | 12.71% |

Sequence No.: 34
Sample ID: AD26083-042 MS 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 9/29/2021 12:23:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-042 MS 1

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 678199.2 | 83.7 | % | 1.13 | | | | 1.35% |
| Y 371.029 | 692311.0 | 81.4 | % | 1.14 | | | | 1.40% |
| Ag 328.068† | 17996.4 | 0.102596 | mg/L | 0.0004839 | 0.102596 | mg/L | 0.0004839 | 0.47% |
| Al 308.215† | 158291.1 | 5.13626 | mg/L | 0.008433 | 5.13626 | mg/L | 0.008433 | 0.16% |
| As 188.979† | 754.9 | 0.558561 | mg/L | 0.0012677 | 0.558561 | mg/L | 0.0012677 | 0.23% |
| Ba 233.527† | 278614.0 | 2.88603 | mg/L | 0.003170 | 2.88603 | mg/L | 0.003170 | 0.11% |
| Be 313.107† | 1660536.0 | 0.508153 | mg/L | 0.0012752 | 0.508153 | mg/L | 0.0012752 | 0.25% |
| Ca 315.887† | 20754096.2 | 150.669 | mg/L | 2.3120 | 150.669 | mg/L | 2.3120 | 1.53% |
| Cd 228.802† | 26107.9 | 0.541723 | mg/L | 0.0029949 | 0.541723 | mg/L | 0.0029949 | 0.55% |
| Co 228.616† | 16465.6 | 0.524209 | mg/L | 0.0019999 | 0.524209 | mg/L | 0.0019999 | 0.38% |
| Cr 267.716† | 59217.9 | 0.504181 | mg/L | 0.0009803 | 0.504181 | mg/L | 0.0009803 | 0.19% |
| Cu 327.393† | 59879.1 | 0.512549 | mg/L | 0.0016379 | 0.512549 | mg/L | 0.0016379 | 0.32% |
| Fe 273.955† | 505720.3 | 16.8369 | mg/L | 0.04896 | 16.8369 | mg/L | 0.04896 | 0.29% |
| K 404.721† | 25564.3 | 186.386 | mg/L | 0.5148 | 186.386 | mg/L | 0.5148 | 0.28% |
| Mg 279.077† | 5081984.0 | 201.675 | mg/L | 3.1668 | 201.675 | mg/L | 3.1668 | 1.57% |
| Mn 257.610† | 891646.5 | 1.07161 | mg/L | 0.002096 | 1.07161 | mg/L | 0.002096 | 0.20% |
| Mo 202.031† | 6674.7 | 0.515530 | mg/L | 0.0017059 | 0.515530 | mg/L | 0.0017059 | 0.33% |
| Na 330.237† | 2362202.9 | 1653.52 | mg/L | 1.152 | 1653.52 | mg/L | 1.152 | 0.07% |
| Ni 231.604† | 17755.0 | 0.538258 | mg/L | 0.0023574 | 0.538258 | mg/L | 0.0023574 | 0.44% |
| Pb 220.353† | 2039.4 | 0.521464 | mg/L | 0.0032227 | 0.521464 | mg/L | 0.0032227 | 0.62% |
| Sb 206.836† | 548.0 | 0.461065 | mg/L | 0.0053774 | 0.461065 | mg/L | 0.0053774 | 1.17% |
| Se 196.026† | 514.8 | 0.502496 | mg/L | 0.0012064 | 0.502496 | mg/L | 0.0012064 | 0.24% |
| Sn 189.927† | 2152.4 | 0.523273 | mg/L | 0.0019971 | 0.523273 | mg/L | 0.0019971 | 0.38% |
| Ti 334.940† | 448642.2 | 0.516968 | mg/L | 0.0005804 | 0.516968 | mg/L | 0.0005804 | 0.11% |
| Tl 190.801† | 422.9 | 0.497235 | mg/L | 0.0023120 | 0.497235 | mg/L | 0.0023120 | 0.46% |
| V 290.880† | 83874.0 | 0.515487 | mg/L | 0.0010580 | 0.515487 | mg/L | 0.0010580 | 0.21% |
| Zn 206.200† | 26769.8 | 0.530371 | mg/L | 0.0035778 | 0.530371 | mg/L | 0.0035778 | 0.67% |
| Si 251.611† | 475563.5 | 10.4854 | mg/L | 0.03090 | 10.4854 | mg/L | 0.03090 | 0.29% |
| B 249.772† | 253498.2 | 2.44704 | mg/L | 0.028239 | 2.44704 | mg/L | 0.028239 | 1.15% |
| Ce 413.764 | 24227.9 | 0.452366 | mg/L | 0.0062352 | 0.452366 | mg/L | 0.0062352 | 1.38% |

Sequence No.: 35
Sample ID: AD26083-043 MS 2
Analyst:
Initial Sample Wt: -044 OM
Dilution:

Autosampler Location: 48
Date Collected: 9/29/2021 12:28:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-043 MS 2

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 666245.7 | 82.2 | % | 1.16 | | | | 1.41% |
| Y 371.029 | 679501.0 | 79.9 | % | 1.09 | | | | 1.36% |
| Ag 328.068† | 17884.7 | 0.101966 | mg/L | 0.0017846 | 0.101966 | mg/L | 0.0017846 | 1.75% |
| Al 308.215† | 158081.7 | 5.12948 | mg/L | 0.074098 | 5.12948 | mg/L | 0.074098 | 1.44% |
| As 188.979† | 732.9 | 0.542356 | mg/L | 0.0093503 | 0.542356 | mg/L | 0.0093503 | 1.72% |
| Ba 233.527† | 279907.1 | 2.89942 | mg/L | 0.036703 | 2.89942 | mg/L | 0.036703 | 1.27% |
| Be 313.107† | 1647159.6 | 0.504089 | mg/L | 0.0063482 | 0.504089 | mg/L | 0.0063482 | 1.26% |
| Ca 315.887† | 20970239.7 | 152.236 | mg/L | 1.2825 | 152.236 | mg/L | 1.2825 | 0.84% |
| Cd 228.802† | 25751.7 | 0.534450 | mg/L | 0.0106545 | 0.534450 | mg/L | 0.0106545 | 1.99% |
| Co 228.616† | 16235.6 | 0.517036 | mg/L | 0.0102875 | 0.517036 | mg/L | 0.0102875 | 1.99% |
| Cr 267.716† | 58874.4 | 0.501267 | mg/L | 0.0067479 | 0.501267 | mg/L | 0.0067479 | 1.35% |
| Cu 327.393† | 59380.0 | 0.508301 | mg/L | 0.0052379 | 0.508301 | mg/L | 0.0052379 | 1.03% |
| Fe 273.955† | 507143.1 | 16.8843 | mg/L | 0.21036 | 16.8843 | mg/L | 0.21036 | 1.25% |
| K 404.721† | 25964.8 | 189.313 | mg/L | 2.6179 | 189.313 | mg/L | 2.6179 | 1.38% |
| Mg 279.077† | 5085557.3 | 201.817 | mg/L | 2.5630 | 201.817 | mg/L | 2.5630 | 1.27% |
| Mn 257.610† | 892436.6 | 1.07256 | mg/L | 0.014009 | 1.07256 | mg/L | 0.014009 | 1.31% |
| Mo 202.031† | 6590.9 | 0.509091 | mg/L | 0.0105075 | 0.509091 | mg/L | 0.0105075 | 2.06% |
| Na 330.237† | 2389188.1 | 1672.40 | mg/L | 26.202 | 1672.40 | mg/L | 26.202 | 1.57% |
| Ni 231.604† | 17530.1 | 0.531452 | mg/L | 0.0106325 | 0.531452 | mg/L | 0.0106325 | 2.00% |
| Pb 220.353† | 2013.6 | 0.515031 | mg/L | 0.0074384 | 0.515031 | mg/L | 0.0074384 | 1.44% |
| Sb 206.836† | 535.1 | 0.450364 | mg/L | 0.0057286 | 0.450364 | mg/L | 0.0057286 | 1.27% |
| Se 196.026† | 493.6 | 0.481924 | mg/L | 0.0082629 | 0.481924 | mg/L | 0.0082629 | 1.71% |
| Sn 189.927† | 2142.3 | 0.520813 | mg/L | 0.0095256 | 0.520813 | mg/L | 0.0095256 | 1.83% |
| Ti 334.940† | 446670.1 | 0.514711 | mg/L | 0.0067046 | 0.514711 | mg/L | 0.0067046 | 1.30% |
| Tl 190.801† | 418.4 | 0.492168 | mg/L | 0.0177616 | 0.492168 | mg/L | 0.0177616 | 3.61% |
| V 290.880† | 83279.1 | 0.511856 | mg/L | 0.0078008 | 0.511856 | mg/L | 0.0078008 | 1.52% |
| Zn 206.200† | 26309.0 | 0.521293 | mg/L | 0.0110069 | 0.521293 | mg/L | 0.0110069 | 2.11% |
| Si 251.611† | 482029.7 | 10.6292 | mg/L | 0.15883 | 10.6292 | mg/L | 0.15883 | 1.49% |
| B 249.772† | 254927.0 | 2.46098 | mg/L | 0.039681 | 2.46098 | mg/L | 0.039681 | 1.61% |
| Ce 413.764 | 23668.4 | 0.441458 | mg/L | 0.0033512 | 0.441458 | mg/L | 0.0033512 | 0.76% |

Sequence No.: 36
Sample ID: AD26083-040 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 9/29/2021 12:32:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040 PS

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 673064.4 | 83.1 | % | 1.45 | | | | 1.75% |
| Y 371.029 | 686571.2 | 80.8 | % | 1.35 | | | | 1.67% |
| Ag 328.068† | 10583.9 | 0.0611090 | mg/L | 0.00052581 | 0.0611090 | mg/L | 0.00052581 | 0.86% |
| Al 308.215† | 171967.5 | 5.57916 | mg/L | 0.029644 | 5.57916 | mg/L | 0.029644 | 0.53% |
| As 188.979† | 817.7 | 0.604678 | mg/L | 0.0070160 | 0.604678 | mg/L | 0.0070160 | 1.16% |
| Ba 233.527† | 274309.1 | 2.84146 | mg/L | 0.012840 | 2.84146 | mg/L | 0.012840 | 0.45% |
| Be 313.107† | 1828312.4 | 0.559126 | mg/L | 0.0004527 | 0.559126 | mg/L | 0.0004527 | 0.08% |
| Ca 315.887† | 20512515.4 | 148.919 | mg/L | 1.6926 | 148.919 | mg/L | 1.6926 | 1.14% |
| Cd 228.802† | 28541.3 | 0.591477 | mg/L | 0.0128296 | 0.591477 | mg/L | 0.0128296 | 2.17% |
| Co 228.616† | 17966.8 | 0.571068 | mg/L | 0.0124254 | 0.571068 | mg/L | 0.0124254 | 2.18% |
| Cr 267.716† | 65332.6 | 0.556069 | mg/L | 0.0014922 | 0.556069 | mg/L | 0.0014922 | 0.27% |
| Cu 327.393† | 66277.7 | 0.567249 | mg/L | 0.0002764 | 0.567249 | mg/L | 0.0002764 | 0.05% |
| Fe 273.955† | 505393.1 | 16.8260 | mg/L | 0.06962 | 16.8260 | mg/L | 0.06962 | 0.41% |
| K 404.721† | 25580.1 | 186.501 | mg/L | 2.4214 | 186.501 | mg/L | 2.4214 | 1.30% |
| Mg 279.077† | 5017389.0 | 199.112 | mg/L | 1.3976 | 199.112 | mg/L | 1.3976 | 0.70% |
| Mn 257.610† | 915289.3 | 1.09999 | mg/L | 0.003625 | 1.09999 | mg/L | 0.003625 | 0.33% |
| Mo 202.031† | 7263.0 | 0.560807 | mg/L | 0.0113700 | 0.560807 | mg/L | 0.0113700 | 2.03% |
| Na 330.237† | 2288568.6 | 1602.01 | mg/L | 15.053 | 1602.01 | mg/L | 15.053 | 0.94% |
| Ni 231.604† | 19255.1 | 0.583661 | mg/L | 0.0109130 | 0.583661 | mg/L | 0.0109130 | 1.87% |
| Pb 220.353† | 2235.7 | 0.570705 | mg/L | 0.0101155 | 0.570705 | mg/L | 0.0101155 | 1.77% |
| Sb 206.836† | 600.6 | 0.504889 | mg/L | 0.0182323 | 0.504889 | mg/L | 0.0182323 | 3.61% |
| Se 196.026† | 549.7 | 0.536451 | mg/L | 0.0132081 | 0.536451 | mg/L | 0.0132081 | 2.46% |
| Sn 189.927† | 2337.0 | 0.568147 | mg/L | 0.0097758 | 0.568147 | mg/L | 0.0097758 | 1.72% |
| Ti 334.940† | 492594.1 | 0.567276 | mg/L | 0.0012145 | 0.567276 | mg/L | 0.0012145 | 0.21% |
| Tl 190.801† | 468.0 | 0.548568 | mg/L | 0.0061526 | 0.548568 | mg/L | 0.0061526 | 1.12% |
| V 290.880† | 92274.5 | 0.566755 | mg/L | 0.0017739 | 0.566755 | mg/L | 0.0017739 | 0.31% |
| Zn 206.200† | 29007.1 | 0.574446 | mg/L | 0.0113801 | 0.574446 | mg/L | 0.0113801 | 1.98% |
| Si 251.611† | 475582.2 | 10.4858 | mg/L | 0.00449 | 10.4858 | mg/L | 0.00449 | 0.04% |
| B 249.772† | 246208.8 | 2.37502 | mg/L | 0.015823 | 2.37502 | mg/L | 0.015823 | 0.67% |
| Ce 413.764 | 23799.1 | 0.444007 | mg/L | 0.0078939 | 0.444007 | mg/L | 0.0078939 | 1.78% |

Sequence No.: 37
Sample ID: AD26083-040 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 9/29/2021 12:36:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040 SD

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 730617.0 | 90.2 | % | 0.03 | | | | 0.03% |
| Y 371.029 | 753565.4 | 88.7 | % | 0.02 | | | | 0.03% |
| Ag 328.068† | 38.1 | 0.0007965 | mg/L | 0.00021731 | 0.0007965 | mg/L | 0.00021731 | 27.28% |
| Al 308.215† | 2203.9 | 0.0815504 | mg/L | 0.00201165 | 0.0815504 | mg/L | 0.00201165 | 2.47% |
| As 188.979† | 22.0 | 0.0195477 | mg/L | 0.00301881 | 0.0195477 | mg/L | 0.00301881 | 15.44% |
| Ba 233.527† | 44897.1 | 0.466383 | mg/L | 0.0015009 | 0.466383 | mg/L | 0.0015009 | 0.32% |
| Be 313.107† | 1484.6 | 0.0041084 | mg/L | 0.00002540 | 0.0041084 | mg/L | 0.00002540 | 0.62% |
| Ca 315.887† | 2786633.1 | 20.4653 | mg/L | 0.02746 | 20.4653 | mg/L | 0.02746 | 0.13% |
| Cd 228.802† | 5.6 | 0.0040932 | mg/L | 0.00027038 | 0.0040932 | mg/L | 0.00027038 | 6.61% |
| Co 228.616† | 79.1 | 0.0043794 | mg/L | 0.00057880 | 0.0043794 | mg/L | 0.00057880 | 13.22% |
| Cr 267.716† | -79.7 | 0.0010057 | mg/L | 0.00039926 | 0.0010057 | mg/L | 0.00039926 | 39.70% |
| Cu 327.393† | -559.0 | -0.0036277 | mg/L | 0.00075521 | -0.0036277 | mg/L | 0.00075521 | 20.82% |
| Fe 273.955† | 70104.6 | 2.34108 | mg/L | 0.013614 | 2.34108 | mg/L | 0.013614 | 0.58% |
| K 404.721† | 3351.4 | 24.0039 | mg/L | 0.28550 | 24.0039 | mg/L | 0.28550 | 1.19% |
| Mg 279.077† | 776577.1 | 30.8195 | mg/L | 0.02732 | 30.8195 | mg/L | 0.02732 | 0.09% |
| Mn 257.610† | 94214.3 | 0.114405 | mg/L | 0.0005668 | 0.114405 | mg/L | 0.0005668 | 0.50% |
| Mo 202.031† | 56.0 | 0.0061992 | mg/L | 0.00027687 | 0.0061992 | mg/L | 0.00027687 | 4.47% |
| Na 330.237† | 418948.9 | 294.127 | mg/L | 2.2249 | 294.127 | mg/L | 2.2249 | 0.76% |
| Ni 231.604† | 427.9 | 0.0138293 | mg/L | 0.00034002 | 0.0138293 | mg/L | 0.00034002 | 2.46% |
| Pb 220.353† | -31.2 | -0.0048252 | mg/L | 0.00265424 | -0.0048252 | mg/L | 0.00265424 | 55.01% |
| Sb 206.836† | -52.2 | -0.0385479 | mg/L | 0.00229247 | -0.0385479 | mg/L | 0.00229247 | 5.95% |
| Se 196.026† | -16.3 | -0.0144156 | mg/L | 0.00541406 | -0.0144156 | mg/L | 0.00541406 | 37.56% |
| Sn 189.927† | -13.6 | -0.0033288 | mg/L | 0.00073390 | -0.0033288 | mg/L | 0.00073390 | 22.05% |
| Ti 334.940† | 1919.4 | 0.0056402 | mg/L | 0.00017059 | 0.0056402 | mg/L | 0.00017059 | 3.02% |
| Tl 190.801† | -7.7 | -0.0042328 | mg/L | 0.00201986 | -0.0042328 | mg/L | 0.00201986 | 47.72% |
| V 290.880† | 49.5 | 0.0039073 | mg/L | 0.00017602 | 0.0039073 | mg/L | 0.00017602 | 4.50% |
| Zn 206.200† | 111.4 | 0.0052010 | mg/L | 0.00015040 | 0.0052010 | mg/L | 0.00015040 | 2.89% |
| Si 251.611† | 84471.6 | 1.78547 | mg/L | 0.009678 | 1.78547 | mg/L | 0.009678 | 0.54% |
| B 249.772† | 40255.8 | 0.394754 | mg/L | 0.0038329 | 0.394754 | mg/L | 0.0038329 | 0.97% |
| Ce 413.764 | 128.2 | -0.0174139 | mg/L | 0.00277761 | -0.0174139 | mg/L | 0.00277761 | 15.95% |

Sequence No.: 38
Sample ID: AD26083-003
Analyst:
Initial Sample Wt: .006 gm
Dilution:

Autosampler Location: 51
Date Collected: 9/29/2021 12:41:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-003

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 772924.0 | 95.4 | % | 0.63 | | | | 0.66% |
| Y 371.029 | 812097.2 | 95.5 | % | 0.21 | | | | 0.22% |
| Ag 328.068† | -65.9 | 0.0001285 | mg/L | 0.00018603 | 0.0001285 | mg/L | 0.00018603 | 144.72% |
| Al 308.215† | 18133.8 | 0.597423 | mg/L | 0.0026841 | 0.597423 | mg/L | 0.0026841 | 0.45% |
| As 188.979† | 9.6 | 0.0104209 | mg/L | 0.00172727 | 0.0104209 | mg/L | 0.00172727 | 16.58% |
| Ba 233.527† | 32395.5 | 0.336955 | mg/L | 0.0025650 | 0.336955 | mg/L | 0.0025650 | 0.76% |
| Be 313.107† | 1141.2 | 0.0040040 | mg/L | 0.00002689 | 0.0040040 | mg/L | 0.00002689 | 0.67% |
| Ca 315.887† | 8326624.4 | 60.6118 | mg/L | 0.41355 | 60.6118 | mg/L | 0.41355 | 0.68% |
| Cd 228.802† | 9.3 | 0.0038351 | mg/L | 0.00006912 | 0.0038351 | mg/L | 0.00006912 | 1.80% |
| Co 228.616† | 52.6 | 0.0031271 | mg/L | 0.00066193 | 0.0031271 | mg/L | 0.00066193 | 21.17% |
| Cr 267.716† | 266.7 | 0.0039451 | mg/L | 0.00016369 | 0.0039451 | mg/L | 0.00016369 | 4.15% |
| Cu 327.393† | -35.0 | 0.0014209 | mg/L | 0.00047433 | 0.0014209 | mg/L | 0.00047433 | 33.38% |
| Fe 273.955† | 31491.0 | 1.05615 | mg/L | 0.004119 | 1.05615 | mg/L | 0.004119 | 0.39% |
| K 404.721† | 558.7 | 3.58879 | mg/L | 1.273133 | 3.58879 | mg/L | 1.273133 | 35.48% |
| Mg 279.077† | 592966.1 | 23.5331 | mg/L | 0.03393 | 23.5331 | mg/L | 0.03393 | 0.14% |
| Mn 257.610† | 398042.1 | 0.479107 | mg/L | 0.0005153 | 0.479107 | mg/L | 0.0005153 | 0.11% |
| Mo 202.031† | 60.6 | 0.0065904 | mg/L | 0.00035696 | 0.0065904 | mg/L | 0.00035696 | 5.42% |
| Na 330.237† | 15690.6 | 12.0290 | mg/L | 0.03221 | 12.0290 | mg/L | 0.03221 | 0.27% |
| Ni 231.604† | 364.3 | 0.0119062 | mg/L | 0.00021203 | 0.0119062 | mg/L | 0.00021203 | 1.78% |
| Pb 220.353† | 0.8 | 0.0031598 | mg/L | 0.00055700 | 0.0031598 | mg/L | 0.00055700 | 17.63% |
| Sb 206.836† | -23.7 | -0.0149328 | mg/L | 0.00467060 | -0.0149328 | mg/L | 0.00467060 | 31.28% |
| Se 196.026† | -16.9 | -0.0151438 | mg/L | 0.00683622 | -0.0151438 | mg/L | 0.00683622 | 45.14% |
| Sn 189.927† | -8.5 | -0.0020762 | mg/L | 0.00125166 | -0.0020762 | mg/L | 0.00125166 | 60.28% |
| Ti 334.940† | 19680.7 | 0.0259702 | mg/L | 0.00038709 | 0.0259702 | mg/L | 0.00038709 | 1.49% |
| Tl 190.801† | -13.7 | -0.0082949 | mg/L | 0.00065774 | -0.0082949 | mg/L | 0.00065774 | 7.93% |
| V 290.880† | -161.0 | 0.0026226 | mg/L | 0.00057692 | 0.0026226 | mg/L | 0.00057692 | 22.00% |
| Zn 206.200† | 1294.6 | 0.0285100 | mg/L | 0.00025520 | 0.0285100 | mg/L | 0.00025520 | 0.90% |
| Si 251.611† | 485870.1 | 10.7074 | mg/L | 0.00646 | 10.7074 | mg/L | 0.00646 | 0.06% |
| B 249.772† | 2926.9 | 0.0306750 | mg/L | 0.00225425 | 0.0306750 | mg/L | 0.00225425 | 7.35% |
| Ce 413.764 | 27.0 | -0.0193880 | mg/L | 0.00154929 | -0.0193880 | mg/L | 0.00154929 | 7.99% |

Sequence No.: 39
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 12:45:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 772377.3 | 95.3 | % | 0.40 | | | | 0.42% |
| Y 371.029 | 800138.4 | 94.1 | % | 0.38 | | | | 0.40% |
| Ag 328.068† | 17174.0 | 0.0972407 | mg/L | 0.00145487 | 0.0972407 | mg/L | 0.00145487 | 1.50% |
| QC value within limits for Ag 328.068 Recovery = 97.24% | | | | | | | | |
| Al 308.215† | 150299.8 | 4.87748 | mg/L | 0.039617 | 4.87748 | mg/L | 0.039617 | 0.81% |
| QC value within limits for Al 308.215 Recovery = 97.55% | | | | | | | | |
| As 188.979† | 677.0 | 0.501249 | mg/L | 0.0045778 | 0.501249 | mg/L | 0.0045778 | 0.91% |
| QC value within limits for As 188.979 Recovery = 100.25% | | | | | | | | |
| Ba 233.527† | 46536.5 | 0.483355 | mg/L | 0.0041033 | 0.483355 | mg/L | 0.0041033 | 0.85% |
| QC value within limits for Ba 233.527 Recovery = 96.67% | | | | | | | | |
| Be 313.107† | 1586147.5 | 0.485553 | mg/L | 0.0010043 | 0.485553 | mg/L | 0.0010043 | 0.21% |
| QC value within limits for Be 313.107 Recovery = 97.11% | | | | | | | | |
| Ca 315.887† | 6703169.5 | 48.8471 | mg/L | 0.04141 | 48.8471 | mg/L | 0.04141 | 0.08% |
| QC value within limits for Ca 315.887 Recovery = 97.69% | | | | | | | | |
| Cd 228.802† | 24344.3 | 0.502636 | mg/L | 0.0023386 | 0.502636 | mg/L | 0.0023386 | 0.47% |
| QC value within limits for Cd 228.802 Recovery = 100.53% | | | | | | | | |
| Co 228.616† | 15617.3 | 0.490857 | mg/L | 0.0025854 | 0.490857 | mg/L | 0.0025854 | 0.53% |
| QC value within limits for Co 228.616 Recovery = 98.17% | | | | | | | | |
| Cr 267.716† | 57391.2 | 0.488681 | mg/L | 0.0054569 | 0.488681 | mg/L | 0.0054569 | 1.12% |
| QC value within limits for Cr 267.716 Recovery = 97.74% | | | | | | | | |
| Cu 327.393† | 57418.0 | 0.492050 | mg/L | 0.0055157 | 0.492050 | mg/L | 0.0055157 | 1.12% |
| QC value within limits for Cu 327.393 Recovery = 98.41% | | | | | | | | |
| Fe 273.955† | 145692.6 | 4.85639 | mg/L | 0.050300 | 4.85639 | mg/L | 0.050300 | 1.04% |
| QC value within limits for Fe 273.955 Recovery = 97.13% | | | | | | | | |
| K 404.721† | 6748.4 | 48.8371 | mg/L | 0.51936 | 48.8371 | mg/L | 0.51936 | 1.06% |
| QC value within limits for K 404.721 Recovery = 97.67% | | | | | | | | |
| Mg 279.077† | 1245750.8 | 49.4382 | mg/L | 0.09240 | 49.4382 | mg/L | 0.09240 | 0.19% |
| QC value within limits for Mg 279.077 Recovery = 98.88% | | | | | | | | |
| Mn 257.610† | 403516.6 | 0.485678 | mg/L | 0.0047571 | 0.485678 | mg/L | 0.0047571 | 0.98% |
| QC value within limits for Mn 257.610 Recovery = 97.14% | | | | | | | | |
| Mo 202.031† | 6243.6 | 0.482366 | mg/L | 0.0023324 | 0.482366 | mg/L | 0.0023324 | 0.48% |
| QC value within limits for Mo 202.031 Recovery = 96.47% | | | | | | | | |
| Na 330.237† | 65913.7 | 47.1625 | mg/L | 0.41453 | 47.1625 | mg/L | 0.41453 | 0.88% |
| QC value within limits for Na 330.237 Recovery = 94.32% | | | | | | | | |
| Ni 231.604† | 16353.5 | 0.495841 | mg/L | 0.0018320 | 0.495841 | mg/L | 0.0018320 | 0.37% |
| QC value within limits for Ni 231.604 Recovery = 99.17% | | | | | | | | |
| Pb 220.353† | 2024.5 | 0.512383 | mg/L | 0.0023219 | 0.512383 | mg/L | 0.0023219 | 0.45% |
| QC value within limits for Pb 220.353 Recovery = 102.48% | | | | | | | | |
| Sb 206.836† | 566.5 | 0.475924 | mg/L | 0.0045097 | 0.475924 | mg/L | 0.0045097 | 0.95% |
| QC value within limits for Sb 206.836 Recovery = 95.18% | | | | | | | | |
| Se 196.026† | 488.8 | 0.476639 | mg/L | 0.0055187 | 0.476639 | mg/L | 0.0055187 | 1.16% |
| QC value within limits for Se 196.026 Recovery = 95.33% | | | | | | | | |
| Sn 189.927† | 2056.4 | 0.499928 | mg/L | 0.0025310 | 0.499928 | mg/L | 0.0025310 | 0.51% |
| QC value within limits for Sn 189.927 Recovery = 99.99% | | | | | | | | |
| Ti 334.940† | 417050.9 | 0.480808 | mg/L | 0.0042098 | 0.480808 | mg/L | 0.0042098 | 0.88% |
| QC value within limits for Ti 334.940 Recovery = 96.16% | | | | | | | | |
| Tl 190.801† | 435.9 | 0.505300 | mg/L | 0.0008521 | 0.505300 | mg/L | 0.0008521 | 0.17% |
| QC value within limits for Tl 190.801 Recovery = 101.06% | | | | | | | | |
| V 290.880† | 78602.9 | 0.483317 | mg/L | 0.0053050 | 0.483317 | mg/L | 0.0053050 | 1.10% |
| QC value within limits for V 290.880 Recovery = 96.66% | | | | | | | | |
| Zn 206.200† | 24504.1 | 0.485738 | mg/L | 0.0024111 | 0.485738 | mg/L | 0.0024111 | 0.50% |
| QC value within limits for Zn 206.200 Recovery = 97.15% | | | | | | | | |
| Si 251.611† | 219184.7 | 4.78107 | mg/L | 0.043727 | 4.78107 | mg/L | 0.043727 | 0.91% |
| QC value within limits for Si 251.611 Recovery = 95.62% | | | | | | | | |
| B 249.772† | 46785.2 | 0.449624 | mg/L | 0.0100161 | 0.449624 | mg/L | 0.0100161 | 2.23% |
| QC value less than the lower limit for B 249.772 Recovery = 89.92% | | | | | | | | |
| Ce 413.764 | 26643.7 | 0.499457 | mg/L | 0.0039237 | 0.499457 | mg/L | 0.0039237 | 0.79% |
| QC value within limits for Ce 413.764 Recovery = 99.89% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 40
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 12:49:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 822436.3 | 102 | % | 0.6 | | | | 0.56% |
| Y 371.029 | 872776.7 | 103 | % | 0.6 | | | | 0.56% |
| Ag 328.068† | -73.1 | 0.0000177 | mg/L | 0.00014832 | 0.0000177 | mg/L | 0.00014832 | 839.65% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -89.3 | 0.0072894 | mg/L | 0.00337951 | 0.0072894 | mg/L | 0.00337951 | 46.36% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 11.9 | 0.0120935 | mg/L | 0.00226992 | 0.0120935 | mg/L | 0.00226992 | 18.77% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -68.9 | 0.0008541 | mg/L | 0.00014209 | 0.0008541 | mg/L | 0.00014209 | 16.64% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1072.7 | 0.0039832 | mg/L | 0.00005561 | 0.0039832 | mg/L | 0.00005561 | 1.40% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 739.2 | 0.276920 | mg/L | 0.0005005 | 0.276920 | mg/L | 0.0005005 | 0.18% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 40.2 | 0.0041283 | mg/L | 0.00021749 | 0.0041283 | mg/L | 0.00021749 | 5.27% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 60.0 | 0.0024629 | mg/L | 0.00028862 | 0.0024629 | mg/L | 0.00028862 | 11.72% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 13.6 | 0.0017971 | mg/L | 0.00018109 | 0.0017971 | mg/L | 0.00018109 | 10.08% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 386.7 | 0.0045691 | mg/L | 0.00095788 | 0.0045691 | mg/L | 0.00095788 | 20.96% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -215.3 | 0.0010732 | mg/L | 0.00100819 | 0.0010732 | mg/L | 0.00100819 | 93.94% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 322.2 | 1.86005 | mg/L | 0.495031 | 1.86005 | mg/L | 0.495031 | 26.61% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -1.9 | 0.0017181 | mg/L | 0.00174384 | 0.0017181 | mg/L | 0.00174384 | 101.50% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 26.1 | 0.0013452 | mg/L | 0.00003445 | 0.0013452 | mg/L | 0.00003445 | 2.56% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 11.7 | 0.0027806 | mg/L | 0.00061864 | 0.0027806 | mg/L | 0.00061864 | 22.25% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 71.0 | 1.10236 | mg/L | 0.065704 | 1.10236 | mg/L | 0.065704 | 5.96% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 104.4 | 0.0040384 | mg/L | 0.00020382 | 0.0040384 | mg/L | 0.00020382 | 5.05% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 21.8 | 0.0073444 | mg/L | 0.00044763 | 0.0073444 | mg/L | 0.00044763 | 6.09% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -5.2 | 0.0001098 | mg/L | 0.00444702 | 0.0001098 | mg/L | 0.00444702 | >999.9% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -6.7 | -0.0052164 | mg/L | 0.00723206 | -0.0052164 | mg/L | 0.00723206 | 138.64% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -3.5 | -0.0008620 | mg/L | 0.00159272 | -0.0008620 | mg/L | 0.00159272 | 184.78% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -38.5 | 0.0033992 | mg/L | 0.00005606 | 0.0033992 | mg/L | 0.00005606 | 1.65% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -4.0 | -0.0014888 | mg/L | 0.00361696 | -0.0014888 | mg/L | 0.00361696 | 242.95% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -8.8 | 0.0035513 | mg/L | 0.00019529 | 0.0035513 | mg/L | 0.00019529 | 5.50% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -9.4 | 0.0028219 | mg/L | 0.00007456 | 0.0028219 | mg/L | 0.00007456 | 2.64% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 590.9 | -0.0801305 | mg/L | 0.00090205 | -0.0801305 | mg/L | 0.00090205 | 1.13% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -198.8 | 0.0038339 | mg/L | 0.00186068 | 0.0038339 | mg/L | 0.00186068 | 48.53% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -60.4 | -0.0210916 | mg/L | 0.00215579 | -0.0210916 | mg/L | 0.00215579 | 10.22% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: AD26083-006
Analyst:
Initial Sample Wt: 0.12 gm
Dilution:

Autosampler Location: 52
Date Collected: 9/29/2021 12:53:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-006

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 800244.0 | 98.8 | % | 0.45 | | | | 0.46% |
| Y 371.029 | 839288.2 | 98.7 | % | 0.50 | | | | 0.51% |
| Ag 328.068† | -353.4 | -0.0002375 | mg/L | 0.00025344 | -0.0002375 | mg/L | 0.00025344 | 106.70% |
| Al 308.215† | 9415.2 | 0.315081 | mg/L | 0.0022032 | 0.315081 | mg/L | 0.0022032 | 0.70% |
| As 188.979† | 9.4 | 0.0102279 | mg/L | 0.00372473 | 0.0102279 | mg/L | 0.00372473 | 36.42% |
| Ba 233.527† | 10778.8 | 0.113159 | mg/L | 0.0006013 | 0.113159 | mg/L | 0.0006013 | 0.53% |
| Be 313.107† | 1038.5 | 0.0039728 | mg/L | 0.00000925 | 0.0039728 | mg/L | 0.00000925 | 0.23% |
| Ca 315.887† | 1175801.9 | 8.79220 | mg/L | 0.003198 | 8.79220 | mg/L | 0.003198 | 0.04% |
| Cd 228.802† | -131.5 | 0.0055542 | mg/L | 0.00032901 | 0.0055542 | mg/L | 0.00032901 | 5.92% |
| Co 228.616† | 77.2 | 0.0033067 | mg/L | 0.00067283 | 0.0033067 | mg/L | 0.00067283 | 20.35% |
| Cr 267.716† | 106.9 | 0.0025888 | mg/L | 0.00020783 | 0.0025888 | mg/L | 0.00020783 | 8.03% |
| Cu 327.393† | 479.8 | 0.0054003 | mg/L | 0.00061732 | 0.0054003 | mg/L | 0.00061732 | 11.43% |
| Fe 273.955† | 598121.5 | 19.9117 | mg/L | 0.01778 | 19.9117 | mg/L | 0.01778 | 0.09% |
| K 404.721† | 691.0 | 4.55623 | mg/L | 0.345473 | 4.55623 | mg/L | 0.345473 | 7.58% |
| Mg 279.077† | 145976.3 | 5.79472 | mg/L | 0.001645 | 5.79472 | mg/L | 0.001645 | 0.03% |
| Mn 257.610† | 620422.8 | 0.746043 | mg/L | 0.0007150 | 0.746043 | mg/L | 0.0007150 | 0.10% |
| Mo 202.031† | 39.1 | 0.0049157 | mg/L | 0.00030966 | 0.0049157 | mg/L | 0.00030966 | 6.30% |
| Na 330.237† | 10632.4 | 8.49058 | mg/L | 0.015852 | 8.49058 | mg/L | 0.015852 | 0.19% |
| Ni 231.604† | 203.1 | 0.0070274 | mg/L | 0.00041002 | 0.0070274 | mg/L | 0.00041002 | 5.83% |
| Pb 220.353† | 10.5 | 0.0048472 | mg/L | 0.00013222 | 0.0048472 | mg/L | 0.00013222 | 2.73% |
| Sb 206.836† | -11.2 | -0.0047438 | mg/L | 0.00316298 | -0.0047438 | mg/L | 0.00316298 | 66.68% |
| Se 196.026† | -11.5 | -0.0089433 | mg/L | 0.00291510 | -0.0089433 | mg/L | 0.00291510 | 32.60% |
| Sn 189.927† | -7.3 | -0.0017949 | mg/L | 0.00086573 | -0.0017949 | mg/L | 0.00086573 | 48.23% |
| Ti 334.940† | 5101.8 | 0.0092830 | mg/L | 0.00006070 | 0.0092830 | mg/L | 0.00006070 | 0.65% |
| Tl 190.801† | -9.5 | -0.0070640 | mg/L | 0.00342612 | -0.0070640 | mg/L | 0.00342612 | 48.50% |
| V 290.880† | 349.2 | 0.0057364 | mg/L | 0.00079432 | 0.0057364 | mg/L | 0.00079432 | 13.85% |
| Zn 206.200† | 1942.3 | 0.0412694 | mg/L | 0.00033376 | 0.0412694 | mg/L | 0.00033376 | 0.81% |
| Si 251.611† | 222903.6 | 4.87052 | mg/L | 0.003179 | 4.87052 | mg/L | 0.003179 | 0.07% |
| B 249.772† | 10383.4 | 0.0318457 | mg/L | 0.00039134 | 0.0318457 | mg/L | 0.00039134 | 1.23% |
| Ce 413.764 | 156.6 | -0.0168607 | mg/L | 0.00148082 | -0.0168607 | mg/L | 0.00148082 | 8.78% |

Sequence No.: 42
Sample ID: AD26083-012
Analyst:
Initial Sample Wt: .014 gm
Dilution:

Autosampler Location: 53
Date Collected: 9/29/2021 12:56:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-012

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 786428.0 | 97.1 | % | 0.73 | | | | 0.75% |
| Y 371.029 | 815668.4 | 96.0 | % | 0.85 | | | | 0.89% |
| Ag 328.068† | -70.8 | 0.0000896 | mg/L | 0.00015736 | 0.0000896 | mg/L | 0.00015736 | 175.60% |
| Al 308.215† | 9757.7 | 0.326173 | mg/L | 0.0029334 | 0.326173 | mg/L | 0.0029334 | 0.90% |
| As 188.979† | 30.2 | 0.0255775 | mg/L | 0.00438281 | 0.0255775 | mg/L | 0.00438281 | 17.14% |
| Ba 233.527† | 11104.0 | 0.116526 | mg/L | 0.0010332 | 0.116526 | mg/L | 0.0010332 | 0.89% |
| Be 313.107† | 1340.9 | 0.0040647 | mg/L | 0.00002670 | 0.0040647 | mg/L | 0.00002670 | 0.66% |
| Ca 315.887† | 2662180.1 | 19.5635 | mg/L | 0.05460 | 19.5635 | mg/L | 0.05460 | 0.28% |
| Cd 228.802† | 30.2 | 0.0041725 | mg/L | 0.00005210 | 0.0041725 | mg/L | 0.00005210 | 1.25% |
| Co 228.616† | 76.7 | 0.0032733 | mg/L | 0.00035556 | 0.0032733 | mg/L | 0.00035556 | 10.86% |
| Cr 267.716† | 112.7 | 0.0026383 | mg/L | 0.00001948 | 0.0026383 | mg/L | 0.00001948 | 0.74% |
| Cu 327.393† | 200.2 | 0.0030951 | mg/L | 0.00097780 | 0.0030951 | mg/L | 0.00097780 | 31.59% |
| Fe 273.955† | 25513.6 | 0.857244 | mg/L | 0.0069092 | 0.857244 | mg/L | 0.0069092 | 0.81% |
| K 404.721† | 445.7 | 2.76262 | mg/L | 1.055862 | 2.76262 | mg/L | 1.055862 | 38.22% |
| Mg 279.077† | 246067.9 | 9.76675 | mg/L | 0.078858 | 9.76675 | mg/L | 0.078858 | 0.81% |
| Mn 257.610† | 86485.2 | 0.105127 | mg/L | 0.0009318 | 0.105127 | mg/L | 0.0009318 | 0.89% |
| Mo 202.031† | 68.9 | 0.0072072 | mg/L | 0.00005006 | 0.0072072 | mg/L | 0.00005006 | 0.69% |
| Na 330.237† | 147764.3 | 104.421 | mg/L | 0.8663 | 104.421 | mg/L | 0.8663 | 0.83% |
| Ni 231.604† | 233.6 | 0.0079492 | mg/L | 0.00049085 | 0.0079492 | mg/L | 0.00049085 | 6.17% |
| Pb 220.353† | 10.3 | 0.0049376 | mg/L | 0.00132663 | 0.0049376 | mg/L | 0.00132663 | 26.87% |
| Sb 206.836† | -15.5 | -0.0082810 | mg/L | 0.00168813 | -0.0082810 | mg/L | 0.00168813 | 20.39% |
| Se 196.026† | -9.1 | -0.0075478 | mg/L | 0.00493235 | -0.0075478 | mg/L | 0.00493235 | 65.35% |
| Sn 189.927† | -5.4 | -0.0013223 | mg/L | 0.00032667 | -0.0013223 | mg/L | 0.00032667 | 24.70% |
| Ti 334.940† | 14219.6 | 0.0197194 | mg/L | 0.00055961 | 0.0197194 | mg/L | 0.00055961 | 2.84% |
| Tl 190.801† | -10.3 | -0.0072377 | mg/L | 0.00239227 | -0.0072377 | mg/L | 0.00239227 | 33.05% |
| V 290.880† | 36.2 | 0.0038262 | mg/L | 0.00025767 | 0.0038262 | mg/L | 0.00025767 | 6.73% |
| Zn 206.200† | 1212.4 | 0.0268916 | mg/L | 0.00051329 | 0.0268916 | mg/L | 0.00051329 | 1.91% |
| Si 251.611† | 363053.8 | 7.97727 | mg/L | 0.061153 | 7.97727 | mg/L | 0.061153 | 0.77% |
| B 249.772† | 3178.2 | 0.0339240 | mg/L | 0.00058030 | 0.0339240 | mg/L | 0.00058030 | 1.71% |
| Ce 413.764 | 134.4 | -0.0172948 | mg/L | 0.00232271 | -0.0172948 | mg/L | 0.00232271 | 13.43% |

Sequence No.: 43
Sample ID: AD26083-014
Analyst:
Initial Sample Wt: 0.016 gm
Dilution:

Autosampler Location: 54
Date Collected: 9/29/2021 1:01:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-014

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 805390.0 | 99.4 | % | 0.49 | | | | 0.50% |
| Y 371.029 | 840632.1 | 98.9 | % | 0.48 | | | | 0.49% |
| Ag 328.068† | -54.8 | 0.0001387 | mg/L | 0.00008595 | 0.0001387 | mg/L | 0.00008595 | 61.96% |
| Al 308.215† | 3368.5 | 0.119266 | mg/L | 0.0033152 | 0.119266 | mg/L | 0.0033152 | 2.78% |
| As 188.979† | 11.3 | 0.0116399 | mg/L | 0.00066275 | 0.0116399 | mg/L | 0.00066275 | 5.69% |
| Ba 233.527† | 17666.8 | 0.184469 | mg/L | 0.0018714 | 0.184469 | mg/L | 0.0018714 | 1.01% |
| Be 313.107† | 1025.7 | 0.0039689 | mg/L | 0.00001605 | 0.0039689 | mg/L | 0.00001605 | 0.40% |
| Ca 315.887† | 5729073.8 | 41.7882 | mg/L | 0.08773 | 41.7882 | mg/L | 0.08773 | 0.21% |
| Cd 228.802† | 23.9 | 0.0038841 | mg/L | 0.00038026 | 0.0038841 | mg/L | 0.00038026 | 9.79% |
| Co 228.616† | 53.6 | 0.0027706 | mg/L | 0.00006721 | 0.0027706 | mg/L | 0.00006721 | 2.43% |
| Cr 267.716† | 32.0 | 0.0019537 | mg/L | 0.00031230 | 0.0019537 | mg/L | 0.00031230 | 15.99% |
| Cu 327.393† | 201.3 | 0.0033583 | mg/L | 0.00047045 | 0.0033583 | mg/L | 0.00047045 | 14.01% |
| Fe 273.955† | 8029.7 | 0.275438 | mg/L | 0.0041759 | 0.275438 | mg/L | 0.0041759 | 1.52% |
| K 404.721† | 144.0 | 0.557229 | mg/L | 0.0920332 | 0.557229 | mg/L | 0.0920332 | 16.52% |
| Mg 279.077† | 278335.9 | 11.0473 | mg/L | 0.13220 | 11.0473 | mg/L | 0.13220 | 1.20% |
| Mn 257.610† | 216848.0 | 0.261609 | mg/L | 0.0024685 | 0.261609 | mg/L | 0.0024685 | 0.94% |
| Mo 202.031† | 71.3 | 0.0073778 | mg/L | 0.00020804 | 0.0073778 | mg/L | 0.00020804 | 2.82% |
| Na 330.237† | 18269.4 | 13.8330 | mg/L | 0.09426 | 13.8330 | mg/L | 0.09426 | 0.68% |
| Ni 231.604† | 168.7 | 0.0059868 | mg/L | 0.00019725 | 0.0059868 | mg/L | 0.00019725 | 3.29% |
| Pb 220.353† | 18.1 | 0.0068444 | mg/L | 0.00145357 | 0.0068444 | mg/L | 0.00145357 | 21.24% |
| Sb 206.836† | -10.1 | -0.0038838 | mg/L | 0.00261829 | -0.0038838 | mg/L | 0.00261829 | 67.41% |
| Se 196.026† | -6.3 | -0.0048717 | mg/L | 0.00165029 | -0.0048717 | mg/L | 0.00165029 | 33.88% |
| Sn 189.927† | -7.6 | -0.0018622 | mg/L | 0.00031830 | -0.0018622 | mg/L | 0.00031830 | 17.09% |
| Ti 334.940† | 4324.0 | 0.0083926 | mg/L | 0.00026737 | 0.0083926 | mg/L | 0.00026737 | 3.19% |
| Tl 190.801† | -12.6 | -0.0084566 | mg/L | 0.00298006 | -0.0084566 | mg/L | 0.00298006 | 35.24% |
| V 290.880† | -159.5 | 0.0026316 | mg/L | 0.00080291 | 0.0026316 | mg/L | 0.00080291 | 30.51% |
| Zn 206.200† | 743.4 | 0.0176516 | mg/L | 0.00016941 | 0.0176516 | mg/L | 0.00016941 | 0.96% |
| Si 251.611† | 342999.6 | 7.53123 | mg/L | 0.078001 | 7.53123 | mg/L | 0.078001 | 1.04% |
| B 249.772† | 2139.5 | 0.0258942 | mg/L | 0.00046351 | 0.0258942 | mg/L | 0.00046351 | 1.79% |
| Ce 413.764 | -4.1 | -0.0199943 | mg/L | 0.00257528 | -0.0199943 | mg/L | 0.00257528 | 12.88% |

Sequence No.: 44
Sample ID: AD26083-016
Analyst:
Initial Sample Wt:
Dilution:

-019 QP

Autosampler Location: 55
Date Collected: 9/29/2021 1:05:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-016

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 732528.4 | 90.4 | % | 0.39 | | | | 0.43% |
| Y 371.029 | 753239.3 | 88.6 | % | 0.38 | | | | 0.43% |
| Ag 328.068† | 32.2 | 0.0006980 | mg/L | 0.00031513 | 0.0006980 | mg/L | 0.00031513 | 45.14% |
| Al 308.215† | 8346.3 | 0.280467 | mg/L | 0.0040509 | 0.280467 | mg/L | 0.0040509 | 1.44% |
| As 188.979† | 28.1 | 0.0240199 | mg/L | 0.00093071 | 0.0240199 | mg/L | 0.00093071 | 3.87% |
| Ba 233.527† | 7504.7 | 0.0792628 | mg/L | 0.00071766 | 0.0792628 | mg/L | 0.00071766 | 0.91% |
| Be 313.107† | 1421.8 | 0.0040893 | mg/L | 0.00005203 | 0.0040893 | mg/L | 0.00005203 | 1.27% |
| Ca 315.887† | 4405737.1 | 32.1984 | mg/L | 0.02587 | 32.1984 | mg/L | 0.02587 | 0.08% |
| Cd 228.802† | 17.0 | 0.0040790 | mg/L | 0.00007594 | 0.0040790 | mg/L | 0.00007594 | 1.86% |
| Co 228.616† | 88.3 | 0.0035423 | mg/L | 0.00025892 | 0.0035423 | mg/L | 0.00025892 | 7.31% |
| Cr 267.716† | -66.3 | 0.0011190 | mg/L | 0.00015429 | 0.0011190 | mg/L | 0.00015429 | 13.79% |
| Cu 327.393† | -363.5 | -0.0019570 | mg/L | 0.00086807 | -0.0019570 | mg/L | 0.00086807 | 44.36% |
| Fe 273.955† | 41839.3 | 1.40051 | mg/L | 0.001352 | 1.40051 | mg/L | 0.001352 | 0.10% |
| K 404.721† | 4486.3 | 32.3007 | mg/L | 0.49762 | 32.3007 | mg/L | 0.49762 | 1.54% |
| Mg 279.077† | 1083932.2 | 43.0166 | mg/L | 0.02694 | 43.0166 | mg/L | 0.02694 | 0.06% |
| Mn 257.610† | 102225.3 | 0.124021 | mg/L | 0.0001288 | 0.124021 | mg/L | 0.0001288 | 0.10% |
| Mo 202.031† | 103.8 | 0.0098880 | mg/L | 0.00011475 | 0.0098880 | mg/L | 0.00011475 | 1.16% |
| Na 330.237† | 909669.1 | 637.409 | mg/L | 0.9267 | 637.409 | mg/L | 0.9267 | 0.15% |
| Ni 231.604† | 375.3 | 0.0122376 | mg/L | 0.00028796 | 0.0122376 | mg/L | 0.00028796 | 2.35% |
| Pb 220.353† | -14.1 | -0.0000400 | mg/L | 0.00023150 | -0.0000400 | mg/L | 0.00023150 | 578.38% |
| Sb 206.836† | -47.4 | -0.0345463 | mg/L | 0.00278433 | -0.0345463 | mg/L | 0.00278433 | 8.06% |
| Se 196.026† | -14.5 | -0.0127566 | mg/L | 0.00763777 | -0.0127566 | mg/L | 0.00763777 | 59.87% |
| Sn 189.927† | -16.4 | -0.0040091 | mg/L | 0.00079595 | -0.0040091 | mg/L | 0.00079595 | 19.85% |
| Ti 334.940† | 10455.8 | 0.0154112 | mg/L | 0.00051296 | 0.0154112 | mg/L | 0.00051296 | 3.33% |
| Tl 190.801† | -13.7 | -0.0102830 | mg/L | 0.00080486 | -0.0102830 | mg/L | 0.00080486 | 7.83% |
| V 290.880† | -579.2 | 0.0000703 | mg/L | 0.00053331 | 0.0000703 | mg/L | 0.00053331 | 758.47% |
| Zn 206.200† | 320.6 | 0.0093231 | mg/L | 0.00014827 | 0.0093231 | mg/L | 0.00014827 | 1.59% |
| Si 251.611† | 489834.4 | 10.7957 | mg/L | 0.01417 | 10.7957 | mg/L | 0.01417 | 0.13% |
| B 249.772† | 39935.3 | 0.395205 | mg/L | 0.0047996 | 0.395205 | mg/L | 0.0047996 | 1.21% |
| Ce 413.764 | -123.3 | -0.0223172 | mg/L | 0.00264576 | -0.0223172 | mg/L | 0.00264576 | 11.86% |

Sequence No.: 45
Sample ID: AD26083-019
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 56
Date Collected: 9/29/2021 1:09:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-019

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 804944.7 | 99.4 | % | 1.19 | | | | 1.20% |
| Y 371.029 | 840517.8 | 98.9 | % | 1.03 | | | | 1.04% |
| Ag 328.068† | -77.6 | 0.0001183 | mg/L | 0.00042686 | 0.0001183 | mg/L | 0.00042686 | 360.88% |
| Al 308.215† | 30482.4 | 0.997320 | mg/L | 0.0179564 | 0.997320 | mg/L | 0.0179564 | 1.80% |
| As 188.979† | 11.2 | 0.0115391 | mg/L | 0.00320537 | 0.0115391 | mg/L | 0.00320537 | 27.78% |
| Ba 233.527† | 19631.7 | 0.204813 | mg/L | 0.0021708 | 0.204813 | mg/L | 0.0021708 | 1.06% |
| Be 313.107† | 1340.2 | 0.0040645 | mg/L | 0.00005830 | 0.0040645 | mg/L | 0.00005830 | 1.43% |
| Ca 315.887† | 4933721.0 | 36.0245 | mg/L | 0.03529 | 36.0245 | mg/L | 0.03529 | 0.10% |
| Cd 228.802† | 12.7 | 0.0040883 | mg/L | 0.00026686 | 0.0040883 | mg/L | 0.00026686 | 6.53% |
| Co 228.616† | 92.7 | 0.0039768 | mg/L | 0.00053915 | 0.0039768 | mg/L | 0.00053915 | 13.56% |
| Cr 267.716† | 447.5 | 0.0054794 | mg/L | 0.00044212 | 0.0054794 | mg/L | 0.00044212 | 8.07% |
| Cu 327.393† | 348.7 | 0.0045416 | mg/L | 0.00034957 | 0.0045416 | mg/L | 0.00034957 | 7.70% |
| Fe 273.955† | 55497.4 | 1.85500 | mg/L | 0.018597 | 1.85500 | mg/L | 0.018597 | 1.00% |
| K 404.721† | 121.2 | 0.390384 | mg/L | 1.0687379 | 0.390384 | mg/L | 1.0687379 | 273.77% |
| Mg 279.077† | 293854.7 | 11.6631 | mg/L | 0.10712 | 11.6631 | mg/L | 0.10712 | 0.92% |
| Mn 257.610† | 197086.6 | 0.237888 | mg/L | 0.0024990 | 0.237888 | mg/L | 0.0024990 | 1.05% |
| Mo 202.031† | 91.3 | 0.0089794 | mg/L | 0.00071499 | 0.0089794 | mg/L | 0.00071499 | 7.96% |
| Na 330.237† | 27251.7 | 20.1166 | mg/L | 0.14272 | 20.1166 | mg/L | 0.14272 | 0.71% |
| Ni 231.604† | 325.0 | 0.0107147 | mg/L | 0.00036671 | 0.0107147 | mg/L | 0.00036671 | 3.42% |
| Pb 220.353† | 17.8 | 0.0071914 | mg/L | 0.00135131 | 0.0071914 | mg/L | 0.00135131 | 18.79% |
| Sb 206.836† | -15.6 | -0.0080859 | mg/L | 0.00422365 | -0.0080859 | mg/L | 0.00422365 | 52.23% |
| Se 196.026† | -10.9 | -0.0093160 | mg/L | 0.00597078 | -0.0093160 | mg/L | 0.00597078 | 64.09% |
| Sn 189.927† | 0.2 | 0.0000243 | mg/L | 0.00098855 | 0.0000243 | mg/L | 0.00098855 | >999.9% |
| Ti 334.940† | 30956.7 | 0.0388770 | mg/L | 0.00050260 | 0.0388770 | mg/L | 0.00050260 | 1.29% |
| Tl 190.801† | -11.3 | -0.0072510 | mg/L | 0.00075900 | -0.0072510 | mg/L | 0.00075900 | 10.47% |
| V 290.880† | 379.7 | 0.0059225 | mg/L | 0.00012908 | 0.0059225 | mg/L | 0.00012908 | 2.18% |
| Zn 206.200† | 1670.9 | 0.0359225 | mg/L | 0.00027653 | 0.0359225 | mg/L | 0.00027653 | 0.77% |
| Si 251.611† | 381435.2 | 8.38631 | mg/L | 0.012624 | 8.38631 | mg/L | 0.012624 | 0.15% |
| B 249.772† | 6516.1 | 0.0630832 | mg/L | 0.00041792 | 0.0630832 | mg/L | 0.00041792 | 0.66% |
| Ce 413.764 | 208.3 | -0.0158529 | mg/L | 0.00025521 | -0.0158529 | mg/L | 0.00025521 | 1.61% |

Sequence No.: 46
Sample ID: AD26083-021
Analyst:
Initial Sample Wt:
Dilution: -023

Autosampler Location: 57
Date Collected: 9/29/2021 1:13:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-021

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 812743.6 | 100 | % | 1.5 | | | | 1.48% |
| Y 371.029 | 849938.6 | 100.0 | % | 1.41 | | | | 1.41% |
| Ag 328.068† | -89.8 | 0.0000422 | mg/L | 0.00011954 | 0.0000422 | mg/L | 0.00011954 | 283.50% |
| Al 308.215† | 27747.2 | 0.908744 | mg/L | 0.0046169 | 0.908744 | mg/L | 0.0046169 | 0.51% |
| As 188.979† | 8.3 | 0.0093748 | mg/L | 0.00289618 | 0.0093748 | mg/L | 0.00289618 | 30.89% |
| Ba 233.527† | 18777.7 | 0.195971 | mg/L | 0.0004515 | 0.195971 | mg/L | 0.0004515 | 0.23% |
| Be 313.107† | 1385.7 | 0.0040783 | mg/L | 0.00002466 | 0.0040783 | mg/L | 0.00002466 | 0.60% |
| Ca 315.887† | 4802333.4 | 35.0724 | mg/L | 0.09639 | 35.0724 | mg/L | 0.09639 | 0.27% |
| Cd 228.802† | 17.0 | 0.0041374 | mg/L | 0.00011154 | 0.0041374 | mg/L | 0.00011154 | 2.70% |
| Co 228.616† | 87.2 | 0.0037845 | mg/L | 0.00045688 | 0.0037845 | mg/L | 0.00045688 | 12.07% |
| Cr 267.716† | 474.9 | 0.0057121 | mg/L | 0.00022357 | 0.0057121 | mg/L | 0.00022357 | 3.91% |
| Cu 327.393† | 514.1 | 0.0059503 | mg/L | 0.00088921 | 0.0059503 | mg/L | 0.00088921 | 14.94% |
| Fe 273.955† | 51989.2 | 1.73826 | mg/L | 0.004359 | 1.73826 | mg/L | 0.004359 | 0.25% |
| K 404.721† | 394.5 | 2.38809 | mg/L | 0.868387 | 2.38809 | mg/L | 0.868387 | 36.36% |
| Mg 279.077† | 278958.8 | 11.0720 | mg/L | 0.05191 | 11.0720 | mg/L | 0.05191 | 0.47% |
| Mn 257.610† | 188799.9 | 0.227941 | mg/L | 0.0006916 | 0.227941 | mg/L | 0.0006916 | 0.30% |
| Mo 202.031† | 84.1 | 0.0084193 | mg/L | 0.00060367 | 0.0084193 | mg/L | 0.00060367 | 7.17% |
| Na 330.237† | 26018.6 | 19.2539 | mg/L | 0.04568 | 19.2539 | mg/L | 0.04568 | 0.24% |
| Ni 231.604† | 290.9 | 0.0096851 | mg/L | 0.00014780 | 0.0096851 | mg/L | 0.00014780 | 1.53% |
| Pb 220.353† | 30.1 | 0.0102098 | mg/L | 0.00203215 | 0.0102098 | mg/L | 0.00203215 | 19.90% |
| Sb 206.836† | -9.8 | -0.0033517 | mg/L | 0.00250356 | -0.0033517 | mg/L | 0.00250356 | 74.70% |
| Se 196.026† | -5.0 | -0.0036223 | mg/L | 0.01050564 | -0.0036223 | mg/L | 0.01050564 | 290.03% |
| Sn 189.927† | 4.3 | 0.0010343 | mg/L | 0.00145546 | 0.0010343 | mg/L | 0.00145546 | 140.72% |
| Ti 334.940† | 28934.3 | 0.0365621 | mg/L | 0.00017500 | 0.0365621 | mg/L | 0.00017500 | 0.48% |
| Tl 190.801† | -14.1 | -0.0105064 | mg/L | 0.00276806 | -0.0105064 | mg/L | 0.00276806 | 26.35% |
| V 290.880† | 253.4 | 0.0051518 | mg/L | 0.00045826 | 0.0051518 | mg/L | 0.00045826 | 8.90% |
| Zn 206.200† | 1953.5 | 0.0414901 | mg/L | 0.00038472 | 0.0414901 | mg/L | 0.00038472 | 0.93% |
| Si 251.611† | 368516.5 | 8.09909 | mg/L | 0.018895 | 8.09909 | mg/L | 0.018895 | 0.23% |
| B 249.772† | 5862.4 | 0.0570699 | mg/L | 0.00022434 | 0.0570699 | mg/L | 0.00022434 | 0.39% |
| Ce 413.764 | 184.3 | -0.0163212 | mg/L | 0.00037241 | -0.0163212 | mg/L | 0.00037241 | 2.28% |

Sequence No.: 47
Sample ID: AD26083-028
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 58
Date Collected: 9/29/2021 1:17:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-028

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 752866.2 | 92.9 | % | 0.52 | | | | 0.56% |
| Y 371.029 | 779949.6 | 91.8 | % | 0.49 | | | | 0.54% |
| Ag 328.068† | -396.1 | -0.0008018 | mg/L | 0.00034791 | -0.0008018 | mg/L | 0.00034791 | 43.39% |
| Al 308.215† | 243132.4 | 7.88376 | mg/L | 0.006453 | 7.88376 | mg/L | 0.006453 | 0.08% |
| As 188.979† | 11.3 | 0.0111567 | mg/L | 0.00131969 | 0.0111567 | mg/L | 0.00131969 | 11.83% |
| Ba 233.527† | 155809.9 | 1.61465 | mg/L | 0.002319 | 1.61465 | mg/L | 0.002319 | 0.14% |
| Be 313.107† | 3693.6 | 0.0047795 | mg/L | 0.00002193 | 0.0047795 | mg/L | 0.00002193 | 0.46% |
| Ca 315.887† | 32058143.7 | 232.586 | mg/L | 3.6449 | 232.586 | mg/L | 3.6449 | 1.57% |
| Cd 228.802† | -141.1 | 0.0043683 | mg/L | 0.00011754 | 0.0043683 | mg/L | 0.00011754 | 2.69% |
| Co 228.616† | 227.4 | 0.0113009 | mg/L | 0.00044859 | 0.0113009 | mg/L | 0.00044859 | 3.97% |
| Cr 267.716† | 2388.7 | 0.0219513 | mg/L | 0.00022503 | 0.0219513 | mg/L | 0.00022503 | 1.03% |
| Cu 327.393† | 678.6 | 0.0090242 | mg/L | 0.00012348 | 0.0090242 | mg/L | 0.00012348 | 1.37% |
| Fe 273.955† | 442461.5 | 14.7319 | mg/L | 0.03124 | 14.7319 | mg/L | 0.03124 | 0.21% |
| K 404.721† | 1868.3 | 13.1623 | mg/L | 0.90166 | 13.1623 | mg/L | 0.90166 | 6.85% |
| Mg 279.077† | 1843980.2 | 73.1783 | mg/L | 0.26191 | 73.1783 | mg/L | 0.26191 | 0.36% |
| Mn 257.610† | 920079.8 | 1.10574 | mg/L | 0.002543 | 1.10574 | mg/L | 0.002543 | 0.23% |
| Mo 202.031† | 136.3 | 0.0129714 | mg/L | 0.00114341 | 0.0129714 | mg/L | 0.00114341 | 8.81% |
| Na 330.237† | 313520.1 | 220.375 | mg/L | 0.2943 | 220.375 | mg/L | 0.2943 | 0.13% |
| Ni 231.604† | 1153.9 | 0.0358043 | mg/L | 0.00081552 | 0.0358043 | mg/L | 0.00081552 | 2.28% |
| Pb 220.353† | 30.2 | 0.0156394 | mg/L | 0.00034187 | 0.0156394 | mg/L | 0.00034187 | 2.19% |
| Sb 206.836† | -44.1 | -0.0292477 | mg/L | 0.00086907 | -0.0292477 | mg/L | 0.00086907 | 2.97% |
| Se 196.026† | -31.7 | -0.0300185 | mg/L | 0.00126439 | -0.0300185 | mg/L | 0.00126439 | 4.21% |
| Sn 189.927† | -15.5 | -0.0037795 | mg/L | 0.00099498 | -0.0037795 | mg/L | 0.00099498 | 26.33% |
| Ti 334.940† | 342215.0 | 0.395149 | mg/L | 0.0012776 | 0.395149 | mg/L | 0.0012776 | 0.32% |
| Tl 190.801† | -22.0 | -0.0053275 | mg/L | 0.00199223 | -0.0053275 | mg/L | 0.00199223 | 37.40% |
| V 290.880† | 2567.5 | 0.0192749 | mg/L | 0.00089357 | 0.0192749 | mg/L | 0.00089357 | 4.64% |
| Zn 206.200† | 4256.2 | 0.0868544 | mg/L | 0.00131477 | 0.0868544 | mg/L | 0.00131477 | 1.51% |
| Si 251.611† | 950156.5 | 21.0339 | mg/L | 0.04477 | 21.0339 | mg/L | 0.04477 | 0.21% |
| B 249.772† | 32462.3 | 0.270039 | mg/L | 0.0016876 | 0.270039 | mg/L | 0.0016876 | 0.62% |
| Ce 413.764 | 1203.6 | 0.0035481 | mg/L | 0.00206806 | 0.0035481 | mg/L | 0.00206806 | 58.29% |

Sequence No.: 48
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 1:21:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 781065.4 | 96.4 | % | 0.54 | | | | 0.56% |
| Y 371.029 | 813176.8 | 95.7 | % | 0.56 | | | | 0.58% |
| Ag 328.068† | 17390.6 | 0.0984587 | mg/L | 0.00037817 | 0.0984587 | mg/L | 0.00037817 | 0.38% |
| QC value within limits for Ag 328.068 Recovery = 98.46% | | | | | | | | |
| Al 308.215† | 151503.4 | 4.91645 | mg/L | 0.030890 | 4.91645 | mg/L | 0.030890 | 0.63% |
| QC value within limits for Al 308.215 Recovery = 98.33% | | | | | | | | |
| As 188.979† | 685.7 | 0.507585 | mg/L | 0.0055352 | 0.507585 | mg/L | 0.0055352 | 1.09% |
| QC value within limits for As 188.979 Recovery = 101.52% | | | | | | | | |
| Ba 233.527† | 46768.6 | 0.485758 | mg/L | 0.0036764 | 0.485758 | mg/L | 0.0036764 | 0.76% |
| QC value within limits for Ba 233.527 Recovery = 97.15% | | | | | | | | |
| Be 313.107† | 1578141.6 | 0.483120 | mg/L | 0.0009366 | 0.483120 | mg/L | 0.0009366 | 0.19% |
| QC value within limits for Be 313.107 Recovery = 96.62% | | | | | | | | |
| Ca 315.887† | 6698647.1 | 48.8144 | mg/L | 0.11189 | 48.8144 | mg/L | 0.11189 | 0.23% |
| QC value within limits for Ca 315.887 Recovery = 97.63% | | | | | | | | |
| Cd 228.802† | 24476.6 | 0.505326 | mg/L | 0.0036636 | 0.505326 | mg/L | 0.0036636 | 0.73% |
| QC value within limits for Cd 228.802 Recovery = 101.07% | | | | | | | | |
| Co 228.616† | 15585.9 | 0.489869 | mg/L | 0.0033161 | 0.489869 | mg/L | 0.0033161 | 0.68% |
| QC value within limits for Co 228.616 Recovery = 97.97% | | | | | | | | |
| Cr 267.716† | 57934.0 | 0.493287 | mg/L | 0.0043335 | 0.493287 | mg/L | 0.0043335 | 0.88% |
| QC value within limits for Cr 267.716 Recovery = 98.66% | | | | | | | | |
| Cu 327.393† | 57832.8 | 0.495597 | mg/L | 0.0028738 | 0.495597 | mg/L | 0.0028738 | 0.58% |
| QC value within limits for Cu 327.393 Recovery = 99.12% | | | | | | | | |
| Fe 273.955† | 146259.4 | 4.87526 | mg/L | 0.043222 | 4.87526 | mg/L | 0.043222 | 0.89% |
| QC value within limits for Fe 273.955 Recovery = 97.51% | | | | | | | | |
| K 404.721† | 6642.1 | 48.0597 | mg/L | 1.23122 | 48.0597 | mg/L | 1.23122 | 2.56% |
| QC value within limits for K 404.721 Recovery = 96.12% | | | | | | | | |
| Mg 279.077† | 1242846.4 | 49.3229 | mg/L | 0.17153 | 49.3229 | mg/L | 0.17153 | 0.35% |
| QC value within limits for Mg 279.077 Recovery = 98.65% | | | | | | | | |
| Mn 257.610† | 405396.6 | 0.487935 | mg/L | 0.0036741 | 0.487935 | mg/L | 0.0036741 | 0.75% |
| QC value within limits for Mn 257.610 Recovery = 97.59% | | | | | | | | |
| Mo 202.031† | 6192.7 | 0.478454 | mg/L | 0.0042597 | 0.478454 | mg/L | 0.0042597 | 0.89% |
| QC value within limits for Mo 202.031 Recovery = 95.69% | | | | | | | | |
| Na 330.237† | 67275.6 | 48.1151 | mg/L | 0.27895 | 48.1151 | mg/L | 0.27895 | 0.58% |
| QC value within limits for Na 330.237 Recovery = 96.23% | | | | | | | | |
| Ni 231.604† | 16367.5 | 0.496263 | mg/L | 0.0038737 | 0.496263 | mg/L | 0.0038737 | 0.78% |
| QC value within limits for Ni 231.604 Recovery = 99.25% | | | | | | | | |
| Pb 220.353† | 2060.2 | 0.521342 | mg/L | 0.0032292 | 0.521342 | mg/L | 0.0032292 | 0.62% |
| QC value within limits for Pb 220.353 Recovery = 104.27% | | | | | | | | |
| Sb 206.836† | 571.5 | 0.480024 | mg/L | 0.0049219 | 0.480024 | mg/L | 0.0049219 | 1.03% |
| QC value within limits for Sb 206.836 Recovery = 96.00% | | | | | | | | |
| Se 196.026† | 488.3 | 0.476143 | mg/L | 0.0066654 | 0.476143 | mg/L | 0.0066654 | 1.40% |
| QC value within limits for Se 196.026 Recovery = 95.23% | | | | | | | | |
| Sn 189.927† | 2076.4 | 0.504797 | mg/L | 0.0047863 | 0.504797 | mg/L | 0.0047863 | 0.95% |
| QC value within limits for Sn 189.927 Recovery = 100.96% | | | | | | | | |
| Ti 334.940† | 419712.8 | 0.483855 | mg/L | 0.0031276 | 0.483855 | mg/L | 0.0031276 | 0.65% |
| QC value within limits for Ti 334.940 Recovery = 96.77% | | | | | | | | |
| Tl 190.801† | 437.9 | 0.507588 | mg/L | 0.0013795 | 0.507588 | mg/L | 0.0013795 | 0.27% |
| QC value within limits for Tl 190.801 Recovery = 101.52% | | | | | | | | |
| V 290.880† | 79183.3 | 0.486859 | mg/L | 0.0036963 | 0.486859 | mg/L | 0.0036963 | 0.76% |
| QC value within limits for V 290.880 Recovery = 97.37% | | | | | | | | |
| Zn 206.200† | 24523.5 | 0.486119 | mg/L | 0.0037292 | 0.486119 | mg/L | 0.0037292 | 0.77% |
| QC value within limits for Zn 206.200 Recovery = 97.22% | | | | | | | | |
| Si 251.611† | 220626.1 | 4.81312 | mg/L | 0.036736 | 4.81312 | mg/L | 0.036736 | 0.76% |
| QC value within limits for Si 251.611 Recovery = 96.26% | | | | | | | | |
| B 249.772† | 45969.8 | 0.441491 | mg/L | 0.0079422 | 0.441491 | mg/L | 0.0079422 | 1.80% |
| QC value less than the lower limit for B 249.772 Recovery = 88.30% | | | | | | | | |
| Ce 413.764 | 26971.8 | 0.505853 | mg/L | 0.0056018 | 0.505853 | mg/L | 0.0056018 | 1.11% |
| QC value within limits for Ce 413.764 Recovery = 101.17% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 49
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 1:25:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 838151.9 | 103 | % | 0.7 | | | | 0.70% |
| Y 371.029 | 894065.7 | 105 | % | 0.6 | | | | 0.56% |
| Ag 328.068† | -101.2 | -0.0001395 | mg/L | 0.00043323 | -0.0001395 | mg/L | 0.00043323 | 310.56% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -367.6 | -0.0017228 | mg/L | 0.00434328 | -0.0017228 | mg/L | 0.00434328 | 252.11% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 10.2 | 0.0108777 | mg/L | 0.00141013 | 0.0108777 | mg/L | 0.00141013 | 12.96% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -60.9 | 0.0009371 | mg/L | 0.00010967 | 0.0009371 | mg/L | 0.00010967 | 11.70% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1308.0 | 0.0040547 | mg/L | 0.00004441 | 0.0040547 | mg/L | 0.00004441 | 1.10% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 1179.2 | 0.280109 | mg/L | 0.0023029 | 0.280109 | mg/L | 0.0023029 | 0.82% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 30.2 | 0.0039279 | mg/L | 0.00004385 | 0.0039279 | mg/L | 0.00004385 | 1.12% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 85.8 | 0.0032710 | mg/L | 0.00014104 | 0.0032710 | mg/L | 0.00014104 | 4.31% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 38.5 | 0.0020086 | mg/L | 0.00010557 | 0.0020086 | mg/L | 0.00010557 | 5.26% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 562.3 | 0.0060698 | mg/L | 0.00038137 | 0.0060698 | mg/L | 0.00038137 | 6.28% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -170.6 | 0.0025589 | mg/L | 0.00101366 | 0.0025589 | mg/L | 0.00101366 | 39.61% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 114.7 | 0.342980 | mg/L | 0.2726006 | 0.342980 | mg/L | 0.2726006 | 79.48% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 143.9 | 0.0075032 | mg/L | 0.00194042 | 0.0075032 | mg/L | 0.00194042 | 25.86% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 49.2 | 0.0013729 | mg/L | 0.00008598 | 0.0013729 | mg/L | 0.00008598 | 6.26% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 17.0 | 0.0031937 | mg/L | 0.00040657 | 0.0031937 | mg/L | 0.00040657 | 12.73% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 133.8 | 1.14633 | mg/L | 0.038266 | 1.14633 | mg/L | 0.038266 | 3.34% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 112.3 | 0.0042796 | mg/L | 0.00021622 | 0.0042796 | mg/L | 0.00021622 | 5.05% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 39.8 | 0.0118418 | mg/L | 0.00040455 | 0.0118418 | mg/L | 0.00040455 | 3.42% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -1.2 | 0.0033855 | mg/L | 0.00157099 | 0.0033855 | mg/L | 0.00157099 | 46.40% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -11.3 | -0.0097162 | mg/L | 0.00697319 | -0.0097162 | mg/L | 0.00697319 | 71.77% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -4.2 | -0.0010361 | mg/L | 0.00105586 | -0.0010361 | mg/L | 0.00105586 | 101.91% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 15.0 | 0.0034604 | mg/L | 0.00002220 | 0.0034604 | mg/L | 0.00002220 | 0.64% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -6.2 | -0.0040000 | mg/L | 0.00106373 | -0.0040000 | mg/L | 0.00106373 | 26.59% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 22.0 | 0.0037397 | mg/L | 0.00043540 | 0.0037397 | mg/L | 0.00043540 | 11.64% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -19.1 | 0.0026300 | mg/L | 0.00005779 | 0.0026300 | mg/L | 0.00005779 | 2.20% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 272.8 | -0.0872015 | mg/L | 0.00057462 | -0.0872015 | mg/L | 0.00057462 | 0.66% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -808.6 | -0.0021997 | mg/L | 0.00109351 | -0.0021997 | mg/L | 0.00109351 | 49.71% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -43.0 | -0.0207520 | mg/L | 0.00146722 | -0.0207520 | mg/L | 0.00146722 | 7.07% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 50
Sample ID: AD26083-030
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 59
Date Collected: 9/29/2021 1:29:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-030

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 786761.2 | 97.1 | % | 2.35 | | | | 2.42% |
| Y 371.029 | 820674.0 | 96.5 | % | 2.38 | | | | 2.46% |
| Ag 328.068† | -16.4 | 0.0003489 | mg/L | 0.00031976 | 0.0003489 | mg/L | 0.00031976 | 91.64% |
| Al 308.215† | 3545.1 | 0.124983 | mg/L | 0.0096030 | 0.124983 | mg/L | 0.0096030 | 7.68% |
| As 188.979† | 15.3 | 0.0145896 | mg/L | 0.00225251 | 0.0145896 | mg/L | 0.00225251 | 15.44% |
| Ba 233.527† | 10679.9 | 0.112135 | mg/L | 0.0020792 | 0.112135 | mg/L | 0.0020792 | 1.85% |
| Be 313.107† | 1347.2 | 0.0040666 | mg/L | 0.00003410 | 0.0040666 | mg/L | 0.00003410 | 0.84% |
| Ca 315.887† | 904936.2 | 6.82933 | mg/L | 0.153077 | 6.82933 | mg/L | 0.153077 | 2.24% |
| Cd 228.802† | 10.4 | 0.0036057 | mg/L | 0.00039959 | 0.0036057 | mg/L | 0.00039959 | 11.08% |
| Co 228.616† | 80.9 | 0.0034182 | mg/L | 0.00025915 | 0.0034182 | mg/L | 0.00025915 | 7.58% |
| Cr 267.716† | 19.4 | 0.0018469 | mg/L | 0.00058092 | 0.0018469 | mg/L | 0.00058092 | 31.45% |
| Cu 327.393† | 124.1 | 0.0023308 | mg/L | 0.00167914 | 0.0023308 | mg/L | 0.00167914 | 72.04% |
| Fe 273.955† | 5711.2 | 0.198287 | mg/L | 0.0053775 | 0.198287 | mg/L | 0.0053775 | 2.71% |
| K 404.721† | 1320.9 | 9.16094 | mg/L | 1.380796 | 9.16094 | mg/L | 1.380796 | 15.07% |
| Mg 279.077† | 159190.9 | 6.31913 | mg/L | 0.149547 | 6.31913 | mg/L | 0.149547 | 2.37% |
| Mn 257.610† | 41724.5 | 0.0513982 | mg/L | 0.00129165 | 0.0513982 | mg/L | 0.00129165 | 2.51% |
| Mo 202.031† | 44.2 | 0.0052921 | mg/L | 0.00046978 | 0.0052921 | mg/L | 0.00046978 | 8.88% |
| Na 330.237† | 123829.5 | 87.6772 | mg/L | 2.17134 | 87.6772 | mg/L | 2.17134 | 2.48% |
| Ni 231.604† | 221.2 | 0.0075738 | mg/L | 0.00046869 | 0.0075738 | mg/L | 0.00046869 | 6.19% |
| Pb 220.353† | 21.2 | 0.0074534 | mg/L | 0.00101704 | 0.0074534 | mg/L | 0.00101704 | 13.65% |
| Sb 206.836† | -16.6 | -0.0092277 | mg/L | 0.00835700 | -0.0092277 | mg/L | 0.00835700 | 90.56% |
| Se 196.026† | -5.3 | -0.0038907 | mg/L | 0.00735276 | -0.0038907 | mg/L | 0.00735276 | 188.98% |
| Sn 189.927† | -6.9 | -0.0017005 | mg/L | 0.00042452 | -0.0017005 | mg/L | 0.00042452 | 24.96% |
| Ti 334.940† | 4974.3 | 0.0091369 | mg/L | 0.00014556 | 0.0091369 | mg/L | 0.00014556 | 1.59% |
| Tl 190.801† | -8.0 | -0.0055346 | mg/L | 0.00273208 | -0.0055346 | mg/L | 0.00273208 | 49.36% |
| V 290.880† | 116.7 | 0.0043173 | mg/L | 0.00021985 | 0.0043173 | mg/L | 0.00021985 | 5.09% |
| Zn 206.200† | 556.7 | 0.0139745 | mg/L | 0.00041702 | 0.0139745 | mg/L | 0.00041702 | 2.98% |
| Si 251.611† | 260948.3 | 5.70732 | mg/L | 0.147273 | 5.70732 | mg/L | 0.147273 | 2.58% |
| B 249.772† | 10778.7 | 0.111595 | mg/L | 0.0033246 | 0.111595 | mg/L | 0.0033246 | 2.98% |
| Ce 413.764 | 7.2 | -0.0197742 | mg/L | 0.00111857 | -0.0197742 | mg/L | 0.00111857 | 5.66% |

Sequence No.: 51
Sample ID: AD26083-036
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 60
Date Collected: 9/29/2021 1:33:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-036

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Calib Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 610531.7 | 75.4 | % | 0.87 | | | | 1.15% |
| Y 371.029 | 630972.9 | 74.2 | % | 0.93 | | | | 1.25% |
| Ag 328.068† | -303.6 | -0.0009532 | mg/L | 0.00055061 | -0.0009532 | mg/L | 0.00055061 | 57.77% |
| Al 308.215† | 17124.3 | 0.564731 | mg/L | 0.0038158 | 0.564731 | mg/L | 0.0038158 | 0.68% |
| As 188.979† | 24.0 | 0.0209974 | mg/L | 0.00125438 | 0.0209974 | mg/L | 0.00125438 | 5.97% |
| Ba 233.527† | 4946.5 | 0.0527781 | mg/L | 0.00044102 | 0.0527781 | mg/L | 0.00044102 | 0.84% |
| Be 313.107† | -917.2 | 0.0033787 | mg/L | 0.00001716 | 0.0033787 | mg/L | 0.00001716 | 0.51% |
| Ca 315.887† | Saturated3 | | | | | | | |
| Cd 228.802† | -0.1 | 0.0047292 | mg/L | 0.00033188 | 0.0047292 | mg/L | 0.00033188 | 7.02% |
| Co 228.616† | 342.0 | 0.0113701 | mg/L | 0.00045719 | 0.0113701 | mg/L | 0.00045719 | 4.02% |
| Cr 267.716† | -142.0 | 0.0004772 | mg/L | 0.00047703 | 0.0004772 | mg/L | 0.00047703 | 99.97% |
| Cu 327.393† | -7174.0 | -0.0641530 | mg/L | 0.00068827 | -0.0641530 | mg/L | 0.00068827 | 1.07% |
| Fe 273.955† | 148506.7 | 4.95004 | mg/L | 0.002750 | 4.95004 | mg/L | 0.002750 | 0.06% |
| K 404.721† | 7119.0 | 51.5465 | mg/L | 1.32271 | 51.5465 | mg/L | 1.32271 | 2.57% |
| Mg 279.077† | 8879361.2 | 352.370 | mg/L | 3.4116 | 352.370 | mg/L | 3.4116 | 0.97% |
| Mn 257.610† | 5594500.0 | 6.71672 | mg/L | 0.058387 | 6.71672 | mg/L | 0.058387 | 0.87% |
| Mo 202.031† | 206.0 | 0.0177693 | mg/L | 0.00121122 | 0.0177693 | mg/L | 0.00121122 | 6.82% |
| Na 330.237† | 4476241.3 | 3132.39 | mg/L | 25.964 | 3132.39 | mg/L | 25.964 | 0.83% |
| Ni 231.604† | 808.8 | 0.0253602 | mg/L | 0.00096036 | 0.0253602 | mg/L | 0.00096036 | 3.79% |
| Pb 220.353† | -52.1 | 0.0012372 | mg/L | 0.00221967 | 0.0012372 | mg/L | 0.00221967 | 179.40% |
| Sb 206.836† | -106.0 | -0.0825921 | mg/L | 0.00500869 | -0.0825921 | mg/L | 0.00500869 | 6.06% |
| Se 196.026† | -57.8 | -0.0548193 | mg/L | 0.00410287 | -0.0548193 | mg/L | 0.00410287 | 7.48% |
| Sn 189.927† | -43.7 | -0.0106508 | mg/L | 0.00232011 | -0.0106508 | mg/L | 0.00232011 | 21.78% |
| Ti 334.940† | 30939.0 | 0.0388567 | mg/L | 0.00057585 | 0.0388567 | mg/L | 0.00057585 | 1.48% |
| Tl 190.801† | -36.0 | -0.0379394 | mg/L | 0.00218613 | -0.0379394 | mg/L | 0.00218613 | 5.76% |
| V 290.880† | -1915.4 | -0.0080846 | mg/L | 0.00031721 | -0.0080846 | mg/L | 0.00031721 | 3.92% |
| Zn 206.200† | 417.2 | 0.0112253 | mg/L | 0.00005101 | 0.0112253 | mg/L | 0.00005101 | 0.45% |
| Si 251.611† | 462302.7 | 10.1853 | mg/L | 0.00688 | 10.1853 | mg/L | 0.00688 | 0.07% |
| B 249.772† | 53088.3 | 0.511575 | mg/L | 0.0036029 | 0.511575 | mg/L | 0.0036029 | 0.70% |
| Ce 413.764 | -504.4 | -0.0297458 | mg/L | 0.00170752 | -0.0297458 | mg/L | 0.00170752 | 5.74% |

Sequence No.: 52
Sample ID: AD26083-038
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 9/29/2021 1:38:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-038

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 780075.6 | 96.3 | % | 0.70 | | | | 0.73% |
| Y 371.029 | 820108.2 | 96.5 | % | 0.78 | | | | 0.81% |
| Ag 328.068† | -21.6 | 0.0003222 | mg/L | 0.00014424 | 0.0003222 | mg/L | 0.00014424 | 44.76% |
| Al 308.215† | 1189.2 | 0.0486917 | mg/L | 0.00197913 | 0.0486917 | mg/L | 0.00197913 | 4.06% |
| As 188.979† | 8.4 | 0.0095129 | mg/L | 0.00227907 | 0.0095129 | mg/L | 0.00227907 | 23.96% |
| Ba 233.527† | 5333.3 | 0.0567819 | mg/L | 0.00030024 | 0.0567819 | mg/L | 0.00030024 | 0.53% |
| Be 313.107† | 1330.5 | 0.0040616 | mg/L | 0.00001330 | 0.0040616 | mg/L | 0.00001330 | 0.33% |
| Ca 315.887† | 2678168.3 | 19.6793 | mg/L | 0.05571 | 19.6793 | mg/L | 0.05571 | 0.28% |
| Cd 228.802† | 33.9 | 0.0040993 | mg/L | 0.00022337 | 0.0040993 | mg/L | 0.00022337 | 5.45% |
| Co 228.616† | 76.5 | 0.0031362 | mg/L | 0.00042412 | 0.0031362 | mg/L | 0.00042412 | 13.52% |
| Cr 267.716† | 110.9 | 0.0026231 | mg/L | 0.00023704 | 0.0026231 | mg/L | 0.00023704 | 9.04% |
| Cu 327.393† | 378.1 | 0.0046538 | mg/L | 0.00027714 | 0.0046538 | mg/L | 0.00027714 | 5.96% |
| Fe 273.955† | 7277.7 | 0.250414 | mg/L | 0.0015422 | 0.250414 | mg/L | 0.0015422 | 0.62% |
| K 404.721† | 293.3 | 1.64834 | mg/L | 0.331909 | 1.64834 | mg/L | 0.331909 | 20.14% |
| Mg 279.077† | 166749.8 | 6.61909 | mg/L | 0.039834 | 6.61909 | mg/L | 0.039834 | 0.60% |
| Mn 257.610† | 5839.6 | 0.0083234 | mg/L | 0.00027580 | 0.0083234 | mg/L | 0.00027580 | 3.31% |
| Mo 202.031† | 59.6 | 0.0064670 | mg/L | 0.00071590 | 0.0064670 | mg/L | 0.00071590 | 11.07% |
| Na 330.237† | 23989.9 | 17.8347 | mg/L | 0.11282 | 17.8347 | mg/L | 0.11282 | 0.63% |
| Ni 231.604† | 235.4 | 0.0080037 | mg/L | 0.00035921 | 0.0080037 | mg/L | 0.00035921 | 4.49% |
| Pb 220.353† | 32.9 | 0.0103563 | mg/L | 0.00238932 | 0.0103563 | mg/L | 0.00238932 | 23.07% |
| Sb 206.836† | -5.9 | -0.0004741 | mg/L | 0.00211506 | -0.0004741 | mg/L | 0.00211506 | 446.15% |
| Se 196.026† | -8.9 | -0.0073598 | mg/L | 0.01128623 | -0.0073598 | mg/L | 0.01128623 | 153.35% |
| Sn 189.927† | -9.8 | -0.0023929 | mg/L | 0.00057263 | -0.0023929 | mg/L | 0.00057263 | 23.93% |
| Ti 334.940† | 1310.6 | 0.0049435 | mg/L | 0.00010724 | 0.0049435 | mg/L | 0.00010724 | 2.17% |
| Tl 190.801† | -10.4 | -0.0073621 | mg/L | 0.00161877 | -0.0073621 | mg/L | 0.00161877 | 21.99% |
| V 290.880† | 321.9 | 0.0055697 | mg/L | 0.00069836 | 0.0055697 | mg/L | 0.00069836 | 12.54% |
| Zn 206.200† | 352.5 | 0.0099505 | mg/L | 0.00009351 | 0.0099505 | mg/L | 0.00009351 | 0.94% |
| Si 251.611† | 115072.7 | 2.46474 | mg/L | 0.008441 | 2.46474 | mg/L | 0.008441 | 0.34% |
| B 249.772† | 874.9 | 0.0134891 | mg/L | 0.00014942 | 0.0134891 | mg/L | 0.00014942 | 1.11% |
| Ce 413.764 | -64.9 | -0.0211784 | mg/L | 0.00230376 | -0.0211784 | mg/L | 0.00230376 | 10.88% |

Sequence No.: 53
Sample ID: AD26083-046
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 62
Date Collected: 9/29/2021 1:42:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-046

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 769062.3 | 94.9 | % | 1.51 | | | | 1.59% |
| Y 371.029 | 806152.5 | 94.8 | % | 1.55 | | | | 1.63% |
| Ag 328.068† | -7.3 | 0.0004309 | mg/L | 0.00028752 | 0.0004309 | mg/L | 0.00028752 | 66.73% |
| Al 308.215† | 2241.9 | 0.0827811 | mg/L | 0.00801997 | 0.0827811 | mg/L | 0.00801997 | 9.69% |
| As 188.979† | 13.1 | 0.0130167 | mg/L | 0.00077407 | 0.0130167 | mg/L | 0.00077407 | 5.95% |
| Ba 233.527† | 4935.8 | 0.0526674 | mg/L | 0.00065325 | 0.0526674 | mg/L | 0.00065325 | 1.24% |
| Be 313.107† | 1465.1 | 0.0041024 | mg/L | 0.00003885 | 0.0041024 | mg/L | 0.00003885 | 0.95% |
| Ca 315.887† | 1597061.7 | 11.8449 | mg/L | 0.15483 | 11.8449 | mg/L | 0.15483 | 1.31% |
| Cd 228.802† | 64.5 | 0.0048159 | mg/L | 0.00038905 | 0.0048159 | mg/L | 0.00038905 | 8.08% |
| Co 228.616† | 86.6 | 0.0034377 | mg/L | 0.00004169 | 0.0034377 | mg/L | 0.00004169 | 1.21% |
| Cr 267.716† | 56.5 | 0.0021616 | mg/L | 0.00033613 | 0.0021616 | mg/L | 0.00033613 | 15.55% |
| Cu 327.393† | 512.2 | 0.0057581 | mg/L | 0.00114341 | 0.0057581 | mg/L | 0.00114341 | 19.86% |
| Fe 273.955† | 21027.5 | 0.707963 | mg/L | 0.0079974 | 0.707963 | mg/L | 0.0079974 | 1.13% |
| K 404.721† | 3421.9 | 24.5195 | mg/L | 1.73289 | 24.5195 | mg/L | 1.73289 | 7.07% |
| Mg 279.077† | 51007.2 | 2.02596 | mg/L | 0.025105 | 2.02596 | mg/L | 0.025105 | 1.24% |
| Mn 257.610† | 99739.5 | 0.121037 | mg/L | 0.0015936 | 0.121037 | mg/L | 0.0015936 | 1.32% |
| Mo 202.031† | 51.6 | 0.0058556 | mg/L | 0.00068460 | 0.0058556 | mg/L | 0.00068460 | 11.69% |
| Na 330.237† | 43872.8 | 31.7438 | mg/L | 0.34736 | 31.7438 | mg/L | 0.34736 | 1.09% |
| Ni 231.604† | 179.1 | 0.0062997 | mg/L | 0.00058161 | 0.0062997 | mg/L | 0.00058161 | 9.23% |
| Pb 220.353† | 34.8 | 0.0106819 | mg/L | 0.00059764 | 0.0106819 | mg/L | 0.00059764 | 5.59% |
| Sb 206.836† | -6.7 | -0.0011371 | mg/L | 0.00349591 | -0.0011371 | mg/L | 0.00349591 | 307.45% |
| Se 196.026† | -11.3 | -0.0096457 | mg/L | 0.00233650 | -0.0096457 | mg/L | 0.00233650 | 24.22% |
| Sn 189.927† | -8.3 | -0.0020289 | mg/L | 0.00196152 | -0.0020289 | mg/L | 0.00196152 | 96.68% |
| Ti 334.940† | 2011.7 | 0.0057459 | mg/L | 0.00012511 | 0.0057459 | mg/L | 0.00012511 | 2.18% |
| Tl 190.801† | -7.2 | -0.0042876 | mg/L | 0.00655393 | -0.0042876 | mg/L | 0.00655393 | 152.86% |
| V 290.880† | 152.1 | 0.0045337 | mg/L | 0.00061610 | 0.0045337 | mg/L | 0.00061610 | 13.59% |
| Zn 206.200† | 1549.7 | 0.0335360 | mg/L | 0.00046628 | 0.0335360 | mg/L | 0.00046628 | 1.39% |
| Si 251.611† | 165083.5 | 3.57662 | mg/L | 0.043323 | 3.57662 | mg/L | 0.043323 | 1.21% |
| B 249.772† | 1617.4 | 0.0190694 | mg/L | 0.00048462 | 0.0190694 | mg/L | 0.00048462 | 2.54% |
| Ce 413.764 | -166.2 | -0.0231529 | mg/L | 0.00116317 | -0.0231529 | mg/L | 0.00116317 | 5.02% |

Sequence No.: 54
Sample ID: AD26083-039
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 63
Date Collected: 9/29/2021 1:46:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-039

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 740898.3 | 91.5 | % | 0.10 | | | | 0.11% |
| Y 371.029 | 765574.8 | 90.1 | % | 0.58 | | | | 0.64% |
| Ag 328.068† | 309.4 | 0.0021657 | mg/L | 0.00059929 | 0.0021657 | mg/L | 0.00059929 | 27.67% |
| Al 308.215† | 1620.5 | 0.0626569 | mg/L | 0.01255985 | 0.0626569 | mg/L | 0.01255985 | 20.05% |
| As 188.979† | 59.2 | 0.0469407 | mg/L | 0.01279231 | 0.0469407 | mg/L | 0.01279231 | 27.25% |
| Ba 233.527† | 4537.3 | 0.0485418 | mg/L | 0.00114397 | 0.0485418 | mg/L | 0.00114397 | 2.36% |
| Be 313.107† | 2269.2 | 0.0043467 | mg/L | 0.00007871 | 0.0043467 | mg/L | 0.00007871 | 1.81% |
| Ca 315.887† | 2756959.8 | 20.2503 | mg/L | 0.50396 | 20.2503 | mg/L | 0.50396 | 2.49% |
| Cd 228.802† | 22.7 | 0.0040146 | mg/L | 0.00019692 | 0.0040146 | mg/L | 0.00019692 | 4.91% |
| Co 228.616† | 192.4 | 0.0067491 | mg/L | 0.00100365 | 0.0067491 | mg/L | 0.00100365 | 14.87% |
| Cr 267.716† | -530.3 | -0.0028180 | mg/L | 0.00092189 | -0.0028180 | mg/L | 0.00092189 | 32.71% |
| Cu 327.393† | -1915.0 | -0.0149452 | mg/L | 0.00569493 | -0.0149452 | mg/L | 0.00569493 | 38.11% |
| Fe 273.955† | -450.4 | -0.0067497 | mg/L | 0.00373050 | -0.0067497 | mg/L | 0.00373050 | 55.27% |
| K 404.721† | 1789.7 | 12.5878 | mg/L | 3.19683 | 12.5878 | mg/L | 3.19683 | 25.40% |
| Mg 279.077† | 178768.3 | 7.09604 | mg/L | 0.300174 | 7.09604 | mg/L | 0.300174 | 4.23% |
| Mn 257.610† | 529.0 | 0.0019488 | mg/L | 0.00007128 | 0.0019488 | mg/L | 0.00007128 | 3.66% |
| Mo 202.031† | 180.2 | 0.0157460 | mg/L | 0.00186212 | 0.0157460 | mg/L | 0.00186212 | 11.83% |
| Na 330.237† | 22486.2 | 16.7829 | mg/L | 0.16279 | 16.7829 | mg/L | 0.16279 | 0.97% |
| Ni 231.604† | 937.2 | 0.0292458 | mg/L | 0.00495753 | 0.0292458 | mg/L | 0.00495753 | 16.95% |
| Pb 220.353† | -135.6 | -0.0317719 | mg/L | 0.00928667 | -0.0317719 | mg/L | 0.00928667 | 29.23% |
| Sb 206.836† | -176.6 | -0.140887 | mg/L | 0.0205293 | -0.140887 | mg/L | 0.0205293 | 14.57% |
| Se 196.026† | -23.0 | -0.0211071 | mg/L | 0.00466409 | -0.0211071 | mg/L | 0.00466409 | 22.10% |
| Sn 189.927† | -48.0 | -0.0116939 | mg/L | 0.00169795 | -0.0116939 | mg/L | 0.00169795 | 14.52% |
| Ti 334.940† | 904.8 | 0.0044789 | mg/L | 0.00020908 | 0.0044789 | mg/L | 0.00020908 | 4.67% |
| Tl 190.801† | -13.9 | -0.0113361 | mg/L | 0.00211665 | -0.0113361 | mg/L | 0.00211665 | 18.67% |
| V 290.880† | 1211.0 | 0.0109959 | mg/L | 0.00169304 | 0.0109959 | mg/L | 0.00169304 | 15.40% |
| Zn 206.200† | 2201.9 | 0.0463836 | mg/L | 0.00169561 | 0.0463836 | mg/L | 0.00169561 | 3.66% |
| Si 251.611† | 116488.0 | 2.49609 | mg/L | 0.076555 | 2.49609 | mg/L | 0.076555 | 3.07% |
| B 249.772† | 274.6 | 0.0085439 | mg/L | 0.00230834 | 0.0085439 | mg/L | 0.00230834 | 27.02% |
| Ce 413.764 | 500.2 | -0.0101628 | mg/L | 0.00502916 | -0.0101628 | mg/L | 0.00502916 | 49.49% |

Sequence No.: 55
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 1:50:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 715743.8 | 88.3 | % | 0.93 | | | | 1.05% |
| Y 371.029 | 742066.7 | 87.3 | % | 1.06 | | | | 1.22% |
| Ag 328.068† | 17609.7 | 0.0996532 | mg/L | 0.00047318 | 0.0996532 | mg/L | 0.00047318 | 0.47% |
| QC value within limits for Ag 328.068 Recovery = 99.65% | | | | | | | | |
| Al 308.215† | 153103.5 | 4.96827 | mg/L | 0.040556 | 4.96827 | mg/L | 0.040556 | 0.82% |
| QC value within limits for Al 308.215 Recovery = 99.37% | | | | | | | | |
| As 188.979† | 725.6 | 0.536960 | mg/L | 0.0088149 | 0.536960 | mg/L | 0.0088149 | 1.64% |
| QC value within limits for As 188.979 Recovery = 107.39% | | | | | | | | |
| Ba 233.527† | 46850.5 | 0.486606 | mg/L | 0.0037413 | 0.486606 | mg/L | 0.0037413 | 0.77% |
| QC value within limits for Ba 233.527 Recovery = 97.32% | | | | | | | | |
| Be 313.107† | 1594337.2 | 0.488041 | mg/L | 0.0017875 | 0.488041 | mg/L | 0.0017875 | 0.37% |
| QC value within limits for Be 313.107 Recovery = 97.61% | | | | | | | | |
| Ca 315.887† | 6849773.8 | 49.9095 | mg/L | 0.23944 | 49.9095 | mg/L | 0.23944 | 0.48% |
| QC value within limits for Ca 315.887 Recovery = 99.82% | | | | | | | | |
| Cd 228.802† | 25046.1 | 0.517049 | mg/L | 0.0041529 | 0.517049 | mg/L | 0.0041529 | 0.80% |
| QC value within limits for Cd 228.802 Recovery = 103.41% | | | | | | | | |
| Co 228.616† | 15909.3 | 0.500025 | mg/L | 0.0040459 | 0.500025 | mg/L | 0.0040459 | 0.81% |
| QC value within limits for Co 228.616 Recovery = 100.01% | | | | | | | | |
| Cr 267.716† | 58131.4 | 0.494962 | mg/L | 0.0031924 | 0.494962 | mg/L | 0.0031924 | 0.64% |
| QC value within limits for Cr 267.716 Recovery = 98.99% | | | | | | | | |
| Cu 327.393† | 56896.3 | 0.487585 | mg/L | 0.0021719 | 0.487585 | mg/L | 0.0021719 | 0.45% |
| QC value within limits for Cu 327.393 Recovery = 97.52% | | | | | | | | |
| Fe 273.955† | 147160.6 | 4.90525 | mg/L | 0.038346 | 4.90525 | mg/L | 0.038346 | 0.78% |
| QC value within limits for Fe 273.955 Recovery = 98.10% | | | | | | | | |
| K 404.721† | 7424.3 | 53.7779 | mg/L | 0.51101 | 53.7779 | mg/L | 0.51101 | 0.95% |
| QC value within limits for K 404.721 Recovery = 107.56% | | | | | | | | |
| Mg 279.077† | 1286764.3 | 51.0658 | mg/L | 0.44459 | 51.0658 | mg/L | 0.44459 | 0.87% |
| QC value within limits for Mg 279.077 Recovery = 102.13% | | | | | | | | |
| Mn 257.610† | 408043.1 | 0.491112 | mg/L | 0.0040644 | 0.491112 | mg/L | 0.0040644 | 0.83% |
| QC value within limits for Mn 257.610 Recovery = 98.22% | | | | | | | | |
| Mo 202.031† | 6321.6 | 0.488368 | mg/L | 0.0037655 | 0.488368 | mg/L | 0.0037655 | 0.77% |
| QC value within limits for Mo 202.031 Recovery = 97.67% | | | | | | | | |
| Na 330.237† | 69357.7 | 49.5717 | mg/L | 0.49141 | 49.5717 | mg/L | 0.49141 | 0.99% |
| QC value within limits for Na 330.237 Recovery = 99.14% | | | | | | | | |
| Ni 231.604† | 16957.0 | 0.514106 | mg/L | 0.0050662 | 0.514106 | mg/L | 0.0050662 | 0.99% |
| QC value within limits for Ni 231.604 Recovery = 102.82% | | | | | | | | |
| Pb 220.353† | 2121.9 | 0.536861 | mg/L | 0.0045270 | 0.536861 | mg/L | 0.0045270 | 0.84% |
| QC value within limits for Pb 220.353 Recovery = 107.37% | | | | | | | | |
| Sb 206.836† | 515.6 | 0.434130 | mg/L | 0.0076856 | 0.434130 | mg/L | 0.0076856 | 1.77% |
| QC value less than the lower limit for Sb 206.836 Recovery = 86.83% | | | | | | | | |
| Se 196.026† | 499.5 | 0.486989 | mg/L | 0.0040618 | 0.486989 | mg/L | 0.0040618 | 0.83% |
| QC value within limits for Se 196.026 Recovery = 97.40% | | | | | | | | |
| Sn 189.927† | 2137.4 | 0.519622 | mg/L | 0.0065946 | 0.519622 | mg/L | 0.0065946 | 1.27% |
| QC value within limits for Sn 189.927 Recovery = 103.92% | | | | | | | | |
| Ti 334.940† | 418661.9 | 0.482652 | mg/L | 0.0031850 | 0.482652 | mg/L | 0.0031850 | 0.66% |
| QC value within limits for Ti 334.940 Recovery = 96.53% | | | | | | | | |
| Tl 190.801† | 455.0 | 0.526993 | mg/L | 0.0081905 | 0.526993 | mg/L | 0.0081905 | 1.55% |
| QC value within limits for Tl 190.801 Recovery = 105.40% | | | | | | | | |
| V 290.880† | 79810.7 | 0.490688 | mg/L | 0.0049647 | 0.490688 | mg/L | 0.0049647 | 1.01% |
| QC value within limits for V 290.880 Recovery = 98.14% | | | | | | | | |
| Zn 206.200† | 25677.4 | 0.508850 | mg/L | 0.0067236 | 0.508850 | mg/L | 0.0067236 | 1.32% |
| QC value within limits for Zn 206.200 Recovery = 101.77% | | | | | | | | |
| Si 251.611† | 221839.5 | 4.84011 | mg/L | 0.041847 | 4.84011 | mg/L | 0.041847 | 0.86% |
| QC value within limits for Si 251.611 Recovery = 96.80% | | | | | | | | |
| B 249.772† | 54814.3 | 0.528810 | mg/L | 0.0104499 | 0.528810 | mg/L | 0.0104499 | 1.98% |
| QC value within limits for B 249.772 Recovery = 105.76% | | | | | | | | |
| Ce 413.764 | 24662.4 | 0.460836 | mg/L | 0.0024810 | 0.460836 | mg/L | 0.0024810 | 0.54% |
| QC value within limits for Ce 413.764 Recovery = 92.17% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 56
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 1:54:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 790742.8 | 97.6 | % | 0.23 | | | | 0.24% |
| Y 371.029 | 840727.6 | 98.9 | % | 0.23 | | | | 0.24% |
| Ag 328.068† | 8.6 | 0.0004740 | mg/L | 0.00043948 | 0.0004740 | mg/L | 0.00043948 | 92.72% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -237.8 | 0.0024797 | mg/L | 0.00035209 | 0.0024797 | mg/L | 0.00035209 | 14.20% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 13.2 | 0.0130799 | mg/L | 0.00385697 | 0.0130799 | mg/L | 0.00385697 | 29.49% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -136.5 | 0.0001536 | mg/L | 0.00001735 | 0.0001536 | mg/L | 0.00001735 | 11.29% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1460.5 | 0.0041010 | mg/L | 0.00002412 | 0.0041010 | mg/L | 0.00002412 | 0.59% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 436.2 | 0.274725 | mg/L | 0.0015996 | 0.274725 | mg/L | 0.0015996 | 0.58% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 38.3 | 0.0041140 | mg/L | 0.00030306 | 0.0041140 | mg/L | 0.00030306 | 7.37% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 104.0 | 0.0038418 | mg/L | 0.00060264 | 0.0038418 | mg/L | 0.00060264 | 15.69% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -2.6 | 0.0016600 | mg/L | 0.00065982 | 0.0016600 | mg/L | 0.00065982 | 39.75% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 318.1 | 0.0039826 | mg/L | 0.00068090 | 0.0039826 | mg/L | 0.00068090 | 17.10% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -324.4 | -0.0025590 | mg/L | 0.00188430 | -0.0025590 | mg/L | 0.00188430 | 73.63% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 280.8 | 1.55737 | mg/L | 0.979717 | 1.55737 | mg/L | 0.979717 | 62.91% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -85.4 | -0.0015955 | mg/L | 0.00178381 | -0.0015955 | mg/L | 0.00178381 | 111.80% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -16.2 | 0.0012943 | mg/L | 0.00003505 | 0.0012943 | mg/L | 0.00003505 | 2.71% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 27.9 | 0.0040304 | mg/L | 0.00017185 | 0.0040304 | mg/L | 0.00017185 | 4.26% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 54.7 | 1.09097 | mg/L | 0.099898 | 1.09097 | mg/L | 0.099898 | 9.16% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 192.4 | 0.0067013 | mg/L | 0.00085461 | 0.0067013 | mg/L | 0.00085461 | 12.75% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 30.4 | 0.0094739 | mg/L | 0.00150376 | 0.0094739 | mg/L | 0.00150376 | 15.87% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -20.2 | -0.0122848 | mg/L | 0.00380670 | -0.0122848 | mg/L | 0.00380670 | 30.99% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -1.5 | -0.0001771 | mg/L | 0.00216673 | -0.0001771 | mg/L | 0.00216673 | >999.9% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.8 | -0.0007054 | mg/L | 0.00119507 | -0.0007054 | mg/L | 0.00119507 | 169.42% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 156.4 | 0.0036224 | mg/L | 0.00018966 | 0.0036224 | mg/L | 0.00018966 | 5.24% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -7.0 | -0.0049182 | mg/L | 0.00187807 | -0.0049182 | mg/L | 0.00187807 | 38.19% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 138.3 | 0.0044490 | mg/L | 0.00027139 | 0.0044490 | mg/L | 0.00027139 | 6.10% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -11.0 | 0.0027901 | mg/L | 0.00016519 | 0.0027901 | mg/L | 0.00016519 | 5.92% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 376.6 | -0.0848961 | mg/L | 0.00082213 | -0.0848961 | mg/L | 0.00082213 | 0.97% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 3897.2 | 0.0443400 | mg/L | 0.00161236 | 0.0443400 | mg/L | 0.00161236 | 3.64% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -112.4 | -0.0221042 | mg/L | 0.00068777 | -0.0221042 | mg/L | 0.00068777 | 3.11% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 57
Sample ID: MB 94429 (1)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 64
Date Collected: 9/29/2021 1:58:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 94429 (1)

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 783116.3 | 96.7 | % | 0.36 | | | | 0.37% |
| Y 371.029 | 835361.5 | 98.3 | % | 0.28 | | | | 0.28% |
| Ag 328.068† | 13.0 | 0.0004989 | mg/L | 0.00015205 | 0.0004989 | mg/L | 0.00015205 | 30.48% |
| Al 308.215† | -366.5 | -0.0016871 | mg/L | 0.00142624 | -0.0016871 | mg/L | 0.00142624 | 84.54% |
| As 188.979† | 11.7 | 0.0119736 | mg/L | 0.00076742 | 0.0119736 | mg/L | 0.00076742 | 6.41% |
| Ba 233.527† | -81.0 | 0.0007290 | mg/L | 0.00007943 | 0.0007290 | mg/L | 0.00007943 | 10.90% |
| Be 313.107† | 1345.9 | 0.0040662 | mg/L | 0.00001795 | 0.0040662 | mg/L | 0.00001795 | 0.44% |
| Ca 315.887† | 3735.3 | 0.298632 | mg/L | 0.0061687 | 0.298632 | mg/L | 0.0061687 | 2.07% |
| Cd 228.802† | 40.0 | 0.0041364 | mg/L | 0.00007709 | 0.0041364 | mg/L | 0.00007709 | 1.86% |
| Co 228.616† | 105.4 | 0.0038858 | mg/L | 0.00028029 | 0.0038858 | mg/L | 0.00028029 | 7.21% |
| Cr 267.716† | 83.9 | 0.0023942 | mg/L | 0.00028131 | 0.0023942 | mg/L | 0.00028131 | 11.75% |
| Cu 327.393† | 783.7 | 0.0079631 | mg/L | 0.00038408 | 0.0079631 | mg/L | 0.00038408 | 4.82% |
| Fe 273.955† | 148.2 | 0.0131678 | mg/L | 0.00078893 | 0.0131678 | mg/L | 0.00078893 | 5.99% |
| K 404.721† | 327.1 | 1.89586 | mg/L | 1.040790 | 1.89586 | mg/L | 1.040790 | 54.90% |
| Mg 279.077† | 74.7 | 0.0047569 | mg/L | 0.00304462 | 0.0047569 | mg/L | 0.00304462 | 64.00% |
| Mn 257.610† | 404.9 | 0.0017998 | mg/L | 0.00003385 | 0.0017998 | mg/L | 0.00003385 | 1.88% |
| Mo 202.031† | 16.1 | 0.0031229 | mg/L | 0.00048358 | 0.0031229 | mg/L | 0.00048358 | 15.48% |
| Na 330.237† | 264.9 | 1.23801 | mg/L | 0.063695 | 1.23801 | mg/L | 0.063695 | 5.14% |
| Ni 231.604† | 137.0 | 0.0050261 | mg/L | 0.00018276 | 0.0050261 | mg/L | 0.00018276 | 3.64% |
| Pb 220.353† | 45.2 | 0.0131863 | mg/L | 0.00125377 | 0.0131863 | mg/L | 0.00125377 | 9.51% |
| Sb 206.836† | -2.0 | 0.0027029 | mg/L | 0.00071403 | 0.0027029 | mg/L | 0.00071403 | 26.42% |
| Se 196.026† | -1.2 | 0.0001826 | mg/L | 0.00228741 | 0.0001826 | mg/L | 0.00228741 | >999.9% |
| Sn 189.927† | 2.4 | 0.0005751 | mg/L | 0.00139367 | 0.0005751 | mg/L | 0.00139367 | 242.31% |
| Ti 334.940† | 278.7 | 0.0037623 | mg/L | 0.00003306 | 0.0037623 | mg/L | 0.00003306 | 0.88% |
| Tl 190.801† | -8.0 | -0.0059602 | mg/L | 0.00305652 | -0.0059602 | mg/L | 0.00305652 | 51.28% |
| V 290.880† | -11.8 | 0.0035334 | mg/L | 0.00032968 | 0.0035334 | mg/L | 0.00032968 | 9.33% |
| Zn 206.200† | 151.4 | 0.0059899 | mg/L | 0.00003799 | 0.0059899 | mg/L | 0.00003799 | 0.63% |
| Si 251.611† | 856.5 | -0.0742221 | mg/L | 0.00111676 | -0.0742221 | mg/L | 0.00111676 | 1.50% |
| B 249.772† | 2619.9 | 0.0316525 | mg/L | 0.00226495 | 0.0316525 | mg/L | 0.00226495 | 7.16% |
| Ce 413.764 | -157.9 | -0.0229921 | mg/L | 0.00107383 | -0.0229921 | mg/L | 0.00107383 | 4.67% |

Sequence No.: 58
Sample ID: LCS 94429
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 65
Date Collected: 9/29/2021 2:02:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS 94429

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 730314.8 | 90.1 | % | 0.43 | | | | 0.48% |
| Y 371.029 | 760186.4 | 89.4 | % | 0.44 | | | | 0.49% |
| Ag 328.068† | 17439.2 | 0.0987297 | mg/L | 0.00088572 | 0.0987297 | mg/L | 0.00088572 | 0.90% |
| Al 308.215† | 154130.2 | 5.00152 | mg/L | 0.026923 | 5.00152 | mg/L | 0.026923 | 0.54% |
| As 188.979† | 690.5 | 0.511150 | mg/L | 0.0035102 | 0.511150 | mg/L | 0.0035102 | 0.69% |
| Ba 233.527† | 47163.0 | 0.489841 | mg/L | 0.0024963 | 0.489841 | mg/L | 0.0024963 | 0.51% |
| Be 313.107† | 1595268.7 | 0.488324 | mg/L | 0.0019387 | 0.488324 | mg/L | 0.0019387 | 0.40% |
| Ca 315.887† | 6787890.6 | 49.4611 | mg/L | 0.20012 | 49.4611 | mg/L | 0.20012 | 0.40% |
| Cd 228.802† | 24833.1 | 0.512634 | mg/L | 0.0025495 | 0.512634 | mg/L | 0.0025495 | 0.50% |
| Co 228.616† | 15797.1 | 0.496485 | mg/L | 0.0021089 | 0.496485 | mg/L | 0.0021089 | 0.42% |
| Cr 267.716† | 58736.8 | 0.500099 | mg/L | 0.0019408 | 0.500099 | mg/L | 0.0019408 | 0.39% |
| Cu 327.393† | 58664.7 | 0.502718 | mg/L | 0.0013741 | 0.502718 | mg/L | 0.0013741 | 0.27% |
| Fe 273.955† | 146859.3 | 4.89522 | mg/L | 0.025652 | 4.89522 | mg/L | 0.025652 | 0.52% |
| K 404.721† | 6789.1 | 49.1348 | mg/L | 0.47989 | 49.1348 | mg/L | 0.47989 | 0.98% |
| Mg 279.077† | 1236746.9 | 49.0809 | mg/L | 0.27813 | 49.0809 | mg/L | 0.27813 | 0.57% |
| Mn 257.610† | 408942.7 | 0.492192 | mg/L | 0.0023036 | 0.492192 | mg/L | 0.0023036 | 0.47% |
| Mo 202.031† | 6319.2 | 0.488187 | mg/L | 0.0024727 | 0.488187 | mg/L | 0.0024727 | 0.51% |
| Na 330.237† | 69075.6 | 49.3744 | mg/L | 0.18828 | 49.3744 | mg/L | 0.18828 | 0.38% |
| Ni 231.604† | 16634.8 | 0.504354 | mg/L | 0.0026290 | 0.504354 | mg/L | 0.0026290 | 0.52% |
| Pb 220.353† | 2111.6 | 0.534220 | mg/L | 0.0022949 | 0.534220 | mg/L | 0.0022949 | 0.43% |
| Sb 206.836† | 570.6 | 0.479401 | mg/L | 0.0043272 | 0.479401 | mg/L | 0.0043272 | 0.90% |
| Se 196.026† | 484.9 | 0.472759 | mg/L | 0.0118343 | 0.472759 | mg/L | 0.0118343 | 2.50% |
| Sn 189.927† | 2024.0 | 0.492053 | mg/L | 0.0020991 | 0.492053 | mg/L | 0.0020991 | 0.43% |
| Ti 334.940† | 428176.7 | 0.493543 | mg/L | 0.0020409 | 0.493543 | mg/L | 0.0020409 | 0.41% |
| Tl 190.801† | 442.3 | 0.512607 | mg/L | 0.0006780 | 0.512607 | mg/L | 0.0006780 | 0.13% |
| V 290.880† | 80652.0 | 0.495823 | mg/L | 0.0024007 | 0.495823 | mg/L | 0.0024007 | 0.48% |
| Zn 206.200† | 24661.1 | 0.488830 | mg/L | 0.0019751 | 0.488830 | mg/L | 0.0019751 | 0.40% |
| Si 251.611† | 25141.5 | 0.467798 | mg/L | 0.0052801 | 0.467798 | mg/L | 0.0052801 | 1.13% |
| B 249.772† | 48500.9 | 0.466436 | mg/L | 0.0001002 | 0.466436 | mg/L | 0.0001002 | 0.02% |
| Ce 413.764 | 26813.0 | 0.502758 | mg/L | 0.0029211 | 0.502758 | mg/L | 0.0029211 | 0.58% |

Sequence No.: 59
Sample ID: LCS MR 94429
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 66
Date Collected: 9/29/2021 2:06:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS MR 94429

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 739806.4 | 91.3 | % | 1.36 | | | | 1.49% |
| Y 371.029 | 762190.8 | 89.7 | % | 1.42 | | | | 1.59% |
| Ag 328.068† | 17143.8 | 0.0970720 | mg/L | 0.00250829 | 0.0970720 | mg/L | 0.00250829 | 2.58% |
| Al 308.215† | 151499.3 | 4.91632 | mg/L | 0.112403 | 4.91632 | mg/L | 0.112403 | 2.29% |
| As 188.979† | 669.0 | 0.495360 | mg/L | 0.0112855 | 0.495360 | mg/L | 0.0112855 | 2.28% |
| Ba 233.527† | 46516.1 | 0.483144 | mg/L | 0.0102867 | 0.483144 | mg/L | 0.0102867 | 2.13% |
| Be 313.107† | 1565015.8 | 0.479133 | mg/L | 0.0112204 | 0.479133 | mg/L | 0.0112204 | 2.34% |
| Ca 315.887† | 6658057.0 | 48.5202 | mg/L | 1.09513 | 48.5202 | mg/L | 1.09513 | 2.26% |
| Cd 228.802† | 24371.0 | 0.503148 | mg/L | 0.0099272 | 0.503148 | mg/L | 0.0099272 | 1.97% |
| Co 228.616† | 15505.1 | 0.487321 | mg/L | 0.0101320 | 0.487321 | mg/L | 0.0101320 | 2.08% |
| Cr 267.716† | 57952.5 | 0.493444 | mg/L | 0.0107644 | 0.493444 | mg/L | 0.0107644 | 2.18% |
| Cu 327.393† | 57887.1 | 0.496072 | mg/L | 0.0094765 | 0.496072 | mg/L | 0.0094765 | 1.91% |
| Fe 273.955† | 144808.6 | 4.82698 | mg/L | 0.104164 | 4.82698 | mg/L | 0.104164 | 2.16% |
| K 404.721† | 6567.0 | 47.5112 | mg/L | 1.61540 | 47.5112 | mg/L | 1.61540 | 3.40% |
| Mg 279.077† | 1211311.3 | 48.0715 | mg/L | 1.18519 | 48.0715 | mg/L | 1.18519 | 2.47% |
| Mn 257.610† | 402913.9 | 0.484955 | mg/L | 0.0108547 | 0.484955 | mg/L | 0.0108547 | 2.24% |
| Mo 202.031† | 6199.4 | 0.478964 | mg/L | 0.0090709 | 0.478964 | mg/L | 0.0090709 | 1.89% |
| Na 330.237† | 67794.6 | 48.4782 | mg/L | 1.04966 | 48.4782 | mg/L | 1.04966 | 2.17% |
| Ni 231.604† | 16280.4 | 0.493627 | mg/L | 0.0100484 | 0.493627 | mg/L | 0.0100484 | 2.04% |
| Pb 220.353† | 2075.6 | 0.525147 | mg/L | 0.0081095 | 0.525147 | mg/L | 0.0081095 | 1.54% |
| Sb 206.836† | 557.9 | 0.468868 | mg/L | 0.0053683 | 0.468868 | mg/L | 0.0053683 | 1.14% |
| Se 196.026† | 468.4 | 0.456786 | mg/L | 0.0096658 | 0.456786 | mg/L | 0.0096658 | 2.12% |
| Sn 189.927† | 1987.6 | 0.483199 | mg/L | 0.0093570 | 0.483199 | mg/L | 0.0093570 | 1.94% |
| Ti 334.940† | 421835.2 | 0.486284 | mg/L | 0.0104253 | 0.486284 | mg/L | 0.0104253 | 2.14% |
| Tl 190.801† | 439.3 | 0.509106 | mg/L | 0.0099526 | 0.509106 | mg/L | 0.0099526 | 1.95% |
| V 290.880† | 79438.1 | 0.488414 | mg/L | 0.0112465 | 0.488414 | mg/L | 0.0112465 | 2.30% |
| Zn 206.200† | 24239.2 | 0.480519 | mg/L | 0.0094553 | 0.480519 | mg/L | 0.0094553 | 1.97% |
| Si 251.611† | 24854.6 | 0.461390 | mg/L | 0.0126919 | 0.461390 | mg/L | 0.0126919 | 2.75% |
| B 249.772† | 47572.4 | 0.457520 | mg/L | 0.0093535 | 0.457520 | mg/L | 0.0093535 | 2.04% |
| Ce 413.764 | 26828.4 | 0.503057 | mg/L | 0.0054549 | 0.503057 | mg/L | 0.0054549 | 1.08% |

Sequence No.: 60
Sample ID: AD26083-041
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 67
Date Collected: 9/29/2021 2:10:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 665706.7 | 82.2 | % | 1.32 | | | | 1.61% |
| Y 371.029 | 685674.5 | 80.7 | % | 1.37 | | | | 1.70% |
| Ag 328.068† | -115.3 | 0.0003955 | mg/L | 0.00015497 | 0.0003955 | mg/L | 0.00015497 | 39.18% |
| Al 308.215† | 1895.5 | 0.0715635 | mg/L | 0.00675892 | 0.0715635 | mg/L | 0.00675892 | 9.44% |
| As 188.979† | 23.8 | 0.0208558 | mg/L | 0.00167055 | 0.0208558 | mg/L | 0.00167055 | 8.01% |
| Ba 233.527† | 188704.5 | 1.95521 | mg/L | 0.019048 | 1.95521 | mg/L | 0.019048 | 0.97% |
| Be 313.107† | 2382.5 | 0.0043812 | mg/L | 0.00006586 | 0.0043812 | mg/L | 0.00006586 | 1.50% |
| Ca 315.887† | 11412419.7 | 82.9735 | mg/L | 0.34694 | 82.9735 | mg/L | 0.34694 | 0.42% |
| Cd 228.802† | -84.5 | 0.0041306 | mg/L | 0.00009920 | 0.0041306 | mg/L | 0.00009920 | 2.40% |
| Co 228.616† | 200.1 | 0.0124006 | mg/L | 0.00077207 | 0.0124006 | mg/L | 0.00077207 | 6.23% |
| Cr 267.716† | 222.4 | 0.0035695 | mg/L | 0.00014360 | 0.0035695 | mg/L | 0.00014360 | 4.02% |
| Cu 327.393† | -1017.4 | -0.0078496 | mg/L | 0.00015375 | -0.0078496 | mg/L | 0.00015375 | 1.96% |
| Fe 273.955† | 281286.5 | 9.36851 | mg/L | 0.085457 | 9.36851 | mg/L | 0.085457 | 0.91% |
| K 404.721† | 13515.3 | 98.3049 | mg/L | 1.42259 | 98.3049 | mg/L | 1.42259 | 1.45% |
| Mg 279.077† | 3074994.8 | 122.030 | mg/L | 0.7974 | 122.030 | mg/L | 0.7974 | 0.65% |
| Mn 257.610† | 388027.0 | 0.467085 | mg/L | 0.0045360 | 0.467085 | mg/L | 0.0045360 | 0.97% |
| Mo 202.031† | 114.0 | 0.0106582 | mg/L | 0.00076397 | 0.0106582 | mg/L | 0.00076397 | 7.17% |
| Na 330.237† | 1883187.2 | 1318.43 | mg/L | 3.752 | 1318.43 | mg/L | 3.752 | 0.28% |
| Ni 231.604† | 910.4 | 0.0284340 | mg/L | 0.00072230 | 0.0284340 | mg/L | 0.00072230 | 2.54% |
| Pb 220.353† | -3.2 | 0.0052984 | mg/L | 0.00183802 | 0.0052984 | mg/L | 0.00183802 | 34.69% |
| Sb 206.836† | -67.3 | -0.0509307 | mg/L | 0.00109315 | -0.0509307 | mg/L | 0.00109315 | 2.15% |
| Se 196.026† | -29.5 | -0.0269718 | mg/L | 0.00446247 | -0.0269718 | mg/L | 0.00446247 | 16.54% |
| Sn 189.927† | -21.0 | -0.0051154 | mg/L | 0.00137442 | -0.0051154 | mg/L | 0.00137442 | 26.87% |
| Ti 334.940† | 2957.6 | 0.0068286 | mg/L | 0.00009412 | 0.0068286 | mg/L | 0.00009412 | 1.38% |
| Tl 190.801† | -21.5 | -0.0157390 | mg/L | 0.00436246 | -0.0157390 | mg/L | 0.00436246 | 27.72% |
| V 290.880† | 732.3 | 0.0080747 | mg/L | 0.00106918 | 0.0080747 | mg/L | 0.00106918 | 13.24% |
| Zn 206.200† | 195.3 | 0.0068539 | mg/L | 0.00042467 | 0.0068539 | mg/L | 0.00042467 | 6.20% |
| Si 251.611† | 345163.5 | 7.58343 | mg/L | 0.066024 | 7.58343 | mg/L | 0.066024 | 0.87% |
| B 249.772† | 159624.2 | 1.54776 | mg/L | 0.008584 | 1.54776 | mg/L | 0.008584 | 0.55% |
| Ce 413.764 | -213.6 | -0.0240784 | mg/L | 0.00095868 | -0.0240784 | mg/L | 0.00095868 | 3.98% |

Sequence No.: 61
Sample ID: AD26083-041 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 68
Date Collected: 9/29/2021 2:15:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 MR

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 669364.3 | 82.6 | % | 0.85 | | | | 1.03% |
| Y 371.029 | 695525.6 | 81.8 | % | 0.77 | | | | 0.94% |
| Ag 328.068† | -124.6 | 0.0003085 | mg/L | 0.00033558 | 0.0003085 | mg/L | 0.00033558 | 108.77% |
| Al 308.215† | 1785.5 | 0.0680026 | mg/L | 0.00456208 | 0.0680026 | mg/L | 0.00456208 | 6.71% |
| As 188.979† | 23.9 | 0.0209171 | mg/L | 0.00591108 | 0.0209171 | mg/L | 0.00591108 | 28.26% |
| Ba 233.527† | 177704.8 | 1.84133 | mg/L | 0.015403 | 1.84133 | mg/L | 0.015403 | 0.84% |
| Be 313.107† | 2275.0 | 0.0043485 | mg/L | 0.00001630 | 0.0043485 | mg/L | 0.00001630 | 0.37% |
| Ca 315.887† | 10913101.6 | 79.3551 | mg/L | 1.42611 | 79.3551 | mg/L | 1.42611 | 1.80% |
| Cd 228.802† | -79.6 | 0.0040892 | mg/L | 0.00028578 | 0.0040892 | mg/L | 0.00028578 | 6.99% |
| Co 228.616† | 200.5 | 0.0120888 | mg/L | 0.00057773 | 0.0120888 | mg/L | 0.00057773 | 4.78% |
| Cr 267.716† | 190.7 | 0.0033003 | mg/L | 0.00020335 | 0.0033003 | mg/L | 0.00020335 | 6.16% |
| Cu 327.393† | -1030.9 | -0.0079526 | mg/L | 0.00107559 | -0.0079526 | mg/L | 0.00107559 | 13.52% |
| Fe 273.955† | 265247.9 | 8.83480 | mg/L | 0.074582 | 8.83480 | mg/L | 0.074582 | 0.84% |
| K 404.721† | 12850.1 | 93.4417 | mg/L | 0.61190 | 93.4417 | mg/L | 0.61190 | 0.65% |
| Mg 279.077† | 2952748.7 | 117.179 | mg/L | 2.2495 | 117.179 | mg/L | 2.2495 | 1.92% |
| Mn 257.610† | 365483.4 | 0.440025 | mg/L | 0.0037033 | 0.440025 | mg/L | 0.0037033 | 0.84% |
| Mo 202.031† | 117.9 | 0.0109507 | mg/L | 0.00091297 | 0.0109507 | mg/L | 0.00091297 | 8.34% |
| Na 330.237† | 1804732.7 | 1263.55 | mg/L | 18.008 | 1263.55 | mg/L | 18.008 | 1.43% |
| Ni 231.604† | 878.3 | 0.0274632 | mg/L | 0.00177633 | 0.0274632 | mg/L | 0.00177633 | 6.47% |
| Pb 220.353† | -7.9 | 0.0039535 | mg/L | 0.00037443 | 0.0039535 | mg/L | 0.00037443 | 9.47% |
| Sb 206.836† | -72.7 | -0.0553833 | mg/L | 0.00913172 | -0.0553833 | mg/L | 0.00913172 | 16.49% |
| Se 196.026† | -26.8 | -0.0243678 | mg/L | 0.00920431 | -0.0243678 | mg/L | 0.00920431 | 37.77% |
| Sn 189.927† | -17.3 | -0.0042147 | mg/L | 0.00069917 | -0.0042147 | mg/L | 0.00069917 | 16.59% |
| Ti 334.940† | 3349.5 | 0.0072773 | mg/L | 0.00003075 | 0.0072773 | mg/L | 0.00003075 | 0.42% |
| Tl 190.801† | -21.0 | -0.0153933 | mg/L | 0.00342383 | -0.0153933 | mg/L | 0.00342383 | 22.24% |
| V 290.880† | 567.6 | 0.0070690 | mg/L | 0.00039194 | 0.0070690 | mg/L | 0.00039194 | 5.54% |
| Zn 206.200† | 181.6 | 0.0065843 | mg/L | 0.00011453 | 0.0065843 | mg/L | 0.00011453 | 1.74% |
| Si 251.611† | 325357.1 | 7.14292 | mg/L | 0.063325 | 7.14292 | mg/L | 0.063325 | 0.89% |
| B 249.772† | 150754.2 | 1.46212 | mg/L | 0.021860 | 1.46212 | mg/L | 0.021860 | 1.50% |
| Ce 413.764 | -191.3 | -0.0236423 | mg/L | 0.00053820 | -0.0236423 | mg/L | 0.00053820 | 2.28% |

Sequence No.: 62
Sample ID: AD26083-043 MS 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 69
Date Collected: 9/29/2021 2:19:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-043 MS 1

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 683257.1 | 84.3 | % | 0.29 | | | | 0.34% |
| Y 371.029 | 702721.1 | 82.7 | % | 0.32 | | | | 0.38% |
| Ag 328.068† | 17623.6 | 0.100235 | mg/L | 0.0004045 | 0.100235 | mg/L | 0.0004045 | 0.40% |
| Al 308.215† | 147368.3 | 4.78254 | mg/L | 0.011493 | 4.78254 | mg/L | 0.011493 | 0.24% |
| As 188.979† | 710.4 | 0.525828 | mg/L | 0.0079924 | 0.525828 | mg/L | 0.0079924 | 1.52% |
| Ba 233.527† | 209807.5 | 2.17368 | mg/L | 0.005482 | 2.17368 | mg/L | 0.005482 | 0.25% |
| Be 313.107† | 1591434.6 | 0.487159 | mg/L | 0.0007422 | 0.487159 | mg/L | 0.0007422 | 0.15% |
| Ca 315.887† | 16391376.6 | 119.054 | mg/L | 1.5488 | 119.054 | mg/L | 1.5488 | 1.30% |
| Cd 228.802† | 25115.5 | 0.520326 | mg/L | 0.0074235 | 0.520326 | mg/L | 0.0074235 | 1.43% |
| Co 228.616† | 15683.6 | 0.497704 | mg/L | 0.0068627 | 0.497704 | mg/L | 0.0068627 | 1.38% |
| Cr 267.716† | 57371.2 | 0.488511 | mg/L | 0.0003099 | 0.488511 | mg/L | 0.0003099 | 0.06% |
| Cu 327.393† | 58302.5 | 0.499235 | mg/L | 0.0006539 | 0.499235 | mg/L | 0.0006539 | 0.13% |
| Fe 273.955† | 386434.3 | 12.8675 | mg/L | 0.02920 | 12.8675 | mg/L | 0.02920 | 0.23% |
| K 404.721† | 19448.1 | 141.675 | mg/L | 0.5643 | 141.675 | mg/L | 0.5643 | 0.40% |
| Mg 279.077† | 3902062.4 | 154.851 | mg/L | 0.5502 | 154.851 | mg/L | 0.5502 | 0.36% |
| Mn 257.610† | 732136.5 | 0.880140 | mg/L | 0.0023188 | 0.880140 | mg/L | 0.0023188 | 0.26% |
| Mo 202.031† | 6287.8 | 0.485755 | mg/L | 0.0065280 | 0.485755 | mg/L | 0.0065280 | 1.34% |
| Na 330.237† | 1738454.4 | 1217.18 | mg/L | 4.578 | 1217.18 | mg/L | 4.578 | 0.38% |
| Ni 231.604† | 16689.2 | 0.506001 | mg/L | 0.0075713 | 0.506001 | mg/L | 0.0075713 | 1.50% |
| Pb 220.353† | 2044.2 | 0.520896 | mg/L | 0.0100209 | 0.520896 | mg/L | 0.0100209 | 1.92% |
| Sb 206.836† | 528.8 | 0.444887 | mg/L | 0.0078314 | 0.444887 | mg/L | 0.0078314 | 1.76% |
| Se 196.026† | 488.0 | 0.476299 | mg/L | 0.0123051 | 0.476299 | mg/L | 0.0123051 | 2.58% |
| Sn 189.927† | 2048.1 | 0.497925 | mg/L | 0.0071429 | 0.497925 | mg/L | 0.0071429 | 1.43% |
| Ti 334.940† | 428761.4 | 0.494212 | mg/L | 0.0010129 | 0.494212 | mg/L | 0.0010129 | 0.20% |
| Tl 190.801† | 418.4 | 0.489896 | mg/L | 0.0093241 | 0.489896 | mg/L | 0.0093241 | 1.90% |
| V 290.880† | 80868.4 | 0.497143 | mg/L | 0.0007148 | 0.497143 | mg/L | 0.0007148 | 0.14% |
| Zn 206.200† | 25227.8 | 0.499994 | mg/L | 0.0079578 | 0.499994 | mg/L | 0.0079578 | 1.59% |
| Si 251.611† | 330253.3 | 7.25357 | mg/L | 0.010732 | 7.25357 | mg/L | 0.010732 | 0.15% |
| B 249.772† | 188612.3 | 1.82086 | mg/L | 0.006939 | 1.82086 | mg/L | 0.006939 | 0.38% |
| Ce 413.764 | 23322.3 | 0.434712 | mg/L | 0.0022880 | 0.434712 | mg/L | 0.0022880 | 0.53% |

Sequence No.: 63
Sample ID: AD26083-045 MS 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 70
Date Collected: 9/29/2021 2:23:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-045 MS 2

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 662062.7 | 81.7 | % | 1.17 | | | | 1.44% |
| Y 371.029 | 681079.1 | 80.1 | % | 1.13 | | | | 1.41% |
| Ag 328.068† | 17745.5 | 0.100920 | mg/L | 0.0028729 | 0.100920 | mg/L | 0.0028729 | 2.85% |
| Al 308.215† | 149197.2 | 4.84177 | mg/L | 0.141101 | 4.84177 | mg/L | 0.141101 | 2.91% |
| As 188.979† | 715.6 | 0.529660 | mg/L | 0.0196434 | 0.529660 | mg/L | 0.0196434 | 3.71% |
| Ba 233.527† | 212315.9 | 2.19965 | mg/L | 0.060654 | 2.19965 | mg/L | 0.060654 | 2.76% |
| Be 313.107† | 1610536.8 | 0.492963 | mg/L | 0.0169135 | 0.492963 | mg/L | 0.0169135 | 3.43% |
| Ca 315.887† | 16712586.8 | 121.382 | mg/L | 2.2410 | 121.382 | mg/L | 2.2410 | 1.85% |
| Cd 228.802† | 25370.0 | 0.525566 | mg/L | 0.0157775 | 0.525566 | mg/L | 0.0157775 | 3.00% |
| Co 228.616† | 15817.6 | 0.501965 | mg/L | 0.0156492 | 0.501965 | mg/L | 0.0156492 | 3.12% |
| Cr 267.716† | 57844.4 | 0.492527 | mg/L | 0.0141302 | 0.492527 | mg/L | 0.0141302 | 2.87% |
| Cu 327.393† | 58838.9 | 0.503839 | mg/L | 0.0165972 | 0.503839 | mg/L | 0.0165972 | 3.29% |
| Fe 273.955† | 390559.0 | 13.0047 | mg/L | 0.36390 | 13.0047 | mg/L | 0.36390 | 2.80% |
| K 404.721† | 19673.5 | 143.323 | mg/L | 2.7838 | 143.323 | mg/L | 2.7838 | 1.94% |
| Mg 279.077† | 3919245.7 | 155.533 | mg/L | 3.6603 | 155.533 | mg/L | 3.6603 | 2.35% |
| Mn 257.610† | 740618.6 | 0.890322 | mg/L | 0.0264994 | 0.890322 | mg/L | 0.0264994 | 2.98% |
| Mo 202.031† | 6364.9 | 0.491690 | mg/L | 0.0159136 | 0.491690 | mg/L | 0.0159136 | 3.24% |
| Na 330.237† | 1762133.4 | 1233.75 | mg/L | 24.328 | 1233.75 | mg/L | 24.328 | 1.97% |
| Ni 231.604† | 16850.0 | 0.510867 | mg/L | 0.0156639 | 0.510867 | mg/L | 0.0156639 | 3.07% |
| Pb 220.353† | 2062.3 | 0.525488 | mg/L | 0.0140865 | 0.525488 | mg/L | 0.0140865 | 2.68% |
| Sb 206.836† | 526.2 | 0.442853 | mg/L | 0.0130321 | 0.442853 | mg/L | 0.0130321 | 2.94% |
| Se 196.026† | 477.3 | 0.465851 | mg/L | 0.0120256 | 0.465851 | mg/L | 0.0120256 | 2.58% |
| Sn 189.927† | 2061.9 | 0.501276 | mg/L | 0.0133782 | 0.501276 | mg/L | 0.0133782 | 2.67% |
| Ti 334.940† | 434565.5 | 0.500855 | mg/L | 0.0157940 | 0.500855 | mg/L | 0.0157940 | 3.15% |
| Tl 190.801† | 415.9 | 0.487168 | mg/L | 0.0113344 | 0.487168 | mg/L | 0.0113344 | 2.33% |
| V 290.880† | 81813.5 | 0.502911 | mg/L | 0.0156616 | 0.502911 | mg/L | 0.0156616 | 3.11% |
| Zn 206.200† | 25178.9 | 0.499031 | mg/L | 0.0141607 | 0.499031 | mg/L | 0.0141607 | 2.84% |
| Si 251.611† | 334325.2 | 7.34415 | mg/L | 0.215165 | 7.34415 | mg/L | 0.215165 | 2.93% |
| B 249.772† | 191212.1 | 1.84604 | mg/L | 0.067780 | 1.84604 | mg/L | 0.067780 | 3.67% |
| Ce 413.764 | 22906.1 | 0.426599 | mg/L | 0.0080409 | 0.426599 | mg/L | 0.0080409 | 1.88% |

Sequence No.: 64
Sample ID: AD26083-041 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 71
Date Collected: 9/29/2021 2:28:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 PS

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 669890.1 | 82.7 | % | 1.58 | | | | 1.92% |
| Y 371.029 | 688039.7 | 80.9 | % | 1.63 | | | | 2.02% |
| Ag 328.068† | 10057.7 | 0.0579692 | mg/L | 0.00083115 | 0.0579692 | mg/L | 0.00083115 | 1.43% |
| Al 308.215† | 158663.4 | 5.14832 | mg/L | 0.074018 | 5.14832 | mg/L | 0.074018 | 1.44% |
| As 188.979† | 761.2 | 0.563200 | mg/L | 0.0101268 | 0.563200 | mg/L | 0.0101268 | 1.80% |
| Ba 233.527† | 232899.8 | 2.41276 | mg/L | 0.035648 | 2.41276 | mg/L | 0.035648 | 1.48% |
| Be 313.107† | 1716323.9 | 0.525102 | mg/L | 0.0075624 | 0.525102 | mg/L | 0.0075624 | 1.44% |
| Ca 315.887† | 17961027.8 | 130.429 | mg/L | 2.5469 | 130.429 | mg/L | 2.5469 | 1.95% |
| Cd 228.802† | 27139.0 | 0.562024 | mg/L | 0.0069562 | 0.562024 | mg/L | 0.0069562 | 1.24% |
| Co 228.616† | 16910.4 | 0.536788 | mg/L | 0.0070500 | 0.536788 | mg/L | 0.0070500 | 1.31% |
| Cr 267.716† | 61577.3 | 0.524202 | mg/L | 0.0077665 | 0.524202 | mg/L | 0.0077665 | 1.48% |
| Cu 327.393† | 62475.7 | 0.534868 | mg/L | 0.0061303 | 0.534868 | mg/L | 0.0061303 | 1.15% |
| Fe 273.955† | 425073.9 | 14.1533 | mg/L | 0.22313 | 14.1533 | mg/L | 0.22313 | 1.58% |
| K 404.721† | 21390.1 | 155.872 | mg/L | 2.0426 | 155.872 | mg/L | 2.0426 | 1.31% |
| Mg 279.077† | 4280401.6 | 169.865 | mg/L | 3.1024 | 169.865 | mg/L | 3.1024 | 1.83% |
| Mn 257.610† | 802828.4 | 0.964996 | mg/L | 0.0142791 | 0.964996 | mg/L | 0.0142791 | 1.48% |
| Mo 202.031† | 6773.7 | 0.523143 | mg/L | 0.0073652 | 0.523143 | mg/L | 0.0073652 | 1.41% |
| Na 330.237† | 1938059.7 | 1356.82 | mg/L | 20.642 | 1356.82 | mg/L | 20.642 | 1.52% |
| Ni 231.604† | 17957.5 | 0.544388 | mg/L | 0.0081364 | 0.544388 | mg/L | 0.0081364 | 1.49% |
| Pb 220.353† | 2191.8 | 0.558519 | mg/L | 0.0063635 | 0.558519 | mg/L | 0.0063635 | 1.14% |
| Sb 206.836† | 570.7 | 0.479827 | mg/L | 0.0016218 | 0.479827 | mg/L | 0.0016218 | 0.34% |
| Se 196.026† | 514.5 | 0.502103 | mg/L | 0.0066182 | 0.502103 | mg/L | 0.0066182 | 1.32% |
| Sn 189.927† | 2196.9 | 0.534090 | mg/L | 0.0081696 | 0.534090 | mg/L | 0.0081696 | 1.53% |
| Ti 334.940† | 461646.8 | 0.531853 | mg/L | 0.0067858 | 0.531853 | mg/L | 0.0067858 | 1.28% |
| Tl 190.801† | 444.2 | 0.520074 | mg/L | 0.0032331 | 0.520074 | mg/L | 0.0032331 | 0.62% |
| V 290.880† | 87298.6 | 0.536387 | mg/L | 0.0081627 | 0.536387 | mg/L | 0.0081627 | 1.52% |
| Zn 206.200† | 26950.4 | 0.533929 | mg/L | 0.0063423 | 0.533929 | mg/L | 0.0063423 | 1.19% |
| Si 251.611† | 386676.3 | 8.50835 | mg/L | 0.172613 | 8.50835 | mg/L | 0.172613 | 2.03% |
| B 249.772† | 206307.1 | 1.99084 | mg/L | 0.040737 | 1.99084 | mg/L | 0.040737 | 2.05% |
| Ce 413.764 | 22478.5 | 0.418265 | mg/L | 0.0099402 | 0.418265 | mg/L | 0.0099402 | 2.38% |

Sequence No.: 65
Sample ID: AD26083-041 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 72
Date Collected: 9/29/2021 2:32:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 SD

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 729608.6 | 90.1 | % | 0.61 | | | | 0.68% |
| Y 371.029 | 758153.9 | 89.2 | % | 0.55 | | | | 0.62% |
| Ag 328.068† | -10.3 | 0.0004891 | mg/L | 0.00013968 | 0.0004891 | mg/L | 0.00013968 | 28.56% |
| Al 308.215† | 627.7 | 0.0305069 | mg/L | 0.00168636 | 0.0305069 | mg/L | 0.00168636 | 5.53% |
| As 188.979† | 19.0 | 0.0173544 | mg/L | 0.00144669 | 0.0173544 | mg/L | 0.00144669 | 8.34% |
| Ba 233.527† | 36888.2 | 0.383467 | mg/L | 0.0018897 | 0.383467 | mg/L | 0.0018897 | 0.49% |
| Be 313.107† | 1973.1 | 0.0042568 | mg/L | 0.00003239 | 0.0042568 | mg/L | 0.00003239 | 0.76% |
| Ca 315.887† | 2310987.5 | 17.0185 | mg/L | 0.10319 | 17.0185 | mg/L | 0.10319 | 0.61% |
| Cd 228.802† | 18.3 | 0.0042069 | mg/L | 0.00026171 | 0.0042069 | mg/L | 0.00026171 | 6.22% |
| Co 228.616† | 125.3 | 0.0055955 | mg/L | 0.00049633 | 0.0055955 | mg/L | 0.00049633 | 8.87% |
| Cr 267.716† | 40.6 | 0.0020267 | mg/L | 0.00032726 | 0.0020267 | mg/L | 0.00032726 | 16.15% |
| Cu 327.393† | -154.4 | -0.0001467 | mg/L | 0.00067959 | -0.0001467 | mg/L | 0.00067959 | 463.31% |
| Fe 273.955† | 55518.0 | 1.85569 | mg/L | 0.008289 | 1.85569 | mg/L | 0.008289 | 0.45% |
| K 404.721† | 2354.9 | 16.7194 | mg/L | 0.51034 | 16.7194 | mg/L | 0.51034 | 3.05% |
| Mg 279.077† | 635740.3 | 25.2305 | mg/L | 0.14726 | 25.2305 | mg/L | 0.14726 | 0.58% |
| Mn 257.610† | 76462.4 | 0.0930961 | mg/L | 0.00042266 | 0.0930961 | mg/L | 0.00042266 | 0.45% |
| Mo 202.031† | 53.9 | 0.0060335 | mg/L | 0.00027730 | 0.0060335 | mg/L | 0.00027730 | 4.60% |
| Na 330.237† | 342110.1 | 240.375 | mg/L | 1.4305 | 240.375 | mg/L | 1.4305 | 0.60% |
| Ni 231.604† | 340.0 | 0.0111690 | mg/L | 0.00090954 | 0.0111690 | mg/L | 0.00090954 | 8.14% |
| Pb 220.353† | 21.4 | 0.0081061 | mg/L | 0.00070054 | 0.0081061 | mg/L | 0.00070054 | 8.64% |
| Sb 206.836† | -33.7 | -0.0233369 | mg/L | 0.00496907 | -0.0233369 | mg/L | 0.00496907 | 21.29% |
| Se 196.026† | -13.8 | -0.0120083 | mg/L | 0.00836780 | -0.0120083 | mg/L | 0.00836780 | 69.68% |
| Sn 189.927† | -11.5 | -0.0028262 | mg/L | 0.00176774 | -0.0028262 | mg/L | 0.00176774 | 62.55% |
| Ti 334.940† | 706.3 | 0.0042518 | mg/L | 0.00007470 | 0.0042518 | mg/L | 0.00007470 | 1.76% |
| Tl 190.801† | -13.5 | -0.0111749 | mg/L | 0.00251137 | -0.0111749 | mg/L | 0.00251137 | 22.47% |
| V 290.880† | 205.2 | 0.0048576 | mg/L | 0.00043554 | 0.0048576 | mg/L | 0.00043554 | 8.97% |
| Zn 206.200† | 81.9 | 0.0046192 | mg/L | 0.00024940 | 0.0046192 | mg/L | 0.00024940 | 5.40% |
| Si 251.611† | 67328.5 | 1.40418 | mg/L | 0.003763 | 1.40418 | mg/L | 0.003763 | 0.27% |
| B 249.772† | 33375.5 | 0.328605 | mg/L | 0.0023068 | 0.328605 | mg/L | 0.0023068 | 0.70% |
| Ce 413.764 | -178.7 | -0.0233967 | mg/L | 0.00103454 | -0.0233967 | mg/L | 0.00103454 | 4.42% |

Sequence No.: 66
Sample ID: AD26083-004
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 73
Date Collected: 9/29/2021 2:36:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-004

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 762236.1 | 94.1 | % | 0.43 | | | | 0.46% |
| Y 371.029 | 799926.9 | 94.1 | % | 0.49 | | | | 0.52% |
| Ag 328.068† | -51.5 | 0.0001391 | mg/L | 0.00063222 | 0.0001391 | mg/L | 0.00063222 | 454.66% |
| Al 308.215† | 240.4 | 0.0179658 | mg/L | 0.00247570 | 0.0179658 | mg/L | 0.00247570 | 13.78% |
| As 188.979† | 11.4 | 0.0117284 | mg/L | 0.00225121 | 0.0117284 | mg/L | 0.00225121 | 19.19% |
| Ba 233.527† | 21179.7 | 0.220839 | mg/L | 0.0014899 | 0.220839 | mg/L | 0.0014899 | 0.67% |
| Be 313.107† | 1417.5 | 0.0040880 | mg/L | 0.00002330 | 0.0040880 | mg/L | 0.00002330 | 0.57% |
| Ca 315.887† | 7001247.0 | 51.0072 | mg/L | 0.28973 | 51.0072 | mg/L | 0.28973 | 0.57% |
| Cd 228.802† | 34.7 | 0.0040643 | mg/L | 0.00013009 | 0.0040643 | mg/L | 0.00013009 | 3.20% |
| Co 228.616† | 94.5 | 0.0041672 | mg/L | 0.00059153 | 0.0041672 | mg/L | 0.00059153 | 14.19% |
| Cr 267.716† | 14.5 | 0.0018054 | mg/L | 0.00027016 | 0.0018054 | mg/L | 0.00027016 | 14.96% |
| Cu 327.393† | 157.6 | 0.0029836 | mg/L | 0.00076979 | 0.0029836 | mg/L | 0.00076979 | 25.80% |
| Fe 273.955† | 1385.6 | 0.0543465 | mg/L | 0.00084518 | 0.0543465 | mg/L | 0.00084518 | 1.56% |
| K 404.721† | -228.0 | -2.16239 | mg/L | 0.642860 | -2.16239 | mg/L | 0.642860 | 29.73% |
| Mg 279.077† | 523288.3 | 20.7680 | mg/L | 0.13397 | 20.7680 | mg/L | 0.13397 | 0.65% |
| Mn 257.610† | 69138.2 | 0.0843043 | mg/L | 0.00052069 | 0.0843043 | mg/L | 0.00052069 | 0.62% |
| Mo 202.031† | 67.5 | 0.0070784 | mg/L | 0.00052209 | 0.0070784 | mg/L | 0.00052209 | 7.38% |
| Na 330.237† | 16506.1 | 12.5995 | mg/L | 0.08863 | 12.5995 | mg/L | 0.08863 | 0.70% |
| Ni 231.604† | 226.8 | 0.0077447 | mg/L | 0.00047220 | 0.0077447 | mg/L | 0.00047220 | 6.10% |
| Pb 220.353† | 42.6 | 0.0132498 | mg/L | 0.00078021 | 0.0132498 | mg/L | 0.00078021 | 5.89% |
| Sb 206.836† | -11.1 | -0.0047660 | mg/L | 0.00414743 | -0.0047660 | mg/L | 0.00414743 | 87.02% |
| Se 196.026† | -17.0 | -0.0152565 | mg/L | 0.00781568 | -0.0152565 | mg/L | 0.00781568 | 51.23% |
| Sn 189.927† | -17.8 | -0.0043569 | mg/L | 0.00149391 | -0.0043569 | mg/L | 0.00149391 | 34.29% |
| Ti 334.940† | 457.0 | 0.0039664 | mg/L | 0.00008755 | 0.0039664 | mg/L | 0.00008755 | 2.21% |
| Tl 190.801† | -16.2 | -0.0119010 | mg/L | 0.00105286 | -0.0119010 | mg/L | 0.00105286 | 8.85% |
| V 290.880† | -59.1 | 0.0032443 | mg/L | 0.00032708 | 0.0032443 | mg/L | 0.00032708 | 10.08% |
| Zn 206.200† | 897.9 | 0.0206959 | mg/L | 0.00014216 | 0.0206959 | mg/L | 0.00014216 | 0.69% |
| Si 251.611† | 399578.4 | 8.78880 | mg/L | 0.063335 | 8.78880 | mg/L | 0.063335 | 0.72% |
| B 249.772† | 3025.3 | 0.0355019 | mg/L | 0.00262326 | 0.0355019 | mg/L | 0.00262326 | 7.39% |
| Ce 413.764 | -236.7 | -0.0245272 | mg/L | 0.00039513 | -0.0245272 | mg/L | 0.00039513 | 1.61% |

Sequence No.: 67
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 2:40:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 734825.5 | 90.7 | % | 1.43 | | | | 1.57% |
| Y 371.029 | 781356.9 | 91.9 | % | 0.72 | | | | 0.78% |
| Ag 328.068† | 16833.5 | 0.0952907 | mg/L | 0.00031520 | 0.0952907 | mg/L | 0.00031520 | 0.33% |
| QC value within limits for Ag 328.068 Recovery = 95.29% | | | | | | | | |
| Al 308.215† | 145900.1 | 4.73500 | mg/L | 0.010925 | 4.73500 | mg/L | 0.010925 | 0.23% |
| QC value within limits for Al 308.215 Recovery = 94.70% | | | | | | | | |
| As 188.979† | 658.6 | 0.487674 | mg/L | 0.0016497 | 0.487674 | mg/L | 0.0016497 | 0.34% |
| QC value within limits for As 188.979 Recovery = 97.53% | | | | | | | | |
| Ba 233.527† | 45538.7 | 0.473025 | mg/L | 0.0044008 | 0.473025 | mg/L | 0.0044008 | 0.93% |
| QC value within limits for Ba 233.527 Recovery = 94.61% | | | | | | | | |
| Be 313.107† | 1537898.5 | 0.470894 | mg/L | 0.0066031 | 0.470894 | mg/L | 0.0066031 | 1.40% |
| QC value within limits for Be 313.107 Recovery = 94.18% | | | | | | | | |
| Ca 315.887† | 6533412.5 | 47.6170 | mg/L | 0.66162 | 47.6170 | mg/L | 0.66162 | 1.39% |
| QC value within limits for Ca 315.887 Recovery = 95.23% | | | | | | | | |
| Cd 228.802† | 23898.0 | 0.493352 | mg/L | 0.0044193 | 0.493352 | mg/L | 0.0044193 | 0.90% |
| QC value within limits for Cd 228.802 Recovery = 98.67% | | | | | | | | |
| Co 228.616† | 15085.1 | 0.474154 | mg/L | 0.0049909 | 0.474154 | mg/L | 0.0049909 | 1.05% |
| QC value within limits for Co 228.616 Recovery = 94.83% | | | | | | | | |
| Cr 267.716† | 55605.1 | 0.473525 | mg/L | 0.0014066 | 0.473525 | mg/L | 0.0014066 | 0.30% |
| QC value within limits for Cr 267.716 Recovery = 94.71% | | | | | | | | |
| Cu 327.393† | 55677.3 | 0.477181 | mg/L | 0.0013040 | 0.477181 | mg/L | 0.0013040 | 0.27% |
| QC value within limits for Cu 327.393 Recovery = 95.44% | | | | | | | | |
| Fe 273.955† | 139494.4 | 4.65014 | mg/L | 0.012506 | 4.65014 | mg/L | 0.012506 | 0.27% |
| QC value within limits for Fe 273.955 Recovery = 93.00% | | | | | | | | |
| K 404.721† | 6280.6 | 45.4169 | mg/L | 0.67878 | 45.4169 | mg/L | 0.67878 | 1.49% |
| QC value within limits for K 404.721 Recovery = 90.83% | | | | | | | | |
| Mg 279.077† | 1194398.3 | 47.4003 | mg/L | 0.67274 | 47.4003 | mg/L | 0.67274 | 1.42% |
| QC value within limits for Mg 279.077 Recovery = 94.80% | | | | | | | | |
| Mn 257.610† | 389023.2 | 0.468281 | mg/L | 0.0008597 | 0.468281 | mg/L | 0.0008597 | 0.18% |
| QC value within limits for Mn 257.610 Recovery = 93.66% | | | | | | | | |
| Mo 202.031† | 6021.3 | 0.465259 | mg/L | 0.0043802 | 0.465259 | mg/L | 0.0043802 | 0.94% |
| QC value within limits for Mo 202.031 Recovery = 93.05% | | | | | | | | |
| Na 330.237† | 64759.0 | 46.3547 | mg/L | 0.09384 | 46.3547 | mg/L | 0.09384 | 0.20% |
| QC value within limits for Na 330.237 Recovery = 92.71% | | | | | | | | |
| Ni 231.604† | 15709.1 | 0.476338 | mg/L | 0.0045884 | 0.476338 | mg/L | 0.0045884 | 0.96% |
| QC value within limits for Ni 231.604 Recovery = 95.27% | | | | | | | | |
| Pb 220.353† | 2027.2 | 0.512928 | mg/L | 0.0065006 | 0.512928 | mg/L | 0.0065006 | 1.27% |
| QC value within limits for Pb 220.353 Recovery = 102.59% | | | | | | | | |
| Sb 206.836† | 552.2 | 0.464041 | mg/L | 0.0050098 | 0.464041 | mg/L | 0.0050098 | 1.08% |
| QC value within limits for Sb 206.836 Recovery = 92.81% | | | | | | | | |
| Se 196.026† | 473.6 | 0.461784 | mg/L | 0.0093911 | 0.461784 | mg/L | 0.0093911 | 2.03% |
| QC value within limits for Se 196.026 Recovery = 92.36% | | | | | | | | |
| Sn 189.927† | 1982.6 | 0.481995 | mg/L | 0.0060808 | 0.481995 | mg/L | 0.0060808 | 1.26% |
| QC value within limits for Sn 189.927 Recovery = 96.40% | | | | | | | | |
| Ti 334.940† | 407114.1 | 0.469434 | mg/L | 0.0004151 | 0.469434 | mg/L | 0.0004151 | 0.09% |
| QC value within limits for Ti 334.940 Recovery = 93.89% | | | | | | | | |
| Tl 190.801† | 422.5 | 0.489724 | mg/L | 0.0030305 | 0.489724 | mg/L | 0.0030305 | 0.62% |
| QC value within limits for Tl 190.801 Recovery = 97.94% | | | | | | | | |
| V 290.880† | 76503.0 | 0.470501 | mg/L | 0.0013010 | 0.470501 | mg/L | 0.0013010 | 0.28% |
| QC value within limits for V 290.880 Recovery = 94.10% | | | | | | | | |
| Zn 206.200† | 23525.0 | 0.466449 | mg/L | 0.0046497 | 0.466449 | mg/L | 0.0046497 | 1.00% |
| QC value within limits for Zn 206.200 Recovery = 93.29% | | | | | | | | |
| Si 251.611† | 211313.2 | 4.60601 | mg/L | 0.007934 | 4.60601 | mg/L | 0.007934 | 0.17% |
| QC value within limits for Si 251.611 Recovery = 92.12% | | | | | | | | |
| B 249.772† | 44866.4 | 0.431449 | mg/L | 0.0054258 | 0.431449 | mg/L | 0.0054258 | 1.26% |
| QC value less than the lower limit for B 249.772 Recovery = 86.29% | | | | | | | | |
| Ce 413.764 | 24521.3 | 0.458085 | mg/L | 0.0088530 | 0.458085 | mg/L | 0.0088530 | 1.93% |
| QC value within limits for Ce 413.764 Recovery = 91.62% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 68 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 2:44:50 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 809680.9 | 99.9 | % | 0.97 | | | | 0.97% |
| Y 371.029 | 863806.4 | 102 | % | 1.1 | | | | 1.06% |
| Ag 328.068† | -49.5 | 0.0001465 | mg/L | 0.00019888 | 0.0001465 | mg/L | 0.00019888 | 135.72% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | -353.1 | -0.0012548 | mg/L | 0.00115576 | -0.0012548 | mg/L | 0.00115576 | 92.11% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 12.4 | 0.0124880 | mg/L | 0.00307587 | 0.0124880 | mg/L | 0.00307587 | 24.63% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -66.4 | 0.0008794 | mg/L | 0.00010136 | 0.0008794 | mg/L | 0.00010136 | 11.53% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1654.0 | 0.0041598 | mg/L | 0.00002010 | 0.0041598 | mg/L | 0.00002010 | 0.48% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 857.5 | 0.277777 | mg/L | 0.0017230 | 0.277777 | mg/L | 0.0017230 | 0.62% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 47.3 | 0.0042716 | mg/L | 0.00031535 | 0.0042716 | mg/L | 0.00031535 | 7.38% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 107.7 | 0.0039602 | mg/L | 0.00049211 | 0.0039602 | mg/L | 0.00049211 | 12.43% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 57.0 | 0.0021659 | mg/L | 0.00020993 | 0.0021659 | mg/L | 0.00020993 | 9.69% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 579.9 | 0.0062203 | mg/L | 0.00018223 | 0.0062203 | mg/L | 0.00018223 | 2.93% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -238.2 | 0.0003101 | mg/L | 0.00132333 | 0.0003101 | mg/L | 0.00132333 | 426.73% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 18.8 | -0.357877 | mg/L | 0.8303294 | -0.357877 | mg/L | 0.8303294 | 232.02% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 145.0 | 0.0075463 | mg/L | 0.00163917 | 0.0075463 | mg/L | 0.00163917 | 21.72% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -46.1 | 0.0012584 | mg/L | 0.00006847 | 0.0012584 | mg/L | 0.00006847 | 5.44% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 25.3 | 0.0038298 | mg/L | 0.00048914 | 0.0038298 | mg/L | 0.00048914 | 12.77% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 168.3 | 1.17047 | mg/L | 0.111286 | 1.17047 | mg/L | 0.111286 | 9.51% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 107.4 | 0.0041287 | mg/L | 0.00023823 | 0.0041287 | mg/L | 0.00023823 | 5.77% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 45.6 | 0.0132913 | mg/L | 0.00278981 | 0.0132913 | mg/L | 0.00278981 | 20.99% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -1.7 | 0.0029539 | mg/L | 0.00343975 | 0.0029539 | mg/L | 0.00343975 | 116.45% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -11.2 | -0.0096229 | mg/L | 0.00437106 | -0.0096229 | mg/L | 0.00437106 | 45.42% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -0.0 | -0.0000197 | mg/L | 0.00106358 | -0.0000197 | mg/L | 0.00106358 | >999.9% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 90.3 | 0.0035467 | mg/L | 0.00003227 | 0.0035467 | mg/L | 0.00003227 | 0.91% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -6.9 | -0.0047974 | mg/L | 0.00172160 | -0.0047974 | mg/L | 0.00172160 | 35.89% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 175.5 | 0.0046761 | mg/L | 0.00048005 | 0.0046761 | mg/L | 0.00048005 | 10.27% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -15.2 | 0.0027065 | mg/L | 0.00003635 | 0.0027065 | mg/L | 0.00003635 | 1.34% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 473.8 | -0.0827344 | mg/L | 0.00058151 | -0.0827344 | mg/L | 0.00058151 | 0.70% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 263.8 | 0.0084105 | mg/L | 0.00163038 | 0.0084105 | mg/L | 0.00163038 | 19.39% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -262.5 | -0.0250307 | mg/L | 0.00115347 | -0.0250307 | mg/L | 0.00115347 | 4.61% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 69
Sample ID: AD26083-007
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 74
Date Collected: 9/29/2021 2:48:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-007

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 772369.8 | 95.3 | % | 1.17 | | | | 1.23% |
| Y 371.029 | 810937.0 | 95.4 | % | 1.19 | | | | 1.25% |
| Ag 328.068† | -69.0 | 0.0000428 | mg/L | 0.00050044 | 0.0000428 | mg/L | 0.00050044 | >999.9% |
| Al 308.215† | 532.1 | 0.0274126 | mg/L | 0.00469641 | 0.0274126 | mg/L | 0.00469641 | 17.13% |
| As 188.979† | 15.0 | 0.0143760 | mg/L | 0.00150361 | 0.0143760 | mg/L | 0.00150361 | 10.46% |
| Ba 233.527† | 24337.4 | 0.253530 | mg/L | 0.0021163 | 0.253530 | mg/L | 0.0021163 | 0.83% |
| Be 313.107† | 1472.6 | 0.0041047 | mg/L | 0.00003710 | 0.0041047 | mg/L | 0.00003710 | 0.90% |
| Ca 315.887† | 6376810.8 | 46.4821 | mg/L | 0.42304 | 46.4821 | mg/L | 0.42304 | 0.91% |
| Cd 228.802† | 44.1 | 0.0042492 | mg/L | 0.00035140 | 0.0042492 | mg/L | 0.00035140 | 8.27% |
| Co 228.616† | 110.8 | 0.0047732 | mg/L | 0.00046503 | 0.0047732 | mg/L | 0.00046503 | 9.74% |
| Cr 267.716† | 42.2 | 0.0020402 | mg/L | 0.00026104 | 0.0020402 | mg/L | 0.00026104 | 12.79% |
| Cu 327.393† | 155.0 | 0.0029412 | mg/L | 0.00019257 | 0.0029412 | mg/L | 0.00019257 | 6.55% |
| Fe 273.955† | 1826.4 | 0.0690138 | mg/L | 0.00140545 | 0.0690138 | mg/L | 0.00140545 | 2.04% |
| K 404.721† | -184.8 | -1.84616 | mg/L | 0.957898 | -1.84616 | mg/L | 0.957898 | 51.89% |
| Mg 279.077† | 448403.2 | 17.7962 | mg/L | 0.10225 | 17.7962 | mg/L | 0.10225 | 0.57% |
| Mn 257.610† | 293856.5 | 0.354047 | mg/L | 0.0022525 | 0.354047 | mg/L | 0.0022525 | 0.64% |
| Mo 202.031† | 72.6 | 0.0074661 | mg/L | 0.00060597 | 0.0074661 | mg/L | 0.00060597 | 8.12% |
| Na 330.237† | 12259.8 | 9.62900 | mg/L | 0.074003 | 9.62900 | mg/L | 0.074003 | 0.77% |
| Ni 231.604† | 190.5 | 0.0066462 | mg/L | 0.00070686 | 0.0066462 | mg/L | 0.00070686 | 10.64% |
| Pb 220.353† | 39.3 | 0.0123425 | mg/L | 0.00412665 | 0.0123425 | mg/L | 0.00412665 | 33.43% |
| Sb 206.836† | -15.0 | -0.0079180 | mg/L | 0.00473452 | -0.0079180 | mg/L | 0.00473452 | 59.79% |
| Se 196.026† | -19.8 | -0.0179896 | mg/L | 0.01096185 | -0.0179896 | mg/L | 0.01096185 | 60.93% |
| Sn 189.927† | -17.9 | -0.0043766 | mg/L | 0.00150814 | -0.0043766 | mg/L | 0.00150814 | 34.46% |
| Ti 334.940† | 518.0 | 0.0040362 | mg/L | 0.00013702 | 0.0040362 | mg/L | 0.00013702 | 3.39% |
| Tl 190.801† | -18.0 | -0.0142138 | mg/L | 0.00261868 | -0.0142138 | mg/L | 0.00261868 | 18.42% |
| V 290.880† | -122.5 | 0.0028575 | mg/L | 0.00022863 | 0.0028575 | mg/L | 0.00022863 | 8.00% |
| Zn 206.200† | 692.1 | 0.0166409 | mg/L | 0.00041085 | 0.0166409 | mg/L | 0.00041085 | 2.47% |
| Si 251.611† | 336274.9 | 7.38166 | mg/L | 0.053052 | 7.38166 | mg/L | 0.053052 | 0.72% |
| B 249.772† | 810.6 | 0.0135517 | mg/L | 0.00066700 | 0.0135517 | mg/L | 0.00066700 | 4.92% |
| Ce 413.764 | -221.4 | -0.0242297 | mg/L | 0.00101574 | -0.0242297 | mg/L | 0.00101574 | 4.19% |

Sequence No.: 70
Sample ID: AD26083-013
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 75
Date Collected: 9/29/2021 2:52:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-013

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 799556.3 | 98.7 | % | 0.44 | | | | 0.44% |
| Y 371.029 | 842338.0 | 99.1 | % | 0.42 | | | | 0.42% |
| Ag 328.068† | -361.1 | -0.0006386 | mg/L | 0.00009103 | -0.0006386 | mg/L | 0.00009103 | 14.25% |
| Al 308.215† | 96.5 | 0.0133060 | mg/L | 0.00156758 | 0.0133060 | mg/L | 0.00156758 | 11.78% |
| As 188.979† | 10.7 | 0.0112456 | mg/L | 0.00304609 | 0.0112456 | mg/L | 0.00304609 | 27.09% |
| Ba 233.527† | 7933.8 | 0.0837053 | mg/L | 0.00131738 | 0.0837053 | mg/L | 0.00131738 | 1.57% |
| Be 313.107† | 1359.7 | 0.0040704 | mg/L | 0.00002999 | 0.0040704 | mg/L | 0.00002999 | 0.74% |
| Ca 315.887† | 968646.8 | 7.29102 | mg/L | 0.011820 | 7.29102 | mg/L | 0.011820 | 0.16% |
| Cd 228.802† | -83.4 | 0.0051983 | mg/L | 0.00025606 | 0.0051983 | mg/L | 0.00025606 | 4.93% |
| Co 228.616† | 116.6 | 0.0044734 | mg/L | 0.00042962 | 0.0044734 | mg/L | 0.00042962 | 9.60% |
| Cr 267.716† | -25.9 | 0.0014622 | mg/L | 0.00020901 | 0.0014622 | mg/L | 0.00020901 | 14.29% |
| Cu 327.393† | 382.1 | 0.0045602 | mg/L | 0.00076686 | 0.0045602 | mg/L | 0.00076686 | 16.82% |
| Fe 273.955† | 437124.7 | 14.5543 | mg/L | 0.01646 | 14.5543 | mg/L | 0.01646 | 0.11% |
| K 404.721† | 363.3 | 2.16048 | mg/L | 0.370630 | 2.16048 | mg/L | 0.370630 | 17.15% |
| Mg 279.077† | 118079.9 | 4.68768 | mg/L | 0.003159 | 4.68768 | mg/L | 0.003159 | 0.07% |
| Mn 257.610† | 476509.5 | 0.573296 | mg/L | 0.0004505 | 0.573296 | mg/L | 0.0004505 | 0.08% |
| Mo 202.031† | 43.8 | 0.0052542 | mg/L | 0.00031447 | 0.0052542 | mg/L | 0.00031447 | 5.99% |
| Na 330.237† | 8960.4 | 7.32092 | mg/L | 0.089395 | 7.32092 | mg/L | 0.089395 | 1.22% |
| Ni 231.604† | 141.8 | 0.0051702 | mg/L | 0.00048785 | 0.0051702 | mg/L | 0.00048785 | 9.44% |
| Pb 220.353† | 45.2 | 0.0133626 | mg/L | 0.00018559 | 0.0133626 | mg/L | 0.00018559 | 1.39% |
| Sb 206.836† | -11.3 | -0.0049513 | mg/L | 0.00317861 | -0.0049513 | mg/L | 0.00317861 | 64.20% |
| Se 196.026† | -13.7 | -0.0112752 | mg/L | 0.00627857 | -0.0112752 | mg/L | 0.00627857 | 55.68% |
| Sn 189.927† | 1.9 | 0.0004489 | mg/L | 0.00049848 | 0.0004489 | mg/L | 0.00049848 | 111.04% |
| Ti 334.940† | 338.5 | 0.0038307 | mg/L | 0.00008455 | 0.0038307 | mg/L | 0.00008455 | 2.21% |
| Tl 190.801† | -11.4 | -0.0093854 | mg/L | 0.00512164 | -0.0093854 | mg/L | 0.00512164 | 54.57% |
| V 290.880† | 279.9 | 0.0053137 | mg/L | 0.00033791 | 0.0053137 | mg/L | 0.00033791 | 6.36% |
| Zn 206.200† | 920.1 | 0.0211328 | mg/L | 0.00047910 | 0.0211328 | mg/L | 0.00047910 | 2.27% |
| Si 251.611† | 168172.9 | 3.65153 | mg/L | 0.005952 | 3.65153 | mg/L | 0.005952 | 0.16% |
| B 249.772† | 7668.8 | 0.0256209 | mg/L | 0.00027773 | 0.0256209 | mg/L | 0.00027773 | 1.08% |
| Ce 413.764 | -204.7 | -0.0239033 | mg/L | 0.00022282 | -0.0239033 | mg/L | 0.00022282 | 0.93% |

Sequence No.: 71
Sample ID: AD26083-015
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 76
Date Collected: 9/29/2021 2:56:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-015

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 765340.6 | 94.5 | % | 0.64 | | | | 0.68% |
| Y 371.029 | 797743.4 | 93.9 | % | 0.57 | | | | 0.61% |
| Ag 328.068† | -37.3 | 0.0002277 | mg/L | 0.00047929 | 0.0002277 | mg/L | 0.00047929 | 210.51% |
| Al 308.215† | 693.0 | 0.0326222 | mg/L | 0.00224376 | 0.0326222 | mg/L | 0.00224376 | 6.88% |
| As 188.979† | 29.0 | 0.0246778 | mg/L | 0.00171643 | 0.0246778 | mg/L | 0.00171643 | 6.96% |
| Ba 233.527† | 9204.4 | 0.0968591 | mg/L | 0.00077931 | 0.0968591 | mg/L | 0.00077931 | 0.80% |
| Be 313.107† | 1656.3 | 0.0041605 | mg/L | 0.00002356 | 0.0041605 | mg/L | 0.00002356 | 0.57% |
| Ca 315.887† | 2258219.6 | 16.6361 | mg/L | 0.04203 | 16.6361 | mg/L | 0.04203 | 0.25% |
| Cd 228.802† | 45.1 | 0.0042916 | mg/L | 0.00024493 | 0.0042916 | mg/L | 0.00024493 | 5.71% |
| Co 228.616† | 118.6 | 0.0045713 | mg/L | 0.00031597 | 0.0045713 | mg/L | 0.00031597 | 6.91% |
| Cr 267.716† | 41.8 | 0.0020366 | mg/L | 0.00066517 | 0.0020366 | mg/L | 0.00066517 | 32.66% |
| Cu 327.393† | 192.8 | 0.0030151 | mg/L | 0.00043096 | 0.0030151 | mg/L | 0.00043096 | 14.29% |
| Fe 273.955† | 4892.2 | 0.171033 | mg/L | 0.0018672 | 0.171033 | mg/L | 0.0018672 | 1.09% |
| K 404.721† | 151.2 | 0.609846 | mg/L | 0.4029786 | 0.609846 | mg/L | 0.4029786 | 66.08% |
| Mg 279.077† | 204882.0 | 8.13233 | mg/L | 0.072743 | 8.13233 | mg/L | 0.072743 | 0.89% |
| Mn 257.610† | 64413.5 | 0.0786331 | mg/L | 0.00063256 | 0.0786331 | mg/L | 0.00063256 | 0.80% |
| Mo 202.031† | 74.7 | 0.0076322 | mg/L | 0.00003911 | 0.0076322 | mg/L | 0.00003911 | 0.51% |
| Na 330.237† | 126725.6 | 89.7032 | mg/L | 0.54872 | 89.7032 | mg/L | 0.54872 | 0.61% |
| Ni 231.604† | 181.8 | 0.0063822 | mg/L | 0.00030149 | 0.0063822 | mg/L | 0.00030149 | 4.72% |
| Pb 220.353† | 39.8 | 0.0121315 | mg/L | 0.00045172 | 0.0121315 | mg/L | 0.00045172 | 3.72% |
| Sb 206.836† | -17.0 | -0.0095518 | mg/L | 0.00067519 | -0.0095518 | mg/L | 0.00067519 | 7.07% |
| Se 196.026† | -14.0 | -0.0123599 | mg/L | 0.00465605 | -0.0123599 | mg/L | 0.00465605 | 37.67% |
| Sn 189.927† | -5.8 | -0.0014268 | mg/L | 0.00081605 | -0.0014268 | mg/L | 0.00081605 | 57.20% |
| Ti 334.940† | 772.6 | 0.0043277 | mg/L | 0.00003962 | 0.0043277 | mg/L | 0.00003962 | 0.92% |
| Tl 190.801† | -11.9 | -0.0093492 | mg/L | 0.00461010 | -0.0093492 | mg/L | 0.00461010 | 49.31% |
| V 290.880† | 213.5 | 0.0049081 | mg/L | 0.00007234 | 0.0049081 | mg/L | 0.00007234 | 1.47% |
| Zn 206.200† | 976.0 | 0.0222339 | mg/L | 0.00015995 | 0.0222339 | mg/L | 0.00015995 | 0.72% |
| Si 251.611† | 288160.9 | 6.31220 | mg/L | 0.047826 | 6.31220 | mg/L | 0.047826 | 0.76% |
| B 249.772† | 2396.0 | 0.0288314 | mg/L | 0.00014370 | 0.0288314 | mg/L | 0.00014370 | 0.50% |
| Ce 413.764 | -141.4 | -0.0226705 | mg/L | 0.00114070 | -0.0226705 | mg/L | 0.00114070 | 5.03% |

Sequence No.: 72
Sample ID: AD26083-017
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 77
Date Collected: 9/29/2021 3:00:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-017

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 769411.2 | 95.0 | % | 0.53 | | | | 0.56% |
| Y 371.029 | 807901.6 | 95.0 | % | 0.50 | | | | 0.52% |
| Ag 328.068† | -53.2 | 0.0001309 | mg/L | 0.00048853 | 0.0001309 | mg/L | 0.00048853 | 373.21% |
| Al 308.215† | 416.2 | 0.0236585 | mg/L | 0.00371564 | 0.0236585 | mg/L | 0.00371564 | 15.71% |
| As 188.979† | 11.8 | 0.0120222 | mg/L | 0.00451912 | 0.0120222 | mg/L | 0.00451912 | 37.59% |
| Ba 233.527† | 14057.7 | 0.147106 | mg/L | 0.0020191 | 0.147106 | mg/L | 0.0020191 | 1.37% |
| Be 313.107† | 1589.4 | 0.0041402 | mg/L | 0.00000547 | 0.0041402 | mg/L | 0.00000547 | 0.13% |
| Ca 315.887† | 4474015.8 | 32.6932 | mg/L | 0.12715 | 32.6932 | mg/L | 0.12715 | 0.39% |
| Cd 228.802† | 39.7 | 0.0041561 | mg/L | 0.00027250 | 0.0041561 | mg/L | 0.00027250 | 6.56% |
| Co 228.616† | 115.1 | 0.0046037 | mg/L | 0.00011967 | 0.0046037 | mg/L | 0.00011967 | 2.60% |
| Cr 267.716† | 49.5 | 0.0021016 | mg/L | 0.00010588 | 0.0021016 | mg/L | 0.00010588 | 5.04% |
| Cu 327.393† | 485.1 | 0.0057022 | mg/L | 0.00055144 | 0.0057022 | mg/L | 0.00055144 | 9.67% |
| Fe 273.955† | 2137.8 | 0.0793762 | mg/L | 0.00245070 | 0.0793762 | mg/L | 0.00245070 | 3.09% |
| K 404.721† | 108.7 | 0.299266 | mg/L | 1.4931168 | 0.299266 | mg/L | 1.4931168 | 498.93% |
| Mg 279.077† | 216581.2 | 8.59660 | mg/L | 0.159700 | 8.59660 | mg/L | 0.159700 | 1.86% |
| Mn 257.610† | 121080.1 | 0.146653 | mg/L | 0.0021951 | 0.146653 | mg/L | 0.0021951 | 1.50% |
| Mo 202.031† | 77.1 | 0.0078168 | mg/L | 0.00035435 | 0.0078168 | mg/L | 0.00035435 | 4.53% |
| Na 330.237† | 14705.4 | 11.3398 | mg/L | 0.16752 | 11.3398 | mg/L | 0.16752 | 1.48% |
| Ni 231.604† | 167.8 | 0.0059575 | mg/L | 0.00036674 | 0.0059575 | mg/L | 0.00036674 | 6.16% |
| Pb 220.353† | 41.1 | 0.0124569 | mg/L | 0.00166429 | 0.0124569 | mg/L | 0.00166429 | 13.36% |
| Sb 206.836† | -9.1 | -0.0030689 | mg/L | 0.00423763 | -0.0030689 | mg/L | 0.00423763 | 138.08% |
| Se 196.026† | -11.1 | -0.0094891 | mg/L | 0.00258109 | -0.0094891 | mg/L | 0.00258109 | 27.20% |
| Sn 189.927† | -8.3 | -0.0020456 | mg/L | 0.00085908 | -0.0020456 | mg/L | 0.00085908 | 42.00% |
| Ti 334.940† | 509.7 | 0.0040267 | mg/L | 0.00009827 | 0.0040267 | mg/L | 0.00009827 | 2.44% |
| Tl 190.801† | -15.7 | -0.0126260 | mg/L | 0.00232706 | -0.0126260 | mg/L | 0.00232706 | 18.43% |
| V 290.880† | 66.0 | 0.0040081 | mg/L | 0.00011185 | 0.0040081 | mg/L | 0.00011185 | 2.79% |
| Zn 206.200† | 724.1 | 0.0172717 | mg/L | 0.00012630 | 0.0172717 | mg/L | 0.00012630 | 0.73% |
| Si 251.611† | 261085.8 | 5.71032 | mg/L | 0.092741 | 5.71032 | mg/L | 0.092741 | 1.62% |
| B 249.772† | 1506.6 | 0.0203925 | mg/L | 0.00049010 | 0.0203925 | mg/L | 0.00049010 | 2.40% |
| Ce 413.764 | -280.8 | -0.0253877 | mg/L | 0.00136221 | -0.0253877 | mg/L | 0.00136221 | 5.37% |

Sequence No.: 73
Sample ID: AD26083-020
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 78
Date Collected: 9/29/2021 3:04:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-020

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 679810.1 | 83.9 | % | 0.04 | | | | 0.05% |
| Y 371.029 | 703182.4 | 82.7 | % | 0.15 | | | | 0.18% |
| Ag 328.068† | 74.8 | 0.0008828 | mg/L | 0.00030834 | 0.0008828 | mg/L | 0.00030834 | 34.93% |
| Al 308.215† | 1911.4 | 0.0720773 | mg/L | 0.00210955 | 0.0720773 | mg/L | 0.00210955 | 2.93% |
| As 188.979† | 29.4 | 0.0249837 | mg/L | 0.00071877 | 0.0249837 | mg/L | 0.00071877 | 2.88% |
| Ba 233.527† | 6004.5 | 0.0637310 | mg/L | 0.00011403 | 0.0637310 | mg/L | 0.00011403 | 0.18% |
| Be 313.107† | 2317.9 | 0.0043615 | mg/L | 0.00005441 | 0.0043615 | mg/L | 0.00005441 | 1.25% |
| Ca 315.887† | 3642338.9 | 26.6663 | mg/L | 0.07902 | 26.6663 | mg/L | 0.07902 | 0.30% |
| Cd 228.802† | 49.7 | 0.0045348 | mg/L | 0.00038920 | 0.0045348 | mg/L | 0.00038920 | 8.58% |
| Co 228.616† | 166.9 | 0.0059952 | mg/L | 0.00034453 | 0.0059952 | mg/L | 0.00034453 | 5.75% |
| Cr 267.716† | -224.9 | -0.0002261 | mg/L | 0.00035380 | -0.0002261 | mg/L | 0.00035380 | 156.46% |
| Cu 327.393† | -743.8 | -0.0051844 | mg/L | 0.00048156 | -0.0051844 | mg/L | 0.00048156 | 9.29% |
| Fe 273.955† | 17770.9 | 0.599591 | mg/L | 0.0051686 | 0.599591 | mg/L | 0.0051686 | 0.86% |
| K 404.721† | 3652.8 | 26.2071 | mg/L | 0.52180 | 26.2071 | mg/L | 0.52180 | 1.99% |
| Mg 279.077† | 889460.7 | 35.2992 | mg/L | 0.12254 | 35.2992 | mg/L | 0.12254 | 0.35% |
| Mn 257.610† | 76825.4 | 0.0935317 | mg/L | 0.00081961 | 0.0935317 | mg/L | 0.00081961 | 0.88% |
| Mo 202.031† | 117.3 | 0.0109075 | mg/L | 0.00065983 | 0.0109075 | mg/L | 0.00065983 | 6.05% |
| Na 330.237† | 755432.7 | 529.513 | mg/L | 2.1787 | 529.513 | mg/L | 2.1787 | 0.41% |
| Ni 231.604† | 338.9 | 0.0111361 | mg/L | 0.00025562 | 0.0111361 | mg/L | 0.00025562 | 2.30% |
| Pb 220.353† | 6.2 | 0.0046826 | mg/L | 0.00102876 | 0.0046826 | mg/L | 0.00102876 | 21.97% |
| Sb 206.836† | -62.9 | -0.0473418 | mg/L | 0.00082468 | -0.0473418 | mg/L | 0.00082468 | 1.74% |
| Se 196.026† | -21.7 | -0.0197857 | mg/L | 0.00763209 | -0.0197857 | mg/L | 0.00763209 | 38.57% |
| Sn 189.927† | -21.9 | -0.0053339 | mg/L | 0.00013694 | -0.0053339 | mg/L | 0.00013694 | 2.57% |
| Ti 334.940† | 526.4 | 0.0040458 | mg/L | 0.00008700 | 0.0040458 | mg/L | 0.00008700 | 2.15% |
| Tl 190.801† | -19.4 | -0.0171789 | mg/L | 0.00090619 | -0.0171789 | mg/L | 0.00090619 | 5.28% |
| V 290.880† | 106.6 | 0.0042556 | mg/L | 0.00075211 | 0.0042556 | mg/L | 0.00075211 | 17.67% |
| Zn 206.200† | 122.1 | 0.0054111 | mg/L | 0.00024283 | 0.0054111 | mg/L | 0.00024283 | 4.49% |
| Si 251.611† | 393214.2 | 8.64757 | mg/L | 0.060559 | 8.64757 | mg/L | 0.060559 | 0.70% |
| B 249.772† | 33228.9 | 0.331988 | mg/L | 0.0046050 | 0.331988 | mg/L | 0.0046050 | 1.39% |
| Ce 413.764 | -177.1 | -0.0233669 | mg/L | 0.00122559 | -0.0233669 | mg/L | 0.00122559 | 5.24% |

Sequence No.: 74
Sample ID: AD26083-022
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 79
Date Collected: 9/29/2021 3:09:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-022

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 773354.3 | 95.5 | % | 1.09 | | | | 1.14% |
| Y 371.029 | 812525.0 | 95.6 | % | 0.90 | | | | 0.94% |
| Ag 328.068† | -5.8 | 0.0004078 | mg/L | 0.00020699 | 0.0004078 | mg/L | 0.00020699 | 50.76% |
| Al 308.215† | 400.7 | 0.0231551 | mg/L | 0.00513053 | 0.0231551 | mg/L | 0.00513053 | 22.16% |
| As 188.979† | 15.1 | 0.0145045 | mg/L | 0.00157167 | 0.0145045 | mg/L | 0.00157167 | 10.84% |
| Ba 233.527† | 15640.8 | 0.163495 | mg/L | 0.0016789 | 0.163495 | mg/L | 0.0016789 | 1.03% |
| Be 313.107† | 1586.8 | 0.0041394 | mg/L | 0.00003716 | 0.0041394 | mg/L | 0.00003716 | 0.90% |
| Ca 315.887† | 4200580.0 | 30.7117 | mg/L | 0.06219 | 30.7117 | mg/L | 0.06219 | 0.20% |
| Cd 228.802† | 38.2 | 0.0041658 | mg/L | 0.00030073 | 0.0041658 | mg/L | 0.00030073 | 7.22% |
| Co 228.616† | 114.1 | 0.0046196 | mg/L | 0.00008820 | 0.0046196 | mg/L | 0.00008820 | 1.91% |
| Cr 267.716† | 126.4 | 0.0027542 | mg/L | 0.00035266 | 0.0027542 | mg/L | 0.00035266 | 12.80% |
| Cu 327.393† | 239.9 | 0.0035741 | mg/L | 0.00136350 | 0.0035741 | mg/L | 0.00136350 | 38.15% |
| Fe 273.955† | 6930.0 | 0.238845 | mg/L | 0.0026086 | 0.238845 | mg/L | 0.0026086 | 1.09% |
| K 404.721† | 192.3 | 0.910411 | mg/L | 0.3307026 | 0.910411 | mg/L | 0.3307026 | 36.32% |
| Mg 279.077† | 235703.2 | 9.35544 | mg/L | 0.128633 | 9.35544 | mg/L | 0.128633 | 1.37% |
| Mn 257.610† | 142350.2 | 0.172185 | mg/L | 0.0021566 | 0.172185 | mg/L | 0.0021566 | 1.25% |
| Mo 202.031† | 94.3 | 0.0091382 | mg/L | 0.00039125 | 0.0091382 | mg/L | 0.00039125 | 4.28% |
| Na 330.237† | 23155.9 | 17.2513 | mg/L | 0.16747 | 17.2513 | mg/L | 0.16747 | 0.97% |
| Ni 231.604† | 171.2 | 0.0060622 | mg/L | 0.00025507 | 0.0060622 | mg/L | 0.00025507 | 4.21% |
| Pb 220.353† | 49.7 | 0.0146509 | mg/L | 0.00113215 | 0.0146509 | mg/L | 0.00113215 | 7.73% |
| Sb 206.836† | -14.0 | -0.0070942 | mg/L | 0.00146723 | -0.0070942 | mg/L | 0.00146723 | 20.68% |
| Se 196.026† | -15.4 | -0.0136599 | mg/L | 0.00292677 | -0.0136599 | mg/L | 0.00292677 | 21.43% |
| Sn 189.927† | 5.1 | 0.0012166 | mg/L | 0.00069778 | 0.0012166 | mg/L | 0.00069778 | 57.35% |
| Ti 334.940† | 508.9 | 0.0040258 | mg/L | 0.00001367 | 0.0040258 | mg/L | 0.00001367 | 0.34% |
| Tl 190.801† | -17.4 | -0.0146350 | mg/L | 0.00388035 | -0.0146350 | mg/L | 0.00388035 | 26.51% |
| V 290.880† | 51.0 | 0.0039164 | mg/L | 0.00031280 | 0.0039164 | mg/L | 0.00031280 | 7.99% |
| Zn 206.200† | 2003.6 | 0.0424778 | mg/L | 0.00038075 | 0.0424778 | mg/L | 0.00038075 | 0.90% |
| Si 251.611† | 269150.2 | 5.88965 | mg/L | 0.075103 | 5.88965 | mg/L | 0.075103 | 1.28% |
| B 249.772† | 4737.8 | 0.0517209 | mg/L | 0.00069789 | 0.0517209 | mg/L | 0.00069789 | 1.35% |
| Ce 413.764 | -210.3 | -0.0240130 | mg/L | 0.00100194 | -0.0240130 | mg/L | 0.00100194 | 4.17% |

Sequence No.: 75
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 3:13:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 734054.5 | 90.6 | % | 0.48 | | | | 0.53% |
| Y 371.029 | 765145.0 | 90.0 | % | 0.43 | | | | 0.47% |
| Ag 328.068† | 17329.9 | 0.0980909 | mg/L | 0.00129932 | 0.0980909 | mg/L | 0.00129932 | 1.32% |
| QC value within limits for Ag 328.068 Recovery = 98.09% | | | | | | | | |
| Al 308.215† | 151303.1 | 4.90997 | mg/L | 0.036125 | 4.90997 | mg/L | 0.036125 | 0.74% |
| QC value within limits for Al 308.215 Recovery = 98.20% | | | | | | | | |
| As 188.979† | 680.7 | 0.503936 | mg/L | 0.0081113 | 0.503936 | mg/L | 0.0081113 | 1.61% |
| QC value within limits for As 188.979 Recovery = 100.79% | | | | | | | | |
| Ba 233.527† | 46595.6 | 0.483967 | mg/L | 0.0032617 | 0.483967 | mg/L | 0.0032617 | 0.67% |
| QC value within limits for Ba 233.527 Recovery = 96.79% | | | | | | | | |
| Be 313.107† | 1567452.1 | 0.479873 | mg/L | 0.0009086 | 0.479873 | mg/L | 0.0009086 | 0.19% |
| QC value within limits for Be 313.107 Recovery = 95.97% | | | | | | | | |
| Ca 315.887† | 6679225.5 | 48.6736 | mg/L | 0.08614 | 48.6736 | mg/L | 0.08614 | 0.18% |
| QC value within limits for Ca 315.887 Recovery = 97.35% | | | | | | | | |
| Cd 228.802† | 24540.5 | 0.506531 | mg/L | 0.0046854 | 0.506531 | mg/L | 0.0046854 | 0.92% |
| QC value within limits for Cd 228.802 Recovery = 101.31% | | | | | | | | |
| Co 228.616† | 15530.3 | 0.488115 | mg/L | 0.0047236 | 0.488115 | mg/L | 0.0047236 | 0.97% |
| QC value within limits for Co 228.616 Recovery = 97.62% | | | | | | | | |
| Cr 267.716† | 57560.1 | 0.490114 | mg/L | 0.0041788 | 0.490114 | mg/L | 0.0041788 | 0.85% |
| QC value within limits for Cr 267.716 Recovery = 98.02% | | | | | | | | |
| Cu 327.393† | 57434.7 | 0.492202 | mg/L | 0.0048846 | 0.492202 | mg/L | 0.0048846 | 0.99% |
| QC value within limits for Cu 327.393 Recovery = 98.44% | | | | | | | | |
| Fe 273.955† | 144476.0 | 4.81591 | mg/L | 0.036991 | 4.81591 | mg/L | 0.036991 | 0.77% |
| QC value within limits for Fe 273.955 Recovery = 96.32% | | | | | | | | |
| K 404.721† | 6549.3 | 47.3812 | mg/L | 0.34819 | 47.3812 | mg/L | 0.34819 | 0.73% |
| QC value within limits for K 404.721 Recovery = 94.76% | | | | | | | | |
| Mg 279.077† | 1221240.6 | 48.4655 | mg/L | 0.10892 | 48.4655 | mg/L | 0.10892 | 0.22% |
| QC value within limits for Mg 279.077 Recovery = 96.93% | | | | | | | | |
| Mn 257.610† | 402309.4 | 0.484229 | mg/L | 0.0037569 | 0.484229 | mg/L | 0.0037569 | 0.78% |
| QC value within limits for Mn 257.610 Recovery = 96.85% | | | | | | | | |
| Mo 202.031† | 6212.5 | 0.479977 | mg/L | 0.0050974 | 0.479977 | mg/L | 0.0050974 | 1.06% |
| QC value within limits for Mo 202.031 Recovery = 96.00% | | | | | | | | |
| Na 330.237† | 67250.8 | 48.0978 | mg/L | 0.35278 | 48.0978 | mg/L | 0.35278 | 0.73% |
| QC value within limits for Na 330.237 Recovery = 96.20% | | | | | | | | |
| Ni 231.604† | 16111.3 | 0.488509 | mg/L | 0.0042178 | 0.488509 | mg/L | 0.0042178 | 0.86% |
| QC value within limits for Ni 231.604 Recovery = 97.70% | | | | | | | | |
| Pb 220.353† | 2090.2 | 0.528821 | mg/L | 0.0054876 | 0.528821 | mg/L | 0.0054876 | 1.04% |
| QC value within limits for Pb 220.353 Recovery = 105.76% | | | | | | | | |
| Sb 206.836† | 566.6 | 0.476023 | mg/L | 0.0031646 | 0.476023 | mg/L | 0.0031646 | 0.66% |
| QC value within limits for Sb 206.836 Recovery = 95.20% | | | | | | | | |
| Se 196.026† | 466.7 | 0.455143 | mg/L | 0.0114518 | 0.455143 | mg/L | 0.0114518 | 2.52% |
| QC value within limits for Se 196.026 Recovery = 91.03% | | | | | | | | |
| Sn 189.927† | 2042.3 | 0.496512 | mg/L | 0.0046721 | 0.496512 | mg/L | 0.0046721 | 0.94% |
| QC value within limits for Sn 189.927 Recovery = 99.30% | | | | | | | | |
| Ti 334.940† | 420880.2 | 0.485191 | mg/L | 0.0035500 | 0.485191 | mg/L | 0.0035500 | 0.73% |
| QC value within limits for Ti 334.940 Recovery = 97.04% | | | | | | | | |
| Tl 190.801† | 431.7 | 0.500413 | mg/L | 0.0074861 | 0.500413 | mg/L | 0.0074861 | 1.50% |
| QC value within limits for Tl 190.801 Recovery = 100.08% | | | | | | | | |
| V 290.880† | 79278.6 | 0.487441 | mg/L | 0.0033029 | 0.487441 | mg/L | 0.0033029 | 0.68% |
| QC value within limits for V 290.880 Recovery = 97.49% | | | | | | | | |
| Zn 206.200† | 24188.6 | 0.479521 | mg/L | 0.0046850 | 0.479521 | mg/L | 0.0046850 | 0.98% |
| QC value within limits for Zn 206.200 Recovery = 95.90% | | | | | | | | |
| Si 251.611† | 218650.5 | 4.76918 | mg/L | 0.044478 | 4.76918 | mg/L | 0.044478 | 0.93% |
| QC value within limits for Si 251.611 Recovery = 95.38% | | | | | | | | |
| B 249.772† | 45229.9 | 0.434405 | mg/L | 0.0033457 | 0.434405 | mg/L | 0.0033457 | 0.77% |
| QC value less than the lower limit for B 249.772 Recovery = 86.88% | | | | | | | | |
| Ce 413.764 | 25311.4 | 0.473487 | mg/L | 0.0036495 | 0.473487 | mg/L | 0.0036495 | 0.77% |
| QC value within limits for Ce 413.764 Recovery = 94.70% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 76
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/29/2021 3:17:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 774434.2 | 95.6 | % | 0.37 | | | | 0.39% |
| Y 371.029 | 827274.9 | 97.3 | % | 0.31 | | | | 0.32% |
| Ag 328.068† | -65.6 | 0.0000552 | mg/L | 0.00007295 | 0.0000552 | mg/L | 0.00007295 | 132.05% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 44.1 | 0.0116078 | mg/L | 0.00266165 | 0.0116078 | mg/L | 0.00266165 | 22.93% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 12.9 | 0.0128649 | mg/L | 0.00394753 | 0.0128649 | mg/L | 0.00394753 | 30.68% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -114.8 | 0.0003786 | mg/L | 0.00012373 | 0.0003786 | mg/L | 0.00012373 | 32.68% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 1900.2 | 0.0042346 | mg/L | 0.00000724 | 0.0042346 | mg/L | 0.00000724 | 0.17% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 917.4 | 0.278211 | mg/L | 0.0010648 | 0.278211 | mg/L | 0.0010648 | 0.38% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 58.3 | 0.0044995 | mg/L | 0.00011757 | 0.0044995 | mg/L | 0.00011757 | 2.61% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 144.0 | 0.0050980 | mg/L | 0.00043992 | 0.0050980 | mg/L | 0.00043992 | 8.63% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 54.0 | 0.0021400 | mg/L | 0.00036090 | 0.0021400 | mg/L | 0.00036090 | 16.86% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 330.1 | 0.0040854 | mg/L | 0.00045366 | 0.0040854 | mg/L | 0.00045366 | 11.10% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -298.8 | -0.0017076 | mg/L | 0.00061294 | -0.0017076 | mg/L | 0.00061294 | 35.89% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 279.1 | 1.54501 | mg/L | 0.241734 | 1.54501 | mg/L | 0.241734 | 15.65% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 158.0 | 0.0080617 | mg/L | 0.00157038 | 0.0080617 | mg/L | 0.00157038 | 19.48% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -25.8 | 0.0012828 | mg/L | 0.00008451 | 0.0012828 | mg/L | 0.00008451 | 6.59% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 31.3 | 0.0042945 | mg/L | 0.00026307 | 0.0042945 | mg/L | 0.00026307 | 6.13% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 165.9 | 1.16874 | mg/L | 0.072115 | 1.16874 | mg/L | 0.072115 | 6.17% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 122.3 | 0.0045804 | mg/L | 0.00063002 | 0.0045804 | mg/L | 0.00063002 | 13.75% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 58.6 | 0.0165322 | mg/L | 0.00075948 | 0.0165322 | mg/L | 0.00075948 | 4.59% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -4.9 | 0.0003530 | mg/L | 0.00397511 | 0.0003530 | mg/L | 0.00397511 | >999.9% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -12.7 | -0.0110449 | mg/L | 0.00189241 | -0.0110449 | mg/L | 0.00189241 | 17.13% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -1.2 | -0.0003058 | mg/L | 0.00111299 | -0.0003058 | mg/L | 0.00111299 | 363.97% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 120.8 | 0.0035816 | mg/L | 0.00006704 | 0.0035816 | mg/L | 0.00006704 | 1.87% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -7.8 | -0.0057776 | mg/L | 0.00301086 | -0.0057776 | mg/L | 0.00301086 | 52.11% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 216.6 | 0.0049270 | mg/L | 0.00041301 | 0.0049270 | mg/L | 0.00041301 | 8.38% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -14.7 | 0.0027161 | mg/L | 0.00010966 | 0.0027161 | mg/L | 0.00010966 | 4.04% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 334.4 | -0.0858340 | mg/L | 0.00110369 | -0.0858340 | mg/L | 0.00110369 | 1.29% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -625.9 | -0.0003772 | mg/L | 0.00142166 | -0.0003772 | mg/L | 0.00142166 | 376.91% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -354.8 | -0.0268292 | mg/L | 0.00199447 | -0.0268292 | mg/L | 0.00199447 | 7.43% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Sequence No.: 77
Sample ID: AD26083-024
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 80
Date Collected: 9/29/2021 3:21:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-024

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 758852.8 | 93.7 | % | 1.02 | | | | 1.09% |
| Y 371.029 | 796076.3 | 93.7 | % | 1.00 | | | | 1.07% |
| Ag 328.068† | 30.0 | 0.0006030 | mg/L | 0.00034035 | 0.0006030 | mg/L | 0.00034035 | 56.45% |
| Al 308.215† | 546.0 | 0.0278628 | mg/L | 0.00458593 | 0.0278628 | mg/L | 0.00458593 | 16.46% |
| As 188.979† | 14.2 | 0.0137935 | mg/L | 0.00112369 | 0.0137935 | mg/L | 0.00112369 | 8.15% |
| Ba 233.527† | 14731.8 | 0.154085 | mg/L | 0.0009233 | 0.154085 | mg/L | 0.0009233 | 0.60% |
| Be 313.107† | 1668.6 | 0.0041643 | mg/L | 0.00001517 | 0.0041643 | mg/L | 0.00001517 | 0.36% |
| Ca 315.887† | 3946513.2 | 28.8706 | mg/L | 0.12323 | 28.8706 | mg/L | 0.12323 | 0.43% |
| Cd 228.802† | 50.5 | 0.0043976 | mg/L | 0.00027191 | 0.0043976 | mg/L | 0.00027191 | 6.18% |
| Co 228.616† | 116.9 | 0.0046808 | mg/L | 0.00097131 | 0.0046808 | mg/L | 0.00097131 | 20.75% |
| Cr 267.716† | 10.3 | 0.0017690 | mg/L | 0.00032910 | 0.0017690 | mg/L | 0.00032910 | 18.60% |
| Cu 327.393† | 103.2 | 0.0023899 | mg/L | 0.00092733 | 0.0023899 | mg/L | 0.00092733 | 38.80% |
| Fe 273.955† | 4951.4 | 0.173003 | mg/L | 0.0015931 | 0.173003 | mg/L | 0.0015931 | 0.92% |
| K 404.721† | 259.7 | 1.40276 | mg/L | 0.303098 | 1.40276 | mg/L | 0.303098 | 21.61% |
| Mg 279.077† | 221808.7 | 8.80405 | mg/L | 0.063481 | 8.80405 | mg/L | 0.063481 | 0.72% |
| Mn 257.610† | 134169.2 | 0.162365 | mg/L | 0.0011050 | 0.162365 | mg/L | 0.0011050 | 0.68% |
| Mo 202.031† | 93.1 | 0.0090453 | mg/L | 0.00035401 | 0.0090453 | mg/L | 0.00035401 | 3.91% |
| Na 330.237† | 21715.6 | 16.2438 | mg/L | 0.06647 | 16.2438 | mg/L | 0.06647 | 0.41% |
| Ni 231.604† | 172.2 | 0.0060908 | mg/L | 0.00069866 | 0.0060908 | mg/L | 0.00069866 | 11.47% |
| Pb 220.353† | 52.8 | 0.0154024 | mg/L | 0.00183629 | 0.0154024 | mg/L | 0.00183629 | 11.92% |
| Sb 206.836† | -14.2 | -0.0072568 | mg/L | 0.00361050 | -0.0072568 | mg/L | 0.00361050 | 49.75% |
| Se 196.026† | -10.7 | -0.0090798 | mg/L | 0.00995791 | -0.0090798 | mg/L | 0.00995791 | 109.67% |
| Sn 189.927† | 14.7 | 0.0035447 | mg/L | 0.00103521 | 0.0035447 | mg/L | 0.00103521 | 29.20% |
| Ti 334.940† | 429.3 | 0.0039347 | mg/L | 0.00007158 | 0.0039347 | mg/L | 0.00007158 | 1.82% |
| Tl 190.801† | -16.0 | -0.0132047 | mg/L | 0.00238968 | -0.0132047 | mg/L | 0.00238968 | 18.10% |
| V 290.880† | 115.1 | 0.0043079 | mg/L | 0.00079709 | 0.0043079 | mg/L | 0.00079709 | 18.50% |
| Zn 206.200† | 808.1 | 0.0189261 | mg/L | 0.00011306 | 0.0189261 | mg/L | 0.00011306 | 0.60% |
| Si 251.611† | 252927.3 | 5.52901 | mg/L | 0.044804 | 5.52901 | mg/L | 0.044804 | 0.81% |
| B 249.772† | 4135.4 | 0.0460191 | mg/L | 0.00030205 | 0.0460191 | mg/L | 0.00030205 | 0.66% |
| Ce 413.764 | -269.5 | -0.0251677 | mg/L | 0.00105402 | -0.0251677 | mg/L | 0.00105402 | 4.19% |

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Sequence No.: 78
Sample ID: AD26083-029
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 81
Date Collected: 9/29/2021 3:25:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

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Mean Data: AD26083-029

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 697749.8 | 86.1 | % | 0.55 | | | | 0.63% |
| Y 371.029 | 722812.6 | 85.0 | % | 0.53 | | | | 0.62% |
| Ag 328.068† | -101.0 | -0.0001167 | mg/L | 0.00018993 | -0.0001167 | mg/L | 0.00018993 | 162.80% |
| Al 308.215† | 5529.9 | 0.189259 | mg/L | 0.0015564 | 0.189259 | mg/L | 0.0015564 | 0.82% |
| As 188.979† | 12.5 | 0.0125405 | mg/L | 0.00544334 | 0.0125405 | mg/L | 0.00544334 | 43.41% |
| Ba 233.527† | 128559.9 | 1.33254 | mg/L | 0.006593 | 1.33254 | mg/L | 0.006593 | 0.49% |
| Be 313.107† | 1518.7 | 0.0041187 | mg/L | 0.00001130 | 0.0041187 | mg/L | 0.00001130 | 0.27% |
| Ca 315.887† | 27464222.0 | 199.295 | mg/L | 2.3439 | 199.295 | mg/L | 2.3439 | 1.18% |
| Cd 228.802† | 43.4 | 0.0043528 | mg/L | 0.00027952 | 0.0043528 | mg/L | 0.00027952 | 6.42% |
| Co 228.616† | 47.9 | 0.0058390 | mg/L | 0.00049316 | 0.0058390 | mg/L | 0.00049316 | 8.45% |
| Cr 267.716† | -105.9 | 0.0007833 | mg/L | 0.00019154 | 0.0007833 | mg/L | 0.00019154 | 24.45% |
| Cu 327.393† | -1424.1 | -0.0091806 | mg/L | 0.00069064 | -0.0091806 | mg/L | 0.00069064 | 7.52% |
| Fe 273.955† | 12142.7 | 0.412306 | mg/L | 0.0030777 | 0.412306 | mg/L | 0.0030777 | 0.75% |
| K 404.721† | 1397.2 | 9.71876 | mg/L | 0.396912 | 9.71876 | mg/L | 0.396912 | 4.08% |
| Mg 279.077† | 1474321.6 | 58.5088 | mg/L | 0.33810 | 58.5088 | mg/L | 0.33810 | 0.58% |
| Mn 257.610† | 548504.1 | 0.659715 | mg/L | 0.0029362 | 0.659715 | mg/L | 0.0029362 | 0.45% |
| Mo 202.031† | 147.2 | 0.0132200 | mg/L | 0.00016297 | 0.0132200 | mg/L | 0.00016297 | 1.23% |
| Na 330.237† | 272659.2 | 191.791 | mg/L | 0.8187 | 191.791 | mg/L | 0.8187 | 0.43% |
| Ni 231.604† | 305.7 | 0.0101332 | mg/L | 0.00086419 | 0.0101332 | mg/L | 0.00086419 | 8.53% |
| Pb 220.353† | 25.9 | 0.0104534 | mg/L | 0.00175915 | 0.0104534 | mg/L | 0.00175915 | 16.83% |
| Sb 206.836† | -41.9 | -0.0300237 | mg/L | 0.00392550 | -0.0300237 | mg/L | 0.00392550 | 13.07% |
| Se 196.026† | -31.7 | -0.0295144 | mg/L | 0.00513941 | -0.0295144 | mg/L | 0.00513941 | 17.41% |
| Sn 189.927† | -21.1 | -0.0051594 | mg/L | 0.00096045 | -0.0051594 | mg/L | 0.00096045 | 18.62% |
| Ti 334.940† | 8337.7 | 0.0129868 | mg/L | 0.00004424 | 0.0129868 | mg/L | 0.00004424 | 0.34% |
| Tl 190.801† | -30.8 | -0.0184456 | mg/L | 0.00285233 | -0.0184456 | mg/L | 0.00285233 | 15.46% |
| V 290.880† | -466.5 | 0.0007582 | mg/L | 0.00053536 | 0.0007582 | mg/L | 0.00053536 | 70.61% |
| Zn 206.200† | 908.9 | 0.0209113 | mg/L | 0.00023504 | 0.0209113 | mg/L | 0.00023504 | 1.12% |
| Si 251.611† | 254046.6 | 5.55400 | mg/L | 0.023801 | 5.55400 | mg/L | 0.023801 | 0.43% |
| B 249.772† | 20832.8 | 0.210164 | mg/L | 0.0007437 | 0.210164 | mg/L | 0.0007437 | 0.35% |
| Ce 413.764 | -407.5 | -0.0278565 | mg/L | 0.00120293 | -0.0278565 | mg/L | 0.00120293 | 4.32% |

Sequence No.: 79
Sample ID: AD26083-031
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 82
Date Collected: 9/29/2021 3:29:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-031

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 731876.6 | 90.3 | % | 0.34 | | | | 0.38% |
| Y 371.029 | 765879.3 | 90.1 | % | 0.46 | | | | 0.51% |
| Ag 328.068† | 0.9 | 0.0004288 | mg/L | 0.00028715 | 0.0004288 | mg/L | 0.00028715 | 66.97% |
| Al 308.215† | 716.3 | 0.0333754 | mg/L | 0.00071800 | 0.0333754 | mg/L | 0.00071800 | 2.15% |
| As 188.979† | 19.0 | 0.0173695 | mg/L | 0.00256057 | 0.0173695 | mg/L | 0.00256057 | 14.74% |
| Ba 233.527† | 8255.0 | 0.0870309 | mg/L | 0.00031275 | 0.0870309 | mg/L | 0.00031275 | 0.36% |
| Be 313.107† | 2045.9 | 0.0042789 | mg/L | 0.00001742 | 0.0042789 | mg/L | 0.00001742 | 0.41% |
| Ca 315.887† | 686162.4 | 5.24395 | mg/L | 0.003385 | 5.24395 | mg/L | 0.003385 | 0.06% |
| Cd 228.802† | 52.6 | 0.0044135 | mg/L | 0.00007518 | 0.0044135 | mg/L | 0.00007518 | 1.70% |
| Co 228.616† | 125.3 | 0.0047567 | mg/L | 0.00038847 | 0.0047567 | mg/L | 0.00038847 | 8.17% |
| Cr 267.716† | -35.2 | 0.0013832 | mg/L | 0.00035174 | 0.0013832 | mg/L | 0.00035174 | 25.43% |
| Cu 327.393† | 6.3 | 0.0013214 | mg/L | 0.00015559 | 0.0013214 | mg/L | 0.00015559 | 11.77% |
| Fe 273.955† | 479.2 | 0.0241830 | mg/L | 0.00196861 | 0.0241830 | mg/L | 0.00196861 | 8.14% |
| K 404.721† | 1231.7 | 8.50843 | mg/L | 0.826529 | 8.50843 | mg/L | 0.826529 | 9.71% |
| Mg 279.077† | 123191.7 | 4.89053 | mg/L | 0.005879 | 4.89053 | mg/L | 0.005879 | 0.12% |
| Mn 257.610† | 27224.4 | 0.0339928 | mg/L | 0.00004629 | 0.0339928 | mg/L | 0.00004629 | 0.14% |
| Mo 202.031† | 63.0 | 0.0067266 | mg/L | 0.00061457 | 0.0067266 | mg/L | 0.00061457 | 9.14% |
| Na 330.237† | 97989.9 | 69.6012 | mg/L | 0.26040 | 69.6012 | mg/L | 0.26040 | 0.37% |
| Ni 231.604† | 199.8 | 0.0069262 | mg/L | 0.00036558 | 0.0069262 | mg/L | 0.00036558 | 5.28% |
| Pb 220.353† | 40.8 | 0.0122737 | mg/L | 0.00064774 | 0.0122737 | mg/L | 0.00064774 | 5.28% |
| Sb 206.836† | -21.7 | -0.0134882 | mg/L | 0.00297783 | -0.0134882 | mg/L | 0.00297783 | 22.08% |
| Se 196.026† | -12.0 | -0.0103986 | mg/L | 0.00269098 | -0.0103986 | mg/L | 0.00269098 | 25.88% |
| Sn 189.927† | -7.2 | -0.0017599 | mg/L | 0.00035741 | -0.0017599 | mg/L | 0.00035741 | 20.31% |
| Ti 334.940† | 242.6 | 0.0037210 | mg/L | 0.00004444 | 0.0037210 | mg/L | 0.00004444 | 1.19% |
| Tl 190.801† | -12.8 | -0.0111091 | mg/L | 0.00200670 | -0.0111091 | mg/L | 0.00200670 | 18.06% |
| V 290.880† | 342.1 | 0.0056933 | mg/L | 0.00029041 | 0.0056933 | mg/L | 0.00029041 | 5.10% |
| Zn 206.200† | 229.4 | 0.0075264 | mg/L | 0.00012997 | 0.0075264 | mg/L | 0.00012997 | 1.73% |
| Si 251.611† | 203052.1 | 4.42029 | mg/L | 0.014073 | 4.42029 | mg/L | 0.014073 | 0.32% |
| B 249.772† | 8176.8 | 0.0865444 | mg/L | 0.00038143 | 0.0865444 | mg/L | 0.00038143 | 0.44% |
| Ce 413.764 | -363.6 | -0.0270017 | mg/L | 0.00169960 | -0.0270017 | mg/L | 0.00169960 | 6.29% |

Sequence No.: 80
Sample ID: AD26083-037
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 83
Date Collected: 9/29/2021 3:33:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-037

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 609035.0 | 75.2 | % | 0.77 | | | | 1.03% |
| Y 371.029 | 623478.3 | 73.3 | % | 0.79 | | | | 1.08% |
| Ag 328.068† | -203.1 | -0.0005689 | mg/L | 0.00011859 | -0.0005689 | mg/L | 0.00011859 | 20.85% |
| Al 308.215† | 2439.6 | 0.0891837 | mg/L | 0.00407856 | 0.0891837 | mg/L | 0.00407856 | 4.57% |
| As 188.979† | 29.8 | 0.0253200 | mg/L | 0.00100905 | 0.0253200 | mg/L | 0.00100905 | 3.99% |
| Ba 233.527† | 3664.8 | 0.0395088 | mg/L | 0.00071968 | 0.0395088 | mg/L | 0.00071968 | 1.82% |
| Be 313.107† | 82.7 | 0.0036825 | mg/L | 0.00004072 | 0.0036825 | mg/L | 0.00004072 | 1.11% |
| Ca 315.887† | 108219329 | 784.500 | mg/L | 4.1119 | 784.500 | mg/L | 4.1119 | 0.52% |
| Cd 228.802† | 51.0 | 0.0050710 | mg/L | 0.00029729 | 0.0050710 | mg/L | 0.00029729 | 5.86% |
| Co 228.616† | 350.6 | 0.0116748 | mg/L | 0.00033405 | 0.0116748 | mg/L | 0.00033405 | 2.86% |
| Cr 267.716† | -383.7 | -0.0015737 | mg/L | 0.00008428 | -0.0015737 | mg/L | 0.00008428 | 5.36% |
| Cu 327.393† | -5934.5 | -0.0431521 | mg/L | 0.00063272 | -0.0431521 | mg/L | 0.00063272 | 1.47% |
| Fe 273.955† | 67946.9 | 2.26928 | mg/L | 0.009354 | 2.26928 | mg/L | 0.009354 | 0.41% |
| K 404.721† | 5606.2 | 40.4876 | mg/L | 0.47977 | 40.4876 | mg/L | 0.47977 | 1.18% |
| Mg 279.077† | 6892779.5 | 273.535 | mg/L | 3.0919 | 273.535 | mg/L | 3.0919 | 1.13% |
| Mn 257.610† | 4242021.3 | 5.09326 | mg/L | 0.045758 | 5.09326 | mg/L | 0.045758 | 0.90% |
| Mo 202.031† | 214.4 | 0.0183727 | mg/L | 0.00075962 | 0.0183727 | mg/L | 0.00075962 | 4.13% |
| Na 330.237† | 3565433.0 | 2495.24 | mg/L | 14.974 | 2495.24 | mg/L | 14.974 | 0.60% |
| Ni 231.604† | 684.1 | 0.0215855 | mg/L | 0.00030731 | 0.0215855 | mg/L | 0.00030731 | 1.42% |
| Pb 220.353† | -18.2 | 0.0067748 | mg/L | 0.00177013 | 0.0067748 | mg/L | 0.00177013 | 26.13% |
| Sb 206.836† | -105.9 | -0.0826711 | mg/L | 0.00523652 | -0.0826711 | mg/L | 0.00523652 | 6.33% |
| Se 196.026† | -49.4 | -0.0466775 | mg/L | 0.00772709 | -0.0466775 | mg/L | 0.00772709 | 16.55% |
| Sn 189.927† | -38.6 | -0.0094053 | mg/L | 0.00136800 | -0.0094053 | mg/L | 0.00136800 | 14.55% |
| Ti 334.940† | 6411.6 | 0.0107822 | mg/L | 0.00010724 | 0.0107822 | mg/L | 0.00010724 | 0.99% |
| Tl 190.801† | -37.6 | 0.0137134 | mg/L | 0.00397614 | 0.0137134 | mg/L | 0.00397614 | 28.99% |
| V 290.880† | -1750.0 | -0.0070748 | mg/L | 0.00086192 | -0.0070748 | mg/L | 0.00086192 | 12.18% |
| Zn 206.200† | 419.3 | 0.0112665 | mg/L | 0.00021414 | 0.0112665 | mg/L | 0.00021414 | 1.90% |
| Si 251.611† | 321222.8 | 7.04806 | mg/L | 0.030645 | 7.04806 | mg/L | 0.030645 | 0.43% |
| B 249.772† | 40086.8 | 0.393359 | mg/L | 0.0063145 | 0.393359 | mg/L | 0.0063145 | 1.61% |
| Ce 413.764 | -633.8 | -0.0322679 | mg/L | 0.00077067 | -0.0322679 | mg/L | 0.00077067 | 2.39% |

Sequence No.: 81
Sample ID: AD26083-047
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 84
Date Collected: 9/29/2021 3:39:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-047

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 752659.8 | 92.9 | % | 0.35 | | | | 0.38% |
| Y 371.029 | 789099.3 | 92.8 | % | 0.32 | | | | 0.35% |
| Ag 328.068† | -38.5 | 0.0002071 | mg/L | 0.00029921 | 0.0002071 | mg/L | 0.00029921 | 144.47% |
| Al 308.215† | 1058.2 | 0.0444494 | mg/L | 0.00049563 | 0.0444494 | mg/L | 0.00049563 | 1.12% |
| As 188.979† | 18.1 | 0.0166848 | mg/L | 0.00343269 | 0.0166848 | mg/L | 0.00343269 | 20.57% |
| Ba 233.527† | 3050.6 | 0.0331495 | mg/L | 0.00034484 | 0.0331495 | mg/L | 0.00034484 | 1.04% |
| Be 313.107† | 1965.0 | 0.0042543 | mg/L | 0.00001089 | 0.0042543 | mg/L | 0.00001089 | 0.26% |
| Ca 315.887† | 1222398.1 | 9.12986 | mg/L | 0.040671 | 9.12986 | mg/L | 0.040671 | 0.45% |
| Cd 228.802† | 54.9 | 0.0044554 | mg/L | 0.00019437 | 0.0044554 | mg/L | 0.00019437 | 4.36% |
| Co 228.616† | 142.8 | 0.0051500 | mg/L | 0.00026048 | 0.0051500 | mg/L | 0.00026048 | 5.06% |
| Cr 267.716† | -56.1 | 0.0012060 | mg/L | 0.00028816 | 0.0012060 | mg/L | 0.00028816 | 23.89% |
| Cu 327.393† | 215.5 | 0.0031951 | mg/L | 0.00067321 | 0.0031951 | mg/L | 0.00067321 | 21.07% |
| Fe 273.955† | 342.2 | 0.0196256 | mg/L | 0.00099585 | 0.0196256 | mg/L | 0.00099585 | 5.07% |
| K 404.721† | 2733.8 | 19.4890 | mg/L | 0.70283 | 19.4890 | mg/L | 0.70283 | 3.61% |
| Mg 279.077† | 39647.0 | 1.57514 | mg/L | 0.012373 | 1.57514 | mg/L | 0.012373 | 0.79% |
| Mn 257.610† | 9325.6 | 0.0125079 | mg/L | 0.00017440 | 0.0125079 | mg/L | 0.00017440 | 1.39% |
| Mo 202.031† | 79.6 | 0.0080088 | mg/L | 0.00034915 | 0.0080088 | mg/L | 0.00034915 | 4.36% |
| Na 330.237† | 34972.6 | 25.5177 | mg/L | 0.13499 | 25.5177 | mg/L | 0.13499 | 0.53% |
| Ni 231.604† | 193.9 | 0.0067474 | mg/L | 0.00025652 | 0.0067474 | mg/L | 0.00025652 | 3.80% |
| Pb 220.353† | 47.2 | 0.0137678 | mg/L | 0.00099875 | 0.0137678 | mg/L | 0.00099875 | 7.25% |
| Sb 206.836† | -19.0 | -0.0112284 | mg/L | 0.00297698 | -0.0112284 | mg/L | 0.00297698 | 26.51% |
| Se 196.026† | -14.9 | -0.0131891 | mg/L | 0.00346214 | -0.0131891 | mg/L | 0.00346214 | 26.25% |
| Sn 189.927† | 5.7 | 0.0013694 | mg/L | 0.00131848 | 0.0013694 | mg/L | 0.00131848 | 96.28% |
| Ti 334.940† | 316.7 | 0.0038059 | mg/L | 0.00007441 | 0.0038059 | mg/L | 0.00007441 | 1.96% |
| Tl 190.801† | -12.9 | -0.0110287 | mg/L | 0.00035910 | -0.0110287 | mg/L | 0.00035910 | 3.26% |
| V 290.880† | 388.6 | 0.0059769 | mg/L | 0.00025234 | 0.0059769 | mg/L | 0.00025234 | 4.22% |
| Zn 206.200† | 795.6 | 0.0186805 | mg/L | 0.00019810 | 0.0186805 | mg/L | 0.00019810 | 1.06% |
| Si 251.611† | 125526.0 | 2.69700 | mg/L | 0.002630 | 2.69700 | mg/L | 0.002630 | 0.10% |
| B 249.772† | 1039.6 | 0.0160049 | mg/L | 0.00058353 | 0.0160049 | mg/L | 0.00058353 | 3.65% |
| Ce 413.764 | -422.0 | -0.0281402 | mg/L | 0.00044682 | -0.0281402 | mg/L | 0.00044682 | 1.59% |

Sequence No.: 82
Sample ID: AD26083-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 85
Date Collected: 9/29/2021 3:43:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-003

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 734574.6 | 90.7 | % | 0.58 | | | | 0.64% |
| Y 371.029 | 770866.2 | 90.7 | % | 0.55 | | | | 0.61% |
| Ag 328.068† | -97.0 | -0.0000453 | mg/L | 0.00014398 | -0.0000453 | mg/L | 0.00014398 | 317.52% |
| Al 308.215† | 15093.6 | 0.498969 | mg/L | 0.0137234 | 0.498969 | mg/L | 0.0137234 | 2.75% |
| As 188.979† | 15.2 | 0.0145022 | mg/L | 0.00146615 | 0.0145022 | mg/L | 0.00146615 | 10.11% |
| Ba 233.527† | 29391.3 | 0.305852 | mg/L | 0.0026450 | 0.305852 | mg/L | 0.0026450 | 0.86% |
| Be 313.107† | 1822.5 | 0.0042110 | mg/L | 0.00002990 | 0.0042110 | mg/L | 0.00002990 | 0.71% |
| Ca 315.887† | 9587763.3 | 69.7508 | mg/L | 0.10734 | 69.7508 | mg/L | 0.10734 | 0.15% |
| Cd 228.802† | 28.1 | 0.0042759 | mg/L | 0.00022159 | 0.0042759 | mg/L | 0.00022159 | 5.18% |
| Co 228.616† | 146.6 | 0.0059926 | mg/L | 0.00026512 | 0.0059926 | mg/L | 0.00026512 | 4.42% |
| Cr 267.716† | 166.7 | 0.0030967 | mg/L | 0.00027586 | 0.0030967 | mg/L | 0.00027586 | 8.91% |
| Cu 327.393† | 17.4 | 0.0019237 | mg/L | 0.00074306 | 0.0019237 | mg/L | 0.00074306 | 38.63% |
| Fe 273.955† | 34236.0 | 1.14750 | mg/L | 0.023881 | 1.14750 | mg/L | 0.023881 | 2.08% |
| K 404.721† | 375.9 | 2.25269 | mg/L | 0.135171 | 2.25269 | mg/L | 0.135171 | 6.00% |
| Mg 279.077† | 714089.7 | 28.3397 | mg/L | 0.66268 | 28.3397 | mg/L | 0.66268 | 2.34% |
| Mn 257.610† | 103358.0 | 0.125380 | mg/L | 0.0025386 | 0.125380 | mg/L | 0.0025386 | 2.02% |
| Mo 202.031† | 88.9 | 0.0087567 | mg/L | 0.00050489 | 0.0087567 | mg/L | 0.00050489 | 5.77% |
| Na 330.237† | 22862.6 | 17.0462 | mg/L | 0.32813 | 17.0462 | mg/L | 0.32813 | 1.92% |
| Ni 231.604† | 487.3 | 0.0156296 | mg/L | 0.00045306 | 0.0156296 | mg/L | 0.00045306 | 2.90% |
| Pb 220.353† | 45.5 | 0.0144677 | mg/L | 0.00150566 | 0.0144677 | mg/L | 0.00150566 | 10.41% |
| Sb 206.836† | -28.9 | -0.0192067 | mg/L | 0.00147003 | -0.0192067 | mg/L | 0.00147003 | 7.65% |
| Se 196.026† | -22.9 | -0.0209751 | mg/L | 0.00919634 | -0.0209751 | mg/L | 0.00919634 | 43.84% |
| Sn 189.927† | -19.7 | -0.0048099 | mg/L | 0.00131699 | -0.0048099 | mg/L | 0.00131699 | 27.38% |
| Ti 334.940† | 18468.9 | 0.0245832 | mg/L | 0.00058348 | 0.0245832 | mg/L | 0.00058348 | 2.37% |
| Tl 190.801† | -21.4 | -0.0165236 | mg/L | 0.00279413 | -0.0165236 | mg/L | 0.00279413 | 16.91% |
| V 290.880† | 341.6 | 0.0056898 | mg/L | 0.00062040 | 0.0056898 | mg/L | 0.00062040 | 10.90% |
| Zn 206.200† | 1177.6 | 0.0262058 | mg/L | 0.00039883 | 0.0262058 | mg/L | 0.00039883 | 1.52% |
| Si 251.611† | 588303.5 | 12.9844 | mg/L | 0.26468 | 12.9844 | mg/L | 0.26468 | 2.04% |
| B 249.772† | 1137.8 | 0.0126369 | mg/L | 0.00039161 | 0.0126369 | mg/L | 0.00039161 | 3.10% |
| Ce 413.764 | -363.0 | -0.0269907 | mg/L | 0.00104411 | -0.0269907 | mg/L | 0.00104411 | 3.87% |

Sequence No.: 83
Sample ID: AD26083-032 5D
Analyst:
Initial Sample Wt:
Dilution: 10D

Autosampler Location: 86
Date Collected: 9/29/2021 3:47:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-032 5D

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 705411.8 | 87.1 | % | 0.54 | | | | 0.62% |
| Y 371.029 | 729364.1 | 85.8 | % | 0.47 | | | | 0.55% |
| Ag 328.068† | 16.4 | 0.0006752 | mg/L | 0.00030946 | 0.0006752 | mg/L | 0.00030946 | 45.83% |
| Al 308.215† | 1455.9 | 0.0573271 | mg/L | 0.00481690 | 0.0573271 | mg/L | 0.00481690 | 8.40% |
| As 188.979† | 17.2 | 0.0160277 | mg/L | 0.00093463 | 0.0160277 | mg/L | 0.00093463 | 5.83% |
| Ba 233.527† | 475.8 | 0.0064934 | mg/L | 0.00004810 | 0.0064934 | mg/L | 0.00004810 | 0.74% |
| Be 313.107† | 1975.0 | 0.0042574 | mg/L | 0.00002523 | 0.0042574 | mg/L | 0.00002523 | 0.59% |
| Ca 315.887† | 7914008.0 | 57.6217 | mg/L | 0.16002 | 57.6217 | mg/L | 0.16002 | 0.28% |
| Cd 228.802† | 40.2 | 0.0047990 | mg/L | 0.00007576 | 0.0047990 | mg/L | 0.00007576 | 1.58% |
| Co 228.616† | 184.7 | 0.0063910 | mg/L | 0.00027250 | 0.0063910 | mg/L | 0.00027250 | 4.26% |
| Cr 267.716† | -253.2 | -0.0004670 | mg/L | 0.00015001 | -0.0004670 | mg/L | 0.00015001 | 32.12% |
| Cu 327.393† | -769.5 | -0.0052989 | mg/L | 0.00030921 | -0.0052989 | mg/L | 0.00030921 | 5.84% |
| Fe 273.955† | 73822.2 | 2.46479 | mg/L | 0.039899 | 2.46479 | mg/L | 0.039899 | 1.62% |
| K 404.721† | 1356.4 | 9.41980 | mg/L | 1.253376 | 9.41980 | mg/L | 1.253376 | 13.31% |
| Mg 279.077† | 1473135.4 | 58.4617 | mg/L | 0.19743 | 58.4617 | mg/L | 0.19743 | 0.34% |
| Mn 257.610† | 233196.0 | 0.281233 | mg/L | 0.0045635 | 0.281233 | mg/L | 0.0045635 | 1.62% |
| Mo 202.031† | 106.8 | 0.0101022 | mg/L | 0.00024338 | 0.0101022 | mg/L | 0.00024338 | 2.41% |
| Na 330.237† | 792155.1 | 555.202 | mg/L | 7.7343 | 555.202 | mg/L | 7.7343 | 1.39% |
| Ni 231.604† | 336.5 | 0.0110633 | mg/L | 0.00062307 | 0.0110633 | mg/L | 0.00062307 | 5.63% |
| Pb 220.353† | 25.2 | 0.0102169 | mg/L | 0.00137288 | 0.0102169 | mg/L | 0.00137288 | 13.44% |
| Sb 206.836† | -57.4 | -0.0428417 | mg/L | 0.00245381 | -0.0428417 | mg/L | 0.00245381 | 5.73% |
| Se 196.026† | -27.3 | -0.0251090 | mg/L | 0.00403671 | -0.0251090 | mg/L | 0.00403671 | 16.08% |
| Sn 189.927† | -24.4 | -0.0059495 | mg/L | 0.00113815 | -0.0059495 | mg/L | 0.00113815 | 19.13% |
| Ti 334.940† | 491.9 | 0.0040063 | mg/L | 0.00004646 | 0.0040063 | mg/L | 0.00004646 | 1.16% |
| Tl 190.801† | -24.8 | -0.0212867 | mg/L | 0.00424512 | -0.0212867 | mg/L | 0.00424512 | 19.94% |
| V 290.880† | -463.2 | 0.0007783 | mg/L | 0.00071237 | 0.0007783 | mg/L | 0.00071237 | 91.53% |
| Zn 206.200† | 15.9 | 0.0033201 | mg/L | 0.00010502 | 0.0033201 | mg/L | 0.00010502 | 3.16% |
| Si 251.611† | 56933.3 | 1.17339 | mg/L | 0.018736 | 1.17339 | mg/L | 0.018736 | 1.60% |
| B 249.772† | 13044.6 | 0.125276 | mg/L | 0.0012607 | 0.125276 | mg/L | 0.0012607 | 1.01% |
| Ce 413.764 | -432.1 | -0.0283365 | mg/L | 0.00066577 | -0.0283365 | mg/L | 0.00066577 | 2.35% |

Sequence No.: 84
Sample ID: AD26083-036 5R
Analyst:
Initial Sample Wt: 10D CF
Dilution:

Autosampler Location: 87
Date Collected: 9/29/2021 3:51:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-036 5D

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 701551.5 | 86.6 | % | 0.87 | | | | 1.00% |
| Y 371.029 | 727774.8 | 85.6 | % | 0.77 | | | | 0.90% |
| Ag 328.068† | -8.8 | 0.0004026 | mg/L | 0.00021037 | 0.0004026 | mg/L | 0.00021037 | 52.25% |
| Al 308.215† | 3421.0 | 0.120964 | mg/L | 0.0043189 | 0.120964 | mg/L | 0.0043189 | 3.57% |
| As 188.979† | 17.5 | 0.0162255 | mg/L | 0.00036063 | 0.0162255 | mg/L | 0.00036063 | 2.22% |
| Ba 233.527† | 247.0 | 0.0041240 | mg/L | 0.00005580 | 0.0041240 | mg/L | 0.00005580 | 1.35% |
| Be 313.107† | 2095.5 | 0.0042940 | mg/L | 0.00003031 | 0.0042940 | mg/L | 0.00003031 | 0.71% |
| Ca 315.887† | 14374283.0 | 104.437 | mg/L | 0.5114 | 104.437 | mg/L | 0.5114 | 0.49% |
| Cd 228.802† | 63.2 | 0.0047756 | mg/L | 0.00010870 | 0.0047756 | mg/L | 0.00010870 | 2.28% |
| Co 228.616† | 200.9 | 0.0068818 | mg/L | 0.00031525 | 0.0068818 | mg/L | 0.00031525 | 4.58% |
| Cr 267.716† | -140.2 | 0.0004919 | mg/L | 0.00054021 | 0.0004919 | mg/L | 0.00054021 | 109.83% |
| Cu 327.393† | -906.3 | -0.0056295 | mg/L | 0.00069040 | -0.0056295 | mg/L | 0.00069040 | 12.26% |
| Fe 273.955† | 14127.6 | 0.478356 | mg/L | 0.0087964 | 0.478356 | mg/L | 0.0087964 | 1.84% |
| K 404.721† | 1093.3 | 7.49716 | mg/L | 0.522125 | 7.49716 | mg/L | 0.522125 | 6.96% |
| Mg 279.077† | 882523.2 | 35.0239 | mg/L | 0.28198 | 35.0239 | mg/L | 0.28198 | 0.81% |
| Mn 257.610† | 531797.2 | 0.639661 | mg/L | 0.0042294 | 0.639661 | mg/L | 0.0042294 | 0.66% |
| Mo 202.031† | 121.2 | 0.0112116 | mg/L | 0.00060781 | 0.0112116 | mg/L | 0.00060781 | 5.42% |
| Na 330.237† | 409003.9 | 287.170 | mg/L | 1.7234 | 287.170 | mg/L | 1.7234 | 0.60% |
| Ni 231.604† | 329.4 | 0.0108494 | mg/L | 0.00051021 | 0.0108494 | mg/L | 0.00051021 | 4.70% |
| Pb 220.353† | 33.9 | 0.0116183 | mg/L | 0.00097973 | 0.0116183 | mg/L | 0.00097973 | 8.43% |
| Sb 206.836† | -45.9 | -0.0333525 | mg/L | 0.00369589 | -0.0333525 | mg/L | 0.00369589 | 11.08% |
| Se 196.026† | -25.0 | -0.0229972 | mg/L | 0.00494778 | -0.0229972 | mg/L | 0.00494778 | 21.51% |
| Sn 189.927† | -22.5 | -0.0054895 | mg/L | 0.00244696 | -0.0054895 | mg/L | 0.00244696 | 44.57% |
| Ti 334.940† | 4180.8 | 0.0082287 | mg/L | 0.00092387 | 0.0082287 | mg/L | 0.00092387 | 11.23% |
| Tl 190.801† | -23.2 | -0.0162223 | mg/L | 0.00289117 | -0.0162223 | mg/L | 0.00289117 | 17.82% |
| V 290.880† | -28.6 | 0.0034307 | mg/L | 0.00029134 | 0.0034307 | mg/L | 0.00029134 | 8.49% |
| Zn 206.200† | 26.4 | 0.0035260 | mg/L | 0.00003225 | 0.0035260 | mg/L | 0.00003225 | 0.91% |
| Si 251.611† | 44763.7 | 0.901980 | mg/L | 0.0065148 | 0.901980 | mg/L | 0.0065148 | 0.72% |
| B 249.772† | 3481.8 | 0.0383833 | mg/L | 0.00078560 | 0.0383833 | mg/L | 0.00078560 | 2.05% |
| Ce 413.764 | -469.7 | -0.0290690 | mg/L | 0.00083964 | -0.0290690 | mg/L | 0.00083964 | 2.89% |

Sequence No.: 85
Sample ID: AD26083-037 5D
Analyst:
Initial Sample Wt:
Dilution:

100 CM

Autosampler Location: 88
Date Collected: 9/29/2021 3:55:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-037 5D

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 712531.3 | 88.0 | % | 0.76 | | | | 0.87% |
| Y 371.029 | 736718.2 | 86.7 | % | 1.01 | | | | 1.16% |
| Ag 328.068† | -31.9 | 0.0002565 | mg/L | 0.00058021 | 0.0002565 | mg/L | 0.00058021 | 226.24% |
| Al 308.215† | 1089.3 | 0.0454559 | mg/L | 0.00157477 | 0.0454559 | mg/L | 0.00157477 | 3.46% |
| As 188.979† | 17.5 | 0.0162074 | mg/L | 0.00284750 | 0.0162074 | mg/L | 0.00284750 | 17.57% |
| Ba 233.527† | 152.5 | 0.0031461 | mg/L | 0.00003699 | 0.0031461 | mg/L | 0.00003699 | 1.18% |
| Be 313.107† | 1898.7 | 0.0042342 | mg/L | 0.00003151 | 0.0042342 | mg/L | 0.00003151 | 0.74% |
| Ca 315.887† | 11370051.4 | 82.6664 | mg/L | 0.93949 | 82.6664 | mg/L | 0.93949 | 1.14% |
| Cd 228.802† | 75.2 | 0.0049481 | mg/L | 0.00018667 | 0.0049481 | mg/L | 0.00018667 | 3.77% |
| Co 228.616† | 171.7 | 0.0059717 | mg/L | 0.00015139 | 0.0059717 | mg/L | 0.00015139 | 2.54% |
| Cr 267.716† | -136.7 | 0.0005218 | mg/L | 0.00013246 | 0.0005218 | mg/L | 0.00013246 | 25.39% |
| Cu 327.393† | -812.7 | -0.0050060 | mg/L | 0.00059293 | -0.0050060 | mg/L | 0.00059293 | 11.84% |
| Fe 273.955† | 6203.3 | 0.214661 | mg/L | 0.0012112 | 0.214661 | mg/L | 0.0012112 | 0.56% |
| K 404.721† | 829.3 | 5.56659 | mg/L | 1.524303 | 5.56659 | mg/L | 1.524303 | 27.38% |
| Mg 279.077† | 694427.3 | 27.5595 | mg/L | 0.34304 | 27.5595 | mg/L | 0.34304 | 1.24% |
| Mn 257.610† | 408854.9 | 0.492086 | mg/L | 0.0049213 | 0.492086 | mg/L | 0.0049213 | 1.00% |
| Mo 202.031† | 98.5 | 0.0094643 | mg/L | 0.00028841 | 0.0094643 | mg/L | 0.00028841 | 3.05% |
| Na 330.237† | 315861.3 | 222.013 | mg/L | 2.1825 | 222.013 | mg/L | 2.1825 | 0.98% |
| Ni 231.604† | 305.1 | 0.0101129 | mg/L | 0.00047772 | 0.0101129 | mg/L | 0.00047772 | 4.72% |
| Pb 220.353† | 29.6 | 0.0102601 | mg/L | 0.00049764 | 0.0102601 | mg/L | 0.00049764 | 4.85% |
| Sb 206.836† | -39.8 | -0.0283354 | mg/L | 0.00361495 | -0.0283354 | mg/L | 0.00361495 | 12.76% |
| Se 196.026† | -20.4 | -0.0185324 | mg/L | 0.00821023 | -0.0185324 | mg/L | 0.00821023 | 44.30% |
| Sn 189.927† | -22.9 | -0.0055952 | mg/L | 0.00093457 | -0.0055952 | mg/L | 0.00093457 | 16.70% |
| Ti 334.940† | 619.1 | 0.0041519 | mg/L | 0.00010420 | 0.0041519 | mg/L | 0.00010420 | 2.51% |
| Tl 190.801† | -23.5 | -0.0180479 | mg/L | 0.00263339 | -0.0180479 | mg/L | 0.00263339 | 14.59% |
| V 290.880† | 60.6 | 0.0039752 | mg/L | 0.00027946 | 0.0039752 | mg/L | 0.00027946 | 7.03% |
| Zn 206.200† | -9.0 | 0.0028299 | mg/L | 0.00010625 | 0.0028299 | mg/L | 0.00010625 | 3.75% |
| Si 251.611† | 29886.3 | 0.571157 | mg/L | 0.0089888 | 0.571157 | mg/L | 0.0089888 | 1.57% |
| B 249.772† | 2237.5 | 0.0270975 | mg/L | 0.00009191 | 0.0270975 | mg/L | 0.00009191 | 0.34% |
| Ce 413.764 | -459.6 | -0.0288727 | mg/L | 0.00197957 | -0.0288727 | mg/L | 0.00197957 | 6.86% |

Sequence No.: 86
Sample ID: AD26174-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 104
Date Collected: 9/29/2021 3:59:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26174-001

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 984202.2 | 121 | % | 4.4 | | | | 3.61% |
| Y 371.029 | 1072786.9 | 126 | % | 4.2 | | | | 3.36% |
| Ag 328.068† | -5203.9 | -0.0096205 | mg/L | 0.00026730 | -0.0096205 | mg/L | 0.00026730 | 2.78% |
| Al 308.215† | 6659984.6 | 215.686 | mg/L | 8.1811 | 215.686 | mg/L | 8.1811 | 3.79% |
| As 188.979† | 61.4 | 0.0335870 | mg/L | 0.00289178 | 0.0335870 | mg/L | 0.00289178 | 8.61% |
| Ba 233.527† | 158167.5 | 1.63906 | mg/L | 0.076459 | 1.63906 | mg/L | 0.076459 | 4.66% |
| Be 313.107† | 53682.4 | 0.0199668 | mg/L | 0.00078633 | 0.0199668 | mg/L | 0.00078633 | 3.94% |
| Ca 315.887† | 9002497.0 | 65.5096 | mg/L | 2.50340 | 65.5096 | mg/L | 2.50340 | 3.82% |
| Cd 228.802† | -2801.6 | 0.0178037 | mg/L | 0.00042328 | 0.0178037 | mg/L | 0.00042328 | 2.38% |
| Co 228.616† | 8258.6 | 0.247664 | mg/L | 0.0100079 | 0.247664 | mg/L | 0.0100079 | 4.04% |
| Cr 267.716† | 24925.4 | 0.213189 | mg/L | 0.0091277 | 0.213189 | mg/L | 0.0091277 | 4.28% |
| Cu 327.393† | 58149.8 | 0.498506 | mg/L | 0.0194245 | 0.498506 | mg/L | 0.0194245 | 3.90% |
| Fe 273.955† | 8492707.9 | 282.617 | mg/L | 10.7065 | 282.617 | mg/L | 10.7065 | 3.79% |
| K 404.721† | 1042.2 | 7.12314 | mg/L | 1.711444 | 7.12314 | mg/L | 1.711444 | 24.03% |
| Mg 279.077† | 1247719.5 | 49.5163 | mg/L | 2.25317 | 49.5163 | mg/L | 2.25317 | 4.55% |
| Mn 257.610† | 17231602.2 | 20.6854 | mg/L | 0.78569 | 20.6854 | mg/L | 0.78569 | 3.80% |
| Mo 202.031† | 116.9 | 0.0275431 | mg/L | 0.00167696 | 0.0275431 | mg/L | 0.00167696 | 6.09% |
| Na 330.237† | 87939.5 | 62.5705 | mg/L | 2.80643 | 62.5705 | mg/L | 2.80643 | 4.49% |
| Ni 231.604† | 7088.3 | 0.215416 | mg/L | 0.0101237 | 0.215416 | mg/L | 0.0101237 | 4.70% |
| Pb 220.353† | 268.2 | 0.171562 | mg/L | 0.0034330 | 0.171562 | mg/L | 0.0034330 | 2.00% |
| Sb 206.836† | -147.0 | -0.0442445 | mg/L | 0.00789932 | -0.0442445 | mg/L | 0.00789932 | 17.85% |
| Se 196.026† | -122.5 | -0.135763 | mg/L | 0.0094613 | -0.135763 | mg/L | 0.0094613 | 6.97% |
| Sn 189.927† | -41.1 | -0.0100101 | mg/L | 0.00242261 | -0.0100101 | mg/L | 0.00242261 | 24.20% |
| Ti 334.940† | 5744610.3 | 6.57884 | mg/L | 0.317259 | 6.57884 | mg/L | 0.317259 | 4.82% |
| Tl 190.801† | -13.7 | 0.0116714 | mg/L | 0.00546468 | 0.0116714 | mg/L | 0.00546468 | 46.82% |
| V 290.880† | 102178.1 | 0.627196 | mg/L | 0.0303833 | 0.627196 | mg/L | 0.0303833 | 4.84% |
| Zn 206.200† | 35373.0 | 0.699855 | mg/L | 0.0335016 | 0.699855 | mg/L | 0.0335016 | 4.79% |
| Si 251.611† | 3376277.3 | 75.0837 | mg/L | 3.50953 | 75.0837 | mg/L | 3.50953 | 4.67% |
| B 249.772† | 173223.2 | 0.630940 | mg/L | 0.0397748 | 0.630940 | mg/L | 0.0397748 | 6.30% |
| Ce 413.764 | 32452.1 | 0.612681 | mg/L | 0.0066676 | 0.612681 | mg/L | 0.0066676 | 1.09% |

Sequence No.: 87
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 9/29/2021 4:05:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 741175.4 | 91.5 | % | 0.31 | | | | 0.34% |
| Y 371.029 | 774470.9 | 91.1 | % | 0.33 | | | | 0.36% |
| Ag 328.068† | 17586.4 | 0.0995375 | mg/L | 0.00213140 | 0.0995375 | mg/L | 0.00213140 | 2.14% |
| QC value within limits for Ag 328.068 Recovery = 99.54% | | | | | | | | |
| Al 308.215† | 154063.4 | 4.99935 | mg/L | 0.092926 | 4.99935 | mg/L | 0.092926 | 1.86% |
| QC value within limits for Al 308.215 Recovery = 99.99% | | | | | | | | |
| As 188.979† | 687.4 | 0.508831 | mg/L | 0.0091165 | 0.508831 | mg/L | 0.0091165 | 1.79% |
| QC value within limits for As 188.979 Recovery = 101.77% | | | | | | | | |
| Ba 233.527† | 47018.9 | 0.488349 | mg/L | 0.0089304 | 0.488349 | mg/L | 0.0089304 | 1.83% |
| QC value within limits for Ba 233.527 Recovery = 97.67% | | | | | | | | |
| Be 313.107† | 1581536.3 | 0.484152 | mg/L | 0.0023697 | 0.484152 | mg/L | 0.0023697 | 0.49% |
| QC value within limits for Be 313.107 Recovery = 96.83% | | | | | | | | |
| Ca 315.887† | 6756720.8 | 49.2352 | mg/L | 0.23188 | 49.2352 | mg/L | 0.23188 | 0.47% |
| QC value within limits for Ca 315.887 Recovery = 98.47% | | | | | | | | |
| Cd 228.802† | 24818.4 | 0.512221 | mg/L | 0.0046823 | 0.512221 | mg/L | 0.0046823 | 0.91% |
| QC value within limits for Cd 228.802 Recovery = 102.44% | | | | | | | | |
| Co 228.616† | 15677.7 | 0.492739 | mg/L | 0.0042717 | 0.492739 | mg/L | 0.0042717 | 0.87% |
| QC value within limits for Co 228.616 Recovery = 98.55% | | | | | | | | |
| Cr 267.716† | 58267.6 | 0.496118 | mg/L | 0.0085695 | 0.496118 | mg/L | 0.0085695 | 1.73% |
| QC value within limits for Cr 267.716 Recovery = 99.22% | | | | | | | | |
| Cu 327.393† | 58216.7 | 0.498887 | mg/L | 0.0086843 | 0.498887 | mg/L | 0.0086843 | 1.74% |
| QC value within limits for Cu 327.393 Recovery = 99.78% | | | | | | | | |
| Fe 273.955† | 146457.0 | 4.88183 | mg/L | 0.095084 | 4.88183 | mg/L | 0.095084 | 1.95% |
| QC value within limits for Fe 273.955 Recovery = 97.64% | | | | | | | | |
| K 404.721† | 6631.6 | 47.9829 | mg/L | 1.71820 | 47.9829 | mg/L | 1.71820 | 3.58% |
| QC value within limits for K 404.721 Recovery = 95.97% | | | | | | | | |
| Mg 279.077† | 1234942.9 | 49.0093 | mg/L | 0.30379 | 49.0093 | mg/L | 0.30379 | 0.62% |
| QC value within limits for Mg 279.077 Recovery = 98.02% | | | | | | | | |
| Mn 257.610† | 406832.6 | 0.489659 | mg/L | 0.0093765 | 0.489659 | mg/L | 0.0093765 | 1.91% |
| QC value within limits for Mn 257.610 Recovery = 97.93% | | | | | | | | |
| Mo 202.031† | 6269.1 | 0.484332 | mg/L | 0.0030577 | 0.484332 | mg/L | 0.0030577 | 0.63% |
| QC value within limits for Mo 202.031 Recovery = 96.87% | | | | | | | | |
| Na 330.237† | 68360.4 | 48.8740 | mg/L | 0.74724 | 48.8740 | mg/L | 0.74724 | 1.53% |
| QC value within limits for Na 330.237 Recovery = 97.75% | | | | | | | | |
| Ni 231.604† | 16247.3 | 0.492624 | mg/L | 0.0051636 | 0.492624 | mg/L | 0.0051636 | 1.05% |
| QC value within limits for Ni 231.604 Recovery = 98.52% | | | | | | | | |
| Pb 220.353† | 2108.6 | 0.533476 | mg/L | 0.0078767 | 0.533476 | mg/L | 0.0078767 | 1.48% |
| QC value within limits for Pb 220.353 Recovery = 106.70% | | | | | | | | |
| Sb 206.836† | 569.8 | 0.478695 | mg/L | 0.0042887 | 0.478695 | mg/L | 0.0042887 | 0.90% |
| QC value within limits for Sb 206.836 Recovery = 95.74% | | | | | | | | |
| Se 196.026† | 473.4 | 0.461567 | mg/L | 0.0111342 | 0.461567 | mg/L | 0.0111342 | 2.41% |
| QC value within limits for Se 196.026 Recovery = 92.31% | | | | | | | | |
| Sn 189.927† | 2061.3 | 0.501124 | mg/L | 0.0048556 | 0.501124 | mg/L | 0.0048556 | 0.97% |
| QC value within limits for Sn 189.927 Recovery = 100.22% | | | | | | | | |
| Ti 334.940† | 426107.6 | 0.491174 | mg/L | 0.0089589 | 0.491174 | mg/L | 0.0089589 | 1.82% |
| QC value within limits for Ti 334.940 Recovery = 98.23% | | | | | | | | |
| Tl 190.801† | 430.3 | 0.498833 | mg/L | 0.0043214 | 0.498833 | mg/L | 0.0043214 | 0.87% |
| QC value within limits for Tl 190.801 Recovery = 99.77% | | | | | | | | |
| V 290.880† | 80142.0 | 0.492710 | mg/L | 0.0097460 | 0.492710 | mg/L | 0.0097460 | 1.98% |
| QC value within limits for V 290.880 Recovery = 98.54% | | | | | | | | |
| Zn 206.200† | 24313.0 | 0.481972 | mg/L | 0.0056625 | 0.481972 | mg/L | 0.0056625 | 1.17% |
| QC value within limits for Zn 206.200 Recovery = 96.39% | | | | | | | | |
| Si 251.611† | 222447.5 | 4.85361 | mg/L | 0.101346 | 4.85361 | mg/L | 0.101346 | 2.09% |
| QC value within limits for Si 251.611 Recovery = 97.07% | | | | | | | | |
| B 249.772† | 45834.5 | 0.440128 | mg/L | 0.0088438 | 0.440128 | mg/L | 0.0088438 | 2.01% |
| QC value less than the lower limit for B 249.772 Recovery = 88.03% | | | | | | | | |
| Ce 413.764 | 25793.9 | 0.482893 | mg/L | 0.0077414 | 0.482893 | mg/L | 0.0077414 | 1.60% |
| QC value within limits for Ce 413.764 Recovery = 96.58% | | | | | | | | |

QC Failed. Continue with analysis.

Sequence No.: 88
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/29/2021 4:10:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Conc. | Calib Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 776160.3 | 95.8 | % | 2.75 | | | | 2.87% |
| Y 371.029 | 830950.1 | 97.8 | % | 2.71 | | | | 2.77% |
| Ag 328.068† | -18.9 | 0.0003165 | mg/L | 0.00047556 | 0.0003165 | mg/L | 0.00047556 | 150.27% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 308.215† | 262.3 | 0.0186755 | mg/L | 0.01317437 | 0.0186755 | mg/L | 0.01317437 | 70.54% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 15.8 | 0.0150023 | mg/L | 0.00121047 | 0.0150023 | mg/L | 0.00121047 | 8.07% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -120.2 | 0.0003226 | mg/L | 0.00042636 | 0.0003226 | mg/L | 0.00042636 | 132.15% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 2055.2 | 0.0042817 | mg/L | 0.00003404 | 0.0042817 | mg/L | 0.00003404 | 0.80% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 182.8 | 0.272888 | mg/L | 0.0014214 | 0.272888 | mg/L | 0.0014214 | 0.52% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 66.7 | 0.0046853 | mg/L | 0.00010676 | 0.0046853 | mg/L | 0.00010676 | 2.28% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | 150.2 | 0.0052912 | mg/L | 0.00029261 | 0.0052912 | mg/L | 0.00029261 | 5.53% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -10.5 | 0.0015929 | mg/L | 0.00057447 | 0.0015929 | mg/L | 0.00057447 | 36.07% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 341.6 | 0.0041836 | mg/L | 0.00157456 | 0.0041836 | mg/L | 0.00157456 | 37.64% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -102.6 | 0.0048213 | mg/L | 0.00147205 | 0.0048213 | mg/L | 0.00147205 | 30.53% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 404.721† | 215.9 | 1.08278 | mg/L | 1.813593 | 1.08278 | mg/L | 1.813593 | 167.49% |
| QC value within limits for K 404.721 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 206.8 | 0.0099995 | mg/L | 0.00275460 | 0.0099995 | mg/L | 0.00275460 | 27.55% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 393.4 | 0.0017860 | mg/L | 0.00006833 | 0.0017860 | mg/L | 0.00006833 | 3.83% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 48.8 | 0.0056375 | mg/L | 0.00081611 | 0.0056375 | mg/L | 0.00081611 | 14.48% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 180.3 | 1.17880 | mg/L | 0.058078 | 1.17880 | mg/L | 0.058078 | 4.93% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 173.6 | 0.0061351 | mg/L | 0.00067390 | 0.0061351 | mg/L | 0.00067390 | 10.98% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | 50.1 | 0.0144208 | mg/L | 0.00215080 | 0.0144208 | mg/L | 0.00215080 | 14.91% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -9.2 | -0.0031754 | mg/L | 0.00827645 | -0.0031754 | mg/L | 0.00827645 | 260.64% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -16.9 | -0.0151437 | mg/L | 0.00461927 | -0.0151437 | mg/L | 0.00461927 | 30.50% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 2.5 | 0.0005831 | mg/L | 0.00096232 | 0.0005831 | mg/L | 0.00096232 | 165.03% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 278.8 | 0.0037624 | mg/L | 0.00017417 | 0.0037624 | mg/L | 0.00017417 | 4.63% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | -8.5 | -0.0065518 | mg/L | 0.00401485 | -0.0065518 | mg/L | 0.00401485 | 61.28% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 381.7 | 0.0059345 | mg/L | 0.00103183 | 0.0059345 | mg/L | 0.00103183 | 17.39% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -39.0 | 0.0022383 | mg/L | 0.00007255 | 0.0022383 | mg/L | 0.00007255 | 3.24% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 439.9 | -0.0834868 | mg/L | 0.00117766 | -0.0834868 | mg/L | 0.00117766 | 1.41% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | -684.2 | -0.0009785 | mg/L | 0.00105628 | -0.0009785 | mg/L | 0.00105628 | 107.95% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764 | -368.9 | -0.0271041 | mg/L | 0.00097628 | -0.0271041 | mg/L | 0.00097628 | 3.60% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method: PE5 AVIO500 SW846 RD  Page 1  Date: 9/29/2021 3:03:24 PM

SW27669E5  27669 | 27670 | 27671

SW846

Analysis Begun

Start Time: 9/29/2021 3:00:49 PM
Originator: usemet
Spectrometer: Avio 500, S/N 081S2010191

Plasma On Time: 9/29/2021 9:28:06 AM
Technique: ICP Continuous
Autosampler: S23

CJM 9/29/21

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\09.29.21.sifx
Results Data Set: SW27669E5
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

10/4/21

Batch ID:
Sequence No.: 1
Sample ID: CALBLK V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location: 1
Date Collected: 9/29/2021 3:00:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-352951

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 93565.8 | 745.79 | 0.80% | 100 | % |
| Y 371.029 | 36546.6 | 296.75 | 0.81% | 100 | % |
| Al 308.215† | -55.3 | 13.81 | 24.97% | [0.00] | mg/L |
| Ba 233.527† | 8.2 | 0.83 | 10.13% | [0.00] | mg/L |
| Ca 315.887† | 156.7 | 90.35 | 57.66% | [0.00] | mg/L |
| Cu 327.393† | -45.4 | 40.84 | 89.89% | [0.00] | mg/L |
| Fe 273.955† | 23.1 | 2.16 | 9.36% | [0.00] | mg/L |
| K 766.490† | 1217.0 | 47.72 | 3.92% | [0.00] | mg/L |
| Mg 279.077† | -7.4 | 12.96 | 176.10% | [0.00] | mg/L |
| Mn 257.610† | 6.9 | 2.65 | 38.39% | [0.00] | mg/L |
| Mo 202.031† | 3.7 | 2.25 | 61.53% | [0.00] | mg/L |
| Na 589.592† | 6042.8 | 141.70 | 2.35% | [0.00] | mg/L |
| Ni 231.604† | 47.1 | 6.46 | 13.72% | [0.00] | mg/L |
| Se 196.026† | -12.0 | 2.75 | 22.88% | [0.00] | mg/L |
| Sn 189.927† | 2.8 | 0.87 | 31.20% | [0.00] | mg/L |
| Ti 334.940† | -490.3 | 17.08 | 3.48% | [0.00] | mg/L |
| V 290.880† | 108.0 | 12.02 | 11.14% | [0.00] | mg/L |
| Zn 206.200† | 7.1 | 6.11 | 85.83% | [0.00] | mg/L |
| Si 251.611† | 207.6 | 4.51 | 2.17% | [0.00] | mg/L |
| B 249.772† | 9.4 | 14.19 | 150.97% | [0.00] | mg/L |
| Ce 413.764† | 181.4 | 51.13 | 28.18% | [0.00] | mg/L |

27671 | 94429

Na k Al Reported

26083-037

26083-041, -043, -045 tQC

(100) Na Reported

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 2
Autosampler Location: 5
Sample ID: CALST2 V-352961
Date Collected: 9/29/2021 3:04:44 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST2 V-352961

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 97496.1 | 204.86 | 0.21% | 104 | % |
| Y 371.029 | 37228.5 | 29.44 | 0.08% | 102 | % |
| Al 308.215† | 193.1 | 6.30 | 3.26% | [0.2] | mg/L |
| Ba 233.527† | 256.2 | 6.80 | 2.65% | [0.050] | mg/L |
| Ca 315.887† | 27380.3 | 53.58 | 0.20% | [5] | mg/L |
| Cu 327.393† | 313.6 | 13.23 | 4.22% | [0.050] | mg/L |
| Fe 273.955† | 381.2 | 3.72 | 0.98% | [0.30] | mg/L |
| K 766.490† | 9486.3 | 46.80 | 0.49% | [5] | mg/L |
| Mg 279.077† | 3510.6 | 32.85 | 0.94% | [5.0] | mg/L |
| Mn 257.610† | 1256.1 | 7.05 | 0.56% | [0.040] | mg/L |
| Mo 202.031† | 23.1 | 3.88 | 16.78% | [0.020] | mg/L |
| Na 589.592† | 50187.9 | 139.99 | 0.28% | [5] | mg/L |
| Ni 231.604† | 104.5 | 5.96 | 5.70% | [0.050] | mg/L |
| Se 196.026† | 14.5 | 4.61 | 31.82% | [0.050] | mg/L |
| Sn 189.927† | 15.6 | 2.85 | 18.27% | [0.050] | mg/L |
| Ti 334.940† | 2391.4 | 50.82 | 2.13% | [0.050] | mg/L |
| V 290.880† | 416.0 | 6.33 | 1.52% | [0.050] | mg/L |
| Zn 206.200† | 195.3 | 3.66 | 1.87% | [0.050] | mg/L |
| Si 251.611† | 838.3 | 7.07 | 0.84% | [0.2] | mg/L |
| B 249.772† | 1450.2 | 6.95 | 0.48% | [0.20] | mg/L |
| Ce 413.764† | 950.9 | 44.91 | 4.72% | [0.2] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 3 Autosampler Location: 3
Sample ID: CALST3 V-352955 Date Collected: 9/29/2021 3:08:36 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST3 V-352955

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 97313.8 | 107.18 | 0.11% | 104 | % |
| Y 371.029 | 36375.8 | 153.95 | 0.42% | 99.5 | % |
| Al 308.215† | 4647.1 | 35.76 | 0.77% | [5.0] | mg/L |
| Ba 233.527† | 2332.0 | 7.94 | 0.34% | [0.50] | mg/L |
| Ca 315.887† | 263006.3 | 719.81 | 0.27% | [50] | mg/L |
| Cu 327.393† | 2461.3 | 13.49 | 0.55% | [0.50] | mg/L |
| Fe 273.955† | 5893.6 | 26.29 | 0.45% | [5.0] | mg/L |
| K 766.490† | 94224.7 | 168.21 | 0.18% | [50] | mg/L |
| Mg 279.077† | 32883.0 | 182.43 | 0.55% | [50] | mg/L |
| Mn 257.610† | 15028.7 | 100.22 | 0.67% | [0.50] | mg/L |
| Mo 202.031† | 706.1 | 1.68 | 0.24% | [0.50] | mg/L |
| Na 589.592† | 487811.8 | 1522.26 | 0.31% | [50] | mg/L |
| Ni 231.604† | 962.9 | 3.52 | 0.37% | [0.50] | mg/L |
| Se 196.026† | 144.8 | 1.04 | 0.72% | [0.50] | mg/L |
| Sn 189.927† | 166.1 | 5.46 | 3.29% | [0.50] | mg/L |
| Ti 334.940† | 22653.9 | 151.25 | 0.67% | [0.50] | mg/L |
| V 290.880† | 4231.5 | 12.91 | 0.31% | [0.50] | mg/L |
| Zn 206.200† | 1862.4 | 3.54 | 0.19% | [0.50] | mg/L |
| Si 251.611† | 13703.4 | 98.78 | 0.72% | [5] | mg/L |
| B 249.772† | 3528.1 | 29.57 | 0.84% | [0.50] | mg/L |
| Ce 413.764† | 2318.0 | 29.24 | 1.26% | [0.5] | mg/L |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 4
Autosampler Location: 4
Sample ID: CALST4 V-352956
Date Collected: 9/29/2021 3:12:43 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CALST4 V-352956

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Sc 361.383 | 92922.5 | 499.77 | 0.54% | 99.3 | % |
| Y 371.029 | 35406.3 | 151.42 | 0.43% | 96.9 | % |
| Al 308.215† | 9483.6 | 23.37 | 0.25% | [10] | mg/L |
| Ba 233.527† | 4760.2 | 42.13 | 0.88% | [1.0] | mg/L |
| Ca 315.887† | 527448.6 | 3911.58 | 0.74% | [100] | mg/L |
| Cu 327.393† | 4891.2 | 17.26 | 0.35% | [1.0] | mg/L |
| Fe 273.955† | 11764.0 | 34.62 | 0.29% | [10] | mg/L |
| K 766.490† | 193045.8 | 1129.43 | 0.59% | [100] | mg/L |
| Mg 279.077† | 65980.0 | 173.62 | 0.26% | [100] | mg/L |
| Mn 257.610† | 29939.9 | 97.39 | 0.33% | [1.0] | mg/L |
| Mo 202.031† | 1436.3 | 13.16 | 0.92% | [1.0] | mg/L |
| Na 589.592† | 983295.1 | 5021.97 | 0.51% | [100] | mg/L |
| Ni 231.604† | 1941.8 | 12.53 | 0.65% | [1.0] | mg/L |
| Se 196.026† | 277.7 | 7.94 | 2.86% | [1.0] | mg/L |
| Sn 189.927† | 323.7 | 4.03 | 1.25% | [1.0] | mg/L |
| Ti 334.940† | 45664.1 | 76.12 | 0.17% | [1.0] | mg/L |
| V 290.880† | 8466.6 | 3.31 | 0.04% | [1.0] | mg/L |
| Zn 206.200† | 3738.5 | 28.23 | 0.76% | [1.0] | mg/L |
| Si 251.611† | 27524.2 | 13.89 | 0.05% | [10] | mg/L |
| B 249.772† | 7059.9 | 10.23 | 0.14% | [1.0] | mg/L |
| Ce 413.764† | 4582.1 | 41.73 | 0.91% | [1] | mg/L |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| Al 308.215 | 3 | Lin, Calc Int | -15.7 | 946.5 | 0.00000 | 0.999945 | |
| Ba 233.527 | 3 | Lin, Calc Int | -0.6 | 4742 | 0.00000 | 0.999925 | |
| Ca 315.887 | 3 | Lin, Calc Int | 322.7 | 5268 | 0.00000 | 0.999997 | |
| Cu 327.393 | 3 | Lin, Calc Int | 34.0 | 4858 | 0.00000 | 0.999919 | |
| Fe 273.955 | 3 | Lin, Calc Int | 14.9 | 1175 | 0.00000 | 0.999998 | |
| K 766.490 | 3 | Lin, Calc Int | -495.6 | 1927 | 0.00000 | 0.999923 | |
| Mg 279.077 | 3 | Lin, Calc Int | 75.7 | 658.5 | 0.00000 | 0.999992 | |
| Mn 257.610 | 3 | Lin, Calc Int | 37.2 | 29920 | 0.00000 | 0.999997 | |
| Mo 202.031 | 3 | Lin, Calc Int | -4.7 | 1437 | 0.00000 | 0.999965 | |
| Na 589.592 | 3 | Lin, Calc Int | -241.4 | 9821 | 0.00000 | 0.999990 | |
| Ni 231.604 | 3 | Lin, Calc Int | 1.9 | 1937 | 0.00000 | 0.999979 | |
| Se 196.026 | 3 | Lin, Calc Int | 1.4 | 278.4 | 0.00000 | 0.999752 | |
| Sn 189.927 | 3 | Lin, Calc Int | 0.5 | 324.7 | 0.00000 | 0.999897 | |
| Ti 334.940 | 3 | Lin, Calc Int | 16.1 | 45580 | 0.00000 | 0.999986 | |
| V 290.880 | 3 | Lin, Calc Int | -3.6 | 8470 | 0.00000 | 1.000000 | |
| Zn 206.200 | 3 | Lin, Calc Int | 2.5 | 3733 | 0.00000 | 0.999995 | |
| Si 251.611 | 3 | Lin, Calc Int | 119.8 | 2736 | 0.00000 | 0.999945 | |
| B 249.772 | 3 | Lin, Calc Int | 15.7 | 7045 | 0.00000 | 0.999982 | |
| Ce 413.764 | 3 | Lin, Calc Int | 19.7 | 4572 | 0.00000 | 0.999961 | |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 5
Sample ID: ICV V-352960
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 6
Date Collected: 9/29/2021 3:16:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94635.0 | 101 | % | 0.81 | 101 | % | 0.81 | 0.80% |
| Y 371.029 | 35653.0 | 97.6 | % | 0.93 | 97.6 | % | 0.93 | 0.95% |
| Al 308.215† | 4651.8 | 4.96207 | mg/L | 0.051850 | 4.96207 | mg/L | 0.051850 | 1.04% |
| QC value within limits for Al 308.215 Recovery = 99.24% | | | | | | | | |
| Ba 233.527† | 2367.0 | 0.496455 | mg/L | 0.0071058 | 0.496455 | mg/L | 0.0071058 | 1.43% |
| QC value within limits for Ba 233.527 Recovery = 99.29% | | | | | | | | |
| Ca 315.887† | 261602.4 | 49.5973 | mg/L | 0.11991 | 49.5973 | mg/L | 0.11991 | 0.24% |
| QC value within limits for Ca 315.887 Recovery = 99.19% | | | | | | | | |
| Cu 327.393† | 2463.7 | 0.523171 | mg/L | 0.0080890 | 0.523171 | mg/L | 0.0080890 | 1.55% |
| QC value within limits for Cu 327.393 Recovery = 104.63% | | | | | | | | |
| Fe 273.955† | 5869.3 | 4.98199 | mg/L | 0.069150 | 4.98199 | mg/L | 0.069150 | 1.39% |
| QC value within limits for Fe 273.955 Recovery = 99.64% | | | | | | | | |
| K 766.490† | 93437.3 | 48.7368 | mg/L | 0.05844 | 48.7368 | mg/L | 0.05844 | 0.12% |
| QC value within limits for K 766.490 Recovery = 97.47% | | | | | | | | |
| Mg 279.077† | 32681.6 | 49.5138 | mg/L | 0.54660 | 49.5138 | mg/L | 0.54660 | 1.10% |
| QC value within limits for Mg 279.077 Recovery = 99.03% | | | | | | | | |
| Mn 257.610† | 14856.4 | 0.504620 | mg/L | 0.0049769 | 0.504620 | mg/L | 0.0049769 | 0.99% |
| QC value within limits for Mn 257.610 Recovery = 100.92% | | | | | | | | |
| Mo 202.031† | 713.5 | 0.499753 | mg/L | 0.0049201 | 0.499753 | mg/L | 0.0049201 | 0.98% |
| QC value within limits for Mo 202.031 Recovery = 99.95% | | | | | | | | |
| Na 589.592† | 482884.2 | 49.1929 | mg/L | 0.04128 | 49.1929 | mg/L | 0.04128 | 0.08% |
| QC value within limits for Na 589.592 Recovery = 98.39% | | | | | | | | |
| Ni 231.604† | 973.9 | 0.503056 | mg/L | 0.0086174 | 0.503056 | mg/L | 0.0086174 | 1.71% |
| QC value within limits for Ni 231.604 Recovery = 100.61% | | | | | | | | |
| Se 196.026† | 138.8 | 0.498282 | mg/L | 0.0088413 | 0.498282 | mg/L | 0.0088413 | 1.77% |
| QC value within limits for Se 196.026 Recovery = 99.66% | | | | | | | | |
| Sn 189.927† | 163.5 | 0.514993 | mg/L | 0.0139367 | 0.514993 | mg/L | 0.0139367 | 2.71% |
| QC value within limits for Sn 189.927 Recovery = 103.00% | | | | | | | | |
| Ti 334.940† | 22590.4 | 0.503358 | mg/L | 0.0049626 | 0.503358 | mg/L | 0.0049626 | 0.99% |
| QC value within limits for Ti 334.940 Recovery = 100.67% | | | | | | | | |
| V 290.880† | 4255.0 | 0.482856 | mg/L | 0.0044642 | 0.482856 | mg/L | 0.0044642 | 0.92% |
| QC value within limits for V 290.880 Recovery = 96.57% | | | | | | | | |
| Zn 206.200† | 1878.5 | 0.502544 | mg/L | 0.0077916 | 0.502544 | mg/L | 0.0077916 | 1.55% |
| QC value within limits for Zn 206.200 Recovery = 100.51% | | | | | | | | |
| Si 251.611† | 13533.1 | 4.90257 | mg/L | 0.053620 | 4.90257 | mg/L | 0.053620 | 1.09% |
| QC value within limits for Si 251.611 Recovery = 98.05% | | | | | | | | |
| B 249.772† | 3491.7 | 0.473311 | mg/L | 0.0041350 | 0.473311 | mg/L | 0.0041350 | 0.87% |
| QC value within limits for B 249.772 Recovery = 94.66% | | | | | | | | |
| Ce 413.764† | 2298.3 | 0.498402 | mg/L | 0.0046586 | 0.498402 | mg/L | 0.0046586 | 0.93% |
| QC value within limits for Ce 413.764 Recovery = 99.68% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 6
Sample ID: ICB V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 1
Date Collected: 9/29/2021 3:21:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 95480.7 | 102 | % | 0.70 | 102 | % | 0.70 | 0.68% |
| Y 371.029 | 37589.6 | 103 | % | 0.80 | 103 | % | 0.80 | 0.78% |
| Al 308.215† | 0.1 | 0.0168755 | mg/L | 0.01118549 | 0.0168755 | mg/L | 0.01118549 | 66.28% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 0.1 | 0.0001563 | mg/L | 0.00079426 | 0.0001563 | mg/L | 0.00079426 | 508.19% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -1.3 | -0.0615046 | mg/L | 0.00145535 | -0.0615046 | mg/L | 0.00145535 | 2.37% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 58.8 | 0.0050692 | mg/L | 0.00669200 | 0.0050692 | mg/L | 0.00669200 | 132.01% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 3.6 | -0.0096213 | mg/L | 0.00264348 | -0.0096213 | mg/L | 0.00264348 | 27.48% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -139.4 | 0.184815 | mg/L | 0.0121368 | 0.184815 | mg/L | 0.0121368 | 6.57% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -0.2 | -0.115345 | mg/L | 0.0157206 | -0.115345 | mg/L | 0.0157206 | 13.63% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -1.7 | -0.0013219 | mg/L | 0.00029881 | -0.0013219 | mg/L | 0.00029881 | 22.60% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -0.6 | 0.0028731 | mg/L | 0.00198586 | 0.0028731 | mg/L | 0.00198586 | 69.12% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -1369.2 | -0.114840 | mg/L | 0.0029598 | -0.114840 | mg/L | 0.0029598 | 2.58% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 0.9 | -0.0005293 | mg/L | 0.00205543 | -0.0005293 | mg/L | 0.00205543 | 388.34% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 4.5 | 0.0111852 | mg/L | 0.01149889 | 0.0111852 | mg/L | 0.01149889 | 102.80% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 0.1 | -0.0011464 | mg/L | 0.00937636 | -0.0011464 | mg/L | 0.00937636 | 817.87% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 29.7 | 0.0002877 | mg/L | 0.00001370 | 0.0002877 | mg/L | 0.00001370 | 4.76% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 4.0 | 0.0009418 | mg/L | 0.00060869 | 0.0009418 | mg/L | 0.00060869 | 64.63% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 3.2 | 0.0001893 | mg/L | 0.00111773 | 0.0001893 | mg/L | 0.00111773 | 590.30% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 0.6 | -0.0435532 | mg/L | 0.00475449 | -0.0435532 | mg/L | 0.00475449 | 10.92% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 9.2 | -0.0008814 | mg/L | 0.00121689 | -0.0008814 | mg/L | 0.00121689 | 138.07% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -32.2 | -0.0113405 | mg/L | 0.00927504 | -0.0113405 | mg/L | 0.00927504 | 81.79% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 7
Sample ID: LRS V-352964
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 10
Date Collected: 9/29/2021 3:24:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LRS V-352964

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92699.6 | 99.1 | % | 0.65 | 99.1 | % | 0.65 | 0.66% |
| Y 371.029 | 32615.3 | 89.2 | % | 0.76 | 89.2 | % | 0.76 | 0.85% |
| Al 308.215† | 446475.7 | 472.093 | mg/L | 1.1627 | 472.093 | mg/L | 1.1627 | 0.25% |
| QC value within limits for Al 308.215 Recovery = 94.42% | | | | | | | | |
| Ba 233.527† | 46324.4 | 9.57744 | mg/L | 0.026503 | 9.57744 | mg/L | 0.026503 | 0.28% |
| QC value within limits for Ba 233.527 Recovery = 95.77% | | | | | | | | |
| Ca 315.887† | 2381339.5 | 451.975 | mg/L | 2.1852 | 451.975 | mg/L | 2.1852 | 0.48% |
| QC value within limits for Ca 315.887 Recovery = 90.39% | | | | | | | | |
| Cu 327.393† | 47797.5 | 10.0416 | mg/L | 0.05860 | 10.0416 | mg/L | 0.05860 | 0.58% |
| QC value within limits for Cu 327.393 Recovery = 100.42% | | | | | | | | |
| Fe 273.955† | 403448.5 | 343.317 | mg/L | 0.9028 | 343.317 | mg/L | 0.9028 | 0.26% |
| QC value less than the lower limit for Fe 273.955 Recovery = 85.83% | | | | | | | | |
| K 766.490† | 392810.2 | 204.065 | mg/L | 0.8555 | 204.065 | mg/L | 0.8555 | 0.42% |
| QC value within limits for K 766.490 Recovery = 102.03% | | | | | | | | |
| Mg 279.077† | 302857.1 | 459.790 | mg/L | 1.3950 | 459.790 | mg/L | 1.3950 | 0.30% |
| QC value within limits for Mg 279.077 Recovery = 91.96% | | | | | | | | |
| Mn 257.610† | 259996.1 | 8.77511 | mg/L | 0.012551 | 8.77511 | mg/L | 0.012551 | 0.14% |
| QC value less than the lower limit for Mn 257.610 Recovery = 87.75% | | | | | | | | |
| Mo 202.031† | 12588.2 | 8.76273 | mg/L | 0.087835 | 8.76273 | mg/L | 0.087835 | 1.00% |
| QC value less than the lower limit for Mo 202.031 Recovery = 87.63% | | | | | | | | |
| Na 589.592† | 9166338.8 | 933.362 | mg/L | 11.1310 | 933.362 | mg/L | 11.1310 | 1.19% |
| QC value within limits for Na 589.592 Recovery = 93.34% | | | | | | | | |
| Ni 231.604† | 16979.5 | 8.82554 | mg/L | 0.020576 | 8.82554 | mg/L | 0.020576 | 0.23% |
| QC value less than the lower limit for Ni 231.604 Recovery = 88.26% | | | | | | | | |
| Se 196.026† | 1221.2 | 4.70625 | mg/L | 0.016597 | 4.70625 | mg/L | 0.016597 | 0.35% |
| QC value within limits for Se 196.026 Recovery = 94.13% | | | | | | | | |
| Sn 189.927† | 3102.2 | 9.67150 | mg/L | 0.109766 | 9.67150 | mg/L | 0.109766 | 1.13% |
| QC value within limits for Sn 189.927 Recovery = 96.71% | | | | | | | | |
| Ti 334.940† | 426584.6 | 9.43269 | mg/L | 0.046220 | 9.43269 | mg/L | 0.046220 | 0.49% |
| QC value within limits for Ti 334.940 Recovery = 94.33% | | | | | | | | |
| V 290.880† | 70798.6 | 8.17402 | mg/L | 0.020678 | 8.17402 | mg/L | 0.020678 | 0.25% |
| QC value less than the lower limit for V 290.880 Recovery = 81.74% | | | | | | | | |
| Zn 206.200† | 31750.0 | 8.50457 | mg/L | 0.023165 | 8.50457 | mg/L | 0.023165 | 0.27% |
| QC value less than the lower limit for Zn 206.200 Recovery = 85.05% | | | | | | | | |
| Si 251.611† | 66332.0 | 24.2006 | mg/L | 0.09075 | 24.2006 | mg/L | 0.09075 | 0.37% |
| QC value within limits for Si 251.611 Recovery = 96.80% | | | | | | | | |
| B 249.772† | 37760.6 | 3.97040 | mg/L | 0.003124 | 3.97040 | mg/L | 0.003124 | 0.08% |
| QC value less than the lower limit for B 249.772 Recovery = 79.41% | | | | | | | | |
| Ce 413.764† | 103061.2 | 22.5378 | mg/L | 0.09926 | 22.5378 | mg/L | 0.09926 | 0.44% |
| QC value within limits for Ce 413.764 Recovery = 90.15% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 8
Autosampler Location: 3
Sample ID: ICS3 V-352955
Date Collected: 9/29/2021 3:30:40 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: ICS3 V-352955

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94724.1 | 101 | % | 1.06 | 101 | % | 1.06 | 1.05% |
| Y 371.029 | 36169.8 | 99.0 | % | 0.57 | 99.0 | % | 0.57 | 0.57% |
| Al 308.215† | 4602.3 | 4.90924 | mg/L | 0.025298 | 4.90924 | mg/L | 0.025298 | 0.52% |
| QC value within limits for Al 308.215 Recovery = 98.18% | | | | | | | | |
| Ba 233.527† | 2335.5 | 0.489865 | mg/L | 0.0031582 | 0.489865 | mg/L | 0.0031582 | 0.64% |
| QC value within limits for Ba 233.527 Recovery = 97.97% | | | | | | | | |
| Ca 315.887† | 255814.9 | 48.4986 | mg/L | 0.10710 | 48.4986 | mg/L | 0.10710 | 0.22% |
| QC value within limits for Ca 315.887 Recovery = 97.00% | | | | | | | | |
| Cu 327.393† | 2464.6 | 0.522839 | mg/L | 0.0072484 | 0.522839 | mg/L | 0.0072484 | 1.39% |
| QC value within limits for Cu 327.393 Recovery = 104.57% | | | | | | | | |
| Fe 273.955† | 5760.0 | 4.88900 | mg/L | 0.015686 | 4.88900 | mg/L | 0.015686 | 0.32% |
| QC value within limits for Fe 273.955 Recovery = 97.78% | | | | | | | | |
| K 766.490† | 90437.2 | 47.1802 | mg/L | 0.04763 | 47.1802 | mg/L | 0.04763 | 0.10% |
| QC value within limits for K 766.490 Recovery = 94.36% | | | | | | | | |
| Mg 279.077† | 32106.2 | 48.6400 | mg/L | 0.24474 | 48.6400 | mg/L | 0.24474 | 0.50% |
| QC value within limits for Mg 279.077 Recovery = 97.28% | | | | | | | | |
| Mn 257.610† | 14306.0 | 0.486057 | mg/L | 0.0011233 | 0.486057 | mg/L | 0.0011233 | 0.23% |
| QC value within limits for Mn 257.610 Recovery = 97.21% | | | | | | | | |
| Mo 202.031† | 699.8 | 0.490270 | mg/L | 0.0070386 | 0.490270 | mg/L | 0.0070386 | 1.44% |
| QC value within limits for Mo 202.031 Recovery = 98.05% | | | | | | | | |
| Na 589.592† | 465316.4 | 47.4042 | mg/L | 0.03481 | 47.4042 | mg/L | 0.03481 | 0.07% |
| QC value within limits for Na 589.592 Recovery = 94.81% | | | | | | | | |
| Ni 231.604† | 947.0 | 0.489146 | mg/L | 0.0070597 | 0.489146 | mg/L | 0.0070597 | 1.44% |
| QC value within limits for Ni 231.604 Recovery = 97.83% | | | | | | | | |
| Se 196.026† | 134.2 | 0.481704 | mg/L | 0.0096676 | 0.481704 | mg/L | 0.0096676 | 2.01% |
| QC value within limits for Se 196.026 Recovery = 96.34% | | | | | | | | |
| Sn 189.927† | 158.5 | 0.499147 | mg/L | 0.0079190 | 0.499147 | mg/L | 0.0079190 | 1.59% |
| QC value within limits for Sn 189.927 Recovery = 99.83% | | | | | | | | |
| Ti 334.940† | 22039.3 | 0.491087 | mg/L | 0.0031378 | 0.491087 | mg/L | 0.0031378 | 0.64% |
| QC value within limits for Ti 334.940 Recovery = 98.22% | | | | | | | | |
| V 290.880† | 4144.1 | 0.470111 | mg/L | 0.0039334 | 0.470111 | mg/L | 0.0039334 | 0.84% |
| QC value within limits for V 290.880 Recovery = 94.02% | | | | | | | | |
| Zn 206.200† | 1836.6 | 0.491321 | mg/L | 0.0031589 | 0.491321 | mg/L | 0.0031589 | 0.64% |
| QC value within limits for Zn 206.200 Recovery = 98.26% | | | | | | | | |
| Si 251.611† | 13421.3 | 4.86172 | mg/L | 0.019003 | 4.86172 | mg/L | 0.019003 | 0.39% |
| QC value within limits for Si 251.611 Recovery = 97.23% | | | | | | | | |
| B 249.772† | 3433.4 | 0.465407 | mg/L | 0.0013792 | 0.465407 | mg/L | 0.0013792 | 0.30% |
| QC value within limits for B 249.772 Recovery = 93.08% | | | | | | | | |
| Ce 413.764† | 2092.1 | 0.453301 | mg/L | 0.0064443 | 0.453301 | mg/L | 0.0064443 | 1.42% |
| QC value within limits for Ce 413.764 Recovery = 90.66% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 9
Sample ID: RINSE
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 14
Date Collected: 9/29/2021 3:34:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: RINSE

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94729.8 | 101 | % | 1.25 | 101 | % | 1.25 | 1.23% |
| Y 371.029 | 37893.2 | 104 | % | 1.40 | 104 | % | 1.40 | 1.35% |
| Al 308.215† | 14.8 | 0.0324109 | mg/L | 0.01438490 | 0.0324109 | mg/L | 0.01438490 | 44.38% |
| Ba 233.527† | 5.8 | 0.0013487 | mg/L | 0.00064806 | 0.0013487 | mg/L | 0.00064806 | 48.05% |
| Ca 315.887† | -23.4 | -0.0656924 | mg/L | 0.00447048 | -0.0656924 | mg/L | 0.00447048 | 6.81% |
| Cu 327.393† | 26.3 | -0.0016096 | mg/L | 0.00329878 | -0.0016096 | mg/L | 0.00329878 | 204.95% |
| Fe 273.955† | 4.4 | -0.0089108 | mg/L | 0.00929033 | -0.0089108 | mg/L | 0.00929033 | 104.26% |
| K 766.490† | -36.2 | 0.238386 | mg/L | 0.0079272 | 0.238386 | mg/L | 0.0079272 | 3.33% |
| Mg 279.077† | 0.4 | -0.114339 | mg/L | 0.0065122 | -0.114339 | mg/L | 0.0065122 | 5.70% |
| Mn 257.610† | 1.9 | -0.0012013 | mg/L | 0.00018254 | -0.0012013 | mg/L | 0.00018254 | 15.19% |
| Mo 202.031† | -1.1 | 0.0025635 | mg/L | 0.00182678 | 0.0025635 | mg/L | 0.00182678 | 71.26% |
| Na 589.592† | -509.2 | -0.0272747 | mg/L | 0.01523978 | -0.0272747 | mg/L | 0.01523978 | 55.88% |
| Ni 231.604† | -0.7 | -0.0013385 | mg/L | 0.00305467 | -0.0013385 | mg/L | 0.00305467 | 228.22% |
| Se 196.026† | 4.6 | 0.0116676 | mg/L | 0.00232418 | 0.0116676 | mg/L | 0.00232418 | 19.92% |
| Sn 189.927† | -0.2 | -0.0021492 | mg/L | 0.01677228 | -0.0021492 | mg/L | 0.01677228 | 780.38% |
| Ti 334.940† | 3.5 | -0.0002884 | mg/L | 0.00068854 | -0.0002884 | mg/L | 0.00068854 | 238.71% |
| V 290.880† | 1.6 | 0.0006630 | mg/L | 0.00151576 | 0.0006630 | mg/L | 0.00151576 | 228.61% |
| Zn 206.200† | -0.3 | -0.0007555 | mg/L | 0.00056579 | -0.0007555 | mg/L | 0.00056579 | 74.89% |
| Si 251.611† | 4.2 | -0.0422395 | mg/L | 0.00272275 | -0.0422395 | mg/L | 0.00272275 | 6.45% |
| B 249.772† | 24.4 | 0.0012758 | mg/L | 0.00061621 | 0.0012758 | mg/L | 0.00061621 | 48.30% |
| Ce 413.764† | -70.9 | -0.0198120 | mg/L | 0.00171100 | -0.0198120 | mg/L | 0.00171100 | 8.64% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 10
Sample ID: LLICV V-352961
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 5
Date Collected: 9/29/2021 3:38:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV V-352961

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 96508.2 | 103 | % | 0.59 | 103 | % | 0.59 | 0.57% |
| Y 371.029 | 37886.6 | 104 | % | 0.67 | 104 | % | 0.67 | 0.65% |
| Al 308.215† | 190.9 | 0.220226 | mg/L | 0.0120000 | 0.220226 | mg/L | 0.0120000 | 5.45% |
| QC value within limits for Al 308.215 Recovery = 110.11% | | | | | | | | |
| Ba 233.527† | 251.1 | 0.0528993 | mg/L | 0.00059466 | 0.0528993 | mg/L | 0.00059466 | 1.12% |
| QC value within limits for Ba 233.527 Recovery = 105.80% | | | | | | | | |
| Ca 315.887† | 26177.6 | 4.90790 | mg/L | 0.017467 | 4.90790 | mg/L | 0.017467 | 0.36% |
| QC value within limits for Ca 315.887 Recovery = 98.16% | | | | | | | | |
| Cu 327.393† | 306.6 | 0.0583877 | mg/L | 0.00420444 | 0.0583877 | mg/L | 0.00420444 | 7.20% |
| QC value within limits for Cu 327.393 Recovery = 116.78% | | | | | | | | |
| Fe 273.955† | 359.7 | 0.293416 | mg/L | 0.0034882 | 0.293416 | mg/L | 0.0034882 | 1.19% |
| QC value within limits for Fe 273.955 Recovery = 97.81% | | | | | | | | |
| K 766.490† | 8935.1 | 4.89312 | mg/L | 0.019169 | 4.89312 | mg/L | 0.019169 | 0.39% |
| QC value within limits for K 766.490 Recovery = 97.86% | | | | | | | | |
| Mg 279.077† | 3389.0 | 5.03136 | mg/L | 0.031802 | 5.03136 | mg/L | 0.031802 | 0.63% |
| QC value within limits for Mg 279.077 Recovery = 100.63% | | | | | | | | |
| Mn 257.610† | 1165.5 | 0.0386571 | mg/L | 0.00033603 | 0.0386571 | mg/L | 0.00033603 | 0.87% |
| QC value within limits for Mn 257.610 Recovery = 96.64% | | | | | | | | |
| Mo 202.031† | 28.4 | 0.0230664 | mg/L | 0.00204753 | 0.0230664 | mg/L | 0.00204753 | 8.88% |
| QC value within limits for Mo 202.031 Recovery = 115.33% | | | | | | | | |
| Na 589.592† | 46492.6 | 4.75856 | mg/L | 0.019244 | 4.75856 | mg/L | 0.019244 | 0.40% |
| QC value within limits for Na 589.592 Recovery = 95.17% | | | | | | | | |
| Ni 231.604† | 104.3 | 0.0529806 | mg/L | 0.00707748 | 0.0529806 | mg/L | 0.00707748 | 13.36% |
| QC value within limits for Ni 231.604 Recovery = 105.96% | | | | | | | | |
| Se 196.026† | 11.0 | 0.0347328 | mg/L | 0.00935482 | 0.0347328 | mg/L | 0.00935482 | 26.93% |
| QC value less than the lower limit for Se 196.026 Recovery = 69.47% | | | | | | | | |
| Sn 189.927† | 17.4 | 0.0534297 | mg/L | 0.00869106 | 0.0534297 | mg/L | 0.00869106 | 16.27% |
| QC value within limits for Sn 189.927 Recovery = 106.86% | | | | | | | | |
| Ti 334.940† | 2300.5 | 0.0509178 | mg/L | 0.00036915 | 0.0509178 | mg/L | 0.00036915 | 0.72% |
| QC value within limits for Ti 334.940 Recovery = 101.84% | | | | | | | | |
| V 290.880† | 388.4 | 0.0442553 | mg/L | 0.00127862 | 0.0442553 | mg/L | 0.00127862 | 2.89% |
| QC value within limits for V 290.880 Recovery = 88.51% | | | | | | | | |
| Zn 206.200† | 193.3 | 0.0511050 | mg/L | 0.00263227 | 0.0511050 | mg/L | 0.00263227 | 5.15% |
| QC value within limits for Zn 206.200 Recovery = 102.21% | | | | | | | | |
| Si 251.611† | 822.5 | 0.256834 | mg/L | 0.0025086 | 0.256834 | mg/L | 0.0025086 | 0.98% |
| QC value greater than the upper limit for Si 251.611 Recovery = 128.42% | | | | | | | | |
| B 249.772† | 1411.4 | 0.196948 | mg/L | 0.0007361 | 0.196948 | mg/L | 0.0007361 | 0.37% |
| QC value within limits for B 249.772 Recovery = 98.47% | | | | | | | | |
| Ce 413.764† | 887.9 | 0.189913 | mg/L | 0.0053600 | 0.189913 | mg/L | 0.0053600 | 2.82% |
| QC value within limits for Ce 413.764 Recovery = 94.96% | | | | | | | | |

QC Failed. Continue with analysis.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 11 Autosampler Location: 7
Sample ID: ICSA V-352957 Date Collected: 9/29/2021 3:42:33 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: ICSA V-352957

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91051.3 | 97.3 | % | 1.08 | 97.3 | % | 1.08 | 1.11% |
| Y 371.029 | 34580.2 | 94.6 | % | 1.14 | 94.6 | % | 1.14 | 1.21% |
| Al 308.215† | 467016.0 | 493.474 | mg/L | 5.0808 | 493.474 | mg/L | 5.0808 | 1.03% |
| QC value within limits for Al 308.215 Recovery = 98.69% | | | | | | | | |
| Ba 233.527† | 1216.1 | 0.157771 | mg/L | 0.0040806 | 0.157771 | mg/L | 0.0040806 | 2.59% |
| Ca 315.887† | 2467060.1 | 468.247 | mg/L | 4.4208 | 468.247 | mg/L | 4.4208 | 0.94% |
| QC value within limits for Ca 315.887 Recovery = 93.65% | | | | | | | | |
| Cu 327.393† | -851.8 | 0.0352067 | mg/L | 0.00113873 | 0.0352067 | mg/L | 0.00113873 | 3.23% |
| Fe 273.955† | 209085.6 | 177.917 | mg/L | 0.6472 | 177.917 | mg/L | 0.6472 | 0.36% |
| QC value within limits for Fe 273.955 Recovery = 88.96% | | | | | | | | |
| K 766.490† | 142.5 | 0.331082 | mg/L | 0.0275555 | 0.331082 | mg/L | 0.0275555 | 8.32% |
| Mg 279.077† | 306836.4 | 465.833 | mg/L | 1.5386 | 465.833 | mg/L | 1.5386 | 0.33% |
| QC value within limits for Mg 279.077 Recovery = 93.17% | | | | | | | | |
| Mn 257.610† | -9.8 | 0.0860658 | mg/L | 0.00032884 | 0.0860658 | mg/L | 0.00032884 | 0.38% |
| Mo 202.031† | -32.5 | -0.0193326 | mg/L | 0.00154166 | -0.0193326 | mg/L | 0.00154166 | 7.97% |
| Na 589.592† | 1283.5 | 0.155263 | mg/L | 0.0360846 | 0.155263 | mg/L | 0.0360846 | 23.24% |
| Ni 231.604† | 82.8 | 0.0352730 | mg/L | 0.00006848 | 0.0352730 | mg/L | 0.00006848 | 0.19% |
| Se 196.026† | -30.5 | 0.0536517 | mg/L | 0.01699204 | 0.0536517 | mg/L | 0.01699204 | 31.67% |
| Sn 189.927† | -115.9 | -0.236422 | mg/L | 0.0192608 | -0.236422 | mg/L | 0.0192608 | 8.15% |
| Ti 334.940† | -3692.9 | -0.0052701 | mg/L | 0.00086133 | -0.0052701 | mg/L | 0.00086133 | 16.34% |
| V 290.880† | 3479.5 | 0.223690 | mg/L | 0.0078079 | 0.223690 | mg/L | 0.0078079 | 3.49% |
| Zn 206.200† | 110.6 | 0.0289427 | mg/L | 0.00024687 | 0.0289427 | mg/L | 0.00024687 | 0.85% |
| Si 251.611† | -16.2 | -0.0497068 | mg/L | 0.00698785 | -0.0497068 | mg/L | 0.00698785 | 14.06% |
| B 249.772† | 3322.4 | -0.249718 | mg/L | 0.0089197 | -0.249718 | mg/L | 0.0089197 | 3.57% |
| Ce 413.764† | -493.6 | -0.112272 | mg/L | 0.0000242 | -0.112272 | mg/L | 0.0000242 | 0.02% |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 12 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/29/2021 3:47:55 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92827.3 | 99.2 | % | 0.34 | 99.2 | % | 0.34 | 0.34% |
| Y 371.029 | 36673.9 | 100 | % | 0.44 | 100 | % | 0.44 | 0.44% |
| Al 308.215† | 4637.7 | 4.94810 | mg/L | 0.057674 | 4.94810 | mg/L | 0.057674 | 1.17% |
| QC value within limits for Al 308.215 Recovery = 98.96% | | | | | | | | |
| Ba 233.527† | 2429.5 | 0.509721 | mg/L | 0.0040290 | 0.509721 | mg/L | 0.0040290 | 0.79% |
| QC value within limits for Ba 233.527 Recovery = 101.94% | | | | | | | | |
| Ca 315.887† | 261075.4 | 49.4972 | mg/L | 0.46822 | 49.4972 | mg/L | 0.46822 | 0.95% |
| QC value within limits for Ca 315.887 Recovery = 98.99% | | | | | | | | |
| Cu 327.393† | 2545.7 | 0.540007 | mg/L | 0.0102899 | 0.540007 | mg/L | 0.0102899 | 1.91% |
| QC value within limits for Cu 327.393 Recovery = 108.00% | | | | | | | | |
| Fe 273.955† | 5724.8 | 4.85902 | mg/L | 0.049588 | 4.85902 | mg/L | 0.049588 | 1.02% |
| QC value within limits for Fe 273.955 Recovery = 97.18% | | | | | | | | |
| K 766.490† | 92368.9 | 48.1824 | mg/L | 0.42366 | 48.1824 | mg/L | 0.42366 | 0.88% |
| QC value within limits for K 766.490 Recovery = 96.36% | | | | | | | | |
| Mg 279.077† | 32816.8 | 49.7192 | mg/L | 0.03904 | 49.7192 | mg/L | 0.03904 | 0.08% |
| QC value within limits for Mg 279.077 Recovery = 99.44% | | | | | | | | |
| Mn 257.610† | 14531.8 | 0.493809 | mg/L | 0.0018500 | 0.493809 | mg/L | 0.0018500 | 0.37% |
| QC value within limits for Mn 257.610 Recovery = 98.76% | | | | | | | | |
| Mo 202.031† | 700.1 | 0.490429 | mg/L | 0.0060437 | 0.490429 | mg/L | 0.0060437 | 1.23% |
| QC value within limits for Mo 202.031 Recovery = 98.09% | | | | | | | | |
| Na 589.592† | 472085.8 | 48.0934 | mg/L | 0.39741 | 48.0934 | mg/L | 0.39741 | 0.83% |
| QC value within limits for Na 589.592 Recovery = 96.19% | | | | | | | | |
| Ni 231.604† | 965.3 | 0.498576 | mg/L | 0.0097612 | 0.498576 | mg/L | 0.0097612 | 1.96% |
| QC value within limits for Ni 231.604 Recovery = 99.72% | | | | | | | | |
| Se 196.026† | 136.1 | 0.488520 | mg/L | 0.0406190 | 0.488520 | mg/L | 0.0406190 | 8.31% |
| QC value within limits for Se 196.026 Recovery = 97.70% | | | | | | | | |
| Sn 189.927† | 154.6 | 0.487581 | mg/L | 0.0119593 | 0.487581 | mg/L | 0.0119593 | 2.45% |
| QC value within limits for Sn 189.927 Recovery = 97.52% | | | | | | | | |
| Ti 334.940† | 22690.1 | 0.505529 | mg/L | 0.0009636 | 0.505529 | mg/L | 0.0009636 | 0.19% |
| QC value within limits for Ti 334.940 Recovery = 101.11% | | | | | | | | |
| V 290.880† | 4295.7 | 0.487570 | mg/L | 0.0033597 | 0.487570 | mg/L | 0.0033597 | 0.69% |
| QC value within limits for V 290.880 Recovery = 97.51% | | | | | | | | |
| Zn 206.200† | 1858.8 | 0.497257 | mg/L | 0.0075008 | 0.497257 | mg/L | 0.0075008 | 1.51% |
| QC value within limits for Zn 206.200 Recovery = 99.45% | | | | | | | | |
| Si 251.611† | 13622.4 | 4.93521 | mg/L | 0.012455 | 4.93521 | mg/L | 0.012455 | 0.25% |
| QC value within limits for Si 251.611 Recovery = 98.70% | | | | | | | | |
| B 249.772† | 3511.8 | 0.476654 | mg/L | 0.0034410 | 0.476654 | mg/L | 0.0034410 | 0.72% |
| QC value within limits for B 249.772 Recovery = 95.33% | | | | | | | | |
| Ce 413.764† | 2139.1 | 0.463564 | mg/L | 0.0127678 | 0.463564 | mg/L | 0.0127678 | 2.75% |
| QC value within limits for Ce 413.764 Recovery = 92.71% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 13 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 3:52:03 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93998.2 | 100 | % | 0.62 | 100 | % | 0.62 | 0.62% |
| Y 371.029 | 37710.7 | 103 | % | 0.61 | 103 | % | 0.61 | 0.59% |
| Al 308.215† | 5.7 | 0.0227241 | mg/L | 0.00400482 | 0.0227241 | mg/L | 0.00400482 | 17.62% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 3.9 | 0.0009578 | mg/L | 0.00048890 | 0.0009578 | mg/L | 0.00048890 | 51.05% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -6.8 | -0.0625535 | mg/L | 0.00565759 | -0.0625535 | mg/L | 0.00565759 | 9.04% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 27.6 | -0.0013463 | mg/L | 0.00416757 | -0.0013463 | mg/L | 0.00416757 | 309.55% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -2.5 | -0.0148554 | mg/L | 0.00190519 | -0.0148554 | mg/L | 0.00190519 | 12.82% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -145.3 | 0.181755 | mg/L | 0.0140165 | 0.181755 | mg/L | 0.0140165 | 7.71% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 8.0 | -0.102946 | mg/L | 0.0131462 | -0.102946 | mg/L | 0.0131462 | 12.77% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -2.1 | -0.0013305 | mg/L | 0.00028637 | -0.0013305 | mg/L | 0.00028637 | 21.52% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -0.1 | 0.0032275 | mg/L | 0.00169952 | 0.0032275 | mg/L | 0.00169952 | 52.66% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -1220.7 | -0.0997180 | mg/L | 0.00570719 | -0.0997180 | mg/L | 0.00570719 | 5.72% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -0.4 | -0.0012060 | mg/L | 0.00183066 | -0.0012060 | mg/L | 0.00183066 | 151.79% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 1.2 | -0.0007341 | mg/L | 0.00377771 | -0.0007341 | mg/L | 0.00377771 | 514.58% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -0.8 | -0.0040178 | mg/L | 0.00786092 | -0.0040178 | mg/L | 0.00786092 | 195.65% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | -1.7 | -0.0004013 | mg/L | 0.00041499 | -0.0004013 | mg/L | 0.00041499 | 103.41% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 1.5 | 0.0006505 | mg/L | 0.00244642 | 0.0006505 | mg/L | 0.00244642 | 376.07% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 1.1 | -0.0003860 | mg/L | 0.00100740 | -0.0003860 | mg/L | 0.00100740 | 260.99% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 4.7 | -0.0420439 | mg/L | 0.00234699 | -0.0420439 | mg/L | 0.00234699 | 5.58% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 11.6 | -0.0005171 | mg/L | 0.00155151 | -0.0005171 | mg/L | 0.00155151 | 300.06% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -39.3 | -0.0129095 | mg/L | 0.00556424 | -0.0129095 | mg/L | 0.00556424 | 43.10% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 14
Sample ID: MB 94429 (1)
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 83
Date Collected: 9/29/2021 3:55:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 94429 (1)

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94215.3 | 101 | % | 0.44 | 101 | % | 0.44 | 0.44% |
| Y 371.029 | 37808.7 | 103 | % | 0.54 | 103 | % | 0.54 | 0.52% |
| Al 308.215† | 8.2 | 0.0254749 | mg/L | 0.01991792 | 0.0254749 | mg/L | 0.01991792 | 78.19% |
| Ba 233.527† | 5.1 | 0.0012064 | mg/L | 0.00130621 | 0.0012064 | mg/L | 0.00130621 | 108.27% |
| Ca 315.887† | 112.6 | -0.0398895 | mg/L | 0.00102696 | -0.0398895 | mg/L | 0.00102696 | 2.57% |
| Cu 327.393† | 38.4 | 0.0008810 | mg/L | 0.00267137 | 0.0008810 | mg/L | 0.00267137 | 303.24% |
| Fe 273.955† | 21.8 | 0.0058392 | mg/L | 0.00173320 | 0.0058392 | mg/L | 0.00173320 | 29.68% |
| K 766.490† | -292.1 | 0.105630 | mg/L | 0.0156073 | 0.105630 | mg/L | 0.0156073 | 14.78% |
| Mg 279.077† | -0.8 | -0.116297 | mg/L | 0.0105062 | -0.116297 | mg/L | 0.0105062 | 9.03% |
| Mn 257.610† | 18.9 | -0.0006340 | mg/L | 0.00011635 | -0.0006340 | mg/L | 0.00011635 | 18.35% |
| Mo 202.031† | -5.0 | -0.0001690 | mg/L | 0.00369756 | -0.0001690 | mg/L | 0.00369756 | >999.9% |
| Na 589.592† | -1944.1 | -0.173373 | mg/L | 0.0066710 | -0.173373 | mg/L | 0.0066710 | 3.85% |
| Ni 231.604† | -2.3 | -0.0021745 | mg/L | 0.00517307 | -0.0021745 | mg/L | 0.00517307 | 237.89% |
| Se 196.026† | -1.4 | -0.0100188 | mg/L | 0.01118502 | -0.0100188 | mg/L | 0.01118502 | 111.64% |
| Sn 189.927† | 0.3 | -0.0005531 | mg/L | 0.00462013 | -0.0005531 | mg/L | 0.00462013 | 835.35% |
| Ti 334.940† | 14.6 | -0.0000401 | mg/L | 0.00090763 | -0.0000401 | mg/L | 0.00090763 | >999.9% |
| V 290.880† | 2.6 | 0.0007856 | mg/L | 0.00127510 | 0.0007856 | mg/L | 0.00127510 | 162.31% |
| Zn 206.200† | 15.2 | 0.0034046 | mg/L | 0.00192577 | 0.0034046 | mg/L | 0.00192577 | 56.56% |
| Si 251.611† | 44.3 | -0.0275891 | mg/L | 0.00099349 | -0.0275891 | mg/L | 0.00099349 | 3.60% |
| B 249.772† | 9.9 | -0.0008356 | mg/L | 0.00084926 | -0.0008356 | mg/L | 0.00084926 | 101.64% |
| Ce 413.764† | -28.5 | -0.0105292 | mg/L | 0.00646925 | -0.0105292 | mg/L | 0.00646925 | 61.44% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 15
Sample ID: LCS 94429
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 84
Date Collected: 9/29/2021 3:59:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS 94429

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94067.4 | 101 | % | 0.70 | 101 | % | 0.70 | 0.70% |
| Y 371.029 | 36377.7 | 99.5 | % | 0.69 | 99.5 | % | 0.69 | 0.70% |
| Al 308.215† | 4704.2 | 5.01756 | mg/L | 0.049279 | 5.01756 | mg/L | 0.049279 | 0.98% |
| Ba 233.527† | 2376.3 | 0.498440 | mg/L | 0.0040138 | 0.498440 | mg/L | 0.0040138 | 0.81% |
| Ca 315.887† | 258031.3 | 48.9194 | mg/L | 0.04641 | 48.9194 | mg/L | 0.04641 | 0.09% |
| Cu 327.393† | 2549.8 | 0.540588 | mg/L | 0.0017783 | 0.540588 | mg/L | 0.0017783 | 0.33% |
| Fe 273.955† | 5848.5 | 4.96433 | mg/L | 0.042557 | 4.96433 | mg/L | 0.042557 | 0.86% |
| K 766.490† | 91262.5 | 47.6084 | mg/L | 0.02997 | 47.6084 | mg/L | 0.02997 | 0.06% |
| Mg 279.077† | 32517.7 | 49.2649 | mg/L | 0.44994 | 49.2649 | mg/L | 0.44994 | 0.91% |
| Mn 257.610† | 14409.3 | 0.489628 | mg/L | 0.0046319 | 0.489628 | mg/L | 0.0046319 | 0.95% |
| Mo 202.031† | 711.5 | 0.498384 | mg/L | 0.0044738 | 0.498384 | mg/L | 0.0044738 | 0.90% |
| Na 589.592† | 467058.2 | 47.5815 | mg/L | 0.06244 | 47.5815 | mg/L | 0.06244 | 0.13% |
| Ni 231.604† | 971.2 | 0.501636 | mg/L | 0.0035026 | 0.501636 | mg/L | 0.0035026 | 0.70% |
| Se 196.026† | 130.4 | 0.468004 | mg/L | 0.0255058 | 0.468004 | mg/L | 0.0255058 | 5.45% |
| Sn 189.927† | 149.2 | 0.470763 | mg/L | 0.0107182 | 0.470763 | mg/L | 0.0107182 | 2.28% |
| Ti 334.940† | 22552.9 | 0.502425 | mg/L | 0.0054941 | 0.502425 | mg/L | 0.0054941 | 1.09% |
| V 290.880† | 4257.3 | 0.483227 | mg/L | 0.0042890 | 0.483227 | mg/L | 0.0042890 | 0.89% |
| Zn 206.200† | 1854.0 | 0.495991 | mg/L | 0.0032409 | 0.495991 | mg/L | 0.0032409 | 0.65% |
| Si 251.611† | 1456.1 | 0.488435 | mg/L | 0.0051738 | 0.488435 | mg/L | 0.0051738 | 1.06% |
| B 249.772† | 3501.9 | 0.474825 | mg/L | 0.0080783 | 0.474825 | mg/L | 0.0080783 | 1.70% |
| Ce 413.764† | 2245.5 | 0.486848 | mg/L | 0.0022276 | 0.486848 | mg/L | 0.0022276 | 0.46% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 16
Sample ID: LCS MR 94429
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 85
Date Collected: 9/29/2021 4:03:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS MR 94429

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94657.5 | 101 | % | 0.65 | 101 | % | 0.65 | 0.64% |
| Y 371.029 | 36343.3 | 99.4 | % | 0.55 | 99.4 | % | 0.55 | 0.56% |
| Al 308.215† | 4661.4 | 4.97186 | mg/L | 0.075992 | 4.97186 | mg/L | 0.075992 | 1.53% |
| Ba 233.527† | 2344.2 | 0.491699 | mg/L | 0.0039550 | 0.491699 | mg/L | 0.0039550 | 0.80% |
| Ca 315.887† | 256403.2 | 48.6103 | mg/L | 0.04528 | 48.6103 | mg/L | 0.04528 | 0.09% |
| Cu 327.393† | 2528.0 | 0.535944 | mg/L | 0.0130279 | 0.535944 | mg/L | 0.0130279 | 2.43% |
| Fe 273.955† | 5775.3 | 4.90200 | mg/L | 0.049732 | 4.90200 | mg/L | 0.049732 | 1.01% |
| K 766.490† | 90416.9 | 47.1697 | mg/L | 0.06145 | 47.1697 | mg/L | 0.06145 | 0.13% |
| Mg 279.077† | 31979.6 | 48.4477 | mg/L | 0.46820 | 48.4477 | mg/L | 0.46820 | 0.97% |
| Mn 257.610† | 14157.3 | 0.481052 | mg/L | 0.0052419 | 0.481052 | mg/L | 0.0052419 | 1.09% |
| Mo 202.031† | 699.2 | 0.489800 | mg/L | 0.0052255 | 0.489800 | mg/L | 0.0052255 | 1.07% |
| Na 589.592† | 462744.3 | 47.1423 | mg/L | 0.08661 | 47.1423 | mg/L | 0.08661 | 0.18% |
| Ni 231.604† | 950.8 | 0.491110 | mg/L | 0.0009938 | 0.491110 | mg/L | 0.0009938 | 0.20% |
| Se 196.026† | 133.2 | 0.478239 | mg/L | 0.0126190 | 0.478239 | mg/L | 0.0126190 | 2.64% |
| Sn 189.927† | 149.4 | 0.471173 | mg/L | 0.0088726 | 0.471173 | mg/L | 0.0088726 | 1.88% |
| Ti 334.940† | 22211.8 | 0.494891 | mg/L | 0.0058306 | 0.494891 | mg/L | 0.0058306 | 1.18% |
| V 290.880† | 4192.5 | 0.475901 | mg/L | 0.0070364 | 0.475901 | mg/L | 0.0070364 | 1.48% |
| Zn 206.200† | 1833.5 | 0.490476 | mg/L | 0.0040583 | 0.490476 | mg/L | 0.0040583 | 0.83% |
| Si 251.611† | 1438.4 | 0.481949 | mg/L | 0.0091580 | 0.481949 | mg/L | 0.0091580 | 1.90% |
| B 249.772† | 3457.2 | 0.468724 | mg/L | 0.0048418 | 0.468724 | mg/L | 0.0048418 | 1.03% |
| Ce 413.764† | 2253.0 | 0.488481 | mg/L | 0.0056481 | 0.488481 | mg/L | 0.0056481 | 1.16% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 17
Sample ID: AD26083-041
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 86
Date Collected: 9/29/2021 4:08:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90476.5 | 96.7 | % | 0.94 | 96.7 | % | 0.94 | 0.97% |
| Y 371.029 | 35231.6 | 96.4 | % | 0.90 | 96.4 | % | 0.90 | 0.94% |
| Al 308.215† | 24.9 | 0.0559442 | mg/L | 0.00651355 | 0.0559442 | mg/L | 0.00651355 | 11.64% |
| Ba 233.527† | 8359.1 | 1.75803 | mg/L | 0.008123 | 1.75803 | mg/L | 0.008123 | 0.46% |
| Ca 315.887† | 386292.3 | 73.2664 | mg/L | 0.26256 | 73.2664 | mg/L | 0.26256 | 0.36% |
| Cu 327.393† | -102.4 | 0.0059602 | mg/L | 0.00402596 | 0.0059602 | mg/L | 0.00402596 | 67.55% |
| Fe 273.955† | 9932.9 | 8.44010 | mg/L | 0.061015 | 8.44010 | mg/L | 0.061015 | 0.72% |
| K 766.490† | 166058.7 | 86.4162 | mg/L | 0.03321 | 86.4162 | mg/L | 0.03321 | 0.04% |
| Mg 279.077† | 74316.4 | 112.739 | mg/L | 0.3364 | 112.739 | mg/L | 0.3364 | 0.30% |
| Mn 257.610† | 12055.9 | 0.422913 | mg/L | 0.0018138 | 0.422913 | mg/L | 0.0018138 | 0.43% |
| Mo 202.031† | -4.6 | 0.0000911 | mg/L | 0.00310405 | 0.0000911 | mg/L | 0.00310405 | >999.9% |
| Na 589.592† | 9628872.2 | 980.458 | mg/L | 12.4325 | 980.458 | mg/L | 12.4325 | 1.27% |
| Ni 231.604† | 22.1 | 0.0135886 | mg/L | 0.00827429 | 0.0135886 | mg/L | 0.00827429 | 60.89% |
| Se 196.026† | -0.7 | 0.0005019 | mg/L | 0.01217237 | 0.0005019 | mg/L | 0.01217237 | >999.9% |
| Sn 189.927† | -33.8 | -0.0804807 | mg/L | 0.01087115 | -0.0804807 | mg/L | 0.01087115 | 13.51% |
| Ti 334.940† | -468.2 | 0.0012813 | mg/L | 0.00055190 | 0.0012813 | mg/L | 0.00055190 | 43.07% |
| V 290.880† | 1184.7 | 0.0949067 | mg/L | 0.00104604 | 0.0949067 | mg/L | 0.00104604 | 1.10% |
| Zn 206.200† | 15.7 | 0.0035360 | mg/L | 0.00123056 | 0.0035360 | mg/L | 0.00123056 | 34.80% |
| Si 251.611† | 18609.5 | 6.75802 | mg/L | 0.018073 | 6.75802 | mg/L | 0.018073 | 0.27% |
| B 249.772† | 10069.5 | 1.39308 | mg/L | 0.003398 | 1.39308 | mg/L | 0.003398 | 0.24% |
| Ce 413.764† | -54.1 | -0.0161435 | mg/L | 0.00772756 | -0.0161435 | mg/L | 0.00772756 | 47.87% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 18
Sample ID: AD26083-041 MR
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 87
Date Collected: 9/29/2021 4:12:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 MR

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90102.1 | 96.3 | % | 0.76 | 96.3 | % | 0.76 | 0.78% |
| Y 371.029 | 35095.8 | 96.0 | % | 0.94 | 96.0 | % | 0.94 | 0.98% |
| Al 308.215† | 26.7 | 0.0588729 | mg/L | 0.00901641 | 0.0588729 | mg/L | 0.00901641 | 15.32% |
| Ba 233.527† | 8789.2 | 1.84849 | mg/L | 0.004259 | 1.84849 | mg/L | 0.004259 | 0.23% |
| Ca 315.887† | 405078.5 | 76.8325 | mg/L | 0.19403 | 76.8325 | mg/L | 0.19403 | 0.25% |
| Cu 327.393† | -90.3 | 0.0101132 | mg/L | 0.00502082 | 0.0101132 | mg/L | 0.00502082 | 49.65% |
| Fe 273.955† | 10438.8 | 8.87060 | mg/L | 0.024875 | 8.87060 | mg/L | 0.024875 | 0.28% |
| K 766.490† | 175835.8 | 91.4890 | mg/L | 0.20181 | 91.4890 | mg/L | 0.20181 | 0.22% |
| Mg 279.077† | 78202.1 | 118.639 | mg/L | 0.3266 | 118.639 | mg/L | 0.3266 | 0.28% |
| Mn 257.610† | 12646.5 | 0.443760 | mg/L | 0.0008393 | 0.443760 | mg/L | 0.0008393 | 0.19% |
| Mo 202.031† | -5.7 | -0.0006817 | mg/L | 0.00167044 | -0.0006817 | mg/L | 0.00167044 | 245.03% |
| Na 589.592† | 10056972.2 | 1024.05 | mg/L | 8.218 | 1024.05 | mg/L | 8.218 | 0.80% |
| Ni 231.604† | 21.3 | 0.0133682 | mg/L | 0.00066799 | 0.0133682 | mg/L | 0.00066799 | 5.00% |
| Se 196.026† | 0.8 | 0.0062486 | mg/L | 0.01624420 | 0.0062486 | mg/L | 0.01624420 | 259.97% |
| Sn 189.927† | -39.8 | -0.0973719 | mg/L | 0.02657695 | -0.0973719 | mg/L | 0.02657695 | 27.29% |
| Ti 334.940† | -504.7 | 0.0010604 | mg/L | 0.00070689 | 0.0010604 | mg/L | 0.00070689 | 66.66% |
| V 290.880† | 1284.3 | 0.104292 | mg/L | 0.0123294 | 0.104292 | mg/L | 0.0123294 | 11.82% |
| Zn 206.200† | 19.4 | 0.0045138 | mg/L | 0.00043784 | 0.0045138 | mg/L | 0.00043784 | 9.70% |
| Si 251.611† | 19657.0 | 7.14089 | mg/L | 0.025091 | 7.14089 | mg/L | 0.025091 | 0.35% |
| B 249.772† | 10627.8 | 1.47059 | mg/L | 0.000695 | 1.47059 | mg/L | 0.000695 | 0.05% |
| Ce 413.764† | -24.9 | -0.0097501 | mg/L | 0.00480564 | -0.0097501 | mg/L | 0.00480564 | 49.29% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 19
Autosampler Location: 88
Sample ID: AD26083-043 MS 1
Date Collected: 9/29/2021 4:17:50 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-043 MS 1

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90645.8 | 96.9 | % | 0.96 | 96.9 | % | 0.96 | 0.99% |
| Y 371.029 | 35087.4 | 96.0 | % | 0.96 | 96.0 | % | 0.96 | 1.00% |
| Al 308.215† | 4614.2 | 4.93387 | mg/L | 0.049040 | 4.93387 | mg/L | 0.049040 | 0.99% |
| Ba 233.527† | 10562.5 | 2.22004 | mg/L | 0.003084 | 2.22004 | mg/L | 0.003084 | 0.14% |
| Ca 315.887† | 630692.0 | 119.659 | mg/L | 0.1140 | 119.659 | mg/L | 0.1140 | 0.10% |
| Cu 327.393† | 2530.2 | 0.569412 | mg/L | 0.0024898 | 0.569412 | mg/L | 0.0024898 | 0.44% |
| Fe 273.955† | 15431.3 | 13.1192 | mg/L | 0.04014 | 13.1192 | mg/L | 0.04014 | 0.31% |
| K 766.490† | 264556.5 | 137.521 | mg/L | 0.2821 | 137.521 | mg/L | 0.2821 | 0.21% |
| Mg 279.077† | 104919.9 | 159.212 | mg/L | 0.1866 | 159.212 | mg/L | 0.1866 | 0.12% |
| Mn 257.610† | 25766.4 | 0.889902 | mg/L | 0.0016125 | 0.889902 | mg/L | 0.0016125 | 0.18% |
| Mo 202.031† | 695.4 | 0.487206 | mg/L | 0.0086377 | 0.487206 | mg/L | 0.0086377 | 1.77% |
| Na 589.592† | 9906341.4 | 1008.71 | mg/L | 7.758 | 1008.71 | mg/L | 7.758 | 0.77% |
| Ni 231.604† | 962.6 | 0.500291 | mg/L | 0.0053125 | 0.500291 | mg/L | 0.0053125 | 1.06% |
| Se 196.026† | 132.9 | 0.484842 | mg/L | 0.0357928 | 0.484842 | mg/L | 0.0357928 | 7.38% |
| Sn 189.927† | 121.1 | 0.408952 | mg/L | 0.0005318 | 0.408952 | mg/L | 0.0005318 | 0.13% |
| Ti 334.940† | 22158.6 | 0.505272 | mg/L | 0.0016447 | 0.505272 | mg/L | 0.0016447 | 0.33% |
| V 290.880† | 5277.1 | 0.559360 | mg/L | 0.0038576 | 0.559360 | mg/L | 0.0038576 | 0.69% |
| Zn 206.200† | 1865.5 | 0.499048 | mg/L | 0.0048483 | 0.499048 | mg/L | 0.0048483 | 0.97% |
| Si 251.611† | 20203.1 | 7.34046 | mg/L | 0.010672 | 7.34046 | mg/L | 0.010672 | 0.15% |
| B 249.772† | 13447.3 | 1.85366 | mg/L | 0.001526 | 1.85366 | mg/L | 0.001526 | 0.08% |
| Ce 413.764† | 2186.6 | 0.473955 | mg/L | 0.0054853 | 0.473955 | mg/L | 0.0054853 | 1.16% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 20
Autosampler Location: 89
Sample ID: AD26083-045 MS 2
Date Collected: 9/29/2021 4:23:16 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-045 MS 2

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90810.5 | 97.1 | % | 0.32 | 97.1 | % | 0.32 | 0.33% |
| Y 371.029 | 35110.2 | 96.1 | % | 0.58 | 96.1 | % | 0.58 | 0.61% |
| Al 308.215† | 4644.4 | 4.96591 | mg/L | 0.016801 | 4.96591 | mg/L | 0.016801 | 0.34% |
| Ba 233.527† | 10638.0 | 2.23591 | mg/L | 0.007412 | 2.23591 | mg/L | 0.007412 | 0.33% |
| Ca 315.887† | 634478.8 | 120.378 | mg/L | 0.1954 | 120.378 | mg/L | 0.1954 | 0.16% |
| Cu 327.393† | 2550.0 | 0.573825 | mg/L | 0.0060180 | 0.573825 | mg/L | 0.0060180 | 1.05% |
| Fe 273.955† | 15537.0 | 13.2091 | mg/L | 0.02256 | 13.2091 | mg/L | 0.02256 | 0.17% |
| K 766.490† | 266849.8 | 138.711 | mg/L | 0.1018 | 138.711 | mg/L | 0.1018 | 0.07% |
| Mg 279.077† | 105566.2 | 160.193 | mg/L | 0.2438 | 160.193 | mg/L | 0.2438 | 0.15% |
| Mn 257.610† | 25949.6 | 0.896207 | mg/L | 0.0016829 | 0.896207 | mg/L | 0.0016829 | 0.19% |
| Mo 202.031† | 703.8 | 0.493054 | mg/L | 0.0039571 | 0.493054 | mg/L | 0.0039571 | 0.80% |
| Na 589.592† | 10070381.3 | 1025.41 | mg/L | 3.233 | 1025.41 | mg/L | 3.233 | 0.32% |
| Ni 231.604† | 981.2 | 0.509904 | mg/L | 0.0043096 | 0.509904 | mg/L | 0.0043096 | 0.85% |
| Se 196.026† | 131.0 | 0.478033 | mg/L | 0.0160409 | 0.478033 | mg/L | 0.0160409 | 3.36% |
| Sn 189.927† | 123.4 | 0.416191 | mg/L | 0.0086281 | 0.416191 | mg/L | 0.0086281 | 2.07% |
| Ti 334.940† | 22163.2 | 0.505490 | mg/L | 0.0012199 | 0.505490 | mg/L | 0.0012199 | 0.24% |
| V 290.880† | 5298.7 | 0.561515 | mg/L | 0.0055035 | 0.561515 | mg/L | 0.0055035 | 0.98% |
| Zn 206.200† | 1854.2 | 0.496023 | mg/L | 0.0049578 | 0.496023 | mg/L | 0.0049578 | 1.00% |
| Si 251.611† | 20330.1 | 7.38689 | mg/L | 0.014401 | 7.38689 | mg/L | 0.014401 | 0.19% |
| B 249.772† | 13506.8 | 1.86174 | mg/L | 0.000687 | 1.86174 | mg/L | 0.000687 | 0.04% |
| Ce 413.764† | 2180.5 | 0.472637 | mg/L | 0.0070249 | 0.472637 | mg/L | 0.0070249 | 1.49% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)

Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 21
Sample ID: AD26083-041 PS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 150

Autosampler Location: 90
Date Collected: 9/29/2021 4:28:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 PS

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90980.9 | 97.2 | % | 0.85 | 97.2 | % | 0.85 | 0.87% |
| Y 371.029 | 35111.0 | 96.1 | % | 0.81 | 96.1 | % | 0.81 | 0.85% |
| Al 308.215† | 5001.0 | 5.34598 | mg/L | 0.055862 | 5.34598 | mg/L | 0.055862 | 1.04% |
| Ba 233.527† | 10765.6 | 2.26263 | mg/L | 0.003949 | 2.26263 | mg/L | 0.003949 | 0.17% |
| Ca 315.887† | 650334.5 | 123.388 | mg/L | 0.3363 | 123.388 | mg/L | 0.3363 | 0.27% |
| Cu 327.393† | 2753.6 | 0.617133 | mg/L | 0.0039331 | 0.617133 | mg/L | 0.0039331 | 0.64% |
| Fe 273.955† | 15929.0 | 13.5427 | mg/L | 0.01625 | 13.5427 | mg/L | 0.01625 | 0.12% |
| K 766.490† | 274117.0 | 142.482 | mg/L | 0.5158 | 142.482 | mg/L | 0.5158 | 0.36% |
| Mg 279.077† | 107326.0 | 162.866 | mg/L | 0.2922 | 162.866 | mg/L | 0.2922 | 0.18% |
| Mn 257.610† | 27155.1 | 0.937002 | mg/L | 0.0034230 | 0.937002 | mg/L | 0.0034230 | 0.37% |
| Mo 202.031† | 753.6 | 0.527719 | mg/L | 0.0093297 | 0.527719 | mg/L | 0.0093297 | 1.77% |
| Na 589.592† | 9971950.7 | 1015.39 | mg/L | 14.289 | 1015.39 | mg/L | 14.289 | 1.41% |
| Ni 231.604† | 1056.1 | 0.548687 | mg/L | 0.0065638 | 0.548687 | mg/L | 0.0065638 | 1.20% |
| Se 196.026† | 144.6 | 0.527239 | mg/L | 0.0324111 | 0.527239 | mg/L | 0.0324111 | 6.15% |
| Sn 189.927† | 135.6 | 0.454335 | mg/L | 0.0085049 | 0.454335 | mg/L | 0.0085049 | 1.87% |
| Ti 334.940† | 24098.3 | 0.548436 | mg/L | 0.0018851 | 0.548436 | mg/L | 0.0018851 | 0.34% |
| V 290.880† | 5686.7 | 0.606243 | mg/L | 0.0013958 | 0.606243 | mg/L | 0.0013958 | 0.23% |
| Zn 206.200† | 1993.7 | 0.533414 | mg/L | 0.0067845 | 0.533414 | mg/L | 0.0067845 | 1.27% |
| Si 251.611† | 21381.6 | 7.77122 | mg/L | 0.051556 | 7.77122 | mg/L | 0.051556 | 0.66% |
| B 249.772† | 13416.9 | 1.84763 | mg/L | 0.007138 | 1.84763 | mg/L | 0.007138 | 0.39% |
| Ce 413.764† | 2224.6 | 0.482280 | mg/L | 0.0064342 | 0.482280 | mg/L | 0.0064342 | 1.33% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 22
Autosampler Location: 91
Sample ID: AD26083-041 SD
Date Collected: 9/29/2021 4:34:08 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 150

Mean Data: AD26083-041 SD

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92841.6 | 99.2 | % | 0.33 | 99.2 | % | 0.33 | 0.33% |
| Y 371.029 | 36752.3 | 101 | % | 0.23 | 101 | % | 0.23 | 0.23% |
| Al 308.215† | -9.3 | 0.0100655 | mg/L | 0.00742903 | 0.0100655 | mg/L | 0.00742903 | 73.81% |
| Ba 233.527† | 1741.8 | 0.366457 | mg/L | 0.0040990 | 0.366457 | mg/L | 0.0040990 | 1.12% |
| Ca 315.887† | 81441.2 | 15.3983 | mg/L | 0.05506 | 15.3983 | mg/L | 0.05506 | 0.36% |
| Cu 327.393† | -16.6 | -0.0032679 | mg/L | 0.00253062 | -0.0032679 | mg/L | 0.00253062 | 77.44% |
| Fe 273.955† | 1990.4 | 1.68114 | mg/L | 0.015468 | 1.68114 | mg/L | 0.015468 | 0.92% |
| K 766.490† | 32536.3 | 17.1385 | mg/L | 0.03292 | 17.1385 | mg/L | 0.03292 | 0.19% |
| Mg 279.077† | 15489.5 | 23.4066 | mg/L | 0.03701 | 23.4066 | mg/L | 0.03701 | 0.16% |
| Mn 257.610† | 2503.7 | 0.0868418 | mg/L | 0.00068133 | 0.0868418 | mg/L | 0.00068133 | 0.78% |
| Mo 202.031† | -7.0 | -0.0015374 | mg/L | 0.00416284 | -0.0015374 | mg/L | 0.00416284 | 270.76% |
| Na 589.592† | 1991987.9 | 202.853 | mg/L | 0.8976 | 202.853 | mg/L | 0.8976 | 0.44% |
| Ni 231.604† | -0.1 | -0.0004163 | mg/L | 0.00126562 | -0.0004163 | mg/L | 0.00126562 | 304.04% |
| Se 196.026† | -2.7 | -0.0131817 | mg/L | 0.01679118 | -0.0131817 | mg/L | 0.01679118 | 127.38% |
| Sn 189.927† | -5.5 | -0.0133432 | mg/L | 0.00456176 | -0.0133432 | mg/L | 0.00456176 | 34.19% |
| Ti 334.940† | -119.5 | -0.0004718 | mg/L | 0.00007882 | -0.0004718 | mg/L | 0.00007882 | 16.71% |
| V 290.880† | 279.9 | 0.0240458 | mg/L | 0.00342062 | 0.0240458 | mg/L | 0.00342062 | 14.23% |
| Zn 206.200† | -2.3 | -0.0012894 | mg/L | 0.00102627 | -0.0012894 | mg/L | 0.00102627 | 79.59% |
| Si 251.611† | 3816.4 | 1.35112 | mg/L | 0.008369 | 1.35112 | mg/L | 0.008369 | 0.62% |
| B 249.772† | 2081.5 | 0.286455 | mg/L | 0.0015733 | 0.286455 | mg/L | 0.0015733 | 0.55% |
| Ce 413.764† | -47.2 | -0.0146273 | mg/L | 0.01128808 | -0.0146273 | mg/L | 0.01128808 | 77.17% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 23 Autosampler Location: 92
Sample ID: AD26083-004 Date Collected: 9/29/2021 4:38:12 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-004

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94254.7 | 101 | % | 0.35 | 101 | % | 0.35 | 0.35% |
| Y 371.029 | 36679.2 | 100 | % | 0.20 | 100 | % | 0.20 | 0.20% |
| Al 308.215† | 11.3 | 0.0313529 | mg/L | 0.00368681 | 0.0313529 | mg/L | 0.00368681 | 11.76% |
| Ba 233.527† | 1066.8 | 0.225053 | mg/L | 0.0025865 | 0.225053 | mg/L | 0.0025865 | 1.15% |
| Ca 315.887† | 265032.3 | 50.2483 | mg/L | 0.05148 | 50.2483 | mg/L | 0.05148 | 0.10% |
| Cu 327.393† | -40.9 | 0.0079299 | mg/L | 0.00258211 | 0.0079299 | mg/L | 0.00258211 | 32.56% |
| Fe 273.955† | 34.1 | 0.0162969 | mg/L | 0.00603089 | 0.0162969 | mg/L | 0.00603089 | 37.01% |
| K 766.490† | 2215.7 | 1.40675 | mg/L | 0.014084 | 1.40675 | mg/L | 0.014084 | 1.00% |
| Mg 279.077† | 13659.4 | 20.6276 | mg/L | 0.03924 | 20.6276 | mg/L | 0.03924 | 0.19% |
| Mn 257.610† | 2446.7 | 0.0844142 | mg/L | 0.00080924 | 0.0844142 | mg/L | 0.00080924 | 0.96% |
| Mo 202.031† | -5.6 | -0.0005875 | mg/L | 0.00158710 | -0.0005875 | mg/L | 0.00158710 | 270.15% |
| Na 589.592† | 122399.8 | 12.4876 | mg/L | 0.05453 | 12.4876 | mg/L | 0.05453 | 0.44% |
| Ni 231.604† | -0.1 | -0.0010263 | mg/L | 0.00459879 | -0.0010263 | mg/L | 0.00459879 | 448.10% |
| Se 196.026† | -0.3 | -0.0058946 | mg/L | 0.01081864 | -0.0058946 | mg/L | 0.01081864 | 183.53% |
| Sn 189.927† | -8.9 | -0.0202859 | mg/L | 0.01263734 | -0.0202859 | mg/L | 0.01263734 | 62.30% |
| Ti 334.940† | -360.8 | -0.0001032 | mg/L | 0.00009696 | -0.0001032 | mg/L | 0.00009696 | 94.00% |
| V 290.880† | 246.2 | 0.0211878 | mg/L | 0.00312630 | 0.0211878 | mg/L | 0.00312630 | 14.76% |
| Zn 206.200† | 65.4 | 0.0168454 | mg/L | 0.00163196 | 0.0168454 | mg/L | 0.00163196 | 9.69% |
| Si 251.611† | 24999.8 | 9.09367 | mg/L | 0.029133 | 9.09367 | mg/L | 0.029133 | 0.32% |
| B 249.772† | 112.5 | 0.0136877 | mg/L | 0.00052740 | 0.0136877 | mg/L | 0.00052740 | 3.85% |
| Ce 413.764† | -49.1 | -0.0150468 | mg/L | 0.01316940 | -0.0150468 | mg/L | 0.01316940 | 87.52% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 24 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/29/2021 4:42:14 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94026.0 | 100 | % | 0.64 | 100 | % | 0.64 | 0.64% |
| Y 371.029 | 36062.3 | 98.7 | % | 0.98 | 98.7 | % | 0.98 | 0.99% |
| Al 308.215† | 4635.2 | 4.94393 | mg/L | 0.016026 | 4.94393 | mg/L | 0.016026 | 0.32% |
| QC value within limits for Al 308.215 Recovery = 98.88% | | | | | | | | |
| Ba 233.527† | 2358.0 | 0.494618 | mg/L | 0.0022729 | 0.494618 | mg/L | 0.0022729 | 0.46% |
| QC value within limits for Ba 233.527 Recovery = 98.92% | | | | | | | | |
| Ca 315.887† | 255791.3 | 48.4942 | mg/L | 0.08224 | 48.4942 | mg/L | 0.08224 | 0.17% |
| QC value within limits for Ca 315.887 Recovery = 96.99% | | | | | | | | |
| Cu 327.393† | 2470.1 | 0.523976 | mg/L | 0.0053003 | 0.523976 | mg/L | 0.0053003 | 1.01% |
| QC value within limits for Cu 327.393 Recovery = 104.80% | | | | | | | | |
| Fe 273.955† | 5761.4 | 4.89018 | mg/L | 0.040576 | 4.89018 | mg/L | 0.040576 | 0.83% |
| QC value within limits for Fe 273.955 Recovery = 97.80% | | | | | | | | |
| K 766.490† | 92184.5 | 48.0868 | mg/L | 0.02837 | 48.0868 | mg/L | 0.02837 | 0.06% |
| QC value within limits for K 766.490 Recovery = 96.17% | | | | | | | | |
| Mg 279.077† | 32244.6 | 48.8502 | mg/L | 0.46916 | 48.8502 | mg/L | 0.46916 | 0.96% |
| QC value within limits for Mg 279.077 Recovery = 97.70% | | | | | | | | |
| Mn 257.610† | 14366.0 | 0.488103 | mg/L | 0.0036228 | 0.488103 | mg/L | 0.0036228 | 0.74% |
| QC value within limits for Mn 257.610 Recovery = 97.62% | | | | | | | | |
| Mo 202.031† | 693.9 | 0.486167 | mg/L | 0.0081574 | 0.486167 | mg/L | 0.0081574 | 1.68% |
| QC value within limits for Mo 202.031 Recovery = 97.23% | | | | | | | | |
| Na 589.592† | 475568.6 | 48.4481 | mg/L | 0.06045 | 48.4481 | mg/L | 0.06045 | 0.12% |
| QC value within limits for Na 589.592 Recovery = 96.90% | | | | | | | | |
| Ni 231.604† | 948.8 | 0.490062 | mg/L | 0.0018111 | 0.490062 | mg/L | 0.0018111 | 0.37% |
| QC value within limits for Ni 231.604 Recovery = 98.01% | | | | | | | | |
| Se 196.026† | 130.7 | 0.469155 | mg/L | 0.0050281 | 0.469155 | mg/L | 0.0050281 | 1.07% |
| QC value within limits for Se 196.026 Recovery = 93.83% | | | | | | | | |
| Sn 189.927† | 152.6 | 0.481110 | mg/L | 0.0176719 | 0.481110 | mg/L | 0.0176719 | 3.67% |
| QC value within limits for Sn 189.927 Recovery = 96.22% | | | | | | | | |
| Ti 334.940† | 22223.5 | 0.495128 | mg/L | 0.0038535 | 0.495128 | mg/L | 0.0038535 | 0.78% |
| QC value within limits for Ti 334.940 Recovery = 99.03% | | | | | | | | |
| V 290.880† | 4153.0 | 0.471081 | mg/L | 0.0058779 | 0.471081 | mg/L | 0.0058779 | 1.25% |
| QC value within limits for V 290.880 Recovery = 94.22% | | | | | | | | |
| Zn 206.200† | 1822.5 | 0.487531 | mg/L | 0.0035782 | 0.487531 | mg/L | 0.0035782 | 0.73% |
| QC value within limits for Zn 206.200 Recovery = 97.51% | | | | | | | | |
| Si 251.611† | 13448.0 | 4.87148 | mg/L | 0.036985 | 4.87148 | mg/L | 0.036985 | 0.76% |
| QC value within limits for Si 251.611 Recovery = 97.43% | | | | | | | | |
| B 249.772† | 3436.6 | 0.465853 | mg/L | 0.0053040 | 0.465853 | mg/L | 0.0053040 | 1.14% |
| QC value within limits for B 249.772 Recovery = 93.17% | | | | | | | | |
| Ce 413.764† | 2205.9 | 0.478175 | mg/L | 0.0103329 | 0.478175 | mg/L | 0.0103329 | 2.16% |
| QC value within limits for Ce 413.764 Recovery = 95.64% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 25
Autosampler Location: 2
Sample ID: CCB V-352951
Date Collected: 9/29/2021 4:46:16 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94907.5 | 101 | % | 0.09 | 101 | % | 0.09 | 0.08% |
| Y 371.029 | 37819.3 | 103 | % | 0.08 | 103 | % | 0.08 | 0.08% |
| Al 308.215† | -3.2 | 0.0133547 | mg/L | 0.01272325 | 0.0133547 | mg/L | 0.01272325 | 95.27% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 4.1 | 0.0009976 | mg/L | 0.00070428 | 0.0009976 | mg/L | 0.00070428 | 70.60% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -40.6 | -0.0689522 | mg/L | 0.00345168 | -0.0689522 | mg/L | 0.00345168 | 5.01% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 19.8 | -0.0029445 | mg/L | 0.00278955 | -0.0029445 | mg/L | 0.00278955 | 94.74% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -3.1 | -0.0153062 | mg/L | 0.00295038 | -0.0153062 | mg/L | 0.00295038 | 19.28% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | 20.6 | 0.267834 | mg/L | 0.0094621 | 0.267834 | mg/L | 0.0094621 | 3.53% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 0.0 | -0.114979 | mg/L | 0.0140568 | -0.114979 | mg/L | 0.0140568 | 12.23% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -6.1 | -0.0014673 | mg/L | 0.00033854 | -0.0014673 | mg/L | 0.00033854 | 23.07% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 0.2 | 0.0034132 | mg/L | 0.00472604 | 0.0034132 | mg/L | 0.00472604 | 138.47% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 1196.4 | 0.146393 | mg/L | 0.0078953 | 0.146393 | mg/L | 0.0078953 | 5.39% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -2.9 | -0.0024788 | mg/L | 0.00145797 | -0.0024788 | mg/L | 0.00145797 | 58.82% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 2.1 | 0.0027238 | mg/L | 0.01292172 | 0.0027238 | mg/L | 0.01292172 | 474.41% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -0.7 | -0.0036335 | mg/L | 0.00546262 | -0.0036335 | mg/L | 0.00546262 | 150.34% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 47.5 | 0.0006772 | mg/L | 0.00060547 | 0.0006772 | mg/L | 0.00060547 | 89.40% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -2.6 | 0.0001675 | mg/L | 0.00129982 | 0.0001675 | mg/L | 0.00129982 | 776.18% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -6.7 | -0.0024774 | mg/L | 0.00100024 | -0.0024774 | mg/L | 0.00100024 | 40.37% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 11.3 | -0.0396525 | mg/L | 0.00049054 | -0.0396525 | mg/L | 0.00049054 | 1.24% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 16.3 | 0.0001493 | mg/L | 0.00044141 | 0.0001493 | mg/L | 0.00044141 | 295.58% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -55.8 | -0.0164986 | mg/L | 0.00428594 | -0.0164986 | mg/L | 0.00428594 | 25.98% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 26
Autosampler Location: 93
Sample ID: AD26083-007
Date Collected: 9/29/2021 4:50:07 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-007

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 94150.9 | 101 | % | 0.47 | 101 | % | 0.47 | 0.47% |
| Y 371.029 | 36633.1 | 100 | % | 0.69 | 100 | % | 0.69 | 0.69% |
| Al 308.215† | 2.7 | 0.0217968 | mg/L | 0.00322425 | 0.0217968 | mg/L | 0.00322425 | 14.79% |
| Ba 233.527† | 1173.0 | 0.247434 | mg/L | 0.0010261 | 0.247434 | mg/L | 0.0010261 | 0.41% |
| Ca 315.887† | 229449.3 | 43.4938 | mg/L | 0.06039 | 43.4938 | mg/L | 0.06039 | 0.14% |
| Cu 327.393† | -25.3 | 0.0080014 | mg/L | 0.00067380 | 0.0080014 | mg/L | 0.00067380 | 8.42% |
| Fe 273.955† | 79.3 | 0.0547712 | mg/L | 0.00163585 | 0.0547712 | mg/L | 0.00163585 | 2.99% |
| K 766.490† | 1952.7 | 1.27032 | mg/L | 0.026927 | 1.27032 | mg/L | 0.026927 | 2.12% |
| Mg 279.077† | 11039.2 | 16.6486 | mg/L | 0.08250 | 16.6486 | mg/L | 0.08250 | 0.50% |
| Mn 257.610† | 9985.1 | 0.335621 | mg/L | 0.0009452 | 0.335621 | mg/L | 0.0009452 | 0.28% |
| Mo 202.031† | -0.7 | 0.0028102 | mg/L | 0.00427294 | 0.0028102 | mg/L | 0.00427294 | 152.05% |
| Na 589.592† | 87176.1 | 8.90105 | mg/L | 0.002409 | 8.90105 | mg/L | 0.002409 | 0.03% |
| Ni 231.604† | -4.1 | -0.0030814 | mg/L | 0.00443963 | -0.0030814 | mg/L | 0.00443963 | 144.08% |
| Se 196.026† | 1.9 | 0.0019982 | mg/L | 0.03496742 | 0.0019982 | mg/L | 0.03496742 | >999.9% |
| Sn 189.927† | -8.7 | -0.0210049 | mg/L | 0.00399205 | -0.0210049 | mg/L | 0.00399205 | 19.01% |
| Ti 334.940† | -332.7 | -0.0005844 | mg/L | 0.00069015 | -0.0005844 | mg/L | 0.00069015 | 118.10% |
| V 290.880† | 212.1 | 0.0187700 | mg/L | 0.00388634 | 0.0187700 | mg/L | 0.00388634 | 20.71% |
| Zn 206.200† | 49.0 | 0.0124583 | mg/L | 0.00017250 | 0.0124583 | mg/L | 0.00017250 | 1.38% |
| Si 251.611† | 20188.8 | 7.33523 | mg/L | 0.015485 | 7.33523 | mg/L | 0.015485 | 0.21% |
| B 249.772† | 88.2 | 0.0100795 | mg/L | 0.00053389 | 0.0100795 | mg/L | 0.00053389 | 5.30% |
| Ce 413.764† | 8.7 | -0.0023995 | mg/L | 0.00250141 | -0.0023995 | mg/L | 0.00250141 | 104.25% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 27
Autosampler Location: 94
Sample ID: AD26083-013
Date Collected: 9/29/2021 4:54:00 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-013

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 95532.6 | 102 | % | 0.94 | 102 | % | 0.94 | 0.92% |
| Y 371.029 | 37390.4 | 102 | % | 0.99 | 102 | % | 0.99 | 0.97% |
| Al 308.215† | 17.9 | 0.0361163 | mg/L | 0.01396752 | 0.0361163 | mg/L | 0.01396752 | 38.67% |
| Ba 233.527† | 490.6 | 0.0956356 | mg/L | 0.00021527 | 0.0956356 | mg/L | 0.00021527 | 0.23% |
| Ca 315.887† | 35245.1 | 6.62912 | mg/L | 0.022313 | 6.62912 | mg/L | 0.022313 | 0.34% |
| Cu 327.393† | 23.4 | 0.0008931 | mg/L | 0.00632845 | 0.0008931 | mg/L | 0.00632845 | 708.59% |
| Fe 273.955† | 16812.9 | 14.2949 | mg/L | 0.03125 | 14.2949 | mg/L | 0.03125 | 0.22% |
| K 766.490† | 4858.7 | 2.77811 | mg/L | 0.017103 | 2.77811 | mg/L | 0.017103 | 0.62% |
| Mg 279.077† | 2895.3 | 4.28160 | mg/L | 0.025927 | 4.28160 | mg/L | 0.025927 | 0.61% |
| Mn 257.610† | 16426.2 | 0.548576 | mg/L | 0.0008751 | 0.548576 | mg/L | 0.0008751 | 0.16% |
| Mo 202.031† | -4.6 | 0.0001293 | mg/L | 0.00460137 | 0.0001293 | mg/L | 0.00460137 | >999.9% |
| Na 589.592† | 64336.6 | 6.57547 | mg/L | 0.013373 | 6.57547 | mg/L | 0.013373 | 0.20% |
| Ni 231.604† | -6.4 | 0.0010853 | mg/L | 0.00301377 | 0.0010853 | mg/L | 0.00301377 | 277.68% |
| Se 196.026† | 2.2 | 0.0166264 | mg/L | 0.00496857 | 0.0166264 | mg/L | 0.00496857 | 29.88% |
| Sn 189.927† | -4.7 | -0.0145449 | mg/L | 0.00523630 | -0.0145449 | mg/L | 0.00523630 | 36.00% |
| Ti 334.940† | 1.5 | 0.0007568 | mg/L | 0.00045792 | 0.0007568 | mg/L | 0.00045792 | 60.51% |
| V 290.880† | 42.1 | 0.0036724 | mg/L | 0.00170504 | 0.0036724 | mg/L | 0.00170504 | 46.43% |
| Zn 206.200† | 65.8 | 0.0169569 | mg/L | 0.00158037 | 0.0169569 | mg/L | 0.00158037 | 9.32% |
| Si 251.611† | 10203.2 | 3.68548 | mg/L | 0.004237 | 3.68548 | mg/L | 0.004237 | 0.11% |
| B 249.772† | 397.6 | -0.0035671 | mg/L | 0.00204634 | -0.0035671 | mg/L | 0.00204634 | 57.37% |
| Ce 413.764† | -52.4 | -0.0157720 | mg/L | 0.00630262 | -0.0157720 | mg/L | 0.00630262 | 39.96% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 28
Autosampler Location: 95
Sample ID: AD26083-015
Date Collected: 9/29/2021 4:57:53 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-015

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92775.9 | 99.2 | % | 0.47 | 99.2 | % | 0.47 | 0.47% |
| Y 371.029 | 36628.7 | 100 | % | 0.43 | 100 | % | 0.43 | 0.43% |
| Al 308.215† | 13.0 | 0.0312375 | mg/L | 0.00958592 | 0.0312375 | mg/L | 0.00958592 | 30.69% |
| Ba 233.527† | 472.0 | 0.0995709 | mg/L | 0.00167971 | 0.0995709 | mg/L | 0.00167971 | 1.69% |
| Ca 315.887† | 85166.7 | 16.1055 | mg/L | 0.01057 | 16.1055 | mg/L | 0.01057 | 0.07% |
| Cu 327.393† | 35.7 | 0.0078424 | mg/L | 0.00752573 | 0.0078424 | mg/L | 0.00752573 | 95.96% |
| Fe 273.955† | 207.5 | 0.163931 | mg/L | 0.0049478 | 0.163931 | mg/L | 0.0049478 | 3.02% |
| K 766.490† | 1983.4 | 1.28626 | mg/L | 0.005817 | 1.28626 | mg/L | 0.005817 | 0.45% |
| Mg 279.077† | 5354.2 | 8.01567 | mg/L | 0.026746 | 8.01567 | mg/L | 0.026746 | 0.33% |
| Mn 257.610† | 2282.1 | 0.0765410 | mg/L | 0.00118202 | 0.0765410 | mg/L | 0.00118202 | 1.54% |
| Mo 202.031† | -3.1 | 0.0011567 | mg/L | 0.00207373 | 0.0011567 | mg/L | 0.00207373 | 179.29% |
| Na 589.592† | 859796.4 | 87.5710 | mg/L | 0.67703 | 87.5710 | mg/L | 0.67703 | 0.77% |
| Ni 231.604† | -4.2 | -0.0030597 | mg/L | 0.00365134 | -0.0030597 | mg/L | 0.00365134 | 119.34% |
| Se 196.026† | 5.0 | 0.0131800 | mg/L | 0.01477243 | 0.0131800 | mg/L | 0.01477243 | 112.08% |
| Sn 189.927† | -4.8 | -0.0133620 | mg/L | 0.00764713 | -0.0133620 | mg/L | 0.00764713 | 57.23% |
| Ti 334.940† | -76.4 | 0.0005870 | mg/L | 0.00083864 | 0.0005870 | mg/L | 0.00083864 | 142.86% |
| V 290.880† | 80.6 | 0.0067185 | mg/L | 0.00084758 | 0.0067185 | mg/L | 0.00084758 | 12.62% |
| Zn 206.200† | 68.1 | 0.0175795 | mg/L | 0.00137202 | 0.0175795 | mg/L | 0.00137202 | 7.80% |
| Si 251.611† | 18086.6 | 6.56690 | mg/L | 0.011995 | 6.56690 | mg/L | 0.011995 | 0.18% |
| B 249.772† | 253.4 | 0.0330879 | mg/L | 0.00053787 | 0.0330879 | mg/L | 0.00053787 | 1.63% |
| Ce 413.764† | -9.1 | -0.0062924 | mg/L | 0.00488690 | -0.0062924 | mg/L | 0.00488690 | 77.66% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 29
Sample ID: AD26083-017
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 96
Date Collected: 9/29/2021 5:01:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-017

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93674.9 | 100 | % | 0.36 | 100 | % | 0.36 | 0.36% |
| Y 371.029 | 36502.2 | 99.9 | % | 0.60 | 99.9 | % | 0.60 | 0.60% |
| Al 308.215† | 5.3 | 0.0232699 | mg/L | 0.00959187 | 0.0232699 | mg/L | 0.00959187 | 41.22% |
| Ba 233.527† | 694.5 | 0.146526 | mg/L | 0.0012364 | 0.146526 | mg/L | 0.0012364 | 0.84% |
| Ca 315.887† | 165705.1 | 31.3936 | mg/L | 0.03261 | 31.3936 | mg/L | 0.03261 | 0.10% |
| Cu 327.393† | -0.4 | 0.0074974 | mg/L | 0.00275247 | 0.0074974 | mg/L | 0.00275247 | 36.71% |
| Fe 273.955† | 90.5 | 0.0643547 | mg/L | 0.00371568 | 0.0643547 | mg/L | 0.00371568 | 5.77% |
| K 766.490† | 3251.9 | 1.94442 | mg/L | 0.007567 | 1.94442 | mg/L | 0.007567 | 0.39% |
| Mg 279.077† | 5463.0 | 8.18082 | mg/L | 0.029170 | 8.18082 | mg/L | 0.029170 | 0.36% |
| Mn 257.610† | 4211.9 | 0.141072 | mg/L | 0.0001879 | 0.141072 | mg/L | 0.0001879 | 0.13% |
| Mo 202.031† | -1.9 | 0.0019853 | mg/L | 0.00171409 | 0.0019853 | mg/L | 0.00171409 | 86.34% |
| Na 589.592† | 106147.9 | 10.8328 | mg/L | 0.01529 | 10.8328 | mg/L | 0.01529 | 0.14% |
| Ni 231.604† | -5.4 | -0.0037241 | mg/L | 0.00810008 | -0.0037241 | mg/L | 0.00810008 | 217.50% |
| Se 196.026† | 2.1 | 0.0025483 | mg/L | 0.00680954 | 0.0025483 | mg/L | 0.00680954 | 267.22% |
| Sn 189.927† | -3.7 | -0.0084800 | mg/L | 0.01207951 | -0.0084800 | mg/L | 0.01207951 | 142.45% |
| Ti 334.940† | -190.1 | 0.0005776 | mg/L | 0.00082597 | 0.0005776 | mg/L | 0.00082597 | 143.00% |
| V 290.880† | 85.5 | 0.0072248 | mg/L | 0.00033431 | 0.0072248 | mg/L | 0.00033431 | 4.63% |
| Zn 206.200† | 57.1 | 0.0146310 | mg/L | 0.00090242 | 0.0146310 | mg/L | 0.00090242 | 6.17% |
| Si 251.611† | 16155.8 | 5.86119 | mg/L | 0.017082 | 5.86119 | mg/L | 0.017082 | 0.29% |
| B 249.772† | 187.2 | 0.0240897 | mg/L | 0.00138746 | 0.0240897 | mg/L | 0.00138746 | 5.76% |
| Ce 413.764† | -34.1 | -0.0117541 | mg/L | 0.00545492 | -0.0117541 | mg/L | 0.00545492 | 46.41% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 30
Sample ID: AD26083-020
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 97
Date Collected: 9/29/2021 5:05:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-020

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89051.1 | 95.2 | % | 0.79 | 95.2 | % | 0.79 | 0.83% |
| Y 371.029 | 34970.0 | 95.7 | % | 1.00 | 95.7 | % | 1.00 | 1.05% |
| Al 308.215† | 4.2 | 0.0252299 | mg/L | 0.01276418 | 0.0252299 | mg/L | 0.01276418 | 50.59% |
| Ba 233.527† | 302.2 | 0.0635395 | mg/L | 0.00100504 | 0.0635395 | mg/L | 0.00100504 | 1.58% |
| Ca 315.887† | 132072.1 | 25.0093 | mg/L | 0.06354 | 25.0093 | mg/L | 0.06354 | 0.25% |
| Cu 327.393† | -24.5 | -0.0004242 | mg/L | 0.00239723 | -0.0004242 | mg/L | 0.00239723 | 565.10% |
| Fe 273.955† | 658.9 | 0.548002 | mg/L | 0.0068393 | 0.548002 | mg/L | 0.0068393 | 1.25% |
| K 766.490† | 47614.9 | 24.9620 | mg/L | 0.05291 | 24.9620 | mg/L | 0.05291 | 0.21% |
| Mg 279.077† | 22552.6 | 34.1324 | mg/L | 0.09193 | 34.1324 | mg/L | 0.09193 | 0.27% |
| Mn 257.610† | 2555.7 | 0.0905967 | mg/L | 0.00054909 | 0.0905967 | mg/L | 0.00054909 | 0.61% |
| Mo 202.031† | 2.1 | 0.0047832 | mg/L | 0.00195200 | 0.0047832 | mg/L | 0.00195200 | 40.81% |
| Na 589.592† | 4334078.5 | 441.330 | mg/L | 4.4553 | 441.330 | mg/L | 4.4553 | 1.01% |
| Ni 231.604† | 0.0 | -0.0007461 | mg/L | 0.00456489 | -0.0007461 | mg/L | 0.00456489 | 611.82% |
| Se 196.026† | -0.5 | -0.0062912 | mg/L | 0.01714868 | -0.0062912 | mg/L | 0.01714868 | 272.58% |
| Sn 189.927† | -11.5 | -0.0289945 | mg/L | 0.00307965 | -0.0289945 | mg/L | 0.00307965 | 10.62% |
| Ti 334.940† | -199.1 | -0.0006583 | mg/L | 0.00022583 | -0.0006583 | mg/L | 0.00022583 | 34.30% |
| V 290.880† | 383.4 | 0.0319501 | mg/L | 0.00403469 | 0.0319501 | mg/L | 0.00403469 | 12.63% |
| Zn 206.200† | 2.8 | 0.0000775 | mg/L | 0.00086747 | 0.0000775 | mg/L | 0.00086747 | >999.9% |
| Si 251.611† | 22864.2 | 8.31312 | mg/L | 0.020446 | 8.31312 | mg/L | 0.020446 | 0.25% |
| B 249.772† | 2366.4 | 0.331483 | mg/L | 0.0045793 | 0.331483 | mg/L | 0.0045793 | 1.38% |
| Ce 413.764† | -22.0 | -0.0091077 | mg/L | 0.00069470 | -0.0091077 | mg/L | 0.00069470 | 7.63% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 31
Autosampler Location: 98
Sample ID: AD26083-022
Date Collected: 9/29/2021 5:09:59 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-022

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93538.2 | 100.0 | % | 0.85 | 100.0 | % | 0.85 | 0.85% |
| Y 371.029 | 35932.2 | 98.3 | % | 0.87 | 98.3 | % | 0.87 | 0.88% |
| Al 308.215† | 18.3 | 0.0369017 | mg/L | 0.00783150 | 0.0369017 | mg/L | 0.00783150 | 21.22% |
| Ba 233.527† | 780.0 | 0.164484 | mg/L | 0.0010020 | 0.164484 | mg/L | 0.0010020 | 0.61% |
| Ca 315.887† | 155002.0 | 29.3619 | mg/L | 0.03889 | 29.3619 | mg/L | 0.03889 | 0.13% |
| Cu 327.393† | 13.9 | 0.0094996 | mg/L | 0.00451622 | 0.0094996 | mg/L | 0.00451622 | 47.54% |
| Fe 273.955† | 270.0 | 0.217091 | mg/L | 0.0066220 | 0.217091 | mg/L | 0.0066220 | 3.05% |
| K 766.490† | 4107.7 | 2.38843 | mg/L | 0.045517 | 2.38843 | mg/L | 0.045517 | 1.91% |
| Mg 279.077† | 5987.8 | 8.97771 | mg/L | 0.156791 | 8.97771 | mg/L | 0.156791 | 1.75% |
| Mn 257.610† | 4974.5 | 0.166710 | mg/L | 0.0025862 | 0.166710 | mg/L | 0.0025862 | 1.55% |
| Mo 202.031† | 0.1 | 0.0033706 | mg/L | 0.00185448 | 0.0033706 | mg/L | 0.00185448 | 55.02% |
| Na 589.592† | 167560.7 | 17.0860 | mg/L | 0.04245 | 17.0860 | mg/L | 0.04245 | 0.25% |
| Ni 231.604† | 2.8 | 0.0005591 | mg/L | 0.00084597 | 0.0005591 | mg/L | 0.00084597 | 151.32% |
| Se 196.026† | 2.5 | 0.0042378 | mg/L | 0.01364195 | 0.0042378 | mg/L | 0.01364195 | 321.91% |
| Sn 189.927† | -5.1 | -0.0128402 | mg/L | 0.00539605 | -0.0128402 | mg/L | 0.00539605 | 42.02% |
| Ti 334.940† | -155.6 | 0.0010038 | mg/L | 0.00039747 | 0.0010038 | mg/L | 0.00039747 | 39.60% |
| V 290.880† | 89.1 | 0.0073322 | mg/L | 0.00163518 | 0.0073322 | mg/L | 0.00163518 | 22.30% |
| Zn 206.200† | 143.4 | 0.0377415 | mg/L | 0.00100156 | 0.0377415 | mg/L | 0.00100156 | 2.65% |
| Si 251.611† | 16626.2 | 6.03312 | mg/L | 0.102935 | 6.03312 | mg/L | 0.102935 | 1.71% |
| B 249.772† | 421.7 | 0.0567619 | mg/L | 0.00069703 | 0.0567619 | mg/L | 0.00069703 | 1.23% |
| Ce 413.764† | 5.6 | -0.0030819 | mg/L | 0.01368981 | -0.0030819 | mg/L | 0.01368981 | 444.19% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 32
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 6
Date Collected: 9/29/2021 5:14:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92917.0 | 99.3 | % | 0.21 | 99.3 | % | 0.21 | 0.21% |
| Y 371.029 | 35688.4 | 97.7 | % | 0.54 | 97.7 | % | 0.54 | 0.55% |
| Al 308.215† | 4671.0 | 4.98227 | mg/L | 0.039241 | 4.98227 | mg/L | 0.039241 | 0.79% |
| QC value within limits for Al 308.215 Recovery = 99.65% | | | | | | | | |
| Ba 233.527† | 2356.4 | 0.494258 | mg/L | 0.0017855 | 0.494258 | mg/L | 0.0017855 | 0.36% |
| QC value within limits for Ba 233.527 Recovery = 98.85% | | | | | | | | |
| Ca 315.887† | 256801.1 | 48.6858 | mg/L | 0.01557 | 48.6858 | mg/L | 0.01557 | 0.03% |
| QC value within limits for Ca 315.887 Recovery = 97.37% | | | | | | | | |
| Cu 327.393† | 2493.4 | 0.528860 | mg/L | 0.0060150 | 0.528860 | mg/L | 0.0060150 | 1.14% |
| QC value within limits for Cu 327.393 Recovery = 105.77% | | | | | | | | |
| Fe 273.955† | 5804.3 | 4.92673 | mg/L | 0.060518 | 4.92673 | mg/L | 0.060518 | 1.23% |
| QC value within limits for Fe 273.955 Recovery = 98.53% | | | | | | | | |
| K 766.490† | 92511.0 | 48.2562 | mg/L | 0.11493 | 48.2562 | mg/L | 0.11493 | 0.24% |
| QC value within limits for K 766.490 Recovery = 96.51% | | | | | | | | |
| Mg 279.077† | 32428.2 | 49.1291 | mg/L | 0.31418 | 49.1291 | mg/L | 0.31418 | 0.64% |
| QC value within limits for Mg 279.077 Recovery = 98.26% | | | | | | | | |
| Mn 257.610† | 14410.6 | 0.489645 | mg/L | 0.0027649 | 0.489645 | mg/L | 0.0027649 | 0.56% |
| QC value within limits for Mn 257.610 Recovery = 97.93% | | | | | | | | |
| Mo 202.031† | 695.8 | 0.487501 | mg/L | 0.0029324 | 0.487501 | mg/L | 0.0029324 | 0.60% |
| QC value within limits for Mo 202.031 Recovery = 97.50% | | | | | | | | |
| Na 589.592† | 477546.8 | 48.6495 | mg/L | 0.09504 | 48.6495 | mg/L | 0.09504 | 0.20% |
| QC value within limits for Na 589.592 Recovery = 97.30% | | | | | | | | |
| Ni 231.604† | 952.2 | 0.491815 | mg/L | 0.0058041 | 0.491815 | mg/L | 0.0058041 | 1.18% |
| QC value within limits for Ni 231.604 Recovery = 98.36% | | | | | | | | |
| Se 196.026† | 133.4 | 0.479043 | mg/L | 0.0286864 | 0.479043 | mg/L | 0.0286864 | 5.99% |
| QC value within limits for Se 196.026 Recovery = 95.81% | | | | | | | | |
| Sn 189.927† | 155.3 | 0.489555 | mg/L | 0.0100212 | 0.489555 | mg/L | 0.0100212 | 2.05% |
| QC value within limits for Sn 189.927 Recovery = 97.91% | | | | | | | | |
| Ti 334.940† | 22375.3 | 0.498490 | mg/L | 0.0027297 | 0.498490 | mg/L | 0.0027297 | 0.55% |
| QC value within limits for Ti 334.940 Recovery = 99.70% | | | | | | | | |
| V 290.880† | 4207.7 | 0.477428 | mg/L | 0.0052851 | 0.477428 | mg/L | 0.0052851 | 1.11% |
| QC value within limits for V 290.880 Recovery = 95.49% | | | | | | | | |
| Zn 206.200† | 1822.8 | 0.487618 | mg/L | 0.0042253 | 0.487618 | mg/L | 0.0042253 | 0.87% |
| QC value within limits for Zn 206.200 Recovery = 97.52% | | | | | | | | |
| Si 251.611† | 13522.5 | 4.89869 | mg/L | 0.027765 | 4.89869 | mg/L | 0.027765 | 0.57% |
| QC value within limits for Si 251.611 Recovery = 97.97% | | | | | | | | |
| B 249.772† | 3446.4 | 0.467091 | mg/L | 0.0011854 | 0.467091 | mg/L | 0.0011854 | 0.25% |
| QC value within limits for B 249.772 Recovery = 93.42% | | | | | | | | |
| Ce 413.764† | 2186.9 | 0.474028 | mg/L | 0.0107895 | 0.474028 | mg/L | 0.0107895 | 2.28% |
| QC value within limits for Ce 413.764 Recovery = 94.81% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 33 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 5:18:16 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92934.8 | 99.3 | % | 0.77 | 99.3 | % | 0.77 | 0.78% |
| Y 371.029 | 37171.4 | 102 | % | 0.66 | 102 | % | 0.66 | 0.65% |
| Al 308.215† | 5.2 | 0.0222020 | mg/L | 0.01108247 | 0.0222020 | mg/L | 0.01108247 | 49.92% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 1.0 | 0.0003419 | mg/L | 0.00043508 | 0.0003419 | mg/L | 0.00043508 | 127.27% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -26.3 | -0.0662414 | mg/L | 0.00614514 | -0.0662414 | mg/L | 0.00614514 | 9.28% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 49.0 | 0.0030616 | mg/L | 0.00184867 | 0.0030616 | mg/L | 0.00184867 | 60.38% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 9.2 | -0.0048947 | mg/L | 0.00131480 | -0.0048947 | mg/L | 0.00131480 | 26.86% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -115.4 | 0.197296 | mg/L | 0.0076844 | 0.197296 | mg/L | 0.0076844 | 3.89% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 6.5 | -0.105137 | mg/L | 0.0154258 | -0.105137 | mg/L | 0.0154258 | 14.67% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -2.1 | -0.0013322 | mg/L | 0.00034402 | -0.0013322 | mg/L | 0.00034402 | 25.82% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -1.0 | 0.0025802 | mg/L | 0.00215742 | 0.0025802 | mg/L | 0.00215742 | 83.61% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | -57.8 | 0.0186931 | mg/L | 0.00799011 | 0.0186931 | mg/L | 0.00799011 | 42.74% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -6.1 | -0.0041513 | mg/L | 0.00406885 | -0.0041513 | mg/L | 0.00406885 | 98.01% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 1.8 | 0.0014043 | mg/L | 0.01124008 | 0.0014043 | mg/L | 0.01124008 | 800.42% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.3 | -0.0086938 | mg/L | 0.00755723 | -0.0086938 | mg/L | 0.00755723 | 86.93% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 28.2 | 0.0002542 | mg/L | 0.00070539 | 0.0002542 | mg/L | 0.00070539 | 277.52% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 2.4 | 0.0007488 | mg/L | 0.00043342 | 0.0007488 | mg/L | 0.00043342 | 57.88% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -3.0 | -0.0014825 | mg/L | 0.00122641 | -0.0014825 | mg/L | 0.00122641 | 82.73% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 10.9 | -0.0397931 | mg/L | 0.00172294 | -0.0397931 | mg/L | 0.00172294 | 4.33% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 6.4 | -0.0012996 | mg/L | 0.00128756 | -0.0012996 | mg/L | 0.00128756 | 99.07% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -45.1 | -0.0141617 | mg/L | 0.00767175 | -0.0141617 | mg/L | 0.00767175 | 54.17% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 34
Autosampler Location: 99
Sample ID: AD26083-024
Date Collected: 9/29/2021 5:22:08 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-024

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93410.0 | 99.8 | % | 0.74 | 99.8 | % | 0.74 | 0.74% |
| Y 371.029 | 36488.2 | 99.8 | % | 0.41 | 99.8 | % | 0.41 | 0.41% |
| Al 308.215† | 12.9 | 0.0313022 | mg/L | 0.00958997 | 0.0313022 | mg/L | 0.00958997 | 30.64% |
| Ba 233.527† | 729.6 | 0.153892 | mg/L | 0.0003062 | 0.153892 | mg/L | 0.0003062 | 0.20% |
| Ca 315.887† | 144966.3 | 27.4569 | mg/L | 0.04405 | 27.4569 | mg/L | 0.04405 | 0.16% |
| Cu 327.393† | -18.4 | 0.0019780 | mg/L | 0.00214316 | 0.0019780 | mg/L | 0.00214316 | 108.35% |
| Fe 273.955† | 197.4 | 0.155301 | mg/L | 0.0061317 | 0.155301 | mg/L | 0.0061317 | 3.95% |
| K 766.490† | 3773.5 | 2.21502 | mg/L | 0.039564 | 2.21502 | mg/L | 0.039564 | 1.79% |
| Mg 279.077† | 5681.1 | 8.51209 | mg/L | 0.049095 | 8.51209 | mg/L | 0.049095 | 0.58% |
| Mn 257.610† | 4703.3 | 0.157559 | mg/L | 0.0008970 | 0.157559 | mg/L | 0.0008970 | 0.57% |
| Mo 202.031† | 0.3 | 0.0035143 | mg/L | 0.00092788 | 0.0035143 | mg/L | 0.00092788 | 26.40% |
| Na 589.592† | 154079.3 | 15.7133 | mg/L | 0.03274 | 15.7133 | mg/L | 0.03274 | 0.21% |
| Ni 231.604† | 0.4 | -0.0007024 | mg/L | 0.00424953 | -0.0007024 | mg/L | 0.00424953 | 605.00% |
| Se 196.026† | -4.6 | -0.0212222 | mg/L | 0.00790720 | -0.0212222 | mg/L | 0.00790720 | 37.26% |
| Sn 189.927† | -2.2 | -0.0042124 | mg/L | 0.00634866 | -0.0042124 | mg/L | 0.00634866 | 150.72% |
| Ti 334.940† | -177.0 | 0.0002246 | mg/L | 0.00005807 | 0.0002246 | mg/L | 0.00005807 | 25.85% |
| V 290.880† | 93.3 | 0.0080156 | mg/L | 0.00106998 | 0.0080156 | mg/L | 0.00106998 | 13.35% |
| Zn 206.200† | 61.4 | 0.0157827 | mg/L | 0.00117340 | 0.0157827 | mg/L | 0.00117340 | 7.43% |
| Si 251.611† | 15713.3 | 5.69943 | mg/L | 0.048948 | 5.69943 | mg/L | 0.048948 | 0.86% |
| B 249.772† | 391.1 | 0.0526700 | mg/L | 0.00038958 | 0.0526700 | mg/L | 0.00038958 | 0.74% |
| Ce 413.764† | -38.8 | -0.0127828 | mg/L | 0.00892160 | -0.0127828 | mg/L | 0.00892160 | 69.79% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 35
Autosampler Location: 100
Sample ID: AD26083-029
Date Collected: 9/29/2021 5:26:14 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-029

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90860.6 | 97.1 | % | 0.63 | 97.1 | % | 0.63 | 0.65% |
| Y 371.029 | 34974.9 | 95.7 | % | 0.61 | 95.7 | % | 0.61 | 0.63% |
| Al 308.215† | 139.9 | 0.170903 | mg/L | 0.0066609 | 0.170903 | mg/L | 0.0066609 | 3.90% |
| Ba 233.527† | 5988.9 | 1.26273 | mg/L | 0.011442 | 1.26273 | mg/L | 0.011442 | 0.91% |
| Ca 315.887† | 1004095.2 | 190.540 | mg/L | 2.0031 | 190.540 | mg/L | 2.0031 | 1.05% |
| Cu 327.393† | -261.9 | 0.0276068 | mg/L | 0.00085502 | 0.0276068 | mg/L | 0.00085502 | 3.10% |
| Fe 273.955† | 468.3 | 0.385812 | mg/L | 0.0070729 | 0.385812 | mg/L | 0.0070729 | 1.83% |
| K 766.490† | 11423.0 | 6.18394 | mg/L | 0.014776 | 6.18394 | mg/L | 0.014776 | 0.24% |
| Mg 279.077† | 37165.2 | 56.3224 | mg/L | 0.04440 | 56.3224 | mg/L | 0.04440 | 0.08% |
| Mn 257.610† | 18302.2 | 0.621069 | mg/L | 0.0010494 | 0.621069 | mg/L | 0.0010494 | 0.17% |
| Mo 202.031† | -8.1 | -0.0023711 | mg/L | 0.00229443 | -0.0023711 | mg/L | 0.00229443 | 96.76% |
| Na 589.592† | 1649477.3 | 167.978 | mg/L | 1.5643 | 167.978 | mg/L | 1.5643 | 0.93% |
| Ni 231.604† | -9.2 | -0.0056121 | mg/L | 0.00273450 | -0.0056121 | mg/L | 0.00273450 | 48.72% |
| Se 196.026† | 4.9 | 0.0128849 | mg/L | 0.01387737 | 0.0128849 | mg/L | 0.01387737 | 107.70% |
| Sn 189.927† | -30.5 | -0.0663441 | mg/L | 0.01901946 | -0.0663441 | mg/L | 0.01901946 | 28.67% |
| Ti 334.940† | -1028.5 | 0.0080514 | mg/L | 0.00031212 | 0.0080514 | mg/L | 0.00031212 | 3.88% |
| V 290.880† | 585.2 | 0.0468438 | mg/L | 0.00150087 | 0.0468438 | mg/L | 0.00150087 | 3.20% |
| Zn 206.200† | 94.5 | 0.0246524 | mg/L | 0.00047567 | 0.0246524 | mg/L | 0.00047567 | 1.93% |
| Si 251.611† | 14930.5 | 5.41332 | mg/L | 0.003874 | 5.41332 | mg/L | 0.003874 | 0.07% |
| B 249.772† | 1549.4 | 0.216162 | mg/L | 0.0022408 | 0.216162 | mg/L | 0.0022408 | 1.04% |
| Ce 413.764† | -11.1 | -0.0067260 | mg/L | 0.01253038 | -0.0067260 | mg/L | 0.01253038 | 186.30% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 36
Autosampler Location: 101
Sample ID: AD26083-031
Date Collected: 9/29/2021 5:30:24 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-031

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90897.8 | 97.1 | % | 0.24 | 97.1 | % | 0.24 | 0.24% |
| Y 371.029 | 36085.4 | 98.7 | % | 0.21 | 98.7 | % | 0.21 | 0.21% |
| Al 308.215† | -4.5 | 0.0126876 | mg/L | 0.00473698 | 0.0126876 | mg/L | 0.00473698 | 37.34% |
| Ba 233.527† | 429.4 | 0.0906626 | mg/L | 0.00074924 | 0.0906626 | mg/L | 0.00074924 | 0.83% |
| Ca 315.887† | 25327.1 | 4.74644 | mg/L | 0.009039 | 4.74644 | mg/L | 0.009039 | 0.19% |
| Cu 327.393† | 57.3 | 0.0070043 | mg/L | 0.00269473 | 0.0070043 | mg/L | 0.00269473 | 38.47% |
| Fe 273.955† | 26.7 | 0.0100332 | mg/L | 0.00168516 | 0.0100332 | mg/L | 0.00168516 | 16.80% |
| K 766.490† | 12052.4 | 6.51050 | mg/L | 0.020789 | 6.51050 | mg/L | 0.020789 | 0.32% |
| Mg 279.077† | 3150.8 | 4.66963 | mg/L | 0.059253 | 4.66963 | mg/L | 0.059253 | 1.27% |
| Mn 257.610† | 943.3 | 0.0311628 | mg/L | 0.00025786 | 0.0311628 | mg/L | 0.00025786 | 0.83% |
| Mo 202.031† | -2.5 | 0.0015773 | mg/L | 0.00102575 | 0.0015773 | mg/L | 0.00102575 | 65.03% |
| Na 589.592† | 647802.8 | 65.9853 | mg/L | 0.07707 | 65.9853 | mg/L | 0.07707 | 0.12% |
| Ni 231.604† | -4.0 | -0.0030255 | mg/L | 0.00692897 | -0.0030255 | mg/L | 0.00692897 | 229.02% |
| Se 196.026† | 1.2 | -0.0004335 | mg/L | 0.01261565 | -0.0004335 | mg/L | 0.01261565 | >999.9% |
| Sn 189.927† | -1.0 | -0.0034431 | mg/L | 0.01006707 | -0.0034431 | mg/L | 0.01006707 | 292.38% |
| Ti 334.940† | -4.3 | 0.0003238 | mg/L | 0.00079941 | 0.0003238 | mg/L | 0.00079941 | 246.85% |
| V 290.880† | 62.4 | 0.0059146 | mg/L | 0.00096030 | 0.0059146 | mg/L | 0.00096030 | 16.24% |
| Zn 206.200† | 14.6 | 0.0032473 | mg/L | 0.00144141 | 0.0032473 | mg/L | 0.00144141 | 44.39% |
| Si 251.611† | 12606.2 | 4.56381 | mg/L | 0.003657 | 4.56381 | mg/L | 0.003657 | 0.08% |
| B 249.772† | 713.7 | 0.0990554 | mg/L | 0.00071338 | 0.0990554 | mg/L | 0.00071338 | 0.72% |
| Ce 413.764† | -47.5 | -0.0146972 | mg/L | 0.00578925 | -0.0146972 | mg/L | 0.00578925 | 39.39% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 37
Autosampler Location: 102
Sample ID: AD26083-037
Date Collected: 9/29/2021 5:34:32 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-037

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 84733.9 | 90.6 | % | 0.31 | 90.6 | % | 0.31 | 0.34% |
| Y 371.029 | 32207.9 | 88.1 | % | 0.38 | 88.1 | % | 0.38 | 0.43% |
| Al 308.215† | 33.1 | 0.0767383 | mg/L | 0.00209990 | 0.0767383 | mg/L | 0.00209990 | 2.74% |
| Ba 233.527† | 199.5 | 0.0410774 | mg/L | 0.00095516 | 0.0410774 | mg/L | 0.00095516 | 2.33% |
| Ca 315.887† | 3997257.9 | 758.716 | mg/L | 4.9294 | 758.716 | mg/L | 4.9294 | 0.65% |
| Cu 327.393† | -1133.4 | 0.112172 | mg/L | 0.0037571 | 0.112172 | mg/L | 0.0037571 | 3.35% |
| Fe 273.955† | 2380.3 | 2.01294 | mg/L | 0.005397 | 2.01294 | mg/L | 0.005397 | 0.27% |
| K 766.490† | 59606.2 | 31.1836 | mg/L | 0.48282 | 31.1836 | mg/L | 0.48282 | 1.55% |
| Mg 279.077† | 174166.1 | 264.366 | mg/L | 1.6068 | 264.366 | mg/L | 1.6068 | 0.61% |
| Mn 257.610† | 135153.5 | 4.56573 | mg/L | 0.008444 | 4.56573 | mg/L | 0.008444 | 0.18% |
| Mo 202.031† | -15.9 | -0.0077516 | mg/L | 0.00641178 | -0.0077516 | mg/L | 0.00641178 | 82.72% |
| Na 589.592† | 19521834.9 | 1987.78 | mg/L | 14.522 | 1987.78 | mg/L | 14.522 | 0.73% |
| Ni 231.604† | -26.8 | -0.0140499 | mg/L | 0.00391262 | -0.0140499 | mg/L | 0.00391262 | 27.85% |
| Se 196.026† | -1.1 | -0.0070331 | mg/L | 0.02148401 | -0.0070331 | mg/L | 0.02148401 | 305.47% |
| Sn 189.927† | -110.2 | -0.219116 | mg/L | 0.0110715 | -0.219116 | mg/L | 0.0110715 | 5.05% |
| Ti 334.940† | -6283.6 | -0.0148998 | mg/L | 0.00169517 | -0.0148998 | mg/L | 0.00169517 | 11.38% |
| V 290.880† | 2300.5 | 0.165595 | mg/L | 0.0037798 | 0.165595 | mg/L | 0.0037798 | 2.28% |
| Zn 206.200† | 116.1 | 0.0304408 | mg/L | 0.00057139 | 0.0304408 | mg/L | 0.00057139 | 1.88% |
| Si 251.611† | 18126.4 | 6.58144 | mg/L | 0.019482 | 6.58144 | mg/L | 0.019482 | 0.30% |
| B 249.772† | 2622.1 | 0.361862 | mg/L | 0.0019373 | 0.361862 | mg/L | 0.0019373 | 0.54% |
| Ce 413.764† | -36.9 | -0.0123716 | mg/L | 0.00631694 | -0.0123716 | mg/L | 0.00631694 | 51.06% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 38
Sample ID: AD26083-047
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 150
Autosampler Location: 103
Date Collected: 9/29/2021 5:40:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-047

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93433.0 | 99.9 | % | 0.77 | 99.9 | % | 0.77 | 0.77% |
| Y 371.029 | 36295.5 | 99.3 | % | 0.26 | 99.3 | % | 0.26 | 0.26% |
| Al 308.215† | 19.5 | 0.0377737 | mg/L | 0.00489259 | 0.0377737 | mg/L | 0.00489259 | 12.95% |
| Ba 233.527† | 160.3 | 0.0339255 | mg/L | 0.00054353 | 0.0339255 | mg/L | 0.00054353 | 1.60% |
| Ca 315.887† | 43221.3 | 8.14321 | mg/L | 0.097733 | 8.14321 | mg/L | 0.097733 | 1.20% |
| Cu 327.393† | 53.2 | 0.0077459 | mg/L | 0.00277294 | 0.0077459 | mg/L | 0.00277294 | 35.80% |
| Fe 273.955† | 17.7 | 0.0023955 | mg/L | 0.00147436 | 0.0023955 | mg/L | 0.00147436 | 61.55% |
| K 766.490† | 41911.4 | 22.0028 | mg/L | 0.06897 | 22.0028 | mg/L | 0.06897 | 0.31% |
| Mg 279.077† | 964.6 | 1.34984 | mg/L | 0.009047 | 1.34984 | mg/L | 0.009047 | 0.67% |
| Mn 257.610† | 306.5 | 0.0092551 | mg/L | 0.00042064 | 0.0092551 | mg/L | 0.00042064 | 4.54% |
| Mo 202.031† | -2.0 | 0.0019039 | mg/L | 0.00323063 | 0.0019039 | mg/L | 0.00323063 | 169.68% |
| Na 589.592† | 243338.7 | 24.8019 | mg/L | 0.13862 | 24.8019 | mg/L | 0.13862 | 0.56% |
| Ni 231.604† | 23.9 | 0.0113779 | mg/L | 0.00289034 | 0.0113779 | mg/L | 0.00289034 | 25.40% |
| Se 196.026† | 0.4 | -0.0034610 | mg/L | 0.02755890 | -0.0034610 | mg/L | 0.02755890 | 796.27% |
| Sn 189.927† | 0.3 | 0.0003018 | mg/L | 0.00242276 | 0.0003018 | mg/L | 0.00242276 | 802.80% |
| Ti 334.940† | -42.9 | 0.0000281 | mg/L | 0.00057704 | 0.0000281 | mg/L | 0.00057704 | >999.9% |
| V 290.880† | 31.9 | 0.0036490 | mg/L | 0.00212114 | 0.0036490 | mg/L | 0.00212114 | 58.13% |
| Zn 206.200† | 66.2 | 0.0170612 | mg/L | 0.00186661 | 0.0170612 | mg/L | 0.00186661 | 10.94% |
| Si 251.611† | 7341.4 | 2.63951 | mg/L | 0.027351 | 2.63951 | mg/L | 0.027351 | 1.04% |
| B 249.772† | 152.6 | 0.0194359 | mg/L | 0.00078367 | 0.0194359 | mg/L | 0.00078367 | 4.03% |
| Ce 413.764† | -73.1 | -0.0202986 | mg/L | 0.00732606 | -0.0202986 | mg/L | 0.00732606 | 36.09% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 39
Autosampler Location: 6
Sample ID: CCV V-352960
Date Collected: 9/29/2021 5:44:22 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92226.3 | 98.6 | % | 0.73 | 98.6 | % | 0.73 | 0.74% |
| Y 371.029 | 35347.9 | 96.7 | % | 0.76 | 96.7 | % | 0.76 | 0.78% |
| Al 308.215† | 4652.7 | 4.96273 | mg/L | 0.095979 | 4.96273 | mg/L | 0.095979 | 1.93% |
| QC value within limits for Al 308.215 Recovery = 99.25% | | | | | | | | |
| Ba 233.527† | 2365.3 | 0.496160 | mg/L | 0.0051707 | 0.496160 | mg/L | 0.0051707 | 1.04% |
| QC value within limits for Ba 233.527 Recovery = 99.23% | | | | | | | | |
| Ca 315.887† | 256270.2 | 48.5851 | mg/L | 0.06682 | 48.5851 | mg/L | 0.06682 | 0.14% |
| QC value within limits for Ca 315.887 Recovery = 97.17% | | | | | | | | |
| Cu 327.393† | 2507.7 | 0.531763 | mg/L | 0.0079300 | 0.531763 | mg/L | 0.0079300 | 1.49% |
| QC value within limits for Cu 327.393 Recovery = 106.35% | | | | | | | | |
| Fe 273.955† | 5743.5 | 4.87496 | mg/L | 0.089889 | 4.87496 | mg/L | 0.089889 | 1.84% |
| QC value within limits for Fe 273.955 Recovery = 97.50% | | | | | | | | |
| K 766.490† | 92380.4 | 48.1884 | mg/L | 0.10458 | 48.1884 | mg/L | 0.10458 | 0.22% |
| QC value within limits for K 766.490 Recovery = 96.38% | | | | | | | | |
| Mg 279.077† | 32155.0 | 48.7141 | mg/L | 0.89086 | 48.7141 | mg/L | 0.89086 | 1.83% |
| QC value within limits for Mg 279.077 Recovery = 97.43% | | | | | | | | |
| Mn 257.610† | 14248.6 | 0.484154 | mg/L | 0.0094117 | 0.484154 | mg/L | 0.0094117 | 1.94% |
| QC value within limits for Mn 257.610 Recovery = 96.83% | | | | | | | | |
| Mo 202.031† | 696.1 | 0.487650 | mg/L | 0.0062800 | 0.487650 | mg/L | 0.0062800 | 1.29% |
| QC value within limits for Mo 202.031 Recovery = 97.53% | | | | | | | | |
| Na 589.592† | 477784.4 | 48.6737 | mg/L | 0.15418 | 48.6737 | mg/L | 0.15418 | 0.32% |
| QC value within limits for Na 589.592 Recovery = 97.35% | | | | | | | | |
| Ni 231.604† | 957.8 | 0.494704 | mg/L | 0.0070826 | 0.494704 | mg/L | 0.0070826 | 1.43% |
| QC value within limits for Ni 231.604 Recovery = 98.94% | | | | | | | | |
| Se 196.026† | 132.5 | 0.475707 | mg/L | 0.0162751 | 0.475707 | mg/L | 0.0162751 | 3.42% |
| QC value within limits for Se 196.026 Recovery = 95.14% | | | | | | | | |
| Sn 189.927† | 153.5 | 0.483965 | mg/L | 0.0120953 | 0.483965 | mg/L | 0.0120953 | 2.50% |
| QC value within limits for Sn 189.927 Recovery = 96.79% | | | | | | | | |
| Ti 334.940† | 22129.9 | 0.493089 | mg/L | 0.0086416 | 0.493089 | mg/L | 0.0086416 | 1.75% |
| QC value within limits for Ti 334.940 Recovery = 98.62% | | | | | | | | |
| V 290.880† | 4182.6 | 0.474628 | mg/L | 0.0125623 | 0.474628 | mg/L | 0.0125623 | 2.65% |
| QC value within limits for V 290.880 Recovery = 94.93% | | | | | | | | |
| Zn 206.200† | 1827.8 | 0.488970 | mg/L | 0.0053262 | 0.488970 | mg/L | 0.0053262 | 1.09% |
| QC value within limits for Zn 206.200 Recovery = 97.79% | | | | | | | | |
| Si 251.611† | 13417.5 | 4.86032 | mg/L | 0.074884 | 4.86032 | mg/L | 0.074884 | 1.54% |
| QC value within limits for Si 251.611 Recovery = 97.21% | | | | | | | | |
| B 249.772† | 3414.7 | 0.462813 | mg/L | 0.0089673 | 0.462813 | mg/L | 0.0089673 | 1.94% |
| QC value within limits for B 249.772 Recovery = 92.56% | | | | | | | | |
| Ce 413.764† | 2164.2 | 0.469072 | mg/L | 0.0091924 | 0.469072 | mg/L | 0.0091924 | 1.96% |
| QC value within limits for Ce 413.764 Recovery = 93.81% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 40 Autosampler Location: 2
Sample ID: CCB V-352951 Date Collected: 9/29/2021 5:48:24 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92297.1 | 98.6 | % | 0.63 | 98.6 | % | 0.63 | 0.64% |
| Y 371.029 | 36893.6 | 101 | % | 0.52 | 101 | % | 0.52 | 0.52% |
| Al 308.215† | -0.9 | 0.0158561 | mg/L | 0.01208524 | 0.0158561 | mg/L | 0.01208524 | 76.22% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 0.4 | 0.0002155 | mg/L | 0.00015195 | 0.0002155 | mg/L | 0.00015195 | 70.52% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 48.0 | -0.0521334 | mg/L | 0.00451996 | -0.0521334 | mg/L | 0.00451996 | 8.67% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 22.4 | -0.0024102 | mg/L | 0.00250913 | -0.0024102 | mg/L | 0.00250913 | 104.10% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -7.1 | -0.0187405 | mg/L | 0.00438913 | -0.0187405 | mg/L | 0.00438913 | 23.42% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | 74.9 | 0.296004 | mg/L | 0.0076529 | 0.296004 | mg/L | 0.0076529 | 2.59% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 4.5 | -0.108144 | mg/L | 0.0137492 | -0.108144 | mg/L | 0.0137492 | 12.71% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -2.3 | -0.0013396 | mg/L | 0.00014937 | -0.0013396 | mg/L | 0.00014937 | 11.15% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -0.8 | 0.0027736 | mg/L | 0.00078355 | 0.0027736 | mg/L | 0.00078355 | 28.25% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 2803.5 | 0.310037 | mg/L | 0.0209357 | 0.310037 | mg/L | 0.0209357 | 6.75% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 3.9 | 0.0010153 | mg/L | 0.00590273 | 0.0010153 | mg/L | 0.00590273 | 581.40% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -1.6 | -0.0107193 | mg/L | 0.00707235 | -0.0107193 | mg/L | 0.00707235 | 65.98% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -0.5 | -0.0032326 | mg/L | 0.01322447 | -0.0032326 | mg/L | 0.01322447 | 409.10% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 39.9 | 0.0005122 | mg/L | 0.00047779 | 0.0005122 | mg/L | 0.00047779 | 93.28% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 16.3 | 0.0023941 | mg/L | 0.00043166 | 0.0023941 | mg/L | 0.00043166 | 18.03% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -4.9 | -0.0019770 | mg/L | 0.00047456 | -0.0019770 | mg/L | 0.00047456 | 24.00% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 7.2 | -0.0411606 | mg/L | 0.00316985 | -0.0411606 | mg/L | 0.00316985 | 7.70% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 7.8 | -0.0010350 | mg/L | 0.00121728 | -0.0010350 | mg/L | 0.00121728 | 117.61% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | 13.9 | -0.0012560 | mg/L | 0.00238618 | -0.0012560 | mg/L | 0.00238618 | 189.98% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 41
Autosampler Location: 106
Sample ID: AD26083-048 5D
Date Collected: 9/29/2021 5:52:10 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-048 5D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89893.0 | 96.1 | % | 1.29 | 96.1 | % | 1.29 | 1.35% |
| Y 371.029 | 35486.0 | 97.1 | % | 1.19 | 97.1 | % | 1.19 | 1.22% |
| Al 308.215† | 6.3 | 0.0270106 | mg/L | 0.01312540 | 0.0270106 | mg/L | 0.01312540 | 48.59% |
| Ba 233.527† | 179.2 | 0.0364744 | mg/L | 0.00093115 | 0.0364744 | mg/L | 0.00093115 | 2.55% |
| Ca 315.887† | 84369.6 | 15.9542 | mg/L | 0.06572 | 15.9542 | mg/L | 0.06572 | 0.41% |
| Cu 327.393† | 15.7 | 0.0036457 | mg/L | 0.00381398 | 0.0036457 | mg/L | 0.00381398 | 104.61% |
| Fe 273.955† | 3076.2 | 2.60516 | mg/L | 0.010949 | 2.60516 | mg/L | 0.010949 | 0.42% |
| K 766.490† | 17753.6 | 9.46854 | mg/L | 0.012627 | 9.46854 | mg/L | 0.012627 | 0.13% |
| Mg 279.077† | 17595.0 | 26.6040 | mg/L | 0.06181 | 26.6040 | mg/L | 0.06181 | 0.23% |
| Mn 257.610† | 6819.8 | 0.231701 | mg/L | 0.0007007 | 0.231701 | mg/L | 0.0007007 | 0.30% |
| Mo 202.031† | -4.1 | 0.0004677 | mg/L | 0.00108597 | 0.0004677 | mg/L | 0.00108597 | 232.17% |
| Na 589.592† | 2620366.9 | 266.836 | mg/L | 4.2727 | 266.836 | mg/L | 4.2727 | 1.60% |
| Ni 231.604† | -4.5 | -0.0022995 | mg/L | 0.00374689 | -0.0022995 | mg/L | 0.00374689 | 162.94% |
| Se 196.026† | 2.9 | 0.0079566 | mg/L | 0.01640503 | 0.0079566 | mg/L | 0.01640503 | 206.18% |
| Sn 189.927† | -10.3 | -0.0273440 | mg/L | 0.00783984 | -0.0273440 | mg/L | 0.00783984 | 28.67% |
| Ti 334.940† | -101.4 | 0.0000135 | mg/L | 0.00029529 | 0.0000135 | mg/L | 0.00029529 | >999.9% |
| V 290.880† | 334.5 | 0.0292049 | mg/L | 0.00446161 | 0.0292049 | mg/L | 0.00446161 | 15.28% |
| Zn 206.200† | 9.7 | 0.0019155 | mg/L | 0.00091175 | 0.0019155 | mg/L | 0.00091175 | 47.60% |
| Si 251.611† | 2120.3 | 0.731180 | mg/L | 0.0081696 | 0.731180 | mg/L | 0.0081696 | 1.12% |
| B 249.772† | 1113.8 | 0.145351 | mg/L | 0.0034233 | 0.145351 | mg/L | 0.0034233 | 2.36% |
| Ce 413.764† | -36.3 | -0.0122479 | mg/L | 0.00462992 | -0.0122479 | mg/L | 0.00462992 | 37.80% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)

Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 42
Sample ID: AD26083-048 MR 5D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75

Autosampler Location: 107
Date Collected: 9/29/2021 5:56:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-048 MR 5D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90591.1 | 96.8 | % | 0.29 | 96.8 | % | 0.29 | 0.30% |
| Y 371.029 | 35681.4 | 97.6 | % | 0.28 | 97.6 | % | 0.28 | 0.29% |
| Al 308.215† | 18.4 | 0.0398215 | mg/L | 0.00961573 | 0.0398215 | mg/L | 0.00961573 | 24.15% |
| Ba 233.527† | 171.6 | 0.0349025 | mg/L | 0.0050571 | 0.0349025 | mg/L | 0.0050571 | 1.45% |
| Ca 315.887† | 82983.4 | 15.6910 | mg/L | 0.06216 | 15.6910 | mg/L | 0.06216 | 0.40% |
| Cu 327.393† | -8.5 | -0.0014563 | mg/L | 0.00564248 | -0.0014563 | mg/L | 0.00564248 | 387.46% |
| Fe 273.955† | 3003.8 | 2.54350 | mg/L | 0.015707 | 2.54350 | mg/L | 0.015707 | 0.62% |
| K 766.490† | 17510.9 | 9.34262 | mg/L | 0.031040 | 9.34262 | mg/L | 0.031040 | 0.33% |
| Mg 279.077† | 17282.4 | 26.1292 | mg/L | 0.07475 | 26.1292 | mg/L | 0.07475 | 0.29% |
| Mn 257.610† | 6706.2 | 0.227816 | mg/L | 0.0009609 | 0.227816 | mg/L | 0.0009609 | 0.42% |
| Mo 202.031† | -1.5 | 0.0022367 | mg/L | 0.00257074 | 0.0022367 | mg/L | 0.00257074 | 114.93% |
| Na 589.592† | 2558766.3 | 260.564 | mg/L | 1.7133 | 260.564 | mg/L | 1.7133 | 0.66% |
| Ni 231.604† | 5.9 | 0.0030330 | mg/L | 0.00370305 | 0.0030330 | mg/L | 0.00370305 | 122.09% |
| Se 196.026† | 0.3 | -0.0015420 | mg/L | 0.02233173 | -0.0015420 | mg/L | 0.02233173 | >999.9% |
| Sn 189.927† | -7.0 | -0.0174033 | mg/L | 0.00484563 | -0.0174033 | mg/L | 0.00484563 | 27.84% |
| Ti 334.940† | -89.5 | 0.0002319 | mg/L | 0.00155786 | 0.0002319 | mg/L | 0.00155786 | 671.90% |
| V 290.880† | 336.7 | 0.0296579 | mg/L | 0.00114404 | 0.0296579 | mg/L | 0.00114404 | 3.86% |
| Zn 206.200† | 5.0 | 0.0006620 | mg/L | 0.00215374 | 0.0006620 | mg/L | 0.00215374 | 325.35% |
| Si 251.611† | 2057.2 | 0.708146 | mg/L | 0.0066324 | 0.708146 | mg/L | 0.0066324 | 0.94% |
| B 249.772† | 1083.8 | 0.141352 | mg/L | 0.0007235 | 0.141352 | mg/L | 0.0007235 | 0.51% |
| Ce 413.764† | -56.2 | -0.0165875 | mg/L | 0.00494890 | -0.0165875 | mg/L | 0.00494890 | 29.84% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 43
Autosampler Location: 108
Sample ID: AD26083-049 MS 1 5D 10D
Date Collected: 9/29/2021 6:00:21 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-049 MS 1 5D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90140.4 | 96.3 | % | 0.63 | 96.3 | % | 0.63 | 0.65% |
| Y 371.029 | 35335.9 | 96.7 | % | 0.76 | 96.7 | % | 0.76 | 0.78% |
| Al 308.215† | 2156.7 | 2.30143 | mg/L | 0.019932 | 2.30143 | mg/L | 0.019932 | 0.87% |
| Ba 233.527† | 402.9 | 0.0828845 | mg/L | 0.00087951 | 0.0828845 | mg/L | 0.00087951 | 1.06% |
| Ca 315.887† | 134764.8 | 25.5204 | mg/L | 0.04163 | 25.5204 | mg/L | 0.04163 | 0.16% |
| Cu 327.393† | 235.6 | 0.0533547 | mg/L | 0.00277860 | 0.0533547 | mg/L | 0.00277860 | 5.21% |
| Fe 273.955† | 4648.0 | 3.94267 | mg/L | 0.003218 | 3.94267 | mg/L | 0.003218 | 0.08% |
| K 766.490† | 25469.4 | 13.4719 | mg/L | 0.02989 | 13.4719 | mg/L | 0.02989 | 0.22% |
| Mg 279.077† | 22231.1 | 33.6442 | mg/L | 0.04483 | 33.6442 | mg/L | 0.04483 | 0.13% |
| Mn 257.610† | 9155.3 | 0.311085 | mg/L | 0.0007425 | 0.311085 | mg/L | 0.0007425 | 0.24% |
| Mo 202.031† | 58.5 | 0.0440344 | mg/L | 0.00121575 | 0.0440344 | mg/L | 0.00121575 | 2.76% |
| Na 589.592† | 2727496.6 | 277.744 | mg/L | 1.1795 | 277.744 | mg/L | 1.1795 | 0.42% |
| Ni 231.604† | 100.1 | 0.0518423 | mg/L | 0.00183767 | 0.0518423 | mg/L | 0.00183767 | 3.54% |
| Se 196.026† | 8.9 | 0.0306334 | mg/L | 0.01220248 | 0.0306334 | mg/L | 0.01220248 | 39.83% |
| Sn 189.927† | 1.8 | 0.0118066 | mg/L | 0.01389089 | 0.0118066 | mg/L | 0.01389089 | 117.65% |
| Ti 334.940† | 4912.3 | 0.111574 | mg/L | 0.0008804 | 0.111574 | mg/L | 0.0008804 | 0.79% |
| V 290.880† | 694.3 | 0.0688576 | mg/L | 0.00484352 | 0.0688576 | mg/L | 0.00484352 | 7.03% |
| Zn 206.200† | 197.9 | 0.0523446 | mg/L | 0.00093258 | 0.0523446 | mg/L | 0.00093258 | 1.78% |
| Si 251.611† | 10790.3 | 3.90007 | mg/L | 0.012766 | 3.90007 | mg/L | 0.012766 | 0.33% |
| B 249.772† | 1373.0 | 0.176748 | mg/L | 0.0013531 | 0.176748 | mg/L | 0.0013531 | 0.77% |
| Ce 413.764† | 195.8 | 0.0385126 | mg/L | 0.00372192 | 0.0385126 | mg/L | 0.00372192 | 9.66% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 44 Autosampler Location: 109
Sample ID: AD26083-050 MS 2 5D 100 dyn Date Collected: 9/29/2021 6:04:27 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-050 MS 2 5D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90823.1 | 97.1 | % | 0.37 | 97.1 | % | 0.37 | 0.38% |
| Y 371.029 | 35461.9 | 97.0 | % | 0.22 | 97.0 | % | 0.22 | 0.23% |
| Al 308.215† | 3004.3 | 3.19729 | mg/L | 0.033527 | 3.19729 | mg/L | 0.033527 | 1.05% |
| Ba 233.527† | 408.5 | 0.0834849 | mg/L | 0.00055308 | 0.0834849 | mg/L | 0.00055308 | 0.66% |
| Ca 315.887† | 144714.0 | 27.4090 | mg/L | 0.00875 | 27.4090 | mg/L | 0.00875 | 0.03% |
| Cu 327.393† | 244.0 | 0.0559588 | mg/L | 0.00299505 | 0.0559588 | mg/L | 0.00299505 | 5.35% |
| Fe 273.955† | 5893.3 | 5.00245 | mg/L | 0.012143 | 5.00245 | mg/L | 0.012143 | 0.24% |
| K 766.490† | 24686.9 | 13.0659 | mg/L | 0.01013 | 13.0659 | mg/L | 0.01013 | 0.08% |
| Mg 279.077† | 22579.1 | 34.1725 | mg/L | 0.06313 | 34.1725 | mg/L | 0.06313 | 0.18% |
| Mn 257.610† | 9810.8 | 0.333094 | mg/L | 0.0012393 | 0.333094 | mg/L | 0.0012393 | 0.37% |
| Mo 202.031† | 57.7 | 0.0434609 | mg/L | 0.00127584 | 0.0434609 | mg/L | 0.00127584 | 2.94% |
| Na 589.592† | 2677176.3 | 272.621 | mg/L | 1.0882 | 272.621 | mg/L | 1.0882 | 0.40% |
| Ni 231.604† | 95.2 | 0.0495889 | mg/L | 0.00077516 | 0.0495889 | mg/L | 0.00077516 | 1.56% |
| Se 196.026† | 13.7 | 0.0490501 | mg/L | 0.01112547 | 0.0490501 | mg/L | 0.01112547 | 22.68% |
| Sn 189.927† | 2.2 | 0.0132944 | mg/L | 0.01108085 | 0.0132944 | mg/L | 0.01108085 | 83.35% |
| Ti 334.940† | 6442.4 | 0.145452 | mg/L | 0.0030514 | 0.145452 | mg/L | 0.0030514 | 2.10% |
| V 290.880† | 725.9 | 0.0723721 | mg/L | 0.00716928 | 0.0723721 | mg/L | 0.00716928 | 9.91% |
| Zn 206.200† | 204.2 | 0.0540406 | mg/L | 0.00085460 | 0.0540406 | mg/L | 0.00085460 | 1.58% |
| Si 251.611† | 14762.8 | 5.35205 | mg/L | 0.028014 | 5.35205 | mg/L | 0.028014 | 0.52% |
| B 249.772† | 1339.6 | 0.167724 | mg/L | 0.0006036 | 0.167724 | mg/L | 0.0006036 | 0.36% |
| Ce 413.764† | 207.9 | 0.0411701 | mg/L | 0.00928397 | 0.0411701 | mg/L | 0.00928397 | 22.55% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 45
Autosampler Location: 110
Sample ID: AD26083-048 PS 5D 100 cpa
Date Collected: 9/29/2021 6:08:31 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-048 PS 5D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89690.1 | 95.9 | % | 0.59 | 95.9 | % | 0.59 | 0.62% |
| Y 371.029 | 34213.5 | 93.6 | % | 0.56 | 93.6 | % | 0.56 | 0.60% |
| Al 308.215† | 5205.5 | 5.55371 | mg/L | 0.295934 | 5.55371 | mg/L | 0.295934 | 5.33% |
| Ba 233.527† | 2709.5 | 0.567003 | mg/L | 0.0227675 | 0.567003 | mg/L | 0.0227675 | 4.02% |
| Ca 315.887† | 387530.0 | 73.5014 | mg/L | 5.27569 | 73.5014 | mg/L | 5.27569 | 7.18% |
| Cu 327.393† | 2814.9 | 0.606563 | mg/L | 0.0225694 | 0.606563 | mg/L | 0.0225694 | 3.72% |
| Fe 273.955† | 9418.1 | 8.00198 | mg/L | 0.330837 | 8.00198 | mg/L | 0.330837 | 4.13% |
| K 766.490† | 133681.3 | 69.6173 | mg/L | 5.39376 | 69.6173 | mg/L | 5.39376 | 7.75% |
| Mg 279.077† | 55279.9 | 83.8305 | mg/L | 6.13551 | 83.8305 | mg/L | 6.13551 | 7.32% |
| Mn 257.610† | 22831.1 | 0.777612 | mg/L | 0.0329639 | 0.777612 | mg/L | 0.0329639 | 4.24% |
| Mo 202.031† | 764.2 | 0.535044 | mg/L | 0.0250050 | 0.535044 | mg/L | 0.0250050 | 4.67% |
| Na 589.592† | 3295164.5 | 335.546 | mg/L | 12.0388 | 335.546 | mg/L | 12.0388 | 3.59% |
| Ni 231.604† | 1028.9 | 0.532528 | mg/L | 0.0264201 | 0.532528 | mg/L | 0.0264201 | 4.96% |
| Se 196.026† | 146.7 | 0.529663 | mg/L | 0.0231537 | 0.529663 | mg/L | 0.0231537 | 4.37% |
| Sn 189.927† | 155.7 | 0.498860 | mg/L | 0.0391729 | 0.498860 | mg/L | 0.0391729 | 7.85% |
| Ti 334.940† | 24571.9 | 0.550719 | mg/L | 0.0245366 | 0.550719 | mg/L | 0.0245366 | 4.46% |
| V 290.880† | 4930.8 | 0.548823 | mg/L | 0.0283785 | 0.548823 | mg/L | 0.0283785 | 5.17% |
| Zn 206.200† | 1997.5 | 0.534421 | mg/L | 0.0232759 | 0.534421 | mg/L | 0.0232759 | 4.36% |
| Si 251.611† | 3745.6 | 1.32525 | mg/L | 0.040539 | 1.32525 | mg/L | 0.040539 | 3.06% |
| B 249.772† | 4569.1 | 0.614045 | mg/L | 0.0153565 | 0.614045 | mg/L | 0.0153565 | 2.50% |
| Ce 413.764† | 2244.8 | 0.486682 | mg/L | 0.0100275 | 0.486682 | mg/L | 0.0100275 | 2.06% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)

Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 46
Sample ID: AD26083-048 SD 5D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75

Autosampler Location: 111
Date Collected: 9/29/2021 6:12:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-048 SD 5D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93362.3 | 99.8 | % | 0.28 | 99.8 | % | 0.28 | 0.28% |
| Y 371.029 | 35724.7 | 97.8 | % | 1.04 | 97.8 | % | 1.04 | 1.06% |
| Al 308.215† | -6.6 | 0.0103451 | mg/L | 0.00658308 | 0.0103451 | mg/L | 0.00658308 | 63.63% |
| Ba 233.527† | 34.8 | 0.0071906 | mg/L | 0.00059122 | 0.0071906 | mg/L | 0.00059122 | 8.22% |
| Ca 315.887† | 16638.4 | 3.09711 | mg/L | 0.030053 | 3.09711 | mg/L | 0.030053 | 0.97% |
| Cu 327.393† | 15.6 | -0.0023411 | mg/L | 0.00543772 | -0.0023411 | mg/L | 0.00543772 | 232.27% |
| Fe 273.955† | 591.9 | 0.491040 | mg/L | 0.0022838 | 0.491040 | mg/L | 0.0022838 | 0.47% |
| K 766.490† | 3367.9 | 2.00459 | mg/L | 0.020764 | 2.00459 | mg/L | 0.020764 | 1.04% |
| Mg 279.077† | 3482.7 | 5.17363 | mg/L | 0.069310 | 5.17363 | mg/L | 0.069310 | 1.34% |
| Mn 257.610† | 1323.1 | 0.0439543 | mg/L | 0.00041893 | 0.0439543 | mg/L | 0.00041893 | 0.95% |
| Mo 202.031† | -0.4 | 0.0030023 | mg/L | 0.00250963 | 0.0030023 | mg/L | 0.00250963 | 83.59% |
| Na 589.592† | 527240.1 | 53.7094 | mg/L | 0.10622 | 53.7094 | mg/L | 0.10622 | 0.20% |
| Ni 231.604† | -0.6 | -0.0011078 | mg/L | 0.00278273 | -0.0011078 | mg/L | 0.00278273 | 251.20% |
| Se 196.026† | 0.2 | -0.0037070 | mg/L | 0.00734730 | -0.0037070 | mg/L | 0.00734730 | 198.20% |
| Sn 189.927† | -3.8 | -0.0119822 | mg/L | 0.00758729 | -0.0119822 | mg/L | 0.00758729 | 63.32% |
| Ti 334.940† | 13.9 | 0.0004554 | mg/L | 0.00047821 | 0.0004554 | mg/L | 0.00047821 | 105.01% |
| V 290.880† | 59.8 | 0.0054060 | mg/L | 0.00207452 | 0.0054060 | mg/L | 0.00207452 | 38.37% |
| Zn 206.200† | -4.6 | -0.0018932 | mg/L | 0.00047722 | -0.0018932 | mg/L | 0.00047722 | 25.21% |
| Si 251.611† | 416.7 | 0.108508 | mg/L | 0.0033900 | 0.108508 | mg/L | 0.0033900 | 3.12% |
| B 249.772† | 217.3 | 0.0266433 | mg/L | 0.00056485 | 0.0266433 | mg/L | 0.00056485 | 2.12% |
| Ce 413.764† | -35.5 | -0.0120659 | mg/L | 0.01209218 | -0.0120659 | mg/L | 0.01209218 | 100.22% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 47
Autosampler Location: 112
Sample ID: AD26083-032 5D
Date Collected: 9/29/2021 6:16:57 PM
Analyst:
Data Type: Original
Initial Sample Wt: 10D gn
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-032 5D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 88675.4 | 94.8 | % | 0.72 | 94.8 | % | 0.72 | 0.76% |
| Y 371.029 | 34090.7 | 93.3 | % | 0.65 | 93.3 | % | 0.65 | 0.70% |
| Al 308.215† | 11.1 | 0.0349982 | mg/L | 0.00701408 | 0.0349982 | mg/L | 0.00701408 | 20.04% |
| Ba 233.527† | 55.0 | 0.0104463 | mg/L | 0.00088452 | 0.0104463 | mg/L | 0.00088452 | 8.47% |
| Ca 315.887† | 287865.3 | 54.5826 | mg/L | 0.02336 | 54.5826 | mg/L | 0.02336 | 0.04% |
| Cu 327.393† | -44.8 | 0.0091448 | mg/L | 0.00296799 | 0.0091448 | mg/L | 0.00296799 | 32.46% |
| Fe 273.955† | 2723.3 | 2.30477 | mg/L | 0.012960 | 2.30477 | mg/L | 0.012960 | 0.56% |
| K 766.490† | 12492.9 | 6.73906 | mg/L | 0.028851 | 6.73906 | mg/L | 0.028851 | 0.43% |
| Mg 279.077† | 37290.9 | 56.5133 | mg/L | 0.02070 | 56.5133 | mg/L | 0.02070 | 0.04% |
| Mn 257.610† | 8080.3 | 0.279457 | mg/L | 0.0006109 | 0.279457 | mg/L | 0.0006109 | 0.22% |
| Mo 202.031† | -6.0 | -0.0008680 | mg/L | 0.00373709 | -0.0008680 | mg/L | 0.00373709 | 430.52% |
| Na 589.592† | 4652964.2 | 473.800 | mg/L | 2.9953 | 473.800 | mg/L | 2.9953 | 0.63% |
| Ni 231.604† | -8.7 | -0.0045815 | mg/L | 0.00216242 | -0.0045815 | mg/L | 0.00216242 | 47.20% |
| Se 196.026† | 4.0 | 0.0116211 | mg/L | 0.01746878 | 0.0116211 | mg/L | 0.01746878 | 150.32% |
| Sn 189.927† | -21.4 | -0.0529269 | mg/L | 0.00897555 | -0.0529269 | mg/L | 0.00897555 | 16.96% |
| Ti 334.940† | -481.6 | -0.0020487 | mg/L | 0.00095935 | -0.0020487 | mg/L | 0.00095935 | 46.83% |
| V 290.880† | 602.2 | 0.0487679 | mg/L | 0.00310714 | 0.0487679 | mg/L | 0.00310714 | 6.37% |
| Zn 206.200† | 11.6 | 0.0024222 | mg/L | 0.00178987 | 0.0024222 | mg/L | 0.00178987 | 73.89% |
| Si 251.611† | 3334.6 | 1.17504 | mg/L | 0.010402 | 1.17504 | mg/L | 0.010402 | 0.89% |
| B 249.772† | 980.9 | 0.127702 | mg/L | 0.0006859 | 0.127702 | mg/L | 0.0006859 | 0.54% |
| Ce 413.764† | -49.6 | -0.0151501 | mg/L | 0.00459065 | -0.0151501 | mg/L | 0.00459065 | 30.30% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 48 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/29/2021 6:21:07 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92735.5 | 99.1 | % | 0.30 | 99.1 | % | 0.30 | 0.30% |
| Y 371.029 | 35090.2 | 96.0 | % | 0.43 | 96.0 | % | 0.43 | 0.45% |
| Al 308.215† | 4615.4 | 4.92289 | mg/L | 0.029089 | 4.92289 | mg/L | 0.029089 | 0.59% |
| QC value within limits for Al 308.215 Recovery = 98.46% | | | | | | | | |
| Ba 233.527† | 2322.4 | 0.487115 | mg/L | 0.0032337 | 0.487115 | mg/L | 0.0032337 | 0.66% |
| QC value within limits for Ba 233.527 Recovery = 97.42% | | | | | | | | |
| Ca 315.887† | 256490.2 | 48.6268 | mg/L | 0.10157 | 48.6268 | mg/L | 0.10157 | 0.21% |
| QC value within limits for Ca 315.887 Recovery = 97.25% | | | | | | | | |
| Cu 327.393† | 2432.8 | 0.516352 | mg/L | 0.0055682 | 0.516352 | mg/L | 0.0055682 | 1.08% |
| QC value within limits for Cu 327.393 Recovery = 103.27% | | | | | | | | |
| Fe 273.955† | 5735.9 | 4.86853 | mg/L | 0.036318 | 4.86853 | mg/L | 0.036318 | 0.75% |
| QC value within limits for Fe 273.955 Recovery = 97.37% | | | | | | | | |
| K 766.490† | 93047.3 | 48.5344 | mg/L | 0.07692 | 48.5344 | mg/L | 0.07692 | 0.16% |
| QC value within limits for K 766.490 Recovery = 97.07% | | | | | | | | |
| Mg 279.077† | 32141.9 | 48.6942 | mg/L | 0.39141 | 48.6942 | mg/L | 0.39141 | 0.80% |
| QC value within limits for Mg 279.077 Recovery = 97.39% | | | | | | | | |
| Mn 257.610† | 14519.4 | 0.493200 | mg/L | 0.0038493 | 0.493200 | mg/L | 0.0038493 | 0.78% |
| QC value within limits for Mn 257.610 Recovery = 98.64% | | | | | | | | |
| Mo 202.031† | 692.5 | 0.485188 | mg/L | 0.0051369 | 0.485188 | mg/L | 0.0051369 | 1.06% |
| QC value within limits for Mo 202.031 Recovery = 97.04% | | | | | | | | |
| Na 589.592† | 483161.1 | 49.2211 | mg/L | 0.11962 | 49.2211 | mg/L | 0.11962 | 0.24% |
| QC value within limits for Na 589.592 Recovery = 98.44% | | | | | | | | |
| Ni 231.604† | 948.8 | 0.490045 | mg/L | 0.0072386 | 0.490045 | mg/L | 0.0072386 | 1.48% |
| QC value within limits for Ni 231.604 Recovery = 98.01% | | | | | | | | |
| Se 196.026† | 141.0 | 0.505999 | mg/L | 0.0210556 | 0.505999 | mg/L | 0.0210556 | 4.16% |
| QC value within limits for Se 196.026 Recovery = 101.20% | | | | | | | | |
| Sn 189.927† | 154.1 | 0.485618 | mg/L | 0.0068408 | 0.485618 | mg/L | 0.0068408 | 1.41% |
| QC value within limits for Sn 189.927 Recovery = 97.12% | | | | | | | | |
| Ti 334.940† | 22183.3 | 0.494269 | mg/L | 0.0031193 | 0.494269 | mg/L | 0.0031193 | 0.63% |
| QC value within limits for Ti 334.940 Recovery = 98.85% | | | | | | | | |
| V 290.880† | 4139.5 | 0.469540 | mg/L | 0.0078460 | 0.469540 | mg/L | 0.0078460 | 1.67% |
| QC value within limits for V 290.880 Recovery = 93.91% | | | | | | | | |
| Zn 206.200† | 1816.3 | 0.485877 | mg/L | 0.0020426 | 0.485877 | mg/L | 0.0020426 | 0.42% |
| QC value within limits for Zn 206.200 Recovery = 97.18% | | | | | | | | |
| Si 251.611† | 13349.5 | 4.83549 | mg/L | 0.039262 | 4.83549 | mg/L | 0.039262 | 0.81% |
| QC value within limits for Si 251.611 Recovery = 96.71% | | | | | | | | |
| B 249.772† | 3408.5 | 0.461957 | mg/L | 0.0031141 | 0.461957 | mg/L | 0.0031141 | 0.67% |
| QC value within limits for B 249.772 Recovery = 92.39% | | | | | | | | |
| Ce 413.764† | 2173.0 | 0.470988 | mg/L | 0.0030870 | 0.470988 | mg/L | 0.0030870 | 0.66% |
| QC value within limits for Ce 413.764 Recovery = 94.20% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)

Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 49
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75

Autosampler Location: 2
Date Collected: 9/29/2021 6:25:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90764.0 | 97.0 | % | 0.19 | 97.0 | % | 0.19 | 0.19% |
| Y 371.029 | 35678.4 | 97.6 | % | 0.12 | 97.6 | % | 0.12 | 0.12% |
| Al 308.215† | -7.1 | 0.0092871 | mg/L | 0.00756686 | 0.0092871 | mg/L | 0.00756686 | 81.48% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 4.2 | 0.0010205 | mg/L | 0.00043396 | 0.0010205 | mg/L | 0.00043396 | 42.52% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -9.5 | -0.0630550 | mg/L | 0.00708506 | -0.0630550 | mg/L | 0.00708506 | 11.24% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 23.8 | -0.0021298 | mg/L | 0.00109841 | -0.0021298 | mg/L | 0.00109841 | 51.57% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | 6.2 | -0.0074394 | mg/L | 0.00989402 | -0.0074394 | mg/L | 0.00989402 | 132.99% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -1.8 | 0.256222 | mg/L | 0.0096277 | 0.256222 | mg/L | 0.0096277 | 3.76% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | -2.6 | -0.118941 | mg/L | 0.0132508 | -0.118941 | mg/L | 0.0132508 | 11.14% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 0.3 | -0.0012561 | mg/L | 0.00025259 | -0.0012561 | mg/L | 0.00025259 | 20.11% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -3.1 | 0.0011453 | mg/L | 0.00373151 | 0.0011453 | mg/L | 0.00373151 | 325.80% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 2039.3 | 0.232225 | mg/L | 0.0075403 | 0.232225 | mg/L | 0.0075403 | 3.25% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 0.4 | -0.0007888 | mg/L | 0.00157818 | -0.0007888 | mg/L | 0.00157818 | 200.08% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 4.3 | 0.0106670 | mg/L | 0.00827962 | 0.0106670 | mg/L | 0.00827962 | 77.62% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.4 | -0.0088403 | mg/L | 0.00536756 | -0.0088403 | mg/L | 0.00536756 | 60.72% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 24.5 | 0.0001730 | mg/L | 0.00018670 | 0.0001730 | mg/L | 0.00018670 | 107.90% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | 1.6 | 0.0006600 | mg/L | 0.00057617 | 0.0006600 | mg/L | 0.00057617 | 87.31% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | -4.1 | -0.0017602 | mg/L | 0.00141326 | -0.0017602 | mg/L | 0.00141326 | 80.29% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 4.4 | -0.0421881 | mg/L | 0.00097299 | -0.0421881 | mg/L | 0.00097299 | 2.31% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 5.5 | -0.0014069 | mg/L | 0.00107010 | -0.0014069 | mg/L | 0.00107010 | 76.06% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -48.7 | -0.0149560 | mg/L | 0.01425048 | -0.0149560 | mg/L | 0.01425048 | 95.28% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 50
Autosampler Location: 113
Sample ID: AD26083-040 5D
Date Collected: 9/29/2021 6:29:05 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-040 5D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92028.1 | 98.4 | % | 0.45 | 98.4 | % | 0.45 | 0.46% |
| Y 371.029 | 35898.5 | 98.2 | % | 0.51 | 98.2 | % | 0.51 | 0.52% |
| Al 308.215† | 25.1 | 0.0450880 | mg/L | 0.01278139 | 0.0450880 | mg/L | 0.01278139 | 28.35% |
| Ba 233.527† | 1080.8 | 0.227440 | mg/L | 0.0010167 | 0.227440 | mg/L | 0.0010167 | 0.45% |
| Ca 315.887† | 50938.9 | 9.60819 | mg/L | 0.009265 | 9.60819 | mg/L | 0.009265 | 0.10% |
| Cu 327.393† | 24.4 | 0.0024971 | mg/L | 0.00310500 | 0.0024971 | mg/L | 0.00310500 | 124.34% |
| Fe 273.955† | 1270.0 | 1.06806 | mg/L | 0.011737 | 1.06806 | mg/L | 0.011737 | 1.10% |
| K 766.490† | 19842.6 | 10.5524 | mg/L | 0.03192 | 10.5524 | mg/L | 0.03192 | 0.30% |
| Mg 279.077† | 9622.9 | 14.4979 | mg/L | 0.04330 | 14.4979 | mg/L | 0.04330 | 0.30% |
| Mn 257.610† | 1563.2 | 0.0537311 | mg/L | 0.00037370 | 0.0537311 | mg/L | 0.00037370 | 0.70% |
| Mo 202.031† | -4.3 | 0.0003234 | mg/L | 0.00302555 | 0.0003234 | mg/L | 0.00302555 | 935.61% |
| Na 589.592† | 1268181.5 | 129.154 | mg/L | 1.2649 | 129.154 | mg/L | 1.2649 | 0.98% |
| Ni 231.604† | 1.5 | 0.0001730 | mg/L | 0.00120097 | 0.0001730 | mg/L | 0.00120097 | 694.26% |
| Se 196.026† | 0.5 | -0.0022524 | mg/L | 0.00756903 | -0.0022524 | mg/L | 0.00756903 | 336.05% |
| Sn 189.927† | -6.9 | -0.0193791 | mg/L | 0.00595170 | -0.0193791 | mg/L | 0.00595170 | 30.71% |
| Ti 334.940† | -14.8 | 0.0008828 | mg/L | 0.00053714 | 0.0008828 | mg/L | 0.00053714 | 60.85% |
| V 290.880† | 164.4 | 0.0139991 | mg/L | 0.00105279 | 0.0139991 | mg/L | 0.00105279 | 7.52% |
| Zn 206.200† | 3.8 | 0.0003489 | mg/L | 0.00039952 | 0.0003489 | mg/L | 0.00039952 | 114.52% |
| Si 251.611† | 2289.0 | 0.792860 | mg/L | 0.0055091 | 0.792860 | mg/L | 0.0055091 | 0.69% |
| B 249.772† | 1280.5 | 0.175231 | mg/L | 0.0011701 | 0.175231 | mg/L | 0.0011701 | 0.67% |
| Ce 413.764† | -37.3 | -0.0124723 | mg/L | 0.01362157 | -0.0124723 | mg/L | 0.01362157 | 109.21% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 51
Sample ID: AD26083-040 MR 10D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 114
Date Collected: 9/29/2021 6:33:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-040 MR 10D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91918.9 | 98.2 | % | 0.16 | 98.2 | % | 0.16 | 0.16% |
| Y 371.029 | 35930.2 | 98.3 | % | 0.39 | 98.3 | % | 0.39 | 0.39% |
| Al 308.215† | 42.1 | 0.0630043 | mg/L | 0.01560974 | 0.0630043 | mg/L | 0.01560974 | 24.78% |
| Ba 233.527† | 1146.5 | 0.241233 | mg/L | 0.0012199 | 0.241233 | mg/L | 0.0012199 | 0.51% |
| Ca 315.887† | 54023.8 | 10.1938 | mg/L | 0.04007 | 10.1938 | mg/L | 0.04007 | 0.39% |
| Cu 327.393† | 34.2 | 0.0047848 | mg/L | 0.00173855 | 0.0047848 | mg/L | 0.00173855 | 36.33% |
| Fe 273.955† | 1370.3 | 1.15343 | mg/L | 0.004835 | 1.15343 | mg/L | 0.004835 | 0.42% |
| K 766.490† | 21081.4 | 11.1952 | mg/L | 0.06062 | 11.1952 | mg/L | 0.06062 | 0.54% |
| Mg 279.077† | 10266.9 | 15.4758 | mg/L | 0.09199 | 15.4758 | mg/L | 0.09199 | 0.59% |
| Mn 257.610† | 1666.0 | 0.0573525 | mg/L | 0.00005540 | 0.0573525 | mg/L | 0.00005540 | 0.10% |
| Mo 202.031† | -2.8 | 0.0013207 | mg/L | 0.00092941 | 0.0013207 | mg/L | 0.00092941 | 70.37% |
| Na 589.592† | 1345957.9 | 137.073 | mg/L | 0.6392 | 137.073 | mg/L | 0.6392 | 0.47% |
| Ni 231.604† | 1.6 | 0.0002793 | mg/L | 0.00211590 | 0.0002793 | mg/L | 0.00211590 | 757.67% |
| Se 196.026† | 4.9 | 0.0136313 | mg/L | 0.00285107 | 0.0136313 | mg/L | 0.00285107 | 20.92% |
| Sn 189.927† | -6.2 | -0.0173033 | mg/L | 0.00635510 | -0.0173033 | mg/L | 0.00635510 | 36.73% |
| Ti 334.940† | 37.6 | 0.0021271 | mg/L | 0.00017680 | 0.0021271 | mg/L | 0.00017680 | 8.31% |
| V 290.880† | 164.4 | 0.0136007 | mg/L | 0.00185061 | 0.0136007 | mg/L | 0.00185061 | 13.61% |
| Zn 206.200† | 0.5 | -0.0005356 | mg/L | 0.00200836 | -0.0005356 | mg/L | 0.00200836 | 374.95% |
| Si 251.611† | 2704.9 | 0.944865 | mg/L | 0.0077649 | 0.944865 | mg/L | 0.0077649 | 0.82% |
| B 249.772† | 1358.8 | 0.186008 | mg/L | 0.0003996 | 0.186008 | mg/L | 0.0003996 | 0.21% |
| Ce 413.764† | -61.7 | -0.0178085 | mg/L | 0.00469517 | -0.0178085 | mg/L | 0.00469517 | 26.36% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 52
Autosampler Location: 115
Sample ID: AD26083-042 MS 1 10D
Date Collected: 9/29/2021 6:37:22 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-042 MS 1 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91888.0 | 98.2 | % | 0.20 | 98.2 | % | 0.20 | 0.21% |
| Y 371.029 | 35854.0 | 98.1 | % | 0.32 | 98.1 | % | 0.32 | 0.33% |
| Al 308.215† | 473.7 | 0.522142 | mg/L | 0.0143824 | 0.522142 | mg/L | 0.0143824 | 2.75% |
| Ba 233.527† | 1333.3 | 0.280400 | mg/L | 0.0013230 | 0.280400 | mg/L | 0.0013230 | 0.47% |
| Ca 315.887† | 77723.2 | 14.6925 | mg/L | 0.00509 | 14.6925 | mg/L | 0.00509 | 0.03% |
| Cu 327.393† | 275.6 | 0.0565598 | mg/L | 0.00374062 | 0.0565598 | mg/L | 0.00374062 | 6.61% |
| Fe 273.955† | 1849.7 | 1.56135 | mg/L | 0.004705 | 1.56135 | mg/L | 0.004705 | 0.30% |
| K 766.490† | 29824.2 | 15.7313 | mg/L | 0.02283 | 15.7313 | mg/L | 0.02283 | 0.15% |
| Mg 279.077† | 13147.4 | 19.8501 | mg/L | 0.10605 | 19.8501 | mg/L | 0.10605 | 0.53% |
| Mn 257.610† | 3093.6 | 0.105890 | mg/L | 0.0005061 | 0.105890 | mg/L | 0.0005061 | 0.48% |
| Mo 202.031† | 62.7 | 0.0468989 | mg/L | 0.00309324 | 0.0468989 | mg/L | 0.00309324 | 6.60% |
| Na 589.592† | 1352827.5 | 137.773 | mg/L | 0.3163 | 137.773 | mg/L | 0.3163 | 0.23% |
| Ni 231.604† | 97.3 | 0.0497875 | mg/L | 0.00480787 | 0.0497875 | mg/L | 0.00480787 | 9.66% |
| Se 196.026† | 10.1 | 0.0330212 | mg/L | 0.00947310 | 0.0330212 | mg/L | 0.00947310 | 28.69% |
| Sn 189.927† | 10.5 | 0.0354915 | mg/L | 0.00692938 | 0.0354915 | mg/L | 0.00692938 | 19.52% |
| Ti 334.940† | 2283.1 | 0.0521266 | mg/L | 0.00261102 | 0.0521266 | mg/L | 0.00261102 | 5.01% |
| V 290.880† | 592.1 | 0.0623463 | mg/L | 0.00277212 | 0.0623463 | mg/L | 0.00277212 | 4.45% |
| Zn 206.200† | 184.1 | 0.0486351 | mg/L | 0.00226770 | 0.0486351 | mg/L | 0.00226770 | 4.66% |
| Si 251.611† | 2764.5 | 0.966656 | mg/L | 0.0140235 | 0.966656 | mg/L | 0.0140235 | 1.45% |
| B 249.772† | 1650.9 | 0.225819 | mg/L | 0.0017331 | 0.225819 | mg/L | 0.0017331 | 0.77% |
| Ce 413.764† | 217.4 | 0.0432510 | mg/L | 0.00941075 | 0.0432510 | mg/L | 0.00941075 | 21.76% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 53
Autosampler Location: 116
Sample ID: AD26083-044 MS 2 10D
Date Collected: 9/29/2021 6:41:31 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-044 MS 2 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91855.4 | 98.2 | % | 0.89 | 98.2 | % | 0.89 | 0.91% |
| Y 371.029 | 35820.5 | 98.0 | % | 0.83 | 98.0 | % | 0.83 | 0.85% |
| Al 308.215† | 470.7 | 0.518457 | mg/L | 0.0084519 | 0.518457 | mg/L | 0.0084519 | 1.63% |
| Ba 233.527† | 1358.2 | 0.285638 | mg/L | 0.0030220 | 0.285638 | mg/L | 0.0030220 | 1.06% |
| Ca 315.887† | 78581.9 | 14.8555 | mg/L | 0.11860 | 14.8555 | mg/L | 0.11860 | 0.80% |
| Cu 327.393† | 276.3 | 0.0567783 | mg/L | 0.00659805 | 0.0567783 | mg/L | 0.00659805 | 11.62% |
| Fe 273.955† | 1877.0 | 1.58460 | mg/L | 0.031938 | 1.58460 | mg/L | 0.031938 | 2.02% |
| K 766.490† | 30156.7 | 15.9039 | mg/L | 0.11769 | 15.9039 | mg/L | 0.11769 | 0.74% |
| Mg 279.077† | 13330.5 | 20.1281 | mg/L | 0.16392 | 20.1281 | mg/L | 0.16392 | 0.81% |
| Mn 257.610† | 3121.8 | 0.106885 | mg/L | 0.0009985 | 0.106885 | mg/L | 0.0009985 | 0.93% |
| Mo 202.031† | 64.9 | 0.0484721 | mg/L | 0.00049538 | 0.0484721 | mg/L | 0.00049538 | 1.02% |
| Na 589.592† | 1379723.5 | 140.511 | mg/L | 2.0525 | 140.511 | mg/L | 2.0525 | 1.46% |
| Ni 231.604† | 98.0 | 0.0501291 | mg/L | 0.00373155 | 0.0501291 | mg/L | 0.00373155 | 7.44% |
| Se 196.026† | 13.9 | 0.0463527 | mg/L | 0.01353872 | 0.0463527 | mg/L | 0.01353872 | 29.21% |
| Sn 189.927† | 8.0 | 0.0279391 | mg/L | 0.01365045 | 0.0279391 | mg/L | 0.01365045 | 48.86% |
| Ti 334.940† | 2208.4 | 0.0505156 | mg/L | 0.00114735 | 0.0505156 | mg/L | 0.00114735 | 2.27% |
| V 290.880† | 545.8 | 0.0567627 | mg/L | 0.00234337 | 0.0567627 | mg/L | 0.00234337 | 4.13% |
| Zn 206.200† | 187.6 | 0.0495811 | mg/L | 0.00203046 | 0.0495811 | mg/L | 0.00203046 | 4.10% |
| Si 251.611† | 2796.2 | 0.978252 | mg/L | 0.0243984 | 0.978252 | mg/L | 0.0243984 | 2.49% |
| B 249.772† | 1690.1 | 0.231286 | mg/L | 0.0036743 | 0.231286 | mg/L | 0.0036743 | 1.59% |
| Ce 413.764† | 188.6 | 0.0369469 | mg/L | 0.00613171 | 0.0369469 | mg/L | 0.00613171 | 16.60% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 54
Autosampler Location: 117
Sample ID: AD26083-040 PS 10D
Date Collected: 9/29/2021 6:45:41 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-040 PS 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89533.2 | 95.7 | % | 0.53 | 95.7 | % | 0.53 | 0.56% |
| Y 371.029 | 34632.6 | 94.8 | % | 0.65 | 94.8 | % | 0.65 | 0.69% |
| Al 308.215† | 5198.4 | 5.54510 | mg/L | 0.220137 | 5.54510 | mg/L | 0.220137 | 3.97% |
| Ba 233.527† | 3720.0 | 0.780881 | mg/L | 0.0265679 | 0.780881 | mg/L | 0.0265679 | 3.40% |
| Ca 315.887† | 371314.7 | 70.4233 | mg/L | 8.36518 | 70.4233 | mg/L | 8.36518 | 11.88% |
| Cu 327.393† | 2800.1 | 0.602097 | mg/L | 0.0176295 | 0.602097 | mg/L | 0.0176295 | 2.93% |
| Fe 273.955† | 7710.2 | 6.54863 | mg/L | 0.233623 | 6.54863 | mg/L | 0.233623 | 3.57% |
| K 766.490† | 139900.4 | 72.8440 | mg/L | 8.42558 | 72.8440 | mg/L | 8.42558 | 11.57% |
| Mg 279.077† | 48595.3 | 73.6797 | mg/L | 7.40984 | 73.6797 | mg/L | 7.40984 | 10.06% |
| Mn 257.610† | 17830.2 | 0.608558 | mg/L | 0.0201783 | 0.608558 | mg/L | 0.0201783 | 3.32% |
| Mo 202.031† | 778.5 | 0.545028 | mg/L | 0.0157220 | 0.545028 | mg/L | 0.0157220 | 2.88% |
| Na 589.592† | 1930242.5 | 196.566 | mg/L | 13.3781 | 196.566 | mg/L | 13.3781 | 6.81% |
| Ni 231.604† | 1062.2 | 0.549143 | mg/L | 0.0166276 | 0.549143 | mg/L | 0.0166276 | 3.03% |
| Se 196.026† | 147.6 | 0.531362 | mg/L | 0.0207042 | 0.531362 | mg/L | 0.0207042 | 3.90% |
| Sn 189.927† | 163.4 | 0.520655 | mg/L | 0.0634165 | 0.520655 | mg/L | 0.0634165 | 12.18% |
| Ti 334.940† | 24882.8 | 0.557041 | mg/L | 0.0199114 | 0.557041 | mg/L | 0.0199114 | 3.57% |
| V 290.880† | 4851.9 | 0.543594 | mg/L | 0.0233066 | 0.543594 | mg/L | 0.0233066 | 4.29% |
| Zn 206.200† | 2030.0 | 0.543125 | mg/L | 0.0213542 | 0.543125 | mg/L | 0.0213542 | 3.93% |
| Si 251.611† | 4188.3 | 1.48703 | mg/L | 0.045127 | 1.48703 | mg/L | 0.045127 | 3.03% |
| B 249.772† | 4788.2 | 0.651015 | mg/L | 0.0124845 | 0.651015 | mg/L | 0.0124845 | 1.92% |
| Ce 413.764† | 2289.1 | 0.496384 | mg/L | 0.0064596 | 0.496384 | mg/L | 0.0064596 | 1.30% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 55
Autosampler Location: 118
Sample ID: AD26083-040 SD 10D
Date Collected: 9/29/2021 6:49:52 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-040 SD 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 93335.0 | 99.8 | % | 0.80 | 99.8 | % | 0.80 | 0.80% |
| Y 371.029 | 35596.5 | 97.4 | % | 0.27 | 97.4 | % | 0.27 | 0.28% |
| Al 308.215† | 1.7 | 0.0189726 | mg/L | 0.00571042 | 0.0189726 | mg/L | 0.00571042 | 30.10% |
| Ba 233.527† | 217.1 | 0.0457833 | mg/L | 0.00084862 | 0.0457833 | mg/L | 0.00084862 | 1.85% |
| Ca 315.887† | 10150.8 | 1.86562 | mg/L | 0.025824 | 1.86562 | mg/L | 0.025824 | 1.38% |
| Cu 327.393† | 32.9 | 0.0006363 | mg/L | 0.00266461 | 0.0006363 | mg/L | 0.00266461 | 418.78% |
| Fe 273.955† | 267.2 | 0.214719 | mg/L | 0.0021991 | 0.214719 | mg/L | 0.0021991 | 1.02% |
| K 766.490† | 3778.9 | 2.21785 | mg/L | 0.009356 | 2.21785 | mg/L | 0.009356 | 0.42% |
| Mg 279.077† | 1908.5 | 2.78310 | mg/L | 0.008619 | 2.78310 | mg/L | 0.008619 | 0.31% |
| Mn 257.610† | 317.0 | 0.0098775 | mg/L | 0.00015644 | 0.0098775 | mg/L | 0.00015644 | 1.58% |
| Mo 202.031† | -1.9 | 0.0019477 | mg/L | 0.00026095 | 0.0019477 | mg/L | 0.00026095 | 13.40% |
| Na 589.592† | 259340.7 | 26.4312 | mg/L | 0.06481 | 26.4312 | mg/L | 0.06481 | 0.25% |
| Ni 231.604† | -8.3 | -0.0051602 | mg/L | 0.00156669 | -0.0051602 | mg/L | 0.00156669 | 30.36% |
| Se 196.026† | 2.8 | 0.0052180 | mg/L | 0.02017190 | 0.0052180 | mg/L | 0.02017190 | 386.59% |
| Sn 189.927† | -1.9 | -0.0067091 | mg/L | 0.00370724 | -0.0067091 | mg/L | 0.00370724 | 55.26% |
| Ti 334.940† | 23.6 | 0.0004677 | mg/L | 0.00051719 | 0.0004677 | mg/L | 0.00051719 | 110.59% |
| V 290.880† | 33.8 | 0.0033008 | mg/L | 0.00175376 | 0.0033008 | mg/L | 0.00175376 | 53.13% |
| Zn 206.200† | 3.4 | 0.0002337 | mg/L | 0.00069486 | 0.0002337 | mg/L | 0.00069486 | 297.35% |
| Si 251.611† | 471.6 | 0.128595 | mg/L | 0.0019360 | 0.128595 | mg/L | 0.0019360 | 1.51% |
| B 249.772† | 260.3 | 0.0338681 | mg/L | 0.00066106 | 0.0338681 | mg/L | 0.00066106 | 1.95% |
| Ce 413.764† | -61.7 | -0.0177994 | mg/L | 0.00991695 | -0.0177994 | mg/L | 0.00991695 | 55.72% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 56
Sample ID: AD26083-036 10D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 119
Date Collected: 9/29/2021 6:53:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-036 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 89532.7 | 95.7 | % | 1.14 | 95.7 | % | 1.14 | 1.19% |
| Y 371.029 | 34409.7 | 94.2 | % | 1.06 | 94.2 | % | 1.06 | 1.12% |
| Al 308.215† | 67.0 | 0.0916218 | mg/L | 0.00926942 | 0.0916218 | mg/L | 0.00926942 | 10.12% |
| Ba 233.527† | 29.7 | 0.0061418 | mg/L | 0.00015919 | 0.0061418 | mg/L | 0.00015919 | 2.59% |
| Ca 315.887† | 530614.5 | 100.662 | mg/L | 0.9994 | 100.662 | mg/L | 0.9994 | 0.99% |
| Cu 327.393† | -123.6 | 0.0143193 | mg/L | 0.00666024 | 0.0143193 | mg/L | 0.00666024 | 46.51% |
| Fe 273.955† | 528.7 | 0.437244 | mg/L | 0.0124142 | 0.437244 | mg/L | 0.0124142 | 2.84% |
| K 766.490† | 6345.9 | 3.54972 | mg/L | 0.015247 | 3.54972 | mg/L | 0.015247 | 0.43% |
| Mg 279.077† | 22600.9 | 34.2057 | mg/L | 0.04060 | 34.2057 | mg/L | 0.04060 | 0.12% |
| Mn 257.610† | 18805.0 | 0.633714 | mg/L | 0.0015468 | 0.633714 | mg/L | 0.0015468 | 0.24% |
| Mo 202.031† | -8.6 | -0.0026993 | mg/L | 0.00312887 | -0.0026993 | mg/L | 0.00312887 | 115.91% |
| Na 589.592† | 2497264.1 | 254.302 | mg/L | 1.8086 | 254.302 | mg/L | 1.8086 | 0.71% |
| Ni 231.604† | -13.4 | -0.0077403 | mg/L | 0.00373880 | -0.0077403 | mg/L | 0.00373880 | 48.30% |
| Se 196.026† | 3.1 | 0.0066873 | mg/L | 0.01540915 | 0.0066873 | mg/L | 0.01540915 | 230.43% |
| Sn 189.927† | -14.5 | -0.0300681 | mg/L | 0.00804683 | -0.0300681 | mg/L | 0.00804683 | 26.76% |
| Ti 334.940† | -522.4 | 0.0045463 | mg/L | 0.00413915 | 0.0045463 | mg/L | 0.00413915 | 91.05% |
| V 290.880† | 377.2 | 0.0311850 | mg/L | 0.00517317 | 0.0311850 | mg/L | 0.00517317 | 16.59% |
| Zn 206.200† | 16.3 | 0.0036942 | mg/L | 0.00057760 | 0.0036942 | mg/L | 0.00057760 | 15.64% |
| Si 251.611† | 2648.7 | 0.924319 | mg/L | 0.0030083 | 0.924319 | mg/L | 0.0030083 | 0.33% |
| B 249.772† | 329.2 | 0.0427399 | mg/L | 0.00123010 | 0.0427399 | mg/L | 0.00123010 | 2.88% |
| Ce 413.764† | -19.2 | -0.0085026 | mg/L | 0.00439697 | -0.0085026 | mg/L | 0.00439697 | 51.71% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 57
Sample ID: CCV V-352960
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 6
Date Collected: 9/29/2021 6:58:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91406.9 | 97.7 | % | 0.37 | 97.7 | % | 0.37 | 0.38% |
| Y 371.029 | 34636.8 | 94.8 | % | 0.92 | 94.8 | % | 0.92 | 0.97% |
| Al 308.215† | 4646.2 | 4.95540 | mg/L | 0.069016 | 4.95540 | mg/L | 0.069016 | 1.39% |
| QC value within limits for Al 308.215 Recovery = 99.11% | | | | | | | | |
| Ba 233.527† | 2326.8 | 0.488051 | mg/L | 0.0013005 | 0.488051 | mg/L | 0.0013005 | 0.27% |
| QC value within limits for Ba 233.527 Recovery = 97.61% | | | | | | | | |
| Ca 315.887† | 255298.1 | 48.4005 | mg/L | 0.07524 | 48.4005 | mg/L | 0.07524 | 0.16% |
| QC value within limits for Ca 315.887 Recovery = 96.80% | | | | | | | | |
| Cu 327.393† | 2442.2 | 0.518184 | mg/L | 0.0073459 | 0.518184 | mg/L | 0.0073459 | 1.42% |
| QC value within limits for Cu 327.393 Recovery = 103.64% | | | | | | | | |
| Fe 273.955† | 5729.4 | 4.86295 | mg/L | 0.079982 | 4.86295 | mg/L | 0.079982 | 1.64% |
| QC value within limits for Fe 273.955 Recovery = 97.26% | | | | | | | | |
| K 766.490† | 92720.5 | 48.3649 | mg/L | 0.06562 | 48.3649 | mg/L | 0.06562 | 0.14% |
| QC value within limits for K 766.490 Recovery = 96.73% | | | | | | | | |
| Mg 279.077† | 32192.4 | 48.7709 | mg/L | 0.59460 | 48.7709 | mg/L | 0.59460 | 1.22% |
| QC value within limits for Mg 279.077 Recovery = 97.54% | | | | | | | | |
| Mn 257.610† | 14563.4 | 0.494687 | mg/L | 0.0065762 | 0.494687 | mg/L | 0.0065762 | 1.33% |
| QC value within limits for Mn 257.610 Recovery = 98.94% | | | | | | | | |
| Mo 202.031† | 692.1 | 0.484884 | mg/L | 0.0020314 | 0.484884 | mg/L | 0.0020314 | 0.42% |
| QC value within limits for Mo 202.031 Recovery = 96.98% | | | | | | | | |
| Na 589.592† | 481054.3 | 49.0066 | mg/L | 0.06938 | 49.0066 | mg/L | 0.06938 | 0.14% |
| QC value within limits for Na 589.592 Recovery = 98.01% | | | | | | | | |
| Ni 231.604† | 949.8 | 0.490570 | mg/L | 0.0075572 | 0.490570 | mg/L | 0.0075572 | 1.54% |
| QC value within limits for Ni 231.604 Recovery = 98.11% | | | | | | | | |
| Se 196.026† | 132.2 | 0.474644 | mg/L | 0.0229046 | 0.474644 | mg/L | 0.0229046 | 4.83% |
| QC value within limits for Se 196.026 Recovery = 94.93% | | | | | | | | |
| Sn 189.927† | 153.9 | 0.485154 | mg/L | 0.0073886 | 0.485154 | mg/L | 0.0073886 | 1.52% |
| QC value within limits for Sn 189.927 Recovery = 97.03% | | | | | | | | |
| Ti 334.940† | 22174.8 | 0.494046 | mg/L | 0.0057476 | 0.494046 | mg/L | 0.0057476 | 1.16% |
| QC value within limits for Ti 334.940 Recovery = 98.81% | | | | | | | | |
| V 290.880† | 4134.9 | 0.468971 | mg/L | 0.0051312 | 0.468971 | mg/L | 0.0051312 | 1.09% |
| QC value within limits for V 290.880 Recovery = 93.79% | | | | | | | | |
| Zn 206.200† | 1818.3 | 0.486417 | mg/L | 0.0011975 | 0.486417 | mg/L | 0.0011975 | 0.25% |
| QC value within limits for Zn 206.200 Recovery = 97.28% | | | | | | | | |
| Si 251.611† | 13437.0 | 4.86745 | mg/L | 0.070860 | 4.86745 | mg/L | 0.070860 | 1.46% |
| QC value within limits for Si 251.611 Recovery = 97.35% | | | | | | | | |
| B 249.772† | 3449.2 | 0.467758 | mg/L | 0.0088912 | 0.467758 | mg/L | 0.0088912 | 1.90% |
| QC value within limits for B 249.772 Recovery = 93.55% | | | | | | | | |
| Ce 413.764† | 2174.2 | 0.471250 | mg/L | 0.0059283 | 0.471250 | mg/L | 0.0059283 | 1.26% |
| QC value within limits for Ce 413.764 Recovery = 94.25% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 58
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 2
Date Collected: 9/29/2021 7:02:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 91147.1 | 97.4 | % | 0.46 | 97.4 | % | 0.46 | 0.48% |
| Y 371.029 | 35881.3 | 98.2 | % | 0.37 | 98.2 | % | 0.37 | 0.38% |
| Al 308.215† | 4.2 | 0.0211537 | mg/L | 0.00306820 | 0.0211537 | mg/L | 0.00306820 | 14.50% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 4.6 | 0.0011110 | mg/L | 0.00053446 | 0.0011110 | mg/L | 0.00053446 | 48.11% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | 7.7 | -0.0597959 | mg/L | 0.00748252 | -0.0597959 | mg/L | 0.00748252 | 12.51% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 51.8 | 0.0036306 | mg/L | 0.00285876 | 0.0036306 | mg/L | 0.00285876 | 78.74% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -4.5 | -0.0165156 | mg/L | 0.00568182 | -0.0165156 | mg/L | 0.00568182 | 34.40% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -56.8 | 0.227712 | mg/L | 0.0190542 | 0.227712 | mg/L | 0.0190542 | 8.37% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 3.5 | -0.109710 | mg/L | 0.0072014 | -0.109710 | mg/L | 0.0072014 | 6.56% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -12.2 | -0.0016721 | mg/L | 0.00007646 | -0.0016721 | mg/L | 0.00007646 | 4.57% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -0.2 | 0.0031840 | mg/L | 0.00035582 | 0.0031840 | mg/L | 0.00035582 | 11.18% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 765.9 | 0.102567 | mg/L | 0.0038675 | 0.102567 | mg/L | 0.0038675 | 3.77% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -4.9 | -0.0034925 | mg/L | 0.00438573 | -0.0034925 | mg/L | 0.00438573 | 125.58% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 1.4 | 0.0000531 | mg/L | 0.00616803 | 0.0000531 | mg/L | 0.00616803 | >999.9% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 2.2 | 0.0053010 | mg/L | 0.00503120 | 0.0053010 | mg/L | 0.00503120 | 94.91% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 19.8 | 0.0000719 | mg/L | 0.00008643 | 0.0000719 | mg/L | 0.00008643 | 120.27% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -1.8 | 0.0002566 | mg/L | 0.00111584 | 0.0002566 | mg/L | 0.00111584 | 434.90% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 0.1 | -0.0006501 | mg/L | 0.00171296 | -0.0006501 | mg/L | 0.00171296 | 263.50% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 13.1 | -0.0390082 | mg/L | 0.00154247 | -0.0390082 | mg/L | 0.00154247 | 3.95% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 10.5 | -0.0006706 | mg/L | 0.00053004 | -0.0006706 | mg/L | 0.00053004 | 79.04% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -50.9 | -0.0154329 | mg/L | 0.01485600 | -0.0154329 | mg/L | 0.01485600 | 96.26% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 59
Sample ID: AD26083-041 10D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 120
Date Collected: 9/29/2021 7:06:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 10D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90922.0 | 97.2 | % | 0.34 | 97.2 | % | 0.34 | 0.35% |
| Y 371.029 | 35581.0 | 97.4 | % | 0.52 | 97.4 | % | 0.52 | 0.53% |
| Al 308.215† | -7.0 | 0.0106261 | mg/L | 0.01219278 | 0.0106261 | mg/L | 0.01219278 | 114.74% |
| Ba 233.527† | 819.8 | 0.172560 | mg/L | 0.0015607 | 0.172560 | mg/L | 0.0015607 | 0.90% |
| Ca 315.887† | 39034.4 | 7.34843 | mg/L | 0.145227 | 7.34843 | mg/L | 0.145227 | 1.98% |
| Cu 327.393† | 35.3 | 0.0036798 | mg/L | 0.00302723 | 0.0036798 | mg/L | 0.00302723 | 82.27% |
| Fe 273.955† | 942.5 | 0.789394 | mg/L | 0.0152377 | 0.789394 | mg/L | 0.0152377 | 1.93% |
| K 766.490† | 15088.4 | 8.08572 | mg/L | 0.144536 | 8.08572 | mg/L | 0.144536 | 1.79% |
| Mg 279.077† | 7395.4 | 11.1154 | mg/L | 0.19585 | 11.1154 | mg/L | 0.19585 | 1.76% |
| Mn 257.610† | 1177.8 | 0.0402133 | mg/L | 0.00035726 | 0.0402133 | mg/L | 0.00035726 | 0.89% |
| Mo 202.031† | -1.9 | 0.0019914 | mg/L | 0.00090893 | 0.0019914 | mg/L | 0.00090893 | 45.64% |
| Na 589.592† | 970290.4 | 98.8218 | mg/L | 2.79502 | 98.8218 | mg/L | 2.79502 | 2.83% |
| Ni 231.604† | 2.7 | 0.0007312 | mg/L | 0.00379412 | 0.0007312 | mg/L | 0.00379412 | 518.88% |
| Se 196.026† | 4.7 | 0.0127994 | mg/L | 0.01004402 | 0.0127994 | mg/L | 0.01004402 | 78.47% |
| Sn 189.927† | -6.5 | -0.0190293 | mg/L | 0.00617710 | -0.0190293 | mg/L | 0.00617710 | 32.46% |
| Ti 334.940† | -18.4 | 0.0004369 | mg/L | 0.00054917 | 0.0004369 | mg/L | 0.00054917 | 125.69% |
| V 290.880† | 120.5 | 0.0101743 | mg/L | 0.00064188 | 0.0101743 | mg/L | 0.00064188 | 6.31% |
| Zn 206.200† | -0.7 | -0.0008541 | mg/L | 0.00124396 | -0.0008541 | mg/L | 0.00124396 | 145.64% |
| Si 251.611† | 1710.7 | 0.581473 | mg/L | 0.0092279 | 0.581473 | mg/L | 0.0092279 | 1.59% |
| B 249.772† | 971.4 | 0.132475 | mg/L | 0.0014471 | 0.132475 | mg/L | 0.0014471 | 1.09% |
| Ce 413.764† | -29.9 | -0.0108380 | mg/L | 0.00497993 | -0.0108380 | mg/L | 0.00497993 | 45.95% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 60
Sample ID: AD26083-041 MR 10D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 121
Date Collected: 9/29/2021 7:10:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 MR 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90733.0 | 97.0 | % | 0.24 | 97.0 | % | 0.24 | 0.25% |
| Y 371.029 | 35429.9 | 96.9 | % | 0.29 | 96.9 | % | 0.29 | 0.29% |
| Al 308.215† | -3.6 | 0.0142956 | mg/L | 0.00416100 | 0.0142956 | mg/L | 0.00416100 | 29.11% |
| Ba 233.527† | 892.4 | 0.187820 | mg/L | 0.0017193 | 0.187820 | mg/L | 0.0017193 | 0.92% |
| Ca 315.887† | 42168.6 | 7.94337 | mg/L | 0.067591 | 7.94337 | mg/L | 0.067591 | 0.85% |
| Cu 327.393† | 23.4 | 0.0015064 | mg/L | 0.00195478 | 0.0015064 | mg/L | 0.00195478 | 129.76% |
| Fe 273.955† | 1029.0 | 0.862953 | mg/L | 0.0054667 | 0.862953 | mg/L | 0.0054667 | 0.63% |
| K 766.490† | 16365.1 | 8.74811 | mg/L | 0.039233 | 8.74811 | mg/L | 0.039233 | 0.45% |
| Mg 279.077† | 8010.2 | 12.0489 | mg/L | 0.11853 | 12.0489 | mg/L | 0.11853 | 0.98% |
| Mn 257.610† | 1293.2 | 0.0442453 | mg/L | 0.00038203 | 0.0442453 | mg/L | 0.00038203 | 0.86% |
| Mo 202.031† | -2.5 | 0.0015945 | mg/L | 0.00114180 | 0.0015945 | mg/L | 0.00114180 | 71.61% |
| Na 589.592† | 1061806.8 | 108.140 | mg/L | 1.0124 | 108.140 | mg/L | 1.0124 | 0.94% |
| Ni 231.604† | -2.4 | -0.0018750 | mg/L | 0.00178228 | -0.0018750 | mg/L | 0.00178228 | 95.06% |
| Se 196.026† | -0.6 | -0.0064076 | mg/L | 0.01594402 | -0.0064076 | mg/L | 0.01594402 | 248.83% |
| Sn 189.927† | -7.2 | -0.0209932 | mg/L | 0.01179905 | -0.0209932 | mg/L | 0.01179905 | 56.20% |
| Ti 334.940† | -35.0 | 0.0001688 | mg/L | 0.00080580 | 0.0001688 | mg/L | 0.00080580 | 477.35% |
| V 290.880† | 125.8 | 0.0104240 | mg/L | 0.00063410 | 0.0104240 | mg/L | 0.00063410 | 6.08% |
| Zn 206.200† | -0.3 | -0.0007421 | mg/L | 0.00118616 | -0.0007421 | mg/L | 0.00118616 | 159.84% |
| Si 251.611† | 1871.6 | 0.640291 | mg/L | 0.0052412 | 0.640291 | mg/L | 0.0052412 | 0.82% |
| B 249.772† | 1063.6 | 0.145267 | mg/L | 0.0022598 | 0.145267 | mg/L | 0.0022598 | 1.56% |
| Ce 413.764† | -28.8 | -0.0106080 | mg/L | 0.00985304 | -0.0106080 | mg/L | 0.00985304 | 92.88% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec
MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 61
Autosampler Location: 122
Sample ID: AD26083-043 MS 1 10D
Date Collected: 9/29/2021 7:14:27 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-043 MS 1 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90672.3 | 96.9 | % | 0.34 | 96.9 | % | 0.34 | 0.35% |
| Y 371.029 | 35405.5 | 96.9 | % | 0.41 | 96.9 | % | 0.41 | 0.43% |
| Al 308.215† | 460.4 | 0.507753 | mg/L | 0.0094687 | 0.507753 | mg/L | 0.0094687 | 1.86% |
| Ba 233.527† | 1087.1 | 0.228638 | mg/L | 0.0027066 | 0.228638 | mg/L | 0.0027066 | 1.18% |
| Ca 315.887† | 65935.6 | 12.4549 | mg/L | 0.15631 | 12.4549 | mg/L | 0.15631 | 1.26% |
| Cu 327.393† | 311.1 | 0.0628283 | mg/L | 0.00258642 | 0.0628283 | mg/L | 0.00258642 | 4.12% |
| Fe 273.955† | 1540.5 | 1.29827 | mg/L | 0.014222 | 1.29827 | mg/L | 0.014222 | 1.10% |
| K 766.490† | 25180.5 | 13.3220 | mg/L | 0.15558 | 13.3220 | mg/L | 0.15558 | 1.17% |
| Mg 279.077† | 10904.0 | 16.4433 | mg/L | 0.23304 | 16.4433 | mg/L | 0.23304 | 1.42% |
| Mn 257.610† | 2739.0 | 0.0933971 | mg/L | 0.00049308 | 0.0933971 | mg/L | 0.00049308 | 0.53% |
| Mo 202.031† | 66.8 | 0.0497529 | mg/L | 0.00035576 | 0.0497529 | mg/L | 0.00035576 | 0.72% |
| Na 589.592† | 1045604.9 | 106.490 | mg/L | 1.4186 | 106.490 | mg/L | 1.4186 | 1.33% |
| Ni 231.604† | 100.6 | 0.0514118 | mg/L | 0.00501561 | 0.0514118 | mg/L | 0.00501561 | 9.76% |
| Se 196.026† | 11.1 | 0.0360787 | mg/L | 0.01396875 | 0.0360787 | mg/L | 0.01396875 | 38.72% |
| Sn 189.927† | 11.1 | 0.0363708 | mg/L | 0.00402449 | 0.0363708 | mg/L | 0.00402449 | 11.07% |
| Ti 334.940† | 2252.4 | 0.0510902 | mg/L | 0.00074207 | 0.0510902 | mg/L | 0.00074207 | 1.45% |
| V 290.880† | 566.4 | 0.0606740 | mg/L | 0.00816574 | 0.0606740 | mg/L | 0.00816574 | 13.46% |
| Zn 206.200† | 192.9 | 0.0510110 | mg/L | 0.00219242 | 0.0510110 | mg/L | 0.00219242 | 4.30% |
| Si 251.611† | 1901.5 | 0.651213 | mg/L | 0.0105655 | 0.651213 | mg/L | 0.0105655 | 1.62% |
| B 249.772† | 1354.0 | 0.184741 | mg/L | 0.0022939 | 0.184741 | mg/L | 0.0022939 | 1.24% |
| Ce 413.764† | 198.1 | 0.0390241 | mg/L | 0.00146560 | 0.0390241 | mg/L | 0.00146560 | 3.76% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 62 Autosampler Location: 123
Sample ID: AD26083-045 MS 2 10D Date Collected: 9/29/2021 7:18:37 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: AD26083-045 MS 2 10D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90552.3 | 96.8 | % | 0.97 | 96.8 | % | 0.97 | 1.00% |
| Y 371.029 | 35263.9 | 96.5 | % | 0.78 | 96.5 | % | 0.78 | 0.81% |
| Al 308.215† | 461.3 | 0.508616 | mg/L | 0.0365063 | 0.508616 | mg/L | 0.0365063 | 7.18% |
| Ba 233.527† | 1101.9 | 0.231735 | mg/L | 0.0116280 | 0.231735 | mg/L | 0.0116280 | 5.02% |
| Ca 315.887† | 68059.8 | 12.8581 | mg/L | 0.88507 | 12.8581 | mg/L | 0.88507 | 6.88% |
| Cu 327.393† | 287.4 | 0.0581379 | mg/L | 0.00566604 | 0.0581379 | mg/L | 0.00566604 | 9.75% |
| Fe 273.955† | 1555.9 | 1.31135 | mg/L | 0.071024 | 1.31135 | mg/L | 0.071024 | 5.42% |
| K 766.490† | 26029.4 | 13.7624 | mg/L | 0.81078 | 13.7624 | mg/L | 0.81078 | 5.89% |
| Mg 279.077† | 11264.5 | 16.9907 | mg/L | 1.07777 | 16.9907 | mg/L | 1.07777 | 6.34% |
| Mn 257.610† | 2831.3 | 0.0965855 | mg/L | 0.00732389 | 0.0965855 | mg/L | 0.00732389 | 7.58% |
| Mo 202.031† | 73.3 | 0.0543143 | mg/L | 0.00436235 | 0.0543143 | mg/L | 0.00436235 | 8.03% |
| Na 589.592† | 1101171.8 | 112.148 | mg/L | 6.2553 | 112.148 | mg/L | 6.2553 | 5.58% |
| Ni 231.604† | 96.5 | 0.0493003 | mg/L | 0.00486229 | 0.0493003 | mg/L | 0.00486229 | 9.86% |
| Se 196.026† | 14.0 | 0.0467152 | mg/L | 0.01776173 | 0.0467152 | mg/L | 0.01776173 | 38.02% |
| Sn 189.927† | 10.7 | 0.0354582 | mg/L | 0.00081160 | 0.0354582 | mg/L | 0.00081160 | 2.29% |
| Ti 334.940† | 2319.9 | 0.0526372 | mg/L | 0.00375291 | 0.0526372 | mg/L | 0.00375291 | 7.13% |
| V 290.880† | 571.4 | 0.0610422 | mg/L | 0.00278173 | 0.0610422 | mg/L | 0.00278173 | 4.56% |
| Zn 206.200† | 193.4 | 0.0511394 | mg/L | 0.00290149 | 0.0511394 | mg/L | 0.00290149 | 5.67% |
| Si 251.611† | 1945.0 | 0.667135 | mg/L | 0.0334055 | 0.667135 | mg/L | 0.0334055 | 5.01% |
| B 249.772† | 1369.3 | 0.186862 | mg/L | 0.0088900 | 0.186862 | mg/L | 0.0088900 | 4.76% |
| Ce 413.764† | 226.2 | 0.0451719 | mg/L | 0.00897274 | 0.0451719 | mg/L | 0.00897274 | 19.86% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)

Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 63
Sample ID: AD26083-041 PS 10D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75

Autosampler Location: 124
Date Collected: 9/29/2021 7:22:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 PS 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Calib. Std.Dev. | Sample Conc. | Sample Units | Sample Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 88829.3 | 94.9 | % | 0.80 | 94.9 | % | 0.80 | 0.84% |
| Y 371.029 | 34176.8 | 93.5 | % | 0.96 | 93.5 | % | 0.96 | 1.03% |
| Al 308.215† | 5100.7 | 5.44071 | mg/L | 0.188642 | 5.44071 | mg/L | 0.188642 | 3.47% |
| Ba 233.527† | 3407.0 | 0.715097 | mg/L | 0.0263442 | 0.715097 | mg/L | 0.0263442 | 3.68% |
| Ca 315.887† | 349962.5 | 66.3702 | mg/L | 12.02631 | 66.3702 | mg/L | 12.02631 | 18.12% |
| Cu 327.393† | 2757.1 | 0.591347 | mg/L | 0.0262678 | 0.591347 | mg/L | 0.0262678 | 4.44% |
| Fe 273.955† | 7252.0 | 6.15869 | mg/L | 0.203582 | 6.15869 | mg/L | 0.203582 | 3.31% |
| K 766.490† | 134575.0 | 70.0810 | mg/L | 12.38582 | 70.0810 | mg/L | 12.38582 | 17.67% |
| Mg 279.077† | 45138.1 | 68.4296 | mg/L | 10.43828 | 68.4296 | mg/L | 10.43828 | 15.25% |
| Mn 257.610† | 17202.7 | 0.586599 | mg/L | 0.0208039 | 0.586599 | mg/L | 0.0208039 | 3.55% |
| Mo 202.031† | 757.0 | 0.530058 | mg/L | 0.0189077 | 0.530058 | mg/L | 0.0189077 | 3.57% |
| Na 589.592† | 1638231.1 | 166.833 | mg/L | 18.6358 | 166.833 | mg/L | 18.6358 | 11.17% |
| Ni 231.604† | 1033.9 | 0.534392 | mg/L | 0.0133880 | 0.534392 | mg/L | 0.0133880 | 2.51% |
| Se 196.026† | 140.8 | 0.506585 | mg/L | 0.0445563 | 0.506585 | mg/L | 0.0445563 | 8.80% |
| Sn 189.927† | 164.1 | 0.521479 | mg/L | 0.0137493 | 0.521479 | mg/L | 0.0137493 | 2.64% |
| Ti 334.940† | 24377.7 | 0.545298 | mg/L | 0.0193786 | 0.545298 | mg/L | 0.0193786 | 3.55% |
| V 290.880† | 4722.8 | 0.530465 | mg/L | 0.0191935 | 0.530465 | mg/L | 0.0191935 | 3.62% |
| Zn 206.200† | 1974.4 | 0.528228 | mg/L | 0.0197680 | 0.528228 | mg/L | 0.0197680 | 3.74% |
| Si 251.611† | 3536.4 | 1.24877 | mg/L | 0.062823 | 1.24877 | mg/L | 0.062823 | 5.03% |
| B 249.772† | 4476.4 | 0.608336 | mg/L | 0.0230819 | 0.608336 | mg/L | 0.0230819 | 3.79% |
| Ce 413.764† | 2292.0 | 0.497007 | mg/L | 0.0219046 | 0.497007 | mg/L | 0.0219046 | 4.41% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 64
Sample ID: AD26083-041 SD 10D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 125
Date Collected: 9/29/2021 7:26:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-041 SD 10D

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 92228.4 | 98.6 | % | 0.32 | 98.6 | % | 0.32 | 0.33% |
| Y 371.029 | 34893.5 | 95.5 | % | 0.39 | 95.5 | % | 0.39 | 0.41% |
| Al 308.215† | -8.0 | 0.0084113 | mg/L | 0.00701951 | 0.0084113 | mg/L | 0.00701951 | 83.45% |
| Ba 233.527† | 164.2 | 0.0346666 | mg/L | 0.00088382 | 0.0346666 | mg/L | 0.00088382 | 2.55% |
| Ca 315.887† | 7542.3 | 1.37046 | mg/L | 0.017545 | 1.37046 | mg/L | 0.017545 | 1.28% |
| Cu 327.393† | 48.8 | 0.0036884 | mg/L | 0.00318562 | 0.0036884 | mg/L | 0.00318562 | 86.37% |
| Fe 273.955† | 183.9 | 0.143819 | mg/L | 0.0069947 | 0.143819 | mg/L | 0.0069947 | 4.86% |
| K 766.490† | 2783.5 | 1.70135 | mg/L | 0.024021 | 1.70135 | mg/L | 0.024021 | 1.41% |
| Mg 279.077† | 1427.8 | 2.05315 | mg/L | 0.036986 | 2.05315 | mg/L | 0.036986 | 1.80% |
| Mn 257.610† | 235.7 | 0.0070220 | mg/L | 0.00015207 | 0.0070220 | mg/L | 0.00015207 | 2.17% |
| Mo 202.031† | -2.1 | 0.0018491 | mg/L | 0.00328838 | 0.0018491 | mg/L | 0.00328838 | 177.84% |
| Na 589.592† | 195928.0 | 19.9744 | mg/L | 0.05486 | 19.9744 | mg/L | 0.05486 | 0.27% |
| Ni 231.604† | -13.3 | -0.0077634 | mg/L | 0.00070072 | -0.0077634 | mg/L | 0.00070072 | 9.03% |
| Se 196.026† | -2.0 | -0.0119318 | mg/L | 0.02631677 | -0.0119318 | mg/L | 0.02631677 | 220.56% |
| Sn 189.927† | -1.8 | -0.0067543 | mg/L | 0.00865324 | -0.0067543 | mg/L | 0.00865324 | 128.11% |
| Ti 334.940† | -0.8 | -0.0001486 | mg/L | 0.00054637 | -0.0001486 | mg/L | 0.00054637 | 367.74% |
| V 290.880† | 18.5 | 0.0017857 | mg/L | 0.00073700 | 0.0017857 | mg/L | 0.00073700 | 41.27% |
| Zn 206.200† | -1.8 | -0.0011477 | mg/L | 0.00089630 | -0.0011477 | mg/L | 0.00089630 | 78.09% |
| Si 251.611† | 343.6 | 0.0818088 | mg/L | 0.00359299 | 0.0818088 | mg/L | 0.00359299 | 4.39% |
| B 249.772† | 198.2 | 0.0253253 | mg/L | 0.00081093 | 0.0253253 | mg/L | 0.00081093 | 3.20% |
| Ce 413.764† | -10.7 | -0.0066452 | mg/L | 0.00626304 | -0.0066452 | mg/L | 0.00626304 | 94.25% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 65
Sample ID: AD26083-037 10D
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 126
Date Collected: 9/29/2021 7:31:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD26083-037 10D

| Analyte | Mean Corrected Intensity | Conc. | Calib. Units | Std.Dev. | Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 88263.9 | 94.3 | % | 0.75 | 94.3 | % | 0.75 | 0.80% |
| Y 371.029 | 33964.2 | 92.9 | % | 0.67 | 92.9 | % | 0.67 | 0.72% |
| Al 308.215† | -7.7 | 0.0118788 | mg/L | 0.00895304 | 0.0118788 | mg/L | 0.00895304 | 75.37% |
| Ba 233.527† | 24.9 | 0.0052756 | mg/L | 0.00046729 | 0.0052756 | mg/L | 0.00046729 | 8.86% |
| Ca 315.887† | 417330.3 | 79.1582 | mg/L | 0.40422 | 79.1582 | mg/L | 0.40422 | 0.51% |
| Cu 327.393† | -98.6 | 0.0094840 | mg/L | 0.00492641 | 0.0094840 | mg/L | 0.00492641 | 51.94% |
| Fe 273.955† | 243.5 | 0.194571 | mg/L | 0.0054739 | 0.194571 | mg/L | 0.0054739 | 2.81% |
| K 766.490† | 4968.6 | 2.83513 | mg/L | 0.011463 | 2.83513 | mg/L | 0.011463 | 0.40% |
| Mg 279.077† | 17741.0 | 26.8257 | mg/L | 0.08577 | 26.8257 | mg/L | 0.08577 | 0.32% |
| Mn 257.610† | 14470.1 | 0.487438 | mg/L | 0.0009969 | 0.487438 | mg/L | 0.0009969 | 0.20% |
| Mo 202.031† | -7.3 | -0.0017536 | mg/L | 0.00289839 | -0.0017536 | mg/L | 0.00289839 | 165.28% |
| Na 589.592† | 1988191.7 | 202.467 | mg/L | 1.0861 | 202.467 | mg/L | 1.0861 | 0.54% |
| Ni 231.604† | -3.8 | -0.0028388 | mg/L | 0.00368699 | -0.0028388 | mg/L | 0.00368699 | 129.88% |
| Se 196.026† | -0.9 | -0.0080955 | mg/L | 0.02297973 | -0.0080955 | mg/L | 0.02297973 | 283.86% |
| Sn 189.927† | -12.5 | -0.0274555 | mg/L | 0.00586322 | -0.0274555 | mg/L | 0.00586322 | 21.36% |
| Ti 334.940† | -631.5 | -0.0013439 | mg/L | 0.00122794 | -0.0013439 | mg/L | 0.00122794 | 91.37% |
| V 290.880† | 307.4 | 0.0259212 | mg/L | 0.00237486 | 0.0259212 | mg/L | 0.00237486 | 9.16% |
| Zn 206.200† | 14.5 | 0.0032236 | mg/L | 0.00036624 | 0.0032236 | mg/L | 0.00036624 | 11.36% |
| Si 251.611† | 1730.8 | 0.588815 | mg/L | 0.0039195 | 0.588815 | mg/L | 0.0039195 | 0.67% |
| B 249.772† | 255.2 | 0.0332145 | mg/L | 0.00153447 | 0.0332145 | mg/L | 0.00153447 | 4.62% |
| Ce 413.764† | 11.9 | -0.0016925 | mg/L | 0.00339425 | -0.0016925 | mg/L | 0.00339425 | 200.55% |

Method Loaded
Method Name: PE5 AVIO500 SW846 RD Method Last Saved: 9/20/2021 12:56:36 PM
IEC File: IEC012621SWrdA5.iec MSF File:
Method Description: 6010D (AQUEOUS)

Batch ID:
Sequence No.: 66 Autosampler Location: 6
Sample ID: CCV V-352960 Date Collected: 9/29/2021 7:35:14 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time (before sample): 75

Mean Data: CCV V-352960

| Analyte | Mean Corrected Intensity | Calib. Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90568.5 | 96.8 | % | 0.21 | 96.8 | % | 0.21 | 0.21% |
| Y 371.029 | 34194.2 | 93.6 | % | 1.23 | 93.6 | % | 1.23 | 1.31% |
| Al 308.215† | 4606.6 | 4.91324 | mg/L | 0.055212 | 4.91324 | mg/L | 0.055212 | 1.12% |
| QC value within limits for Al 308.215 Recovery = 98.26% | | | | | | | | |
| Ba 233.527† | 2291.7 | 0.480669 | mg/L | 0.0017812 | 0.480669 | mg/L | 0.0017812 | 0.37% |
| QC value within limits for Ba 233.527 Recovery = 96.13% | | | | | | | | |
| Ca 315.887† | 252444.4 | 47.8588 | mg/L | 0.02441 | 47.8588 | mg/L | 0.02441 | 0.05% |
| QC value within limits for Ca 315.887 Recovery = 95.72% | | | | | | | | |
| Cu 327.393† | 2415.8 | 0.512504 | mg/L | 0.0116225 | 0.512504 | mg/L | 0.0116225 | 2.27% |
| QC value within limits for Cu 327.393 Recovery = 102.50% | | | | | | | | |
| Fe 273.955† | 5690.4 | 4.82975 | mg/L | 0.097490 | 4.82975 | mg/L | 0.097490 | 2.02% |
| QC value within limits for Fe 273.955 Recovery = 96.60% | | | | | | | | |
| K 766.490† | 92850.5 | 48.4323 | mg/L | 0.06322 | 48.4323 | mg/L | 0.06322 | 0.13% |
| QC value within limits for K 766.490 Recovery = 96.86% | | | | | | | | |
| Mg 279.077† | 31855.5 | 48.2593 | mg/L | 0.67155 | 48.2593 | mg/L | 0.67155 | 1.39% |
| QC value within limits for Mg 279.077 Recovery = 96.52% | | | | | | | | |
| Mn 257.610† | 14455.3 | 0.490976 | mg/L | 0.0058607 | 0.490976 | mg/L | 0.0058607 | 1.19% |
| QC value within limits for Mn 257.610 Recovery = 98.20% | | | | | | | | |
| Mo 202.031† | 687.6 | 0.481746 | mg/L | 0.0039569 | 0.481746 | mg/L | 0.0039569 | 0.82% |
| QC value within limits for Mo 202.031 Recovery = 96.35% | | | | | | | | |
| Na 589.592† | 482103.4 | 49.1134 | mg/L | 0.05341 | 49.1134 | mg/L | 0.05341 | 0.11% |
| QC value within limits for Na 589.592 Recovery = 98.23% | | | | | | | | |
| Ni 231.604† | 937.0 | 0.483973 | mg/L | 0.0036722 | 0.483973 | mg/L | 0.0036722 | 0.76% |
| QC value within limits for Ni 231.604 Recovery = 96.79% | | | | | | | | |
| Se 196.026† | 134.3 | 0.481976 | mg/L | 0.0079857 | 0.481976 | mg/L | 0.0079857 | 1.66% |
| QC value within limits for Se 196.026 Recovery = 96.40% | | | | | | | | |
| Sn 189.927† | 154.9 | 0.487965 | mg/L | 0.0021687 | 0.487965 | mg/L | 0.0021687 | 0.44% |
| QC value within limits for Sn 189.927 Recovery = 97.59% | | | | | | | | |
| Ti 334.940† | 21954.7 | 0.489128 | mg/L | 0.0074838 | 0.489128 | mg/L | 0.0074838 | 1.53% |
| QC value within limits for Ti 334.940 Recovery = 97.83% | | | | | | | | |
| V 290.880† | 4106.3 | 0.465797 | mg/L | 0.0109524 | 0.465797 | mg/L | 0.0109524 | 2.35% |
| QC value within limits for V 290.880 Recovery = 93.16% | | | | | | | | |
| Zn 206.200† | 1783.3 | 0.477033 | mg/L | 0.0008008 | 0.477033 | mg/L | 0.0008008 | 0.17% |
| QC value within limits for Zn 206.200 Recovery = 95.41% | | | | | | | | |
| Si 251.611† | 13327.5 | 4.82743 | mg/L | 0.066945 | 4.82743 | mg/L | 0.066945 | 1.39% |
| QC value within limits for Si 251.611 Recovery = 96.55% | | | | | | | | |
| B 249.772† | 3398.3 | 0.460657 | mg/L | 0.0098910 | 0.460657 | mg/L | 0.0098910 | 2.15% |
| QC value within limits for B 249.772 Recovery = 92.13% | | | | | | | | |
| Ce 413.764† | 2213.2 | 0.479776 | mg/L | 0.0124820 | 0.479776 | mg/L | 0.0124820 | 2.60% |
| QC value within limits for Ce 413.764 Recovery = 95.96% | | | | | | | | |

All analyte(s) passed QC.

Method Loaded
Method Name: PE5 AVIO500 SW846 RD
IEC File: IEC012621SWrdA5.iec
Method Description: 6010D (AQUEOUS)
Method Last Saved: 9/20/2021 12:56:36 PM
MSF File:

Batch ID:
Sequence No.: 67
Sample ID: CCB V-352951
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 75
Autosampler Location: 1
Date Collected: 9/29/2021 7:39:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

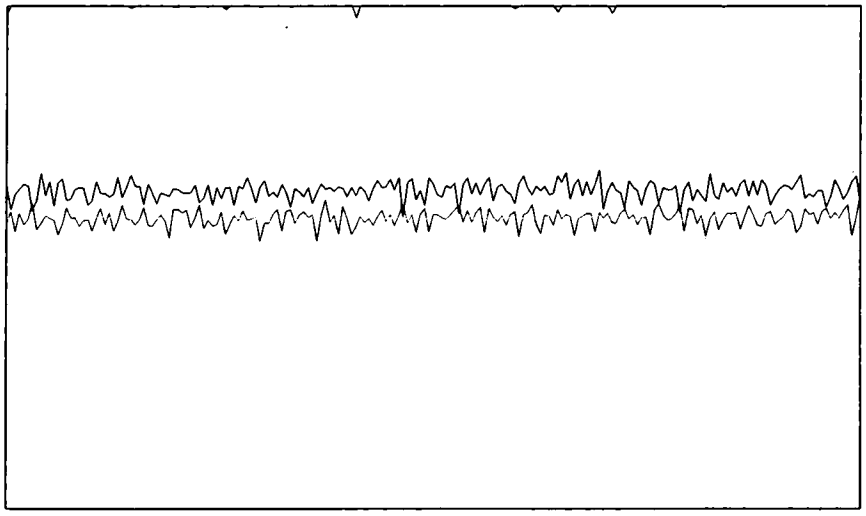
Mean Data: CCB V-352951

| Analyte | Mean Corrected Intensity | Calib. Conc. | Calib. Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Sc 361.383 | 90160.3 | 96.4 | % | 0.54 | 96.4 | % | 0.54 | 0.56% |
| Y 371.029 | 35211.4 | 96.3 | % | 0.58 | 96.3 | % | 0.58 | 0.60% |
| Al 308.215† | -4.2 | 0.0123440 | mg/L | 0.01415765 | 0.0123440 | mg/L | 0.01415765 | 114.69% |
| QC value within limits for Al 308.215 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | -1.5 | -0.0001756 | mg/L | 0.00045895 | -0.0001756 | mg/L | 0.00045895 | 261.37% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Ca 315.887† | -16.6 | -0.0644138 | mg/L | 0.00205049 | -0.0644138 | mg/L | 0.00205049 | 3.18% |
| QC value within limits for Ca 315.887 Recovery = Not calculated | | | | | | | | |
| Cu 327.393† | 28.5 | -0.0011682 | mg/L | 0.00130732 | -0.0011682 | mg/L | 0.00130732 | 111.91% |
| QC value within limits for Cu 327.393 Recovery = Not calculated | | | | | | | | |
| Fe 273.955† | -7.5 | -0.0190361 | mg/L | 0.00150013 | -0.0190361 | mg/L | 0.00150013 | 7.88% |
| QC value within limits for Fe 273.955 Recovery = Not calculated | | | | | | | | |
| K 766.490† | -142.5 | 0.183236 | mg/L | 0.0062024 | 0.183236 | mg/L | 0.0062024 | 3.38% |
| QC value within limits for K 766.490 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 0.1 | -0.114848 | mg/L | 0.0049407 | -0.114848 | mg/L | 0.0049407 | 4.30% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -9.4 | -0.0015791 | mg/L | 0.00054035 | -0.0015791 | mg/L | 0.00054035 | 34.22% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | -2.6 | 0.0015109 | mg/L | 0.00286046 | 0.0015109 | mg/L | 0.00286046 | 189.32% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 589.592† | 241.7 | 0.0491835 | mg/L | 0.00528429 | 0.0491835 | mg/L | 0.00528429 | 10.74% |
| QC value within limits for Na 589.592 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -3.9 | -0.0029691 | mg/L | 0.00541916 | -0.0029691 | mg/L | 0.00541916 | 182.52% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -2.1 | -0.0124603 | mg/L | 0.03143387 | -0.0124603 | mg/L | 0.03143387 | 252.27% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -2.6 | -0.0096985 | mg/L | 0.00239929 | -0.0096985 | mg/L | 0.00239929 | 24.74% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 334.940† | 25.9 | 0.0002034 | mg/L | 0.00051941 | 0.0002034 | mg/L | 0.00051941 | 255.33% |
| QC value within limits for Ti 334.940 Recovery = Not calculated | | | | | | | | |
| V 290.880† | -3.7 | 0.0000362 | mg/L | 0.00065463 | 0.0000362 | mg/L | 0.00065463 | >999.9% |
| QC value within limits for V 290.880 Recovery = Not calculated | | | | | | | | |
| Zn 206.200† | 1.2 | -0.0003459 | mg/L | 0.00125363 | -0.0003459 | mg/L | 0.00125363 | 362.44% |
| QC value within limits for Zn 206.200 Recovery = Not calculated | | | | | | | | |
| Si 251.611† | 15.7 | -0.0380303 | mg/L | 0.00047948 | -0.0380303 | mg/L | 0.00047948 | 1.26% |
| QC value within limits for Si 251.611 Recovery = Not calculated | | | | | | | | |
| B 249.772† | 2.5 | -0.0017923 | mg/L | 0.00026750 | -0.0017923 | mg/L | 0.00026750 | 14.93% |
| QC value within limits for B 249.772 Recovery = Not calculated | | | | | | | | |
| Ce 413.764† | -78.2 | -0.0214182 | mg/L | 0.00839911 | -0.0214182 | mg/L | 0.00839911 | 39.21% |
| QC value within limits for Ce 413.764 Recovery = Not calculated | | | | | | | | |

All analyte(s) passed QC.

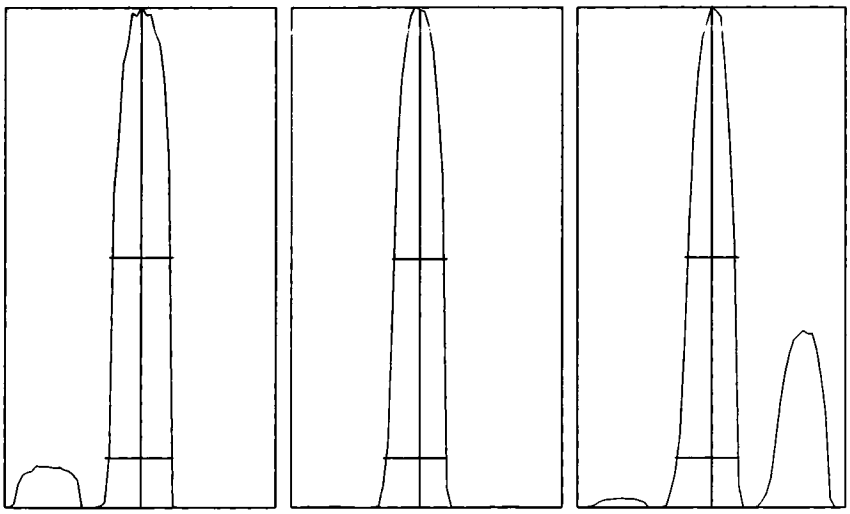
# Tune Report

Tune File : ATUNE.U
Comment : TN092321



| | | |
|---|---|---|
| Integration Time: | 0.1000 sec | |
| Sampling Period: | 0.6200 sec | |
| n: | 200 | |
| Oxide: | 156/140 | 1.01 |
| Doubly Charged: | 70/140 | 0.83 |

| m/z | Range | Count | Mean | RSD% | Background |
|---|---|---|---|---|---|
| 7 | 20,000 | 20530.0 | 20732.3 | 2.32 | 1.10 |
| 89 | 200,000 | 121981.0 | 126615.2 | 2.80 | 2.00 |
| 205 | 200,000 | 124439.0 | 115569.3 | 2.89 | 5.40 |
| 156/140 | 2 | 1.126% | 1.011% | 5.54 | |
| 70/140 | 2 | 0.818% | 0.821% | 5.53 | |



| m/z: | 7 | 89 | |
|---|---|---|---|
| Height: | 20,854 | 127,111 | 1 |
| Axis: | 7.05 | 88.95 | |
| W-50%: | 0.70 | 0.60 | |
| W-10%: | 0.7500 | 0.700 | |

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear



Generated : Sep 23, 2021 10:11:37
Printed : Sep 23, 2021 10:11:40

# Tune Report

Tune File : ATUNE.U
Comment : TN092321

## Tuning Parameters

| ===Plasma Condition=== | | | ===Ion Lenses=== | | | ===Q-Pole Parameters=== | | |
|---|---|---|---|---|---|---|---|---|
| RF Power | : | 1500 W | Extract 1 | : | 0 V | AMU Gain | : | 127 |
| RF Matching | : | 1.25 V | Extract 2 | : | -140 V | AMU Offset | : | 127 |
| Smpl Depth | : | 9.5 mm | Omega Bias | : | -65 V | Axis Gain | : | 1 |
| Torch-H | : | -1.6 mm | Omega Lens | : | 7 V | Axis Offset | : | 0.06 |
| Torch-V | : | 0.9 mm | Cell Entrance | : | -40 V | QP Bias | : | -3 V |
| Carrier Gas | : | 0.6 L/min | Cell Exit | : | -60 V | | | |
| Dilution Mode | : | ON | Deflect | : | 13 V | ===Detector Parameters=== | | |
| Dilution Gas | : | 0.45 L/min | Plate Bias | : | -40 V | Discriminator | : | 4.5 mV |
| Optional Gas | : | --- % | ===Octopole Parameters=== | | | Analog HV | : | 1685 V |
| Nebulizer Pump | : | 0.1 rps | OctP RF | : | 190 V | Pulse HV | : | 947 V |
| Sample Pump | : | --- rps | OctP Bias | : | -8 V | | | |
| S/C Temp | : | 2 degC | | | | | | |

| ===Reaction Cell=== | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Reaction Mode | : | OFF | | | | | | |
| H2 Gas | : | --- mL/min | He Gas | : | 0 mL/min | Optional Gas | : | --- % |



Generated : Sep 23, 2021 10:11:37
Printed : Sep 23, 2021 10:11:43

C:\ICPMH\1\7500\QCTUNE.D

QC Tune Report

Data File: C:\ICPMH\1\7500\QCTUNE.D
Date Acquired: 23 Sep 2021 10:30:57 am
Operator: PC
Misc Info:
Vial Number: 4
Current Method: C:\ICPMH\1\METHODS\TN6020.m

Minimum Response(CPS)

| Element | Actual | Required | Flag |
|---|---|---|---|
| 7 Li | 2160890.00 | 0.00 | |
| 59 Co | 6915760.00 | 0.00 | |
| 115 In | 13053100.00 | 0.00 | |
| 205 Tl | 11554000.00 | 0.00 | |

RSD (%)

| Element | Actual | Required | Flag |
|---|---|---|---|
| 7 Li | 2.02 | 5.00 | |
| 59 Co | 1.18 | 5.00 | |
| 115 In | 0.74 | 5.00 | |
| 205 Tl | 0.89 | 5.00 | |

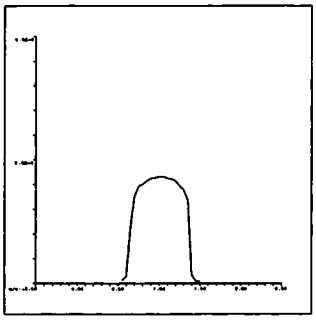
Ion Ratio

| Element | Actual | Required | Flag |
|---|---|---|---|
| 7 Li | | | |
| 59 Co | | | |
| 115 In | | | |
| 205 Tl | | | |

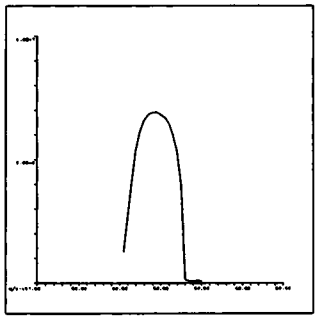
Maximum Bkg. Count(CPS)

| Element | Actual | Required | Flag |
|---|---|---|---|

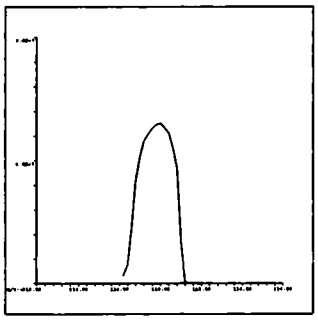
C:\ICPMH\1\7500\QCTUNE.D



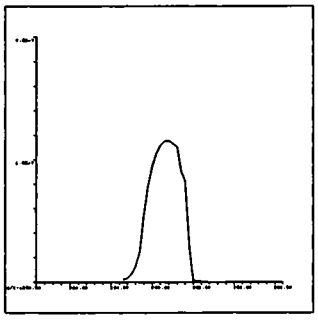
7 Li
Mass Calib.
Actual: 7.00
Required: 6.90-7.10
Flag:
Peak Width
Actual: 0.70
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 58.95
Required: 58.90-59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90-115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 205.10
Required: 204.90-205.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:

QC Tune Result:Pass

# Calibration Blank Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **001CALB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T14:36:49-04:00** |
| **Type** | **CalBlk** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |

Rle A092321B

B-17671

QC-94429

Run OK

Report As, Be, Cd, Co, Pb, Sb, Se, Tl

9/24/21

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 204 | 7.70 |
| Na | 23 | 115 | 2 | 419948 | 0.16 |
| Mg | 24 | 115 | 2 | 4919 | 0.61 |
| Al | 27 | 115 | 2 | 463 | 10.20 |
| K | 39 | 115 | 2 | 50120 | 0.45 |
| Ca | 44 | 115 | 2 | 447 | 8.31 |
| V | 51 | 115 | 2 | 142 | 37.38 |
| Cr | 52 | 115 | 2 | 1402 | 8.86 |
| Mn | 55 | 115 | 2 | 1641 | 8.58 |
| Fe | 56 | 115 | 2 | 87317 | 2.16 |
| Co | 59 | 115 | 2 | 949 | 2.93 |
| Ni | 60 | 115 | 2 | 456 | 3.68 |
| Cu | 65 | 115 | 2 | 1300 | 11.52 |
| Zn | 66 | 115 | 2 | 5460 | 1.89 |
| As | 75 | 115 | 2 | 42 | 18.43 |
| Se | 78 | 115 | 2 | 59 | 11.79 |
| Kr | 83 | 115 | 1 | 1200 | 4.04 |
| Mo | 95 | 115 | 1 | 727 | 4.42 |
| Ag | 107 | 115 | 1 | 14680 | 5.72 |
| Cd | 111 | 115 | 1 | 114 | 22.00 |
| Sb | 121 | 115 | 1 | 1000 | 20.67 |
| Ba | 137 | 159 | 1 | 603 | 32.81 |
| Tl | 205 | 165 | 1 | 6316 | 5.55 |
| (Pb) | 206 | 165 | 1 | 1659 | 5.30 |
| (Pb) | 207 | 165 | 1 | 1338 | 8.36 |
| Pb | 208 | 165 | 1 | 3363 | 6.57 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD |
|---|---|---|---|---|
| Sc | 45 | 1 | 1954216 | 0.56 |
| Sc | 45 | 2 | 91712 | 1.07 |
| In | 115 | 1 | 3518803 | 0.46 |
| In | 115 | 2 | 818540 | 0.46 |
| Tb | 159 | 1 | 5019424 | 0.40 |
| Tb | 159 | 2 | 2820520 | 0.42 |
| Ho | 165 | 1 | 4867955 | 0.34 |
| Ho | 165 | 2 | 2864357 | 0.82 |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Blank Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **002CALB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T14:41:18-04:00** |
| **Type** | **CalBlk** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 242 | 23.45 |
| Na | 23 | 115 | 2 | 390931 | 0.64 |
| Mg | 24 | 115 | 2 | 5114 | 1.28 |
| Al | 27 | 115 | 2 | 486 | 17.56 |
| K | 39 | 115 | 2 | 48540 | 0.96 |
| Ca | 44 | 115 | 2 | 432 | 15.92 |
| V | 51 | 115 | 2 | 140 | 11.90 |
| Cr | 52 | 115 | 2 | 1330 | 3.08 |
| Mn | 55 | 115 | 2 | 1819 | 5.08 |
| Fe | 56 | 115 | 2 | 86055 | 1.09 |
| Co | 59 | 115 | 2 | 1049 | 3.88 |
| Ni | 60 | 115 | 2 | 389 | 6.55 |
| Cu | 65 | 115 | 2 | 1269 | 3.83 |
| Zn | 66 | 115 | 2 | 5433 | 4.29 |
| As | 75 | 115 | 2 | 32 | 14.52 |
| Se | 78 | 115 | 2 | 54 | 23.53 |
| Kr | 83 | 115 | 1 | 1187 | 8.87 |
| Mo | 95 | 115 | 1 | 648 | 5.15 |
| Ag | 107 | 115 | 1 | 12464 | 7.08 |
| Cd | 111 | 115 | 1 | 108 | 36.13 |
| Sb | 121 | 115 | 1 | 795 | 12.63 |
| Ba | 137 | 159 | 1 | 574 | 15.84 |
| Tl | 205 | 165 | 1 | 5573 | 5.37 |
| (Pb) | 206 | 165 | 1 | 1707 | 2.07 |
| (Pb) | 207 | 165 | 1 | 1418 | 5.74 |
| Pb | 208 | 165 | 1 | 3427 | 3.30 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD |
|---|---|---|---|---|
| Sc | 45 | 1 | 1976484 | 1.22 |
| Sc | 45 | 2 | 92038 | 1.05 |
| In | 115 | 1 | 3518564 | 0.68 |
| In | 115 | 2 | 819918 | 0.45 |
| Tb | 159 | 1 | 5017315 | 0.63 |
| Tb | 159 | 2 | 2827505 | 0.75 |
| Ho | 165 | 1 | 4926805 | 0.48 |
| Ho | 165 | 2 | 2856599 | 1.28 |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Blank Report

| | |
|---|---|
| **Sample Name** | **CalBlk V-357834** |
| **Data File Name** | **003CALB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T14:45:46-04:00** |
| **Type** | **CalBlk** |
| **VialNumber** | **2101** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 181 | 5.62 |
| Na | 23 | 115 | 2 | 238066 | 0.44 |
| Mg | 24 | 115 | 2 | 3027 | 5.92 |
| Al | 27 | 115 | 2 | 147 | 24.05 |
| K | 39 | 115 | 2 | 33538 | 0.30 |
| Ca | 44 | 115 | 2 | 268 | 6.39 |
| V | 51 | 115 | 2 | 317 | 6.90 |
| Cr | 52 | 115 | 2 | 1587 | 7.93 |
| Mn | 55 | 115 | 2 | 1156 | 4.88 |
| Fe | 56 | 115 | 2 | 64846 | 0.58 |
| Co | 59 | 115 | 2 | 227 | 6.74 |
| Ni | 60 | 115 | 2 | 411 | 16.22 |
| Cu | 65 | 115 | 2 | 2591 | 3.45 |
| Zn | 66 | 115 | 2 | 3160 | 7.78 |
| As | 75 | 115 | 2 | 33 | 16.67 |
| Se | 78 | 115 | 2 | 47 | 38.98 |
| Kr | 83 | 115 | 1 | 1177 | 5.75 |
| Mo | 95 | 115 | 1 | 192 | 13.47 |
| Ag | 107 | 115 | 1 | 5865 | 2.42 |
| Cd | 111 | 115 | 1 | 19 | 33.30 |
| Sb | 121 | 115 | 1 | 889 | 8.63 |
| Ba | 137 | 159 | 1 | 643 | 10.21 |
| Tl | 205 | 165 | 1 | 1927 | 10.04 |
| (Pb) | 206 | 165 | 1 | 1129 | 2.40 |
| (Pb) | 207 | 165 | 1 | 1007 | 8.24 |
| Pb | 208 | 165 | 1 | 2279 | 1.10 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD |
|---|---|---|---|---|
| Sc | 45 | 1 | 1806323 | 0.16 |
| Sc | 45 | 2 | 83365 | 1.00 |
| In | 115 | 1 | 3370573 | 0.65 |
| In | 115 | 2 | 766063 | 0.98 |
| Tb | 159 | 1 | 4942864 | 0.74 |
| Tb | 159 | 2 | 2747591 | 0.61 |
| Ho | 165 | 1 | 4859401 | 0.44 |
| Ho | 165 | 2 | 2780404 | 0.63 |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd1 V-357835** |
| **Data File Name** | **004CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T14:50:14-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 3599 | 1.69 |
| Na | 23 | 115 | 2 | 325652 | 0.62 |
| Mg | 24 | 115 | 2 | 46980 | 0.46 |
| Al | 27 | 115 | 2 | 4896 | 7.76 |
| K | 39 | 115 | 2 | 73727 | 0.38 |
| Ca | 44 | 115 | 2 | 2681 | 6.74 |
| V | 51 | 115 | 2 | 6309 | 1.32 |
| Cr | 52 | 115 | 2 | 10155 | 0.43 |
| Mn | 55 | 115 | 2 | 6372 | 2.60 |
| Fe | 56 | 115 | 2 | 781130 | 0.53 |
| Co | 59 | 115 | 2 | 14606 | 2.39 |
| Ni | 60 | 115 | 2 | 4394 | 4.50 |
| Cu | 65 | 115 | 2 | 9223 | 3.30 |
| Zn | 66 | 115 | 2 | 5413 | 1.26 |
| As | 75 | 115 | 2 | 1034 | 4.38 |
| Se | 78 | 115 | 2 | 408 | 8.39 |
| Kr | 83 | 115 | 1 | 1189 | 5.03 |
| Mo | 95 | 115 | 1 | 12077 | 1.97 |
| Ag | 107 | 115 | 1 | 39600 | 0.36 |
| Cd | 111 | 115 | 1 | 6801 | 2.29 |
| Sb | 121 | 115 | 1 | 30060 | 0.91 |
| Ba | 137 | 159 | 1 | 12179 | 2.38 |
| Tl | 205 | 165 | 1 | 66706 | 0.88 |
| (Pb) | 206 | 165 | 1 | 26380 | 2.16 |
| (Pb) | 207 | 165 | 1 | 21485 | 1.86 |
| Pb | 208 | 165 | 1 | 53049 | 1.54 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1833089 | 1.43 | 1806323 | 101.5 | 70 | 130 | |
| Sc | 45 | 2 | 83357 | 1.13 | 83365 | 100.0 | 70 | 130 | |
| In | 115 | 1 | 3419781 | 0.84 | 3370573 | 101.5 | 70 | 130 | |
| In | 115 | 2 | 772050 | 1.42 | 766063 | 100.8 | 70 | 130 | |
| Tb | 159 | 1 | 4953847 | 0.69 | 4942864 | 100.2 | 70 | 130 | |
| Tb | 159 | 2 | 2746040 | 0.60 | 2747591 | 99.9 | 70 | 130 | |
| Ho | 165 | 1 | 4900113 | 0.93 | 4859401 | 100.8 | 70 | 130 | |
| Ho | 165 | 2 | 2791665 | 2.00 | 2780404 | 100.4 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd2 V-357836** |
| **Data File Name** | **005CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T14:54:42-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2103** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 28586 | 1.78 |
| Na | 23 | 115 | 2 | 980270 | 6.67 |
| Mg | 24 | 115 | 2 | 374417 | 0.75 |
| Al | 27 | 115 | 2 | 38968 | 0.48 |
| K | 39 | 115 | 2 | 377275 | 0.62 |
| Ca | 44 | 115 | 2 | 19120 | 1.64 |
| V | 51 | 115 | 2 | 53093 | 0.93 |
| Cr | 52 | 115 | 2 | 70421 | 0.76 |
| Mn | 55 | 115 | 2 | 38288 | 0.46 |
| Fe | 56 | 115 | 2 | 5749811 | 0.11 |
| Co | 59 | 115 | 2 | 120896 | 0.13 |
| Ni | 60 | 115 | 2 | 34248 | 1.96 |
| Cu | 65 | 115 | 2 | 50083 | 0.51 |
| Zn | 66 | 115 | 2 | 18194 | 3.89 |
| As | 75 | 115 | 2 | 8472 | 1.01 |
| Se | 78 | 115 | 2 | 2678 | 3.21 |
| Kr | 83 | 115 | 1 | 1109 | 4.52 |
| Mo | 95 | 115 | 1 | 100064 | 1.47 |
| Ag | 107 | 115 | 1 | 268517 | 1.21 |
| Cd | 111 | 115 | 1 | 56834 | 1.27 |
| Sb | 121 | 115 | 1 | 232155 | 0.62 |
| Ba | 137 | 159 | 1 | 85903 | 1.27 |
| Tl | 205 | 165 | 1 | 555865 | 1.09 |
| (Pb) | 206 | 165 | 1 | 202032 | 0.85 |
| (Pb) | 207 | 165 | 1 | 169522 | 0.76 |
| Pb | 208 | 165 | 1 | 419538 | 1.14 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1865949 | 0.21 | 1806323 | 103.3 | 70 | 130 | |
| Sc | 45 | 2 | 85690 | 1.64 | 83365 | 102.8 | 70 | 130 | |
| In | 115 | 1 | 3428896 | 1.58 | 3370573 | 101.7 | 70 | 130 | |
| In | 115 | 2 | 784536 | 0.26 | 766063 | 102.4 | 70 | 130 | |
| Tb | 159 | 1 | 5040431 | 1.26 | 4942864 | 102.0 | 70 | 130 | |
| Tb | 159 | 2 | 2792465 | 0.51 | 2747591 | 101.6 | 70 | 130 | |
| Ho | 165 | 1 | 4940797 | 0.55 | 4859401 | 101.7 | 70 | 130 | |
| Ho | 165 | 2 | 2836578 | 0.69 | 2780404 | 102.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd3 V-357837** |
| **Data File Name** | **006CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T14:59:10-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2104** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 59401 | 1.06 |
| Na | 23 | 115 | 2 | 1830351 | 0.19 |
| Mg | 24 | 115 | 2 | 760536 | 0.40 |
| Al | 27 | 115 | 2 | 78640 | 0.45 |
| K | 39 | 115 | 2 | 730073 | 1.02 |
| Ca | 44 | 115 | 2 | 38811 | 1.93 |
| V | 51 | 115 | 2 | 106776 | 0.44 |
| Cr | 52 | 115 | 2 | 139752 | 0.87 |
| Mn | 55 | 115 | 2 | 75684 | 0.18 |
| Fe | 56 | 115 | 2 | 11431370 | 0.67 |
| Co | 59 | 115 | 2 | 244235 | 0.30 |
| Ni | 60 | 115 | 2 | 66999 | 0.71 |
| Cu | 65 | 115 | 2 | 97359 | 0.87 |
| Zn | 66 | 115 | 2 | 31255 | 2.31 |
| As | 75 | 115 | 2 | 17042 | 0.87 |
| Se | 78 | 115 | 2 | 5545 | 1.65 |
| Kr | 83 | 115 | 1 | 1101 | 4.33 |
| Mo | 95 | 115 | 1 | 201456 | 0.63 |
| Ag | 107 | 115 | 1 | 579002 | 0.51 |
| Cd | 111 | 115 | 1 | 115010 | 0.73 |
| Sb | 121 | 115 | 1 | 470120 | 0.94 |
| Ba | 137 | 159 | 1 | 175127 | 1.22 |
| Tl | 205 | 165 | 1 | 1140341 | 1.37 |
| (Pb) | 206 | 165 | 1 | 407965 | 1.14 |
| (Pb) | 207 | 165 | 1 | 340573 | 0.77 |
| Pb | 208 | 165 | 1 | 847527 | 1.03 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1874391 | 1.45 | 1806323 | 103.8 | 70 | 130 | |
| Sc | 45 | 2 | 84894 | 1.24 | 83365 | 101.8 | 70 | 130 | |
| In | 115 | 1 | 3449935 | 0.62 | 3370573 | 102.4 | 70 | 130 | |
| In | 115 | 2 | 782523 | 0.20 | 766063 | 102.1 | 70 | 130 | |
| Tb | 159 | 1 | 5050476 | 0.37 | 4942864 | 102.2 | 70 | 130 | |
| Tb | 159 | 2 | 2787162 | 0.69 | 2747591 | 101.4 | 70 | 130 | |
| Ho | 165 | 1 | 4939547 | 0.42 | 4859401 | 101.6 | 70 | 130 | |
| Ho | 165 | 2 | 2838182 | 1.02 | 2780404 | 102.1 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd4 V-357838** |
| **Data File Name** | **007CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T15:03:37-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2105** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 293534 | 0.37 |
| Na | 23 | 115 | 2 | 9540807 | 0.28 |
| Mg | 24 | 115 | 2 | 3777227 | 1.10 |
| Al | 27 | 115 | 2 | 382723 | 0.13 |
| K | 39 | 115 | 2 | 3436425 | 1.02 |
| Ca | 44 | 115 | 2 | 191904 | 0.42 |
| V | 51 | 115 | 2 | 527380 | 0.36 |
| Cr | 52 | 115 | 2 | 673197 | 0.28 |
| Mn | 55 | 115 | 2 | 372574 | 0.36 |
| Fe | 56 | 115 | 2 | 55345158 | 0.35 |
| Co | 59 | 115 | 2 | 1189369 | 0.41 |
| Ni | 60 | 115 | 2 | 320889 | 0.43 |
| Cu | 65 | 115 | 2 | 453225 | 0.74 |
| Zn | 66 | 115 | 2 | 138727 | 1.20 |
| As | 75 | 115 | 2 | 82820 | 0.18 |
| Se | 78 | 115 | 2 | 26817 | 0.83 |
| Kr | 83 | 115 | 1 | 1021 | 6.54 |
| Mo | 95 | 115 | 1 | 1006145 | 1.18 |
| Ag | 107 | 115 | 1 | 2905790 | 1.65 |
| Cd | 111 | 115 | 1 | 570798 | 0.20 |
| Sb | 121 | 115 | 1 | 2438058 | 0.79 |
| Ba | 137 | 159 | 1 | 864580 | 0.80 |
| Tl | 205 | 165 | 1 | 5975894 | 0.45 |
| (Pb) | 206 | 165 | 1 | 2102773 | 0.84 |
| (Pb) | 207 | 165 | 1 | 1753099 | 1.13 |
| Pb | 208 | 165 | 1 | 4296610 | 0.32 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1858539 | 0.63 | 1806323 | 102.9 | 70 | 130 | |
| Sc | 45 | 2 | 84034 | 0.67 | 83365 | 100.8 | 70 | 130 | |
| In | 115 | 1 | 3447785 | 0.56 | 3370573 | 102.3 | 70 | 130 | |
| In | 115 | 2 | 769878 | 0.03 | 766063 | 100.5 | 70 | 130 | |
| Tb | 159 | 1 | 5051896 | 0.33 | 4942864 | 102.2 | 70 | 130 | |
| Tb | 159 | 2 | 2746753 | 0.35 | 2747591 | 100.0 | 70 | 130 | |
| Ho | 165 | 1 | 4924528 | 0.79 | 4859401 | 101.3 | 70 | 130 | |
| Ho | 165 | 2 | 2783141 | 0.93 | 2780404 | 100.1 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Calibration Standard Report

| | |
|---|---|
| **Sample Name** | **CalStd5 V-357839** |
| **Data File Name** | **008CALS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T15:07:56-04:00** |
| **Type** | **CalStd** |
| **VialNumber** | **2106** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | CPS | %RSD |
|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 557607 | 0.75 |
| Na | 23 | 115 | 2 | 14860291 | 0.78 |
| Mg | 24 | 115 | 2 | 7043724 | 1.29 |
| Al | 27 | 115 | 2 | 727858 | 0.29 |
| K | 39 | 115 | 2 | 6435080 | 0.18 |
| Ca | 44 | 115 | 2 | 359385 | 0.25 |
| V | 51 | 115 | 2 | 1013436 | 0.44 |
| Cr | 52 | 115 | 2 | 1305520 | 0.83 |
| Mn | 55 | 115 | 2 | 692250 | 0.36 |
| Fe | 56 | 115 | 2 | 105734935 | 0.35 |
| Co | 59 | 115 | 2 | 2292820 | 0.70 |
| Ni | 60 | 115 | 2 | 608413 | 0.28 |
| Cu | 65 | 115 | 2 | 862639 | 0.12 |
| Zn | 66 | 115 | 2 | 252311 | 0.43 |
| As | 75 | 115 | 2 | 158235 | 0.64 |
| Se | 78 | 115 | 2 | 51224 | 0.85 |
| Kr | 83 | 115 | 1 | 1065 | 4.65 |
| Mo | 95 | 115 | 1 | 2002217 | 1.19 |
| Ag | 107 | 115 | 1 | 5480903 | 1.25 |
| Cd | 111 | 115 | 1 | 1088636 | 0.75 |
| Sb | 121 | 115 | 1 | 4582959 | 1.05 |
| Ba | 137 | 159 | 1 | 1719105 | 0.95 |
| Tl | 205 | 165 | 1 | 11489591 | 0.35 |
| (Pb) | 206 | 165 | 1 | 3994077 | 0.81 |
| (Pb) | 207 | 165 | 1 | 3336588 | 0.84 |
| Pb | 208 | 165 | 1 | 8154406 | 0.70 |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1810680 | 0.87 | 1806323 | 100.2 | 70 | 130 | |
| Sc | 45 | 2 | 82124 | 1.46 | 83365 | 98.5 | 70 | 130 | |
| In | 115 | 1 | 3322115 | 0.97 | 3370573 | 98.6 | 70 | 130 | |
| In | 115 | 2 | 743763 | 0.45 | 766063 | 97.1 | 70 | 130 | |
| Tb | 159 | 1 | 4956067 | 1.20 | 4942864 | 100.3 | 70 | 130 | |
| Tb | 159 | 2 | 2716574 | 0.22 | 2747591 | 98.9 | 70 | 130 | |
| Ho | 165 | 1 | 4844289 | 0.26 | 4859401 | 99.7 | 70 | 130 | |
| Ho | 165 | 2 | 2759827 | 1.30 | 2780404 | 99.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Initial Calibration Verification (ICV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **ICV V-357840** |
| **Data File Name** | **009_ICV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T15:12:13-04:00** |
| **Type** | **6-ICV** |
| **VialNumber** | **2108** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 52.38 | ppb | 50 | 290987 | 0.77 | 104.75 | 90 | 110 | |
| Na | 23 | 115 | 2 | 5017.15 | ppb | 5000 | 7907044 | 0.94 | 100.34 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 5187.87 | ppb | 5000 | 3683460 | 0.28 | 103.76 | 90 | 110 | |
| Al | 27 | 115 | 2 | 5364.27 | ppb | 5000 | 1306210 | 0.99 | 107.29 | 90 | 110 | |
| K | 39 | 115 | 2 | 5188.61 | ppb | 5000 | 3374399 | 0.37 | 103.77 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 5308.61 | ppb | 5000 | 192179 | 1.29 | 106.17 | 90 | 110 | |
| V | 51 | 115 | 2 | 50.46 | ppb | 50 | 512152 | 0.48 | 100.91 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 51.26 | ppb | 50 | 669536 | 0.55 | 102.51 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 50.53 | ppb | 50 | 353181 | 1.20 | 101.05 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 5184.43 | ppb | 5000 | 54995253 | 0.14 | 103.69 | 90 | 110 | |
| Co | 59 | 115 | 2 | 50.87 | ppb | 50 | 1167406 | 0.25 | 101.74 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 51.56 | ppb | 50 | 315309 | 0.76 | 103.13 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 51.87 | ppb | 50 | 450083 | 0.23 | 103.74 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 52.06 | ppb | 50 | 134272 | 0.40 | 104.11 | 90 | 110 | |
| As | 75 | 115 | 2 | 51.98 | ppb | 50 | 82495 | 0.98 | 103.96 | 90 | 110 | |
| Se | 78 | 115 | 2 | 52.35 | ppb | 50 | 5418 | 3.50 | 104.70 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 48.45 | ppb | 50 | 975378 | 0.67 | 96.90 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 9.98 | ppb | 10 | 561296 | 0.56 | 99.82 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 51.10 | ppb | 50 | 564248 | 0.75 | 102.20 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 51.67 | ppb | 50 | 2406380 | 1.12 | 103.34 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 49.88 | ppb | 50 | 852713 | 0.57 | 99.75 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 49.93 | ppb | 50 | 5793399 | 0.77 | 99.86 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 51.52 | ppb | 50 | 4255655 | 0.35 | 103.03 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1794138 | 0.37 | 1806323 | 99.3 | 70 | 130 | |
| Sc | 45 | 2 | 82257 | 0.62 | 83365 | 98.7 | 70 | 130 | |
| In | 115 | 1 | 3362100 | 0.72 | 3370573 | 99.7 | 70 | 130 | |
| In | 115 | 2 | 744018 | 0.64 | 766063 | 97.1 | 70 | 130 | |
| Tb | 159 | 1 | 4940421 | 0.27 | 4942864 | 100.0 | 70 | 130 | |
| Tb | 159 | 2 | 2715445 | 0.63 | 2747591 | 98.8 | 70 | 130 | |
| Ho | 165 | 1 | 4870336 | 0.43 | 4859401 | 100.2 | 70 | 130 | |
| Ho | 165 | 2 | 2749861 | 0.50 | 2780404 | 98.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# LL-ICV/CCV - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **LLICV V-357848** |
| **Data File Name** | **010_LCS.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T15:16:36-04:00** |
| **Type** | **6-LCS** |
| **VialNumber** | **2111** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.51 | ppb | 0.5 | 3031 | 3.45 | 101.34 | 80 | 120 | |
| Na | 23 | 115 | 2 | 188.63 | ppb | 250 | 539442 | 0.11 | 75.45 | 80 | 120 | >+-10% |
| Mg | 24 | 115 | 2 | 235.16 | ppb | 250 | 176184 | 0.69 | 94.06 | 80 | 120 | |
| Al | 27 | 115 | 2 | 96.27 | ppb | 100 | 24977 | 1.26 | 96.27 | 80 | 120 | |
| K | 39 | 115 | 2 | 238.72 | ppb | 250 | 193366 | 0.57 | 95.49 | 80 | 120 | |
| Ca | 44 | 115 | 2 | 235.77 | ppb | 250 | 9116 | 3.99 | 94.31 | 80 | 120 | |
| V | 51 | 115 | 2 | 0.94 | ppb | 1 | 10175 | 1.77 | 93.62 | 80 | 120 | |
| Cr | 52 | 115 | 2 | 0.93 | ppb | 1 | 14228 | 2.47 | 93.38 | 80 | 120 | |
| Mn | 55 | 115 | 2 | 2.97 | ppb | 3 | 22822 | 1.91 | 98.91 | 80 | 120 | |
| Fe | 56 | 115 | 2 | 150.68 | ppb | 150 | 1722293 | 1.52 | 100.46 | 80 | 120 | |
| Co | 59 | 115 | 2 | 0.95 | ppb | 1 | 22897 | 0.39 | 95.20 | 80 | 120 | |
| Ni | 60 | 115 | 2 | 1.47 | ppb | 1.5 | 9703 | 1.97 | 97.71 | 80 | 120 | |
| Cu | 65 | 115 | 2 | 4.68 | ppb | 5 | 44552 | 1.71 | 93.66 | 80 | 120 | |
| Zn | 66 | 115 | 2 | 9.70 | ppb | 10 | 28563 | 1.26 | 97.02 | 80 | 120 | |
| As | 75 | 115 | 2 | 0.94 | ppb | 1 | 1588 | 4.36 | 94.45 | 80 | 120 | |
| Se | 78 | 115 | 2 | 5.18 | ppb | 5 | 599 | 2.70 | 103.58 | 80 | 120 | |
| Mo | 95 | 115 | 1 | 0.99 | ppb | 1 | 20234 | 1.88 | 99.07 | 80 | 120 | |
| Ag | 107 | 115 | 1 | 0.41 | ppb | 0.5 | 28746 | 1.17 | 81.79 | 80 | 120 | |
| Cd | 111 | 115 | 1 | 0.97 | ppb | 1 | 10735 | 1.65 | 96.55 | 80 | 120 | |
| Sb | 121 | 115 | 1 | 1.51 | ppb | 1.5 | 71783 | 0.18 | 100.93 | 80 | 120 | |
| Ba | 137 | 159 | 1 | 2.36 | ppb | 2.5 | 40746 | 0.98 | 94.43 | 80 | 120 | |
| Tl | 205 | 165 | 1 | 1.16 | ppb | 1 | 136040 | 1.99 | 116.48 | 80 | 120 | |
| Pb | 208 | 165 | 1 | 1.40 | ppb | 1.5 | 117128 | 0.82 | 93.42 | 80 | 120 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1817229 | 0.59 | 1806323 | 100.6 | 70 | 130 | |
| Sc | 45 | 2 | 82773 | 0.84 | 83365 | 99.3 | 70 | 130 | |
| In | 115 | 1 | 3379270 | 1.30 | 3370573 | 100.3 | 70 | 130 | |
| In | 115 | 2 | 772114 | 0.34 | 766063 | 100.8 | 70 | 130 | |
| Tb | 159 | 1 | 4913130 | 0.24 | 4942864 | 99.4 | 70 | 130 | |
| Tb | 159 | 2 | 2744832 | 0.33 | 2747591 | 99.9 | 70 | 130 | |
| Ho | 165 | 1 | 4835442 | 0.90 | 4859401 | 99.5 | 70 | 130 | |
| Ho | 165 | 2 | 2772519 | 0.58 | 2780404 | 99.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Initial Calibration Blank (ICB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **ICB V-357841** |
| **Data File Name** | **011_ICB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T15:21:04-04:00** |
| **Type** | **6-ICB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | ppb | 0.25 | |
| Na | 23 | 115 | 2 | -51.74 | ppb | 125 | |
| Mg | 24 | 115 | 2 | -0.31 | ppb | 125 | |
| Al | 27 | 115 | 2 | 0.40 | ppb | 50 | |
| K | 39 | 115 | 2 | -6.57 | ppb | 125 | |
| Ca | 44 | 115 | 2 | -0.55 | ppb | 125 | |
| V | 51 | 115 | 2 | 0.00 | ppb | 0.5 | |
| Cr | 52 | 115 | 2 | -0.01 | ppb | 0.5 | |
| Mn | 55 | 115 | 2 | -0.01 | ppb | 1.5 | |
| Fe | 56 | 115 | 2 | 1.27 | ppb | 75 | |
| Co | 59 | 115 | 2 | 0.00 | ppb | 0.5 | |
| Ni | 60 | 115 | 2 | 0.00 | ppb | 0.75 | |
| Cu | 65 | 115 | 2 | 0.00 | ppb | 2.5 | |
| Zn | 66 | 115 | 2 | -0.05 | ppb | 5 | |
| As | 75 | 115 | 2 | 0.00 | ppb | 0.5 | |
| Se | 78 | 115 | 2 | 0.07 | ppb | 2.5 | |
| Mo | 95 | 115 | 1 | 0.03 | ppb | 0.5 | |
| Ag | 107 | 115 | 1 | -0.03 | ppb | 0.25 | |
| Cd | 111 | 115 | 1 | 0.00 | ppb | 0.5 | |
| Sb | 121 | 115 | 1 | 0.02 | ppb | 0.75 | |
| Ba | 137 | 159 | 1 | 0.00 | ppb | 1.25 | |
| Tl | 205 | 165 | 1 | 0.05 | ppb | 0.5 | |
| Pb | 208 | 165 | 1 | 0.02 | ppb | 0.75 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1751047 | 0.50 | 1806323 | 96.9 | 70 | 130 | |
| Sc | 45 | 2 | 78490 | 0.62 | 83365 | 94.2 | 70 | 130 | |
| In | 115 | 1 | 3287006 | 0.62 | 3370573 | 97.5 | 70 | 130 | |
| In | 115 | 2 | 726173 | 0.43 | 766063 | 94.8 | 70 | 130 | |
| Tb | 159 | 1 | 4837479 | 0.60 | 4942864 | 97.9 | 70 | 130 | |
| Tb | 159 | 2 | 2671284 | 0.94 | 2747591 | 97.2 | 70 | 130 | |
| Ho | 165 | 1 | 4783853 | 0.33 | 4859401 | 98.4 | 70 | 130 | |
| Ho | 165 | 2 | 2697056 | 0.94 | 2780404 | 97.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Interference Check Sample A (ICS-A) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **ICSA V-357842** |
| **Data File Name** | **012ICSA.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T15:25:33-04:00** |
| **Type** | **6-ICSA** |
| **VialNumber** | **2107** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | ppb | 1 | |
| Na | 23 | 115 | 2 | 117500.67 | ppb | 150000 | |
| Mg | 24 | 115 | 2 | 47416.05 | ppb | 60000 | |
| Al | 27 | 115 | 2 | 48877.40 | ppb | 60000 | |
| K | 39 | 115 | 2 | 48699.11 | ppb | 60000 | |
| Ca | 44 | 115 | 2 | 147294.30 | ppb | 180000 | |
| V | 51 | 115 | 2 | 0.06 | ppb | 2 | |
| Cr | 52 | 115 | 2 | 0.50 | ppb | 2 | |
| Mn | 55 | 115 | 2 | 1.75 | ppb | 6 | |
| Fe | 56 | 115 | 2 | 120536.27 | ppb | 150000 | |
| Co | 59 | 115 | 2 | 0.23 | ppb | 2 | |
| Ni | 60 | 115 | 2 | 0.69 | ppb | 3 | |
| Cu | 65 | 115 | 2 | 0.73 | ppb | 10 | |
| Zn | 66 | 115 | 2 | 1.62 | ppb | 20 | |
| As | 75 | 115 | 2 | 0.25 | ppb | 2 | |
| Se | 78 | 115 | 2 | 0.17 | ppb | 10 | |
| Mo | 95 | 115 | 1 | 959.11 | ppb | 1200 | |
| Ag | 107 | 115 | 1 | 0.15 | ppb | 1 | |
| Cd | 111 | 115 | 1 | 0.96 | ppb | 2 | |
| Sb | 121 | 115 | 1 | 0.35 | ppb | 2 | |
| Ba | 137 | 159 | 1 | 0.83 | ppb | 5 | |
| Tl | 205 | 165 | 1 | 0.05 | ppb | 2 | |
| Pb | 208 | 165 | 1 | 0.07 | ppb | 3 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1611481 | 0.36 | 1806323 | 89.2 | 70 | 130 | |
| Sc | 45 | 2 | 72516 | 0.41 | 83365 | 87.0 | 70 | 130 | |
| In | 115 | 1 | 2916121 | 0.55 | 3370573 | 86.5 | 70 | 130 | |
| In | 115 | 2 | 639369 | 0.12 | 766063 | 83.5 | 70 | 130 | |
| Tb | 159 | 1 | 4571132 | 0.30 | 4942864 | 92.5 | 70 | 130 | |
| Tb | 159 | 2 | 2495070 | 0.88 | 2747591 | 90.8 | 70 | 130 | |
| Ho | 165 | 1 | 4540583 | 0.45 | 4859401 | 93.4 | 70 | 130 | |
| Ho | 165 | 2 | 2520490 | 0.14 | 2780404 | 90.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **013SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T15:29:57-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | 0.01 | ppb | 240 | 13.25 | 550 | |
| Na | 23 | 115 | 2 | -0.99 | -0.99 | ppb | 225648 | 0.74 | 55000 | |
| Mg | 24 | 115 | 2 | 1.35 | 1.35 | ppb | 3832 | 2.89 | 55000 | |
| Al | 27 | 115 | 2 | 1.77 | 1.77 | ppb | 563 | 12.08 | 16500 | |
| K | 39 | 115 | 2 | 3.55 | 3.55 | ppb | 34244 | 0.38 | 55000 | |
| Ca | 44 | 115 | 2 | 4.79 | 4.79 | ppb | 426 | 8.15 | 55000 | |
| V | 51 | 115 | 2 | -0.02 | -0.02 | ppb | 123 | 17.72 | 550 | |
| Cr | 52 | 115 | 2 | -0.02 | -0.02 | ppb | 1246 | 5.02 | 550 | |
| Mn | 55 | 115 | 2 | 0.05 | 0.05 | ppb | 1437 | 0.40 | 550 | |
| Fe | 56 | 115 | 2 | 9.49 | 9.49 | ppb | 160634 | 4.23 | 55000 | |
| Co | 59 | 115 | 2 | 0.04 | 0.04 | ppb | 1080 | 6.01 | 550 | |
| Ni | 60 | 115 | 2 | 0.00 | 0.00 | ppb | 400 | 10.64 | 550 | |
| Cu | 65 | 115 | 2 | -0.15 | -0.15 | ppb | 1161 | 12.97 | 550 | |
| Zn | 66 | 115 | 2 | 0.75 | 0.75 | ppb | 4875 | 5.48 | 550 | |
| As | 75 | 115 | 2 | -0.01 | -0.01 | ppb | 22 | 22.93 | 550 | |
| Se | 78 | 115 | 2 | 0.00 | 0.00 | ppb | 44 | 32.52 | 2750 | |
| Mo | 95 | 115 | 1 | 0.37 | 0.37 | ppb | 7334 | 4.80 | 550 | |
| Ag | 107 | 115 | 1 | 0.11 | 0.11 | ppb | 11598 | 7.43 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 110 | 11.76 | 550 | |
| Sb | 121 | 115 | 1 | 0.00 | 0.00 | ppb | 908 | 4.04 | 550 | |
| Ba | 137 | 159 | 1 | 0.06 | 0.06 | ppb | 1604 | 106.30 | 550 | |
| Tl | 205 | 165 | 1 | 0.04 | 0.04 | ppb | 6499 | 6.31 | 550 | |
| Pb | 208 | 165 | 1 | 0.02 | 0.02 | ppb | 3618 | 3.09 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1686683 | 0.10 | 1806323 | 93.4 | 70 | 130 | |
| Sc | 45 | 2 | 77439 | 0.14 | 83365 | 92.9 | 70 | 130 | |
| In | 115 | 1 | 3205841 | 0.80 | 3370573 | 95.1 | 70 | 130 | |
| In | 115 | 2 | 730894 | 0.65 | 766063 | 95.4 | 70 | 130 | |
| Tb | 159 | 1 | 4710046 | 1.67 | 4942864 | 95.3 | 70 | 130 | |
| Tb | 159 | 2 | 2648080 | 0.77 | 2747591 | 96.4 | 70 | 130 | |
| Ho | 165 | 1 | 4635462 | 0.29 | 4859401 | 95.4 | 70 | 130 | |
| Ho | 165 | 2 | 2670534 | 0.33 | 2780404 | 96.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **LRS V-357843** |
| **Data File Name** | **014SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T15:34:27-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2109** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 498.44 | 498.44 | ppb | 2613993 | 0.50 | 550 | |
| Na | 23 | 115 | 2 | 48055.47 | 48055.47 | ppb | 67454928 | 0.32 | 55000 | |
| Mg | 24 | 115 | 2 | 49970.90 | 49970.90 | ppb | 32430042 | 1.26 | 55000 | |
| Al | 27 | 115 | 2 | 15233.47 | 15233.47 | ppb | 3392414 | 0.43 | 16500 | |
| K | 39 | 115 | 2 | 50580.93 | 50580.93 | ppb | 29826938 | 1.00 | 55000 | |
| Ca | 44 | 115 | 2 | 51924.41 | 51924.41 | ppb | 1717108 | 0.96 | 55000 | |
| V | 51 | 115 | 2 | 506.44 | 506.44 | ppb | 4699530 | 1.16 | 550 | |
| Cr | 52 | 115 | 2 | 494.59 | 494.59 | ppb | 5897143 | 1.10 | 550 | |
| Mn | 55 | 115 | 2 | 498.24 | 498.24 | ppb | 3176393 | 1.07 | 550 | |
| Fe | 56 | 115 | 2 | 50185.93 | 50185.93 | ppb | 486420859 | 0.41 | 55000 | |
| Co | 59 | 115 | 2 | 490.08 | 490.08 | ppb | 10285101 | 0.40 | 550 | |
| Ni | 60 | 115 | 2 | 496.27 | 496.27 | ppb | 2772280 | 0.58 | 550 | |
| Cu | 65 | 115 | 2 | 483.04 | 483.04 | ppb | 3814563 | 0.27 | 550 | |
| Zn | 66 | 115 | 2 | 487.00 | 487.00 | ppb | 1125485 | 0.66 | 550 | |
| As | 75 | 115 | 2 | 506.54 | 506.54 | ppb | 734994 | 0.63 | 550 | |
| Se | 78 | 115 | 2 | 2470.70 | 2470.70 | ppb | 231960 | 1.08 | 2750 | |
| Mo | 95 | 115 | 1 | 494.55 | 494.55 | ppb | 9113573 | 0.71 | 550 | |
| Ag | 107 | 115 | 1 | 106.83 | 106.83 | ppb | 5447699 | 1.48 | 550 | |
| Cd | 111 | 115 | 1 | 494.89 | 494.89 | ppb | 5002992 | 0.78 | 550 | |
| Sb | 121 | 115 | 1 | 495.95 | 495.95 | ppb | 21156753 | 0.41 | 550 | |
| Ba | 137 | 159 | 1 | 484.94 | 484.94 | ppb | 7857411 | 0.25 | 550 | |
| Tl | 205 | 165 | 1 | 483.46 | 483.46 | ppb | 53121260 | 0.16 | 550 | |
| Pb | 208 | 165 | 1 | 478.17 | 478.17 | ppb | 37400806 | 0.40 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1694596 | 0.85 | 1806323 | 93.8 | 70 | 130 | |
| Sc | 45 | 2 | 76320 | 1.68 | 83365 | 91.5 | 70 | 130 | |
| In | 115 | 1 | 3078050 | 0.95 | 3370573 | 91.3 | 70 | 130 | |
| In | 115 | 2 | 680521 | 0.92 | 766063 | 88.8 | 70 | 130 | |
| Tb | 159 | 1 | 4685387 | 0.24 | 4942864 | 94.8 | 70 | 130 | |
| Tb | 159 | 2 | 2590049 | 0.63 | 2747591 | 94.3 | 70 | 130 | |
| Ho | 165 | 1 | 4813824 | 0.60 | 4859401 | 94.9 | 70 | 130 | |
| Ho | 165 | 2 | 2624404 | 1.26 | 2780404 | 94.4 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **015SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T15:38:38-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.12 | 0.12 | ppb | 799 | 4.87 | 550 | |
| Na | 23 | 115 | 2 | -16.91 | -16.91 | ppb | 204282 | 0.46 | 55000 | |
| Mg | 24 | 115 | 2 | 1.96 | 1.96 | ppb | 4307 | 2.82 | 55000 | |
| Al | 27 | 115 | 2 | 1.56 | 1.56 | ppb | 519 | 6.47 | 16500 | |
| K | 39 | 115 | 2 | 1.88 | 1.88 | ppb | 33607 | 0.67 | 55000 | |
| Ca | 44 | 115 | 2 | 3.96 | 3.96 | ppb | 401 | 1.27 | 55000 | |
| V | 51 | 115 | 2 | -0.01 | -0.01 | ppb | 183 | 9.45 | 550 | |
| Cr | 52 | 115 | 2 | -0.01 | -0.01 | ppb | 1395 | 1.68 | 550 | |
| Mn | 55 | 115 | 2 | 0.05 | 0.05 | ppb | 1443 | 0.61 | 550 | |
| Fe | 56 | 115 | 2 | 6.61 | 6.61 | ppb | 132300 | 2.06 | 55000 | |
| Co | 59 | 115 | 2 | 0.05 | 0.05 | ppb | 1399 | 7.41 | 550 | |
| Ni | 60 | 115 | 2 | 0.01 | 0.01 | ppb | 459 | 25.26 | 550 | |
| Cu | 65 | 115 | 2 | -0.15 | -0.15 | ppb | 1199 | 3.97 | 550 | |
| Zn | 66 | 115 | 2 | 0.70 | 0.70 | ppb | 4806 | 2.07 | 550 | |
| As | 75 | 115 | 2 | 0.07 | 0.07 | ppb | 148 | 8.26 | 550 | |
| Se | 78 | 115 | 2 | 0.37 | 0.37 | ppb | 83 | 14.11 | 2750 | |
| Mo | 95 | 115 | 1 | 0.26 | 0.26 | ppb | 5084 | 4.14 | 550 | |
| Ag | 107 | 115 | 1 | 0.73 | 0.73 | ppb | 44076 | 10.24 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 169 | 7.32 | 550 | |
| Sb | 121 | 115 | 1 | 0.31 | 0.31 | ppb | 14498 | 1.31 | 550 | |
| Ba | 137 | 159 | 1 | 0.01 | 0.01 | ppb | 802 | 9.77 | 550 | |
| Tl | 205 | 165 | 1 | 0.55 | 0.55 | ppb | 62022 | 7.25 | 550 | |
| Pb | 208 | 165 | 1 | 0.06 | 0.06 | ppb | 6741 | 7.41 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1695631 | 0.10 | 1806323 | 93.9 | 70 | 130 | |
| Sc | 45 | 2 | 78628 | 0.17 | 83365 | 94.3 | 70 | 130 | |
| In | 115 | 1 | 3195731 | 1.13 | 3370573 | 94.8 | 70 | 130 | |
| In | 115 | 2 | 740173 | 1.25 | 766063 | 96.6 | 70 | 130 | |
| Tb | 159 | 1 | 4678128 | 1.28 | 4942864 | 94.6 | 70 | 130 | |
| Tb | 159 | 2 | 2638888 | 0.41 | 2747591 | 96.0 | 70 | 130 | |
| Ho | 165 | 1 | 4567225 | 0.83 | 4859401 | 94.0 | 70 | 130 | |
| Ho | 165 | 2 | 2676403 | 0.20 | 2780404 | 96.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **016SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T15:43:08-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.08 | 0.08 | ppb | 587 | 8.93 | 550 | |
| Na | 23 | 115 | 2 | -19.68 | -19.68 | ppb | 200025 | 1.64 | 55000 | |
| Mg | 24 | 115 | 2 | 2.90 | 2.90 | ppb | 4965 | 1.84 | 55000 | |
| Al | 27 | 115 | 2 | 2.00 | 2.00 | ppb | 626 | 5.99 | 16500 | |
| K | 39 | 115 | 2 | 1.62 | 1.62 | ppb | 33434 | 2.10 | 55000 | |
| Ca | 44 | 115 | 2 | 6.24 | 6.24 | ppb | 483 | 11.10 | 55000 | |
| V | 51 | 115 | 2 | -0.01 | -0.01 | ppb | 160 | 7.22 | 550 | |
| Cr | 52 | 115 | 2 | -0.01 | -0.01 | ppb | 1442 | 13.54 | 550 | |
| Mn | 55 | 115 | 2 | 0.06 | 0.06 | ppb | 1566 | 8.58 | 550 | |
| Fe | 56 | 115 | 2 | 5.94 | 5.94 | ppb | 125201 | 0.48 | 55000 | |
| Co | 59 | 115 | 2 | 0.07 | 0.07 | ppb | 1832 | 7.54 | 550 | |
| Ni | 60 | 115 | 2 | 0.01 | 0.01 | ppb | 482 | 7.09 | 550 | |
| Cu | 65 | 115 | 2 | -0.15 | -0.15 | ppb | 1223 | 1.91 | 550 | |
| Zn | 66 | 115 | 2 | 0.63 | 0.63 | ppb | 4627 | 3.43 | 550 | |
| As | 75 | 115 | 2 | 0.03 | 0.03 | ppb | 72 | 9.82 | 550 | |
| Se | 78 | 115 | 2 | 0.12 | 0.12 | ppb | 57 | 35.18 | 2750 | |
| Mo | 95 | 115 | 1 | 0.11 | 0.11 | ppb | 2326 | 1.46 | 550 | |
| Ag | 107 | 115 | 1 | 0.61 | 0.61 | ppb | 38249 | 8.47 | 550 | |
| Cd | 111 | 115 | 1 | 0.02 | 0.02 | ppb | 240 | 13.21 | 550 | |
| Sb | 121 | 115 | 1 | 0.07 | 0.07 | ppb | 4168 | 4.60 | 550 | |
| Ba | 137 | 159 | 1 | 0.01 | 0.01 | ppb | 753 | 19.34 | 550 | |
| Tl | 205 | 165 | 1 | 0.14 | 0.14 | ppb | 16807 | 8.95 | 550 | |
| Pb | 208 | 165 | 1 | 0.04 | 0.04 | ppb | 5198 | 2.12 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1710781 | 1.10 | 1806323 | 94.7 | 70 | 130 | |
| Sc | 45 | 2 | 79520 | 0.95 | 83366 | 95.4 | 70 | 130 | |
| In | 115 | 1 | 3227778 | 1.56 | 3370573 | 95.8 | 70 | 130 | |
| In | 115 | 2 | 739936 | 1.12 | 766063 | 96.6 | 70 | 130 | |
| Tb | 159 | 1 | 4688194 | 1.14 | 4942864 | 94.8 | 70 | 130 | |
| Tb | 159 | 2 | 2653368 | 0.57 | 2747591 | 96.6 | 70 | 130 | |
| Ho | 165 | 1 | 4631316 | 1.42 | 4859401 | 95.3 | 70 | 130 | |
| Ho | 165 | 2 | 2690977 | 0.71 | 2780404 | 96.8 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **017SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T15:47:37-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.06 | 0.06 | ppb | 470 | 6.76 | 550 | |
| Na | 23 | 115 | 2 | -24.84 | -24.84 | ppb | 194377 | 1.77 | 55000 | |
| Mg | 24 | 115 | 2 | 3.14 | 3.14 | ppb | 5201 | 1.25 | 55000 | |
| Al | 27 | 115 | 2 | 2.10 | 2.10 | ppb | 657 | 6.87 | 16500 | |
| K | 39 | 115 | 2 | 0.76 | 0.76 | ppb | 33256 | 0.86 | 55000 | |
| Ca | 44 | 115 | 2 | 6.11 | 6.11 | ppb | 483 | 7.95 | 55000 | |
| V | 51 | 115 | 2 | -0.01 | -0.01 | ppb | 239 | 18.84 | 550 | |
| Cr | 52 | 115 | 2 | -0.01 | -0.01 | ppb | 1405 | 7.20 | 550 | |
| Mn | 55 | 115 | 2 | 0.07 | 0.07 | ppb | 1598 | 4.92 | 550 | |
| Fe | 56 | 115 | 2 | 4.83 | 4.83 | ppb | 114886 | 1.96 | 55000 | |
| Co | 59 | 115 | 2 | 0.08 | 0.08 | ppb | 2012 | 7.59 | 550 | |
| Ni | 60 | 115 | 2 | 0.01 | 0.01 | ppb | 488 | 12.40 | 550 | |
| Cu | 65 | 115 | 2 | -0.15 | -0.15 | ppb | 1207 | 3.36 | 550 | |
| Zn | 66 | 115 | 2 | 0.71 | 0.71 | ppb | 4894 | 2.36 | 550 | |
| As | 75 | 115 | 2 | 0.02 | 0.02 | ppb | 59 | 1.08 | 550 | |
| Se | 78 | 115 | 2 | 0.24 | 0.24 | ppb | 70 | 21.00 | 2750 | |
| Mo | 95 | 115 | 1 | 0.08 | 0.08 | ppb | 1673 | 7.06 | 550 | |
| Ag | 107 | 115 | 1 | 0.60 | 0.60 | ppb | 38103 | 6.83 | 550 | |
| Cd | 111 | 115 | 1 | 0.02 | 0.02 | ppb | 234 | 9.22 | 550 | |
| Sb | 121 | 115 | 1 | 0.04 | 0.04 | ppb | 2886 | 9.24 | 550 | |
| Ba | 137 | 159 | 1 | 0.01 | 0.01 | ppb | 756 | 13.64 | 550 | |
| Tl | 205 | 165 | 1 | 0.10 | 0.10 | ppb | 12655 | 5.01 | 550 | |
| Pb | 208 | 165 | 1 | 0.03 | 0.03 | ppb | 4830 | 2.78 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1726391 | 0.28 | 1806323 | 95.6 | 70 | 130 | |
| Sc | 45 | 2 | 80513 | 1.01 | 83365 | 96.6 | 70 | 130 | |
| In | 115 | 1 | 3262933 | 0.68 | 3370573 | 96.8 | 70 | 130 | |
| In | 115 | 2 | 748419 | 1.16 | 766063 | 97.7 | 70 | 130 | |
| Tb | 159 | 1 | 4660677 | 0.50 | 4942864 | 94.3 | 70 | 130 | |
| Tb | 159 | 2 | 2681047 | 0.50 | 2747591 | 97.6 | 70 | 130 | |
| Ho | 165 | 1 | 4610626 | 0.43 | 4859401 | 94.9 | 70 | 130 | |
| Ho | 165 | 2 | 2706748 | 0.54 | 2780404 | 97.4 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Verification (CCV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCV V-357844** |
| **Data File Name** | **0186CCV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T15:52:05-04:00** |
| **Type** | **6-CCV** |
| **VialNumber** | **1201** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 50.41 | ppb | 50 | 265101 | 1.01 | 100.82 | 90 | 110 | |
| Na | 23 | 115 | 2 | 4678.42 | ppb | 5000 | 7173804 | 0.21 | 93.57 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 4957.72 | ppb | 5000 | 3417841 | 0.32 | 99.15 | 90 | 110 | |
| Al | 27 | 115 | 2 | 1472.24 | ppb | 1500 | 348165 | 0.67 | 98.15 | 90 | 110 | |
| K | 39 | 115 | 2 | 4973.35 | ppb | 5000 | 3141574 | 1.35 | 99.47 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 4891.62 | ppb | 5000 | 171950 | 0.78 | 97.83 | 90 | 110 | |
| V | 51 | 115 | 2 | 49.07 | ppb | 50 | 483658 | 0.32 | 98.15 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 48.69 | ppb | 50 | 617647 | 0.85 | 97.39 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 48.97 | ppb | 50 | 332405 | 1.06 | 97.95 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 4977.90 | ppb | 5000 | 51270674 | 0.80 | 99.56 | 90 | 110 | |
| Co | 59 | 115 | 2 | 49.05 | ppb | 50 | 1093051 | 0.31 | 98.11 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 49.67 | ppb | 50 | 294888 | 0.76 | 99.34 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 49.58 | ppb | 50 | 417812 | 1.08 | 99.16 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 50.02 | ppb | 50 | 125373 | 0.09 | 100.03 | 90 | 110 | |
| As | 75 | 115 | 2 | 49.84 | ppb | 50 | 76792 | 0.93 | 99.68 | 90 | 110 | |
| Se | 78 | 115 | 2 | 245.72 | ppb | 250 | 24527 | 0.45 | 98.29 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 48.44 | ppb | 50 | 924886 | 1.01 | 96.89 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 51.26 | ppb | 50 | 2710350 | 1.47 | 102.51 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 50.32 | ppb | 50 | 526954 | 0.89 | 100.64 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 50.90 | ppb | 50 | 2250257 | 1.30 | 101.81 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 49.19 | ppb | 50 | 812347 | 1.06 | 98.38 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 50.44 | ppb | 50 | 5659607 | 2.13 | 100.88 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 51.43 | ppb | 50 | 4107688 | 1.23 | 102.85 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1698208 | 0.76 | 1806323 | 94.0 | 70 | 130 | |
| Sc | 45 | 2 | 77082 | 0.92 | 83365 | 92.5 | 70 | 130 | |
| In | 115 | 1 | 3188370 | 0.50 | 3370573 | 94.6 | 70 | 130 | |
| In | 115 | 2 | 722379 | 0.51 | 766063 | 94.3 | 70 | 130 | |
| Tb | 159 | 1 | 4772252 | 1.12 | 4942864 | 96.5 | 70 | 130 | |
| Tb | 159 | 2 | 2648609 | 1.39 | 2747591 | 96.4 | 70 | 130 | |
| Ho | 165 | 1 | 4709597 | 1.35 | 4859401 | 96.9 | 70 | 130 | |
| Ho | 165 | 2 | 2697846 | 0.71 | 2780404 | 97.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Blank (CCB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCB V-357841** |
| **Data File Name** | **0196CCB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T15:56:27-04:00** |
| **Type** | **6-CCB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | ppb | 0.5 | |
| Na | 23 | 115 | 2 | -77.33 | ppb | 250 | |
| Mg | 24 | 115 | 2 | -0.48 | ppb | 250 | |
| Al | 27 | 115 | 2 | 0.31 | ppb | 100 | |
| K | 39 | 115 | 2 | -10.27 | ppb | 250 | |
| Ca | 44 | 115 | 2 | -0.47 | ppb | 250 | |
| V | 51 | 115 | 2 | 0.00 | ppb | 1 | |
| Cr | 52 | 115 | 2 | 0.00 | ppb | 1 | |
| Mn | 55 | 115 | 2 | -0.01 | ppb | 3 | |
| Fe | 56 | 115 | 2 | 2.40 | ppb | 150 | |
| Co | 59 | 115 | 2 | 0.00 | ppb | 1 | |
| Ni | 60 | 115 | 2 | 0.00 | ppb | 1.5 | |
| Cu | 65 | 115 | 2 | -0.02 | ppb | 5 | |
| Zn | 66 | 115 | 2 | -0.13 | ppb | 10 | |
| As | 75 | 115 | 2 | 0.01 | ppb | 1 | |
| Se | 78 | 115 | 2 | 0.19 | ppb | 5 | |
| Mo | 95 | 115 | 1 | 0.07 | ppb | 1 | |
| Ag | 107 | 115 | 1 | 0.23 | ppb | 0.5 | |
| Cd | 111 | 115 | 1 | 0.01 | ppb | 1 | |
| Sb | 121 | 115 | 1 | 0.05 | ppb | 1.5 | |
| Ba | 137 | 159 | 1 | 0.00 | ppb | 2.5 | |
| Tl | 205 | 165 | 1 | 0.15 | ppb | 1 | |
| Pb | 208 | 165 | 1 | 0.02 | ppb | 1.5 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1660297 | 0.76 | 1806323 | 91.9 | 70 | 130 | |
| Sc | 45 | 2 | 75028 | 1.15 | 83365 | 90.0 | 70 | 130 | |
| In | 115 | 1 | 3183265 | 0.52 | 3370573 | 94.4 | 70 | 130 | |
| In | 115 | 2 | 714439 | 0.89 | 766063 | 93.3 | 70 | 130 | |
| Tb | 159 | 1 | 4713475 | 1.48 | 4942864 | 95.4 | 70 | 130 | |
| Tb | 159 | 2 | 2632509 | 0.99 | 2747591 | 95.8 | 70 | 130 | |
| Ho | 165 | 1 | 4636487 | 0.67 | 4859401 | 95.4 | 70 | 130 | |
| Ho | 165 | 2 | 2655428 | 0.38 | 2780404 | 95.5 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **MB 94429** |
| **Data File Name** | **020SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:00:56-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2401** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.02 | 0.02 | ppb | 278 | 12.02 | 550 | |
| Na | 23 | 115 | 2 | -53.89 | -53.89 | ppb | 141973 | 0.97 | 55000 | |
| Mg | 24 | 115 | 2 | 0.92 | 0.92 | ppb | 3426 | 5.01 | 55000 | |
| Al | 27 | 115 | 2 | 4.14 | 4.14 | ppb | 1097 | 2.42 | 16500 | |
| K | 39 | 115 | 2 | -1.21 | -1.21 | ppb | 30338 | 0.52 | 55000 | |
| Ca | 44 | 115 | 2 | 34.24 | 34.24 | ppb | 1429 | 8.54 | 55000 | |
| V | 51 | 115 | 2 | 0.03 | 0.03 | ppb | 611 | 11.21 | 550 | |
| Cr | 52 | 115 | 2 | 0.25 | 0.25 | ppb | 4543 | 3.65 | 550 | |
| Mn | 55 | 115 | 2 | 0.61 | 0.61 | ppb | 5154 | 2.55 | 550 | |
| Fe | 56 | 115 | 2 | 9.37 | 9.37 | ppb | 154821 | 1.03 | 55000 | |
| Co | 59 | 115 | 2 | 0.01 | 0.01 | ppb | 394 | 12.31 | 550 | |
| Ni | 60 | 115 | 2 | 0.33 | 0.33 | ppb | 2290 | 6.72 | 550 | |
| Cu | 65 | 115 | 2 | 1.53 | 1.53 | ppb | 15010 | 1.73 | 550 | |
| Zn | 66 | 115 | 2 | 4.11 | 4.11 | ppb | 12825 | 3.21 | 550 | |
| As | 75 | 115 | 2 | 0.01 | 0.01 | ppb | 45 | 28.74 | 550 | |
| Se | 78 | 115 | 2 | 0.12 | 0.12 | ppb | 55 | 18.16 | 2750 | |
| Mo | 95 | 115 | 1 | 0.03 | 0.03 | ppb | 771 | 3.68 | 550 | |
| Ag | 107 | 115 | 1 | 0.47 | 0.47 | ppb | 30487 | 8.97 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 70 | 9.75 | 550 | |
| Sb | 121 | 115 | 1 | 0.07 | 0.07 | ppb | 4035 | 2.16 | 550 | |
| Ba | 137 | 159 | 1 | 0.12 | 0.12 | ppb | 2639 | 3.38 | 550 | |
| Tl | 205 | 165 | 1 | 0.03 | 0.03 | ppb | 5383 | 11.85 | 550 | |
| Pb | 208 | 165 | 1 | 0.09 | 0.09 | ppb | 9513 | 2.94 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1652023 | 1.28 | 1806323 | 91.5 | 70 | 130 | |
| Sc | 45 | 2 | 75353 | 1.25 | 83365 | 90.4 | 70 | 130 | |
| In | 115 | 1 | 3197243 | 0.84 | 3370573 | 94.9 | 70 | 130 | |
| In | 115 | 2 | 709926 | 0.57 | 766063 | 92.7 | 70 | 130 | |
| Tb | 159 | 1 | 4749672 | 0.80 | 4942864 | 96.1 | 70 | 130 | |
| Tb | 159 | 2 | 2650619 | 0.74 | 2747591 | 96.5 | 70 | 130 | |
| Ho | 165 | 1 | 4684888 | 0.65 | 4859401 | 96.4 | 70 | 130 | |
| Ho | 165 | 2 | 2693981 | 1.08 | 2780404 | 96.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **LCSW 94429** |
| **Data File Name** | **021SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:05:24-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2402** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 253.66 | 253.66 | ppb | 1275268 | 0.75 | 550 | |
| Na | 23 | 115 | 2 | 22708.82 | 22708.82 | ppb | 32891043 | 0.22 | 55000 | |
| Mg | 24 | 115 | 2 | 23035.81 | 23035.81 | ppb | 15374381 | 1.21 | 55000 | |
| Al | 27 | 115 | 2 | 2364.66 | 2364.66 | ppb | 541628 | 0.93 | 16500 | |
| K | 39 | 115 | 2 | 23194.48 | 23194.48 | ppb | 14061885 | 1.10 | 55000 | |
| Ca | 44 | 115 | 2 | 23206.18 | 23206.18 | ppb | 789347 | 1.33 | 55000 | |
| V | 51 | 115 | 2 | 237.37 | 237.37 | ppb | 2265349 | 1.41 | 550 | |
| Cr | 52 | 115 | 2 | 238.19 | 238.19 | ppb | 2921051 | 0.34 | 550 | |
| Mn | 55 | 115 | 2 | 236.60 | 236.60 | ppb | 1551500 | 0.91 | 550 | |
| Fe | 56 | 115 | 2 | 2451.59 | 2451.59 | ppb | 24492223 | 1.11 | 55000 | |
| Co | 59 | 115 | 2 | 233.18 | 233.18 | ppb | 5032586 | 0.60 | 550 | |
| Ni | 60 | 115 | 2 | 239.60 | 239.60 | ppb | 1376820 | 1.89 | 550 | |
| Cu | 65 | 115 | 2 | 235.97 | 235.97 | ppb | 1917557 | 1.29 | 550 | |
| Zn | 66 | 115 | 2 | 240.58 | 240.58 | ppb | 573231 | 1.25 | 550 | |
| As | 75 | 115 | 2 | 240.64 | 240.64 | ppb | 359056 | 0.26 | 550 | |
| Se | 78 | 115 | 2 | 236.76 | 236.76 | ppb | 22897 | 1.34 | 2750 | |
| Mo | 95 | 115 | 1 | 236.38 | 236.38 | ppb | 4562099 | 0.97 | 550 | |
| Ag | 107 | 115 | 1 | 49.75 | 49.75 | ppb | 2654154 | 0.82 | 550 | |
| Cd | 111 | 115 | 1 | 248.13 | 248.13 | ppb | 2621183 | 0.31 | 550 | |
| Sb | 121 | 115 | 1 | 237.53 | 237.53 | ppb | 10589089 | 0.58 | 550 | |
| Ba | 137 | 159 | 1 | 238.47 | 238.47 | ppb | 3939480 | 0.80 | 550 | |
| Tl | 205 | 165 | 1 | 245.88 | 245.88 | ppb | 27598149 | 0.85 | 550 | |
| Pb | 208 | 165 | 1 | 240.31 | 240.31 | ppb | 19200593 | 0.52 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1624310 | 0.23 | 1806323 | 89.9 | 70 | 130 | |
| Sc | 45 | 2 | 73218 | 2.14 | 83365 | 87.8 | 70 | 130 | |
| In | 115 | 1 | 3216499 | 0.51 | 3370573 | 95.4 | 70 | 130 | |
| In | 115 | 2 | 699838 | 1.58 | 766063 | 91.4 | 70 | 130 | |
| Tb | 159 | 1 | 4777148 | 1.63 | 4942864 | 96.6 | 70 | 130 | |
| Tb | 159 | 2 | 2582722 | 1.60 | 2747591 | 94.0 | 70 | 130 | |
| Ho | 165 | 1 | 4713187 | 1.42 | 4859401 | 97.0 | 70 | 130 | |
| Ho | 165 | 2 | 2641568 | 1.12 | 2780404 | 95.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **LCS MR 94429** |
| **Data File Name** | **022SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:09:33-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2403** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 250.04 | 250.04 | ppb | 1298370 | 0.32 | 550 | |
| Na | 23 | 115 | 2 | 22910.57 | 22910.57 | ppb | 33525197 | 0.31 | 55000 | |
| Mg | 24 | 115 | 2 | 23272.77 | 23272.77 | ppb | 15691963 | 1.02 | 55000 | |
| Al | 27 | 115 | 2 | 2367.48 | 2367.48 | ppb | 547856 | 0.49 | 16500 | |
| K | 39 | 115 | 2 | 23319.49 | 23319.49 | ppb | 14303570 | 1.06 | 55000 | |
| Ca | 44 | 115 | 2 | 23292.69 | 23292.69 | ppb | 800418 | 0.69 | 55000 | |
| V | 51 | 115 | 2 | 241.17 | 241.17 | ppb | 2325243 | 1.01 | 550 | |
| Cr | 52 | 115 | 2 | 238.66 | 238.66 | ppb | 2957229 | 1.17 | 550 | |
| Mn | 55 | 115 | 2 | 240.24 | 240.24 | ppb | 1591650 | 0.66 | 550 | |
| Fe | 56 | 115 | 2 | 2444.36 | 2444.36 | ppb | 24670229 | 0.17 | 55000 | |
| Co | 59 | 115 | 2 | 234.41 | 234.41 | ppb | 5111285 | 0.47 | 550 | |
| Ni | 60 | 115 | 2 | 244.33 | 244.33 | ppb | 1418273 | 0.24 | 550 | |
| Cu | 65 | 115 | 2 | 239.43 | 239.43 | ppb | 1965738 | 0.94 | 550 | |
| Zn | 66 | 115 | 2 | 242.04 | 242.04 | ppb | 582613 | 0.78 | 550 | |
| As | 75 | 115 | 2 | 241.21 | 241.21 | ppb | 363643 | 0.93 | 550 | |
| Se | 78 | 115 | 2 | 240.47 | 240.47 | ppb | 23494 | 1.30 | 2750 | |
| Mo | 95 | 115 | 1 | 239.89 | 239.89 | ppb | 4682158 | 0.84 | 550 | |
| Ag | 107 | 115 | 1 | 49.84 | 49.84 | ppb | 2694509 | 0.21 | 550 | |
| Cd | 111 | 115 | 1 | 247.31 | 247.31 | ppb | 2647985 | 0.83 | 550 | |
| Sb | 121 | 115 | 1 | 238.08 | 238.08 | ppb | 10757404 | 0.77 | 550 | |
| Ba | 137 | 159 | 1 | 239.41 | 239.41 | ppb | 4002289 | 0.49 | 550 | |
| Tl | 205 | 165 | 1 | 246.02 | 246.02 | ppb | 27939623 | 0.76 | 550 | |
| Pb | 208 | 165 | 1 | 239.87 | 239.87 | ppb | 19391790 | 0.40 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1677750 | 0.63 | 1806323 | 92.9 | 70 | 130 | |
| Sc | 45 | 2 | 75170 | 0.77 | 83365 | 90.2 | 70 | 130 | |
| In | 115 | 1 | 3260007 | 0.27 | 3370573 | 96.7 | 70 | 130 | |
| In | 115 | 2 | 707021 | 1.02 | 766063 | 92.3 | 70 | 130 | |
| Tb | 159 | 1 | 4834946 | 2.15 | 4942864 | 97.8 | 70 | 130 | |
| Tb | 159 | 2 | 2626401 | 0.54 | 2747591 | 95.6 | 70 | 130 | |
| Ho | 165 | 1 | 4768588 | 0.85 | 4859401 | 98.1 | 70 | 130 | |
| Ho | 165 | 2 | 2656211 | 1.22 | 2780404 | 95.5 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-041** |
| **Data File Name** | **023SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:13:43-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2404** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.20 | 0.20 | ppb | 1250 | 5.19 | 550 | |
| Na | 23 | 115 | 2 | 608454.50 | 608454.50 | ppb | 809612130 | 1.13 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 68516.43 | 68516.43 | ppb | 42269379 | 1.16 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 10.42 | 10.42 | ppb | 2330 | 2.99 | 16500 | |
| K | 39 | 115 | 2 | 49383.56 | 49383.56 | ppb | 27684778 | 1.02 | 55000 | |
| Ca | 44 | 115 | 2 | 51136.07 | 51136.07 | ppb | 1607644 | 0.80 | 55000 | |
| V | 51 | 115 | 2 | 6.35 | 6.35 | ppb | 56245 | 1.40 | 550 | |
| Cr | 52 | 115 | 2 | 3.08 | 3.08 | ppb | 36211 | 1.88 | 550 | |
| Mn | 55 | 115 | 2 | 255.53 | 255.53 | ppb | 1549089 | 0.43 | 550 | |
| Fe | 56 | 115 | 2 | 5217.98 | 5217.98 | ppb | 48129699 | 1.14 | 55000 | |
| Co | 59 | 115 | 2 | 3.52 | 3.52 | ppb | 70374 | 1.06 | 550 | |
| Ni | 60 | 115 | 2 | 8.34 | 8.34 | ppb | 44608 | 0.01 | 550 | |
| Cu | 65 | 115 | 2 | 0.53 | 0.53 | ppb | 6195 | 3.01 | 550 | |
| Zn | 66 | 115 | 2 | 4.23 | 4.23 | ppb | 11933 | 1.84 | 550 | |
| As | 75 | 115 | 2 | 0.96 | 0.96 | ppb | 1357 | 2.93 | 550 | |
| Se | 78 | 115 | 2 | 0.50 | 0.50 | ppb | 84 | 33.76 | 2750 | |
| Mo | 95 | 115 | 1 | 0.24 | 0.24 | ppb | 4515 | 3.00 | 550 | |
| Ag | 107 | 115 | 1 | 1.99 | 1.99 | ppb | 103308 | 8.41 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 154 | 11.06 | 550 | |
| Sb | 121 | 115 | 1 | 0.26 | 0.26 | ppb | 11669 | 1.69 | 550 | |
| Ba | 137 | 159 | 1 | 972.72 | 972.72 | ppb | 15470376 | 1.24 | 550 | >LDR |
| Tl | 205 | 165 | 1 | 0.51 | 0.51 | ppb | 56454 | 6.35 | 550 | |
| Pb | 208 | 165 | 1 | 0.10 | 0.10 | ppb | 9847 | 3.08 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1751227 | 0.51 | 1806323 | 96.9 | 70 | 130 | |
| Sc | 45 | 2 | 76770 | 1.76 | 83365 | 92.1 | 70 | 130 | |
| In | 115 | 1 | 2974162 | 0.71 | 3370573 | 88.2 | 70 | 130 | |
| In | 115 | 2 | 646926 | 0.57 | 766063 | 84.4 | 70 | 130 | |
| Tb | 159 | 1 | 4599155 | 0.42 | 4942864 | 93.0 | 70 | 130 | |
| Tb | 159 | 2 | 2477542 | 0.45 | 2747591 | 90.2 | 70 | 130 | |
| Ho | 165 | 1 | 4540855 | 0.83 | 4859401 | 93.4 | 70 | 130 | |
| Ho | 165 | 2 | 2522922 | 2.29 | 2780404 | 90.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-041 MR** |
| **Data File Name** | **024SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:18:08-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2405** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.14 | 0.14 | ppb | 925 | 1.70 | 550 | |
| Na | 23 | 115 | 2 | 550613.61 | 550613.61 | ppb | 738174949 | 0.75 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 62503.30 | 62503.30 | ppb | 38835494 | 0.62 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 9.39 | 9.39 | ppb | 2127 | 2.46 | 16500 | |
| K | 39 | 115 | 2 | 44901.44 | 44901.44 | ppb | 25354529 | 0.74 | 55000 | |
| Ca | 44 | 115 | 2 | 45794.30 | 45794.30 | ppb | 1450044 | 1.32 | 55000 | |
| V | 51 | 115 | 2 | 5.82 | 5.82 | ppb | 52002 | 0.58 | 550 | |
| Cr | 52 | 115 | 2 | 2.74 | 2.74 | ppb | 32668 | 1.22 | 550 | |
| Mn | 55 | 115 | 2 | 231.94 | 231.94 | ppb | 1416281 | 0.76 | 550 | |
| Fe | 56 | 115 | 2 | 4770.86 | 4770.86 | ppb | 44323898 | 0.29 | 55000 | |
| Co | 59 | 115 | 2 | 3.19 | 3.19 | ppb | 64280 | 1.15 | 550 | |
| Ni | 60 | 115 | 2 | 7.56 | 7.56 | ppb | 40759 | 2.62 | 550 | |
| Cu | 65 | 115 | 2 | 0.50 | 0.50 | ppb | 5971 | 3.67 | 550 | |
| Zn | 66 | 115 | 2 | 3.97 | 3.97 | ppb | 11453 | 3.74 | 550 | |
| As | 75 | 115 | 2 | 0.84 | 0.84 | ppb | 1190 | 5.56 | 550 | |
| Se | 78 | 115 | 2 | 0.46 | 0.46 | ppb | 81 | 5.48 | 2750 | |
| Mo | 95 | 115 | 1 | 0.14 | 0.14 | ppb | 2731 | 4.87 | 550 | |
| Ag | 107 | 115 | 1 | 1.86 | 1.86 | ppb | 96675 | 7.93 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 103 | 9.02 | 550 | |
| Sb | 121 | 115 | 1 | 0.15 | 0.15 | ppb | 6916 | 1.28 | 550 | |
| Ba | 137 | 159 | 1 | 887.27 | 887.27 | ppb | 14103729 | 0.40 | 550 | >LDR |
| Tl | 205 | 165 | 1 | 0.10 | 0.10 | ppb | 13022 | 7.89 | 550 | |
| Pb | 208 | 165 | 1 | 0.17 | 0.17 | ppb | 15058 | 1.14 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1756036 | 0.63 | 1806323 | 97.2 | 70 | 130 | |
| Sc | 45 | 2 | 77417 | 2.12 | 83365 | 92.9 | 70 | 130 | |
| In | 115 | 1 | 2968199 | 0.35 | 3370573 | 88.1 | 70 | 130 | |
| In | 115 | 2 | 651553 | 0.38 | 766063 | 85.1 | 70 | 130 | |
| Tb | 159 | 1 | 4596796 | 0.36 | 4942864 | 93.0 | 70 | 130 | |
| Tb | 159 | 2 | 2492168 | 0.74 | 2747591 | 90.7 | 70 | 130 | |
| Ho | 165 | 1 | 4563265 | 0.51 | 4859401 | 93.9 | 70 | 130 | |
| Ho | 165 | 2 | 2530583 | 0.37 | 2780404 | 91.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-041 SD** |
| **Data File Name** | **025SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:22:31-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2409** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.05 | 0.05 | ppb | 474 | 15.65 | 550 | |
| Na | 23 | 115 | 2 | 121187.12 | 121187.12 | ppb | 187508628 | 0.24 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 13924.64 | 13924.64 | ppb | 9982517 | 0.99 | 55000 | |
| Al | 27 | 115 | 2 | 2.38 | 2.38 | ppb | 729 | 5.72 | 16500 | |
| K | 39 | 115 | 2 | 10064.52 | 10064.52 | ppb | 6580956 | 0.48 | 55000 | |
| Ca | 44 | 115 | 2 | 9825.92 | 9825.92 | ppb | 359074 | 0.29 | 55000 | |
| V | 51 | 115 | 2 | 1.23 | 1.23 | ppb | 12877 | 3.06 | 550 | |
| Cr | 52 | 115 | 2 | 0.59 | 0.59 | ppb | 9367 | 1.36 | 550 | |
| Mn | 55 | 115 | 2 | 50.99 | 50.99 | ppb | 360067 | 1.78 | 550 | |
| Fe | 56 | 115 | 2 | 1066.23 | 1066.23 | ppb | 11475822 | 0.75 | 55000 | |
| Co | 59 | 115 | 2 | 0.69 | 0.69 | ppb | 16120 | 1.07 | 550 | |
| Ni | 60 | 115 | 2 | 1.73 | 1.73 | ppb | 11104 | 1.54 | 550 | |
| Cu | 65 | 115 | 2 | 0.16 | 0.16 | ppb | 3913 | 5.03 | 550 | |
| Zn | 66 | 115 | 2 | 3.63 | 3.63 | ppb | 12338 | 2.46 | 550 | |
| As | 75 | 115 | 2 | 0.18 | 0.18 | ppb | 315 | 2.85 | 550 | |
| Se | 78 | 115 | 2 | 0.21 | 0.21 | ppb | 67 | 13.80 | 2750 | |
| Mo | 95 | 115 | 1 | 0.04 | 0.04 | ppb | 1029 | 3.74 | 550 | |
| Ag | 107 | 115 | 1 | 0.23 | 0.23 | ppb | 18321 | 6.35 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 71 | 25.75 | 550 | |
| Sb | 121 | 115 | 1 | 0.05 | 0.05 | ppb | 2967 | 2.14 | 550 | |
| Ba | 137 | 159 | 1 | 206.76 | 206.76 | ppb | 3531291 | 0.62 | 550 | |
| Tl | 205 | 165 | 1 | 0.05 | 0.05 | ppb | 7542 | 11.80 | 550 | |
| Pb | 208 | 165 | 1 | 0.03 | 0.03 | ppb | 4391 | 3.19 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1892718 | 0.33 | 1806323 | 104.8 | 70 | 130 | |
| Sc | 45 | 2 | 87016 | 0.81 | 83365 | 104.4 | 70 | 130 | |
| In | 115 | 1 | 3314100 | 0.85 | 3370573 | 98.3 | 70 | 130 | |
| In | 115 | 2 | 751602 | 1.15 | 766063 | 98.1 | 70 | 130 | |
| Tb | 159 | 1 | 4938209 | 0.60 | 4942864 | 99.9 | 70 | 130 | |
| Tb | 159 | 2 | 2715733 | 0.74 | 2747591 | 98.8 | 70 | 130 | |
| Ho | 165 | 1 | 4860963 | 0.41 | 4859401 | 100.0 | 70 | 130 | |
| Ho | 165 | 2 | 2785607 | 0.71 | 2780404 | 100.2 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-043 MS 1** |
| **Data File Name** | **026SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:26:56-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2406** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 226.57 | 226.57 | ppb | 1216231 | 0.91 | 550 | |
| Na | 23 | 115 | 2 | 473373.34 | 473373.34 | ppb | 657084746 | 0.83 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 73470.37 | 73470.37 | ppb | 47279319 | 0.59 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 2333.69 | 2333.69 | ppb | 515472 | 0.25 | 16500 | |
| K | 39 | 115 | 2 | 59692.01 | 59692.01 | ppb | 34900321 | 0.48 | 55000 | >LDR |
| Ca | 44 | 115 | 2 | 60692.71 | 60692.71 | ppb | 1990332 | 0.69 | 55000 | >LDR |
| V | 51 | 115 | 2 | 240.81 | 240.81 | ppb | 2215954 | 1.44 | 550 | |
| Cr | 52 | 115 | 2 | 230.46 | 230.46 | ppb | 2725693 | 0.92 | 550 | |
| Mn | 55 | 115 | 2 | 411.56 | 411.56 | ppb | 2602039 | 0.50 | 550 | |
| Fe | 56 | 115 | 2 | 6228.38 | 6228.38 | ppb | 59914012 | 0.26 | 55000 | |
| Co | 59 | 115 | 2 | 222.84 | 222.84 | ppb | 4637973 | 0.33 | 550 | |
| Ni | 60 | 115 | 2 | 219.68 | 219.68 | ppb | 1217185 | 0.16 | 550 | |
| Cu | 65 | 115 | 2 | 217.86 | 217.86 | ppb | 1707394 | 0.29 | 550 | |
| Zn | 66 | 115 | 2 | 215.88 | 215.88 | ppb | 496301 | 0.60 | 550 | |
| As | 75 | 115 | 2 | 230.17 | 230.17 | ppb | 331207 | 0.41 | 550 | |
| Se | 78 | 115 | 2 | 222.75 | 222.75 | ppb | 20775 | 1.09 | 2750 | |
| Mo | 95 | 115 | 1 | 229.71 | 229.71 | ppb | 4221964 | 0.68 | 550 | |
| Ag | 107 | 115 | 1 | 44.45 | 44.45 | ppb | 2263806 | 1.05 | 550 | |
| Cd | 111 | 115 | 1 | 223.94 | 223.94 | ppb | 2257797 | 0.39 | 550 | |
| Sb | 121 | 115 | 1 | 222.91 | 222.91 | ppb | 9484282 | 0.65 | 550 | |
| Ba | 137 | 159 | 1 | 975.44 | 975.44 | ppb | 15636978 | 0.52 | 550 | >LDR |
| Tl | 205 | 165 | 1 | 215.55 | 215.55 | ppb | 23501749 | 0.43 | 550 | |
| Pb | 208 | 165 | 1 | 210.15 | 210.15 | ppb | 16311254 | 0.62 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1734294 | 0.65 | 1806323 | 96.0 | 70 | 130 | |
| Sc | 45 | 2 | 77597 | 0.61 | 83365 | 93.1 | 70 | 130 | |
| In | 115 | 1 | 3069634 | 0.15 | 3370573 | 91.1 | 70 | 130 | |
| In | 115 | 2 | 674828 | 0.56 | 766063 | 88.1 | 70 | 130 | |
| Tb | 159 | 1 | 4636034 | 0.69 | 4942864 | 93.8 | 70 | 130 | |
| Tb | 159 | 2 | 2502309 | 0.48 | 2747591 | 91.1 | 70 | 130 | |
| Ho | 165 | 1 | 4577951 | 0.25 | 4859401 | 94.2 | 70 | 130 | |
| Ho | 165 | 2 | 2524021 | 0.30 | 2780404 | 90.8 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |



Printed at: 4:28 PM on:9/23/2021

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-045 MS 2** |
| **Data File Name** | **027SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:31:05-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2407** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 234.34 | 234.34 | ppb | 1253067 | 0.44 | 550 | |
| Na | 23 | 115 | 2 | 496704.92 | 496704.92 | ppb | 683831985 | 1.45 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 76600.23 | 76600.23 | ppb | 48889113 | 0.56 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 2427.03 | 2427.03 | ppb | 531697 | 1.02 | 16500 | |
| K | 39 | 115 | 2 | 62160.00 | 62160.00 | ppb | 36044611 | 0.94 | 55000 | >LDR |
| Ca | 44 | 115 | 2 | 63777.93 | 63777.93 | ppb | 2074359 | 0.78 | 55000 | >LDR |
| V | 51 | 115 | 2 | 250.38 | 250.38 | ppb | 2285223 | 0.48 | 550 | |
| Cr | 52 | 115 | 2 | 240.75 | 240.75 | ppb | 2823901 | 0.55 | 550 | |
| Mn | 55 | 115 | 2 | 427.54 | 427.54 | ppb | 2681024 | 1.54 | 550 | |
| Fe | 56 | 115 | 2 | 6500.55 | 6500.55 | ppb | 62020599 | 1.32 | 55000 | |
| Co | 59 | 115 | 2 | 231.72 | 231.72 | ppb | 4783290 | 0.89 | 550 | |
| Ni | 60 | 115 | 2 | 229.75 | 229.75 | ppb | 1262603 | 1.01 | 550 | |
| Cu | 65 | 115 | 2 | 226.75 | 226.75 | ppb | 1762355 | 0.85 | 550 | |
| Zn | 66 | 115 | 2 | 224.68 | 224.68 | ppb | 512181 | 0.63 | 550 | |
| As | 75 | 115 | 2 | 238.99 | 238.99 | ppb | 341070 | 0.59 | 550 | |
| Se | 78 | 115 | 2 | 233.21 | 233.21 | ppb | 21571 | 0.63 | 2750 | |
| Mo | 95 | 115 | 1 | 239.27 | 239.27 | ppb | 4397919 | 1.20 | 550 | |
| Ag | 107 | 115 | 1 | 45.92 | 45.92 | ppb | 2338749 | 1.38 | 550 | |
| Cd | 111 | 115 | 1 | 231.89 | 231.89 | ppb | 2338147 | 1.32 | 550 | |
| Sb | 121 | 115 | 1 | 231.28 | 231.28 | ppb | 9841108 | 0.80 | 550 | |
| Ba | 137 | 159 | 1 | 1015.24 | 1015.24 | ppb | 16187195 | 0.84 | 550 | >LDR |
| Tl | 205 | 165 | 1 | 225.45 | 225.45 | ppb | 24455061 | 1.29 | 550 | |
| Pb | 208 | 165 | 1 | 218.86 | 218.86 | ppb | 16899368 | 0.85 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1727655 | 0.49 | 1806323 | 95.6 | 70 | 130 | |
| Sc | 45 | 2 | 76285 | 1.18 | 83365 | 91.5 | 70 | 130 | |
| In | 115 | 1 | 3070035 | 0.82 | 3370573 | 91.1 | 70 | 130 | |
| In | 115 | 2 | 669303 | 0.83 | 766063 | 87.4 | 70 | 130 | |
| Tb | 159 | 1 | 4610837 | 0.78 | 4942864 | 93.3 | 70 | 130 | |
| Tb | 159 | 2 | 2472909 | 0.30 | 2747591 | 90.0 | 70 | 130 | |
| Ho | 165 | 1 | 4554687 | 1.58 | 4859401 | 93.7 | 70 | 130 | |
| Ho | 165 | 2 | 2516571 | 0.46 | 2780404 | 90.5 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-041 PS** |
| **Data File Name** | **028SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:35:15-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2408** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 47.48 | 47.48 | ppb | 254257 | 0.36 | 550 | |
| Na | 23 | 115 | 2 | 599062.23 | 599062.23 | ppb | 783475526 | 0.50 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 72049.13 | 72049.13 | ppb | 43690999 | 1.24 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 1563.87 | 1563.87 | ppb | 325546 | 1.14 | 16500 | |
| K | 39 | 115 | 2 | 53285.04 | 53285.04 | ppb | 29361300 | 1.48 | 55000 | |
| Ca | 44 | 115 | 2 | 54540.06 | 54540.06 | ppb | 1685486 | 1.64 | 55000 | |
| V | 51 | 115 | 2 | 59.68 | 59.68 | ppb | 517892 | 1.17 | 550 | |
| Cr | 52 | 115 | 2 | 54.49 | 54.49 | ppb | 608206 | 0.62 | 550 | |
| Mn | 55 | 115 | 2 | 298.97 | 298.97 | ppb | 1781331 | 0.52 | 550 | |
| Fe | 56 | 115 | 2 | 10188.24 | 10188.24 | ppb | 92312408 | 0.54 | 55000 | |
| Co | 59 | 115 | 2 | 53.56 | 53.56 | ppb | 1050520 | 0.49 | 550 | |
| Ni | 60 | 115 | 2 | 56.85 | 56.85 | ppb | 297041 | 0.34 | 550 | |
| Cu | 65 | 115 | 2 | 49.18 | 49.18 | ppb | 364858 | 1.00 | 550 | |
| Zn | 66 | 115 | 2 | 54.47 | 54.47 | ppb | 119963 | 1.15 | 550 | |
| As | 75 | 115 | 2 | 52.17 | 52.17 | ppb | 70752 | 0.21 | 550 | |
| Se | 78 | 115 | 2 | 248.35 | 248.35 | ppb | 21820 | 0.54 | 2750 | |
| Mo | 95 | 115 | 1 | 51.04 | 51.04 | ppb | 890879 | 0.49 | 550 | |
| Ag | 107 | 115 | 1 | 52.49 | 52.49 | ppb | 2537282 | 1.51 | 550 | |
| Cd | 111 | 115 | 1 | 48.32 | 48.32 | ppb | 462613 | 0.15 | 550 | |
| Sb | 121 | 115 | 1 | 51.32 | 51.32 | ppb | 2073819 | 0.39 | 550 | |
| Ba | 137 | 159 | 1 | 990.55 | 990.55 | ppb | 15676222 | 0.08 | 550 | >LDR |
| Tl | 205 | 165 | 1 | 47.23 | 47.23 | ppb | 5069397 | 0.36 | 550 | |
| Pb | 208 | 165 | 1 | 47.47 | 47.47 | ppb | 3627337 | 0.74 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1729328 | 1.13 | 1806323 | 95.7 | 70 | 130 | |
| Sc | 45 | 2 | 75550 | 1.32 | 83365 | 90.6 | 70 | 130 | |
| In | 115 | 1 | 2914958 | 0.48 | 3370573 | 86.5 | 70 | 130 | |
| In | 115 | 2 | 635920 | 1.44 | 766063 | 83.0 | 70 | 130 | |
| Tb | 159 | 1 | 4576596 | 0.35 | 4942864 | 92.6 | 70 | 130 | |
| Tb | 159 | 2 | 2427747 | 0.67 | 2747591 | 88.4 | 70 | 130 | |
| Ho | 165 | 1 | 4505578 | 0.79 | 4859401 | 92.7 | 70 | 130 | |
| Ho | 165 | 2 | 2474717 | 0.42 | 2780404 | 89.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **029SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:39:33-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.08 | 0.08 | ppb | 652 | 7.82 | 550 | |
| Na | 23 | 115 | 2 | 127.46 | 127.46 | ppb | 461239 | 0.83 | 55000 | |
| Mg | 24 | 115 | 2 | 4.29 | 4.29 | ppb | 6474 | 3.94 | 55000 | |
| Al | 27 | 115 | 2 | 2.01 | 2.01 | ppb | 684 | 4.93 | 16500 | |
| K | 39 | 115 | 2 | 24.46 | 24.46 | ppb | 52302 | 0.60 | 55000 | |
| Ca | 44 | 115 | 2 | 6.85 | 6.85 | ppb | 550 | 22.64 | 55000 | |
| V | 51 | 115 | 2 | -0.01 | -0.01 | ppb | 264 | 12.37 | 550 | |
| Cr | 52 | 115 | 2 | -0.01 | -0.01 | ppb | 1507 | 4.66 | 550 | |
| Mn | 55 | 115 | 2 | 0.07 | 0.07 | ppb | 1742 | 3.44 | 550 | |
| Fe | 56 | 115 | 2 | 4.87 | 4.87 | ppb | 124030 | 1.34 | 55000 | |
| Co | 59 | 115 | 2 | 0.03 | 0.03 | ppb | 935 | 3.57 | 550 | |
| Ni | 60 | 115 | 2 | 0.01 | 0.01 | ppb | 486 | 3.78 | 550 | |
| Cu | 65 | 115 | 2 | -0.14 | -0.14 | ppb | 1400 | 10.08 | 550 | |
| Zn | 66 | 115 | 2 | 0.86 | 0.86 | ppb | 5667 | 1.77 | 550 | |
| As | 75 | 115 | 2 | 0.02 | 0.02 | ppb | 64 | 6.57 | 550 | |
| Se | 78 | 115 | 2 | 0.30 | 0.30 | ppb | 83 | 26.95 | 2750 | |
| Mo | 95 | 115 | 1 | 0.10 | 0.10 | ppb | 2332 | 1.40 | 550 | |
| Ag | 107 | 115 | 1 | 0.39 | 0.39 | ppb | 28393 | 8.00 | 550 | |
| Cd | 111 | 115 | 1 | 0.02 | 0.02 | ppb | 256 | 3.31 | 550 | |
| Sb | 121 | 115 | 1 | 0.07 | 0.07 | ppb | 4383 | 5.67 | 550 | |
| Ba | 137 | 159 | 1 | 0.04 | 0.04 | ppb | 1273 | 7.57 | 550 | |
| Tl | 205 | 165 | 1 | 0.32 | 0.32 | ppb | 39085 | 10.26 | 550 | |
| Pb | 208 | 165 | 1 | 0.03 | 0.03 | ppb | 4360 | 1.63 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1937417 | 0.47 | 1806323 | 107.3 | 70 | 130 | |
| Sc | 45 | 2 | 90108 | 0.77 | 83365 | 108.1 | 70 | 130 | |
| In | 115 | 1 | 3458917 | 0.20 | 3370573 | 102.6 | 70 | 130 | |
| In | 115 | 2 | 805177 | 0.72 | 766063 | 105.1 | 70 | 130 | |
| Tb | 159 | 1 | 4996978 | 0.55 | 4942864 | 101.1 | 70 | 130 | |
| Tb | 159 | 2 | 2807750 | 0.88 | 2747591 | 102.2 | 70 | 130 | |
| Ho | 165 | 1 | 4864555 | 0.70 | 4859401 | 100.1 | 70 | 130 | |
| Ho | 165 | 2 | 2838880 | 1.17 | 2780404 | 102.1 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Verification (CCV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCV V-357844** |
| **Data File Name** | **0306CCV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:44:02-04:00** |
| **Type** | **6-CCV** |
| **VialNumber** | **1201** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 49.39 | ppb | 50 | 281639 | 1.18 | 98.78 | 90 | 110 | |
| Na | 23 | 115 | 2 | 4850.04 | ppb | 5000 | 7776447 | 0.75 | 97.00 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 4991.60 | ppb | 5000 | 3602139 | 0.38 | 99.83 | 90 | 110 | |
| Al | 27 | 115 | 2 | 1491.97 | ppb | 1500 | 369332 | 1.11 | 99.46 | 90 | 110 | |
| K | 39 | 115 | 2 | 5037.80 | ppb | 5000 | 3330902 | 0.98 | 100.76 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 4978.35 | ppb | 5000 | 183178 | 0.26 | 99.57 | 90 | 110 | |
| V | 51 | 115 | 2 | 49.93 | ppb | 50 | 515153 | 0.24 | 99.86 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 49.51 | ppb | 50 | 657303 | 0.34 | 99.01 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 49.93 | ppb | 50 | 354723 | 0.55 | 99.86 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 5054.14 | ppb | 5000 | 54492823 | 0.60 | 101.08 | 90 | 110 | |
| Co | 59 | 115 | 2 | 49.70 | ppb | 50 | 1159207 | 0.43 | 99.39 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 50.09 | ppb | 50 | 311312 | 0.95 | 100.18 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 49.73 | ppb | 50 | 438695 | 0.46 | 99.46 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 49.89 | ppb | 50 | 130911 | 1.11 | 99.78 | 90 | 110 | |
| As | 75 | 115 | 2 | 50.03 | ppb | 50 | 80689 | 0.89 | 100.05 | 90 | 110 | |
| Se | 78 | 115 | 2 | 252.29 | ppb | 250 | 26360 | 0.68 | 100.91 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 48.62 | ppb | 50 | 969326 | 1.35 | 97.24 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 51.36 | ppb | 50 | 2836186 | 1.33 | 102.73 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 50.16 | ppb | 50 | 548478 | 0.93 | 100.31 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 50.68 | ppb | 50 | 2339637 | 1.51 | 101.37 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 49.24 | ppb | 50 | 840076 | 0.78 | 98.48 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 50.07 | ppb | 50 | 5812905 | 1.15 | 100.13 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 50.13 | ppb | 50 | 4143778 | 0.48 | 100.26 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1841389 | 0.80 | 1806323 | 101.9 | 70 | 130 | |
| Sc | 45 | 2 | 81613 | 0.52 | 83365 | 97.9 | 70 | 130 | |
| In | 115 | 1 | 3329478 | 0.61 | 3370573 | 98.8 | 70 | 130 | |
| In | 115 | 2 | 756181 | 0.43 | 766063 | 98.7 | 70 | 130 | |
| Tb | 159 | 1 | 4930086 | 0.66 | 4942864 | 99.7 | 70 | 130 | |
| Tb | 159 | 2 | 2723666 | 0.53 | 2747591 | 99.1 | 70 | 130 | |
| Ho | 165 | 1 | 4873557 | 0.43 | 4859401 | 100.3 | 70 | 130 | |
| Ho | 165 | 2 | 2767976 | 1.63 | 2780404 | 99.6 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Blank (CCB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCB V-357841** |
| **Data File Name** | **0316CCB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:48:22-04:00** |
| **Type** | **6-CCB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.04 | ppb | 0.5 | |
| Na | 23 | 115 | 2 | 9.20 | ppb | 250 | |
| Mg | 24 | 115 | 2 | 0.05 | ppb | 250 | |
| Al | 27 | 115 | 2 | 0.37 | ppb | 100 | |
| K | 39 | 115 | 2 | 3.77 | ppb | 250 | |
| Ca | 44 | 115 | 2 | 0.80 | ppb | 250 | |
| V | 51 | 115 | 2 | 0.00 | ppb | 1 | |
| Cr | 52 | 115 | 2 | -0.01 | ppb | 1 | |
| Mn | 55 | 115 | 2 | -0.01 | ppb | 3 | |
| Fe | 56 | 115 | 2 | 2.51 | ppb | 150 | |
| Co | 59 | 115 | 2 | 0.01 | ppb | 1 | |
| Ni | 60 | 115 | 2 | 0.00 | ppb | 1.5 | |
| Cu | 65 | 115 | 2 | -0.04 | ppb | 5 | |
| Zn | 66 | 115 | 2 | -0.09 | ppb | 10 | |
| As | 75 | 115 | 2 | 0.02 | ppb | 1 | |
| Se | 78 | 115 | 2 | 0.27 | ppb | 5 | |
| Mo | 95 | 115 | 1 | 0.07 | ppb | 1 | |
| Ag | 107 | 115 | 1 | 0.13 | ppb | 0.5 | |
| Cd | 111 | 115 | 1 | 0.01 | ppb | 1 | |
| Sb | 121 | 115 | 1 | 0.06 | ppb | 1.5 | |
| Ba | 137 | 159 | 1 | 0.01 | ppb | 2.5 | |
| Tl | 205 | 165 | 1 | 0.17 | ppb | 1 | |
| Pb | 208 | 165 | 1 | 0.02 | ppb | 1.5 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1807232 | 0.21 | 1806323 | 100.1 | 70 | 130 | |
| Sc | 45 | 2 | 81382 | 0.68 | 83365 | 97.6 | 70 | 130 | |
| In | 115 | 1 | 3335370 | 1.21 | 3370573 | 99.0 | 70 | 130 | |
| In | 115 | 2 | 755028 | 0.64 | 766063 | 98.6 | 70 | 130 | |
| Tb | 159 | 1 | 4834906 | 0.96 | 4942864 | 97.8 | 70 | 130 | |
| Tb | 159 | 2 | 2731880 | 0.25 | 2747591 | 99.4 | 70 | 130 | |
| Ho | 165 | 1 | 4763966 | 0.15 | 4859401 | 98.0 | 70 | 130 | |
| Ho | 165 | 2 | 2750845 | 0.30 | 2780404 | 98.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-004** |
| **Data File Name** | **032SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:52:51-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2410** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 334 | 8.93 | 550 | |
| Na | 23 | 115 | 2 | 5903.91 | 5903.91 | ppb | 8689998 | 1.08 | 55000 | |
| Mg | 24 | 115 | 2 | 10087.23 | 10087.23 | ppb | 6715972 | 0.60 | 55000 | |
| Al | 27 | 115 | 2 | 2.46 | 2.46 | ppb | 694 | 7.13 | 16500 | |
| K | 39 | 115 | 2 | 529.33 | 529.33 | ppb | 350385 | 0.89 | 55000 | |
| Ca | 44 | 115 | 2 | 24519.22 | 24519.22 | ppb | 831743 | 0.32 | 55000 | |
| V | 51 | 115 | 2 | 0.86 | 0.86 | ppb | 8467 | 4.21 | 550 | |
| Cr | 52 | 115 | 2 | 0.10 | 0.10 | ppb | 2696 | 4.14 | 550 | |
| Mn | 55 | 115 | 2 | 40.56 | 40.56 | ppb | 266151 | 0.65 | 550 | |
| Fe | 56 | 115 | 2 | 17.47 | 17.47 | ppb | 232713 | 0.97 | 55000 | |
| Co | 59 | 115 | 2 | 0.04 | 0.04 | ppb | 1031 | 9.56 | 550 | |
| Ni | 60 | 115 | 2 | 1.11 | 1.11 | ppb | 6738 | 5.62 | 550 | |
| Cu | 65 | 115 | 2 | 0.60 | 0.60 | ppb | 7194 | 3.43 | 550 | |
| Zn | 66 | 115 | 2 | 10.17 | 10.17 | ppb | 26926 | 2.12 | 550 | |
| As | 75 | 115 | 2 | 0.29 | 0.29 | ppb | 457 | 6.75 | 550 | |
| Se | 78 | 115 | 2 | 0.21 | 0.21 | ppb | 62 | 13.48 | 2750 | |
| Mo | 95 | 115 | 1 | 0.17 | 0.17 | ppb | 3368 | 1.22 | 550 | |
| Ag | 107 | 115 | 1 | 1.27 | 1.27 | ppb | 72458 | 6.98 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 67 | 4.14 | 550 | |
| Sb | 121 | 115 | 1 | 0.12 | 0.12 | ppb | 6081 | 1.76 | 550 | |
| Ba | 137 | 159 | 1 | 108.35 | 108.35 | ppb | 1812690 | 0.38 | 550 | |
| Tl | 205 | 165 | 1 | 0.05 | 0.05 | ppb | 7831 | 8.49 | 550 | |
| Pb | 208 | 165 | 1 | 0.06 | 0.06 | ppb | 7089 | 1.69 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1717988 | 0.62 | 1806323 | 95.1 | 70 | 130 | |
| Sc | 45 | 2 | 74661 | 1.14 | 83365 | 89.6 | 70 | 130 | |
| In | 115 | 1 | 3187011 | 0.38 | 3370573 | 94.6 | 70 | 130 | |
| In | 115 | 2 | 697984 | 1.17 | 766063 | 91.1 | 70 | 130 | |
| Tb | 159 | 1 | 4836681 | 0.70 | 4942864 | 97.9 | 70 | 130 | |
| Tb | 159 | 2 | 2654895 | 0.36 | 2747591 | 96.6 | 70 | 130 | |
| Ho | 165 | 1 | 4808598 | 0.61 | 4859401 | 99.0 | 70 | 130 | |
| Ho | 165 | 2 | 2691162 | 0.52 | 2780404 | 96.8 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-007** |
| **Data File Name** | **033SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T16:57:20-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2411** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 330 | 18.54 | 550 | |
| Na | 23 | 115 | 2 | 4150.30 | 4150.30 | ppb | 6140824 | 0.52 | 55000 | |
| Mg | 24 | 115 | 2 | 7963.29 | 7963.29 | ppb | 5274620 | 0.43 | 55000 | |
| Al | 27 | 115 | 2 | 2.61 | 2.61 | ppb | 726 | 8.12 | 16500 | |
| K | 39 | 115 | 2 | 529.40 | 529.40 | ppb | 348577 | 0.88 | 55000 | |
| Ca | 44 | 115 | 2 | 20817.25 | 20817.25 | ppb | 702510 | 0.88 | 55000 | |
| V | 51 | 115 | 2 | 0.21 | 0.21 | ppb | 2294 | 1.48 | 550 | |
| Cr | 52 | 115 | 2 | 0.11 | 0.11 | ppb | 2718 | 9.16 | 550 | |
| Mn | 55 | 115 | 2 | 162.32 | 162.32 | ppb | 1056485 | 1.27 | 550 | |
| Fe | 56 | 115 | 2 | 36.39 | 36.39 | ppb | 418562 | 0.69 | 55000 | |
| Co | 59 | 115 | 2 | 0.03 | 0.03 | ppb | 811 | 5.11 | 550 | |
| Ni | 60 | 115 | 2 | 0.26 | 0.26 | ppb | 1861 | 9.79 | 550 | |
| Cu | 65 | 115 | 2 | 0.75 | 0.75 | ppb | 8363 | 1.14 | 550 | |
| Zn | 66 | 115 | 2 | 8.03 | 8.03 | ppb | 21744 | 3.59 | 550 | |
| As | 75 | 115 | 2 | 0.39 | 0.39 | ppb | 611 | 7.01 | 550 | |
| Se | 78 | 115 | 2 | 0.05 | 0.05 | ppb | 47 | 13.25 | 2750 | |
| Mo | 95 | 115 | 1 | 0.25 | 0.25 | ppb | 4874 | 4.22 | 550 | |
| Ag | 107 | 115 | 1 | 1.11 | 1.11 | ppb | 64139 | 7.51 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 58 | 20.96 | 550 | |
| Sb | 121 | 115 | 1 | 0.05 | 0.05 | ppb | 2911 | 3.69 | 550 | |
| Ba | 137 | 159 | 1 | 115.22 | 115.22 | ppb | 1960710 | 0.84 | 550 | |
| Tl | 205 | 165 | 1 | 0.02 | 0.02 | ppb | 4452 | 12.33 | 550 | |
| Pb | 208 | 165 | 1 | 0.08 | 0.08 | ppb | 9031 | 3.27 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1724243 | 1.25 | 1806323 | 95.5 | 70 | 130 | |
| Sc | 45 | 2 | 73156 | 1.41 | 83365 | 87.8 | 70 | 130 | |
| In | 115 | 1 | 3195765 | 1.00 | 3370573 | 94.8 | 70 | 130 | |
| In | 115 | 2 | 694273 | 0.50 | 766063 | 90.6 | 70 | 130 | |
| Tb | 159 | 1 | 4919745 | 1.11 | 4942864 | 99.5 | 70 | 130 | |
| Tb | 159 | 2 | 2655034 | 0.91 | 2747591 | 96.6 | 70 | 130 | |
| Ho | 165 | 1 | 4844034 | 0.66 | 4859401 | 99.7 | 70 | 130 | |
| Ho | 165 | 2 | 2688315 | 1.05 | 2780404 | 96.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-013** |
| **Data File Name** | **034SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:01:49-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2412** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 324 | 12.26 | 550 | |
| Na | 23 | 115 | 2 | 3117.02 | 3117.02 | ppb | 4601376 | 0.21 | 55000 | |
| Mg | 24 | 115 | 2 | 2097.68 | 2097.68 | ppb | 1372231 | 0.69 | 55000 | |
| Al | 27 | 115 | 2 | 3.17 | 3.17 | ppb | 840 | 11.45 | 16500 | |
| K | 39 | 115 | 2 | 1285.35 | 1285.35 | ppb | 791854 | 0.41 | 55000 | |
| Ca | 44 | 115 | 2 | 3167.91 | 3167.91 | ppb | 105630 | 1.17 | 55000 | |
| V | 51 | 115 | 2 | 0.13 | 0.13 | ppb | 1473 | 2.39 | 550 | |
| Cr | 52 | 115 | 2 | 0.10 | 0.10 | ppb | 2560 | 2.05 | 550 | |
| Mn | 55 | 115 | 2 | 263.97 | 263.97 | ppb | 1693628 | 1.73 | 550 | |
| Fe | 56 | 115 | 2 | 6994.03 | 6994.03 | ppb | 68258299 | 0.80 | 55000 | |
| Co | 59 | 115 | 2 | 0.02 | 0.02 | ppb | 600 | 0.56 | 550 | |
| Ni | 60 | 115 | 2 | 0.09 | 0.09 | ppb | 853 | 13.51 | 550 | |
| Cu | 65 | 115 | 2 | 0.64 | 0.64 | ppb | 7431 | 3.36 | 550 | |
| Zn | 66 | 115 | 2 | 10.23 | 10.23 | ppb | 26547 | 2.38 | 550 | |
| As | 75 | 115 | 2 | 0.08 | 0.08 | ppb | 146 | 11.43 | 550 | |
| Se | 78 | 115 | 2 | 0.12 | 0.12 | ppb | 53 | 12.50 | 2750 | |
| Mo | 95 | 115 | 1 | 0.28 | 0.28 | ppb | 5584 | 1.00 | 550 | |
| Ag | 107 | 115 | 1 | 1.15 | 1.15 | ppb | 66589 | 7.31 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 62 | 16.07 | 550 | |
| Sb | 121 | 115 | 1 | 0.07 | 0.07 | ppb | 3776 | 1.10 | 550 | |
| Ba | 137 | 159 | 1 | 36.73 | 36.73 | ppb | 621120 | 0.13 | 550 | |
| Tl | 205 | 165 | 1 | 0.02 | 0.02 | ppb | 3668 | 7.39 | 550 | |
| Pb | 208 | 165 | 1 | 0.07 | 0.07 | ppb | 7660 | 4.81 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1669301 | 0.10 | 1806323 | 92.4 | 70 | 130 | |
| Sc | 45 | 2 | 72611 | 1.63 | 83365 | 87.1 | 70 | 130 | |
| In | 115 | 1 | 3213206 | 1.10 | 3370573 | 95.3 | 70 | 130 | |
| In | 115 | 2 | 684741 | 0.90 | 766063 | 89.4 | 70 | 130 | |
| Tb | 159 | 1 | 4884918 | 0.68 | 4942864 | 98.8 | 70 | 130 | |
| Tb | 159 | 2 | 2653114 | 0.63 | 2747591 | 96.6 | 70 | 130 | |
| Ho | 165 | 1 | 4836718 | 0.39 | 4859401 | 99.5 | 70 | 130 | |
| Ho | 165 | 2 | 2669529 | 0.75 | 2780404 | 96.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-015** |
| **Data File Name** | **035SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:06:17-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2501** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.02 | 0.02 | ppb | 274 | 23.67 | 550 | |
| Na | 23 | 115 | 2 | 40990.65 | 40990.65 | ppb | 57953016 | 0.54 | 55000 | |
| Mg | 24 | 115 | 2 | 3780.03 | 3780.03 | ppb | 2471888 | 1.09 | 55000 | |
| Al | 27 | 115 | 2 | 9.79 | 9.79 | ppb | 2326 | 9.54 | 16500 | |
| K | 39 | 115 | 2 | 515.61 | 515.61 | ppb | 335760 | 0.12 | 55000 | |
| Ca | 44 | 115 | 2 | 7588.48 | 7588.48 | ppb | 252827 | 0.38 | 55000 | |
| V | 51 | 115 | 2 | 0.18 | 0.18 | ppb | 2010 | 2.76 | 550 | |
| Cr | 52 | 115 | 2 | 0.11 | 0.11 | ppb | 2719 | 2.02 | 550 | |
| Mn | 55 | 115 | 2 | 35.67 | 35.67 | ppb | 229681 | 0.69 | 550 | |
| Fe | 56 | 115 | 2 | 90.87 | 90.87 | ppb | 944469 | 0.81 | 55000 | |
| Co | 59 | 115 | 2 | 0.02 | 0.02 | ppb | 528 | 7.27 | 550 | |
| Ni | 60 | 115 | 2 | 0.23 | 0.23 | ppb | 1655 | 9.43 | 550 | |
| Cu | 65 | 115 | 2 | 0.56 | 0.56 | ppb | 6773 | 2.17 | 550 | |
| Zn | 66 | 115 | 2 | 11.01 | 11.01 | ppb | 28365 | 1.58 | 550 | |
| As | 75 | 115 | 2 | 5.66 | 5.66 | ppb | 8293 | 2.01 | 550 | |
| Se | 78 | 115 | 2 | 0.00 | 0.00 | ppb | 42 | 20.11 | 2750 | |
| Mo | 95 | 115 | 1 | 1.11 | 1.11 | ppb | 21232 | 2.13 | 550 | |
| Ag | 107 | 115 | 1 | 1.10 | 1.10 | ppb | 63032 | 6.23 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 48 | 20.94 | 550 | |
| Sb | 121 | 115 | 1 | 0.07 | 0.07 | ppb | 3768 | 7.78 | 550 | |
| Ba | 137 | 159 | 1 | 43.91 | 43.91 | ppb | 732525 | 0.58 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 2939 | 11.28 | 550 | |
| Pb | 208 | 165 | 1 | 0.08 | 0.08 | ppb | 8613 | 1.34 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1635202 | 1.34 | 1806323 | 90.5 | 70 | 130 | |
| Sc | 45 | 2 | 71559 | 0.96 | 83365 | 85.8 | 70 | 130 | |
| In | 115 | 1 | 3155983 | 1.02 | 3370573 | 93.6 | 70 | 130 | |
| In | 115 | 2 | 685043 | 0.30 | 766063 | 89.4 | 70 | 130 | |
| Tb | 159 | 1 | 4820311 | 0.36 | 4942864 | 97.5 | 70 | 130 | |
| Tb | 159 | 2 | 2623582 | 2.14 | 2747591 | 95.5 | 70 | 130 | |
| Ho | 165 | 1 | 4755443 | 0.40 | 4859401 | 97.9 | 70 | 130 | |
| Ho | 165 | 2 | 2666211 | 0.80 | 2780404 | 95.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-017** |
| **Data File Name** | **036SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:10:47-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2502** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 301 | 14.02 | 550 | |
| Na | 23 | 115 | 2 | 4950.28 | 4950.28 | ppb | 7287933 | 0.77 | 55000 | |
| Mg | 24 | 115 | 2 | 3892.36 | 3892.36 | ppb | 2581154 | 0.80 | 55000 | |
| Al | 27 | 115 | 2 | 4.92 | 4.92 | ppb | 1250 | 10.23 | 16500 | |
| K | 39 | 115 | 2 | 840.00 | 840.00 | ppb | 535615 | 0.58 | 55000 | |
| Ca | 44 | 115 | 2 | 14564.38 | 14564.38 | ppb | 491904 | 0.71 | 55000 | |
| V | 51 | 115 | 2 | 0.19 | 0.19 | ppb | 2072 | 3.57 | 550 | |
| Cr | 52 | 115 | 2 | 0.17 | 0.17 | ppb | 3469 | 5.93 | 550 | |
| Mn | 55 | 115 | 2 | 66.80 | 66.80 | ppb | 435661 | 0.79 | 550 | |
| Fe | 56 | 115 | 2 | 43.09 | 43.09 | ppb | 485161 | 1.34 | 55000 | |
| Co | 59 | 115 | 2 | 0.05 | 0.05 | ppb | 1197 | 5.08 | 550 | |
| Ni | 60 | 115 | 2 | 0.18 | 0.18 | ppb | 1399 | 12.93 | 550 | |
| Cu | 65 | 115 | 2 | 1.55 | 1.55 | ppb | 14835 | 1.61 | 550 | |
| Zn | 66 | 115 | 2 | 9.31 | 9.31 | ppb | 24766 | 1.03 | 550 | |
| As | 75 | 115 | 2 | 0.56 | 0.56 | ppb | 859 | 4.57 | 550 | |
| Se | 78 | 115 | 2 | -0.03 | -0.03 | ppb | 39 | 18.20 | 2750 | |
| Mo | 95 | 115 | 1 | 0.71 | 0.71 | ppb | 13924 | 2.62 | 550 | |
| Ag | 107 | 115 | 1 | 0.94 | 0.94 | ppb | 55872 | 7.28 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 157 | 4.71 | 550 | |
| Sb | 121 | 115 | 1 | 0.09 | 0.09 | ppb | 4815 | 3.80 | 550 | |
| Ba | 137 | 159 | 1 | 65.61 | 65.61 | ppb | 1106906 | 0.48 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 2993 | 8.12 | 550 | |
| Pb | 208 | 165 | 1 | 0.13 | 0.13 | ppb | 12784 | 1.70 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1678449 | 0.61 | 1806323 | 92.9 | 70 | 130 | |
| Sc | 45 | 2 | 72458 | 0.79 | 83365 | 86.9 | 70 | 130 | |
| In | 115 | 1 | 3221524 | 0.31 | 3370573 | 95.6 | 70 | 130 | |
| In | 115 | 2 | 694762 | 0.88 | 766063 | 90.7 | 70 | 130 | |
| Tb | 159 | 1 | 4876381 | 0.53 | 4942864 | 98.7 | 70 | 130 | |
| Tb | 159 | 2 | 2645915 | 1.02 | 2747591 | 96.3 | 70 | 130 | |
| Ho | 165 | 1 | 4847848 | 1.44 | 4859401 | 99.8 | 70 | 130 | |
| Ho | 165 | 2 | 2683930 | 0.50 | 2780404 | 96.5 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-020** |
| **Data File Name** | **037SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:15:16-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2503** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.02 | 0.02 | ppb | 268 | 23.37 | 550 | |
| Na | 23 | 115 | 2 | 213069.01 | 213069.01 | ppb | 288212773 | 0.27 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 16404.48 | 16404.48 | ppb | 10285280 | 0.46 | 55000 | |
| Al | 27 | 115 | 2 | 4.08 | 4.08 | ppb | 1005 | 3.88 | 16500 | |
| K | 39 | 115 | 2 | 11446.94 | 11446.94 | ppb | 6542805 | 0.48 | 55000 | |
| Ca | 44 | 115 | 2 | 12805.13 | 12805.13 | ppb | 409235 | 0.65 | 55000 | |
| V | 51 | 115 | 2 | 0.34 | 0.34 | ppb | 3329 | 1.42 | 550 | |
| Cr | 52 | 115 | 2 | 0.17 | 0.17 | ppb | 3299 | 5.11 | 550 | |
| Mn | 55 | 115 | 2 | 41.33 | 41.33 | ppb | 255457 | 0.50 | 550 | |
| Fe | 56 | 115 | 2 | 289.56 | 289.56 | ppb | 2766425 | 0.53 | 55000 | |
| Co | 59 | 115 | 2 | 0.01 | 0.01 | ppb | 394 | 18.79 | 550 | |
| Ni | 60 | 115 | 2 | 0.09 | 0.09 | ppb | 815 | 9.46 | 550 | |
| Cu | 65 | 115 | 2 | 0.44 | 0.44 | ppb | 5593 | 3.02 | 550 | |
| Zn | 66 | 115 | 2 | 3.20 | 3.20 | ppb | 9841 | 1.19 | 550 | |
| As | 75 | 115 | 2 | 3.05 | 3.05 | ppb | 4310 | 3.00 | 550 | |
| Se | 78 | 115 | 2 | 0.12 | 0.12 | ppb | 51 | 17.25 | 2750 | |
| Mo | 95 | 115 | 1 | 0.98 | 0.98 | ppb | 18115 | 2.26 | 550 | |
| Ag | 107 | 115 | 1 | 0.85 | 0.85 | ppb | 48393 | 8.01 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 70 | 34.38 | 550 | |
| Sb | 121 | 115 | 1 | 0.04 | 0.04 | ppb | 2705 | 2.98 | 550 | |
| Ba | 137 | 159 | 1 | 27.88 | 27.88 | ppb | 450876 | 0.74 | 550 | |
| Tl | 205 | 165 | 1 | 0.00 | 0.00 | ppb | 2219 | 11.65 | 550 | |
| Pb | 208 | 165 | 1 | 0.10 | 0.10 | ppb | 9971 | 2.61 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1657461 | 0.89 | 1806323 | 91.8 | 70 | 130 | |
| Sc | 45 | 2 | 73204 | 1.21 | 83365 | 87.8 | 70 | 130 | |
| In | 115 | 1 | 3056485 | 0.97 | 3370573 | 90.7 | 70 | 130 | |
| In | 115 | 2 | 657370 | 0.43 | 766063 | 85.8 | 70 | 130 | |
| Tb | 159 | 1 | 4670075 | 0.28 | 4942864 | 94.5 | 70 | 130 | |
| Tb | 159 | 2 | 2537232 | 0.80 | 2747591 | 92.3 | 70 | 130 | |
| Ho | 165 | 1 | 4620106 | 0.08 | 4859401 | 95.1 | 70 | 130 | |
| Ho | 165 | 2 | 2578387 | 0.97 | 2780404 | 92.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-022** |
| **Data File Name** | **038SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:19:41-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2504** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | 0.01 | ppb | 232 | 19.49 | 550 | |
| Na | 23 | 115 | 2 | 8255.26 | 8255.26 | ppb | 11932868 | 0.43 | 55000 | |
| Mg | 24 | 115 | 2 | 4486.73 | 4486.73 | ppb | 2956138 | 0.15 | 55000 | |
| Al | 27 | 115 | 2 | 5.45 | 5.45 | ppb | 1363 | 9.30 | 16500 | |
| K | 39 | 115 | 2 | 1099.72 | 1099.72 | ppb | 687417 | 0.68 | 55000 | |
| Ca | 44 | 115 | 2 | 14587.47 | 14587.47 | ppb | 489539 | 0.42 | 55000 | |
| V | 51 | 115 | 2 | 0.34 | 0.34 | ppb | 3460 | 4.62 | 550 | |
| Cr | 52 | 115 | 2 | 0.39 | 0.39 | ppb | 6132 | 3.09 | 550 | |
| Mn | 55 | 115 | 2 | 83.11 | 83.11 | ppb | 538339 | 0.95 | 550 | |
| Fe | 56 | 115 | 2 | 126.83 | 126.83 | ppb | 1305414 | 1.25 | 55000 | |
| Co | 59 | 115 | 2 | 0.04 | 0.04 | ppb | 1081 | 7.09 | 550 | |
| Ni | 60 | 115 | 2 | 0.50 | 0.50 | ppb | 3206 | 2.62 | 550 | |
| Cu | 65 | 115 | 2 | 0.89 | 0.89 | ppb | 9446 | 2.11 | 550 | |
| Zn | 66 | 115 | 2 | 21.96 | 21.96 | ppb | 54206 | 1.94 | 550 | |
| As | 75 | 115 | 2 | 0.59 | 0.59 | ppb | 902 | 3.52 | 550 | |
| Se | 78 | 115 | 2 | 0.06 | 0.06 | ppb | 48 | 2.66 | 2750 | |
| Mo | 95 | 115 | 1 | 1.39 | 1.39 | ppb | 26686 | 1.48 | 550 | |
| Ag | 107 | 115 | 1 | 0.86 | 0.86 | ppb | 50926 | 6.86 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 98 | 18.71 | 550 | |
| Sb | 121 | 115 | 1 | 0.18 | 0.18 | ppb | 8895 | 1.26 | 550 | |
| Ba | 137 | 159 | 1 | 76.52 | 76.52 | ppb | 1295997 | 0.67 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 2586 | 2.10 | 550 | |
| Pb | 208 | 165 | 1 | 0.13 | 0.13 | ppb | 13190 | 2.87 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1674483 | 0.83 | 1806323 | 92.7 | 70 | 130 | |
| Sc | 45 | 2 | 72357 | 0.14 | 83365 | 86.8 | 70 | 130 | |
| In | 115 | 1 | 3192569 | 1.35 | 3370573 | 94.7 | 70 | 130 | |
| In | 115 | 2 | 690329 | 0.57 | 766063 | 90.1 | 70 | 130 | |
| Tb | 159 | 1 | 4895564 | 0.22 | 4942864 | 99.0 | 70 | 130 | |
| Tb | 159 | 2 | 2640870 | 0.63 | 2747591 | 96.1 | 70 | 130 | |
| Ho | 165 | 1 | 4836341 | 1.09 | 4859401 | 99.5 | 70 | 130 | |
| Ho | 165 | 2 | 2670695 | 0.12 | 2780404 | 96.1 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-024** |
| **Data File Name** | **039SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:24:09-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2505** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | 0.01 | ppb | 231 | 5.83 | 550 | |
| Na | 23 | 115 | 2 | 7351.04 | 7351.04 | ppb | 10633546 | 0.53 | 55000 | |
| Mg | 24 | 115 | 2 | 3951.18 | 3951.18 | ppb | 2599825 | 1.36 | 55000 | |
| Al | 27 | 115 | 2 | 7.73 | 7.73 | ppb | 1876 | 4.22 | 16500 | |
| K | 39 | 115 | 2 | 976.36 | 976.36 | ppb | 612787 | 0.67 | 55000 | |
| Ca | 44 | 115 | 2 | 12887.49 | 12887.49 | ppb | 431889 | 1.17 | 55000 | |
| V | 51 | 115 | 2 | 0.26 | 0.26 | ppb | 2758 | 7.24 | 550 | |
| Cr | 52 | 115 | 2 | 0.17 | 0.17 | ppb | 3433 | 2.08 | 550 | |
| Mn | 55 | 115 | 2 | 73.51 | 73.51 | ppb | 475598 | 0.86 | 550 | |
| Fe | 56 | 115 | 2 | 84.76 | 84.76 | ppb | 890428 | 0.74 | 55000 | |
| Co | 59 | 115 | 2 | 0.03 | 0.03 | ppb | 887 | 3.93 | 550 | |
| Ni | 60 | 115 | 2 | 0.18 | 0.18 | ppb | 1383 | 6.48 | 550 | |
| Cu | 65 | 115 | 2 | 0.57 | 0.57 | ppb | 6873 | 0.46 | 550 | |
| Zn | 66 | 115 | 2 | 22.49 | 22.49 | ppb | 55355 | 1.01 | 550 | |
| As | 75 | 115 | 2 | 0.55 | 0.55 | ppb | 833 | 0.74 | 550 | |
| Se | 76 | 115 | 2 | 0.06 | 0.06 | ppb | 47 | 18.21 | 2750 | |
| Mo | 95 | 115 | 1 | 1.20 | 1.20 | ppb | 23325 | 0.74 | 550 | |
| Ag | 107 | 115 | 1 | 0.74 | 0.74 | ppb | 44691 | 8.85 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 106 | 11.14 | 550 | |
| Sb | 121 | 115 | 1 | 0.11 | 0.11 | ppb | 5612 | 2.07 | 550 | |
| Ba | 137 | 159 | 1 | 68.31 | 68.31 | ppb | 1148709 | 0.72 | 550 | |
| Tl | 205 | 165 | 1 | 0.00 | 0.00 | ppb | 2080 | 8.36 | 550 | |
| Pb | 208 | 165 | 1 | 0.08 | 0.08 | ppb | 9212 | 1.41 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1673973 | 0.41 | 1806323 | 92.7 | 70 | 130 | |
| Sc | 45 | 2 | 72028 | 1.00 | 83365 | 86.4 | 70 | 130 | |
| In | 115 | 1 | 3211472 | 0.57 | 3370573 | 95.3 | 70 | 130 | |
| In | 115 | 2 | 689302 | 0.49 | 766063 | 90.0 | 70 | 130 | |
| Tb | 159 | 1 | 4860200 | 0.07 | 4942864 | 98.3 | 70 | 130 | |
| Tb | 159 | 2 | 2668705 | 1.17 | 2747591 | 97.1 | 70 | 130 | |
| Ho | 165 | 1 | 4842789 | 0.84 | 4859401 | 99.7 | 70 | 130 | |
| Ho | 165 | 2 | 2684885 | 0.75 | 2780404 | 96.6 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-029** |
| **Data File Name** | **040SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:28:39-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2506** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.02 | 0.02 | ppb | 300 | 14.57 | 550 | |
| Na | 23 | 115 | 2 | 82013.48 | 82013.48 | ppb | 112612946 | 0.69 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 27950.38 | 27950.38 | ppb | 17767182 | 0.69 | 55000 | |
| Al | 27 | 115 | 2 | 116.85 | 116.85 | ppb | 25615 | 2.57 | 16500 | |
| K | 39 | 115 | 2 | 2978.44 | 2978.44 | ppb | 1747748 | 0.40 | 55000 | |
| Ca | 44 | 115 | 2 | 98218.88 | 98218.88 | ppb | 3181197 | 0.26 | 55000 | >LDR |
| V | 51 | 115 | 2 | 0.63 | 0.63 | ppb | 6001 | 3.86 | 550 | |
| Cr | 52 | 115 | 2 | 0.42 | 0.42 | ppb | 6278 | 2.83 | 550 | |
| Mn | 55 | 115 | 2 | 310.44 | 310.44 | ppb | 1938874 | 1.74 | 550 | |
| Fe | 56 | 115 | 2 | 229.58 | 229.58 | ppb | 2235784 | 3.47 | 55000 | |
| Co | 59 | 115 | 2 | 0.10 | 0.10 | ppb | 2241 | 3.35 | 550 | |
| Ni | 60 | 115 | 2 | 0.41 | 0.41 | ppb | 2618 | 3.32 | 550 | |
| Cu | 65 | 115 | 2 | 0.64 | 0.64 | ppb | 7186 | 1.62 | 550 | |
| Zn | 66 | 115 | 2 | 10.67 | 10.67 | ppb | 26853 | 2.28 | 550 | |
| As | 75 | 115 | 2 | 0.96 | 0.96 | ppb | 1395 | 4.65 | 550 | |
| Se | 78 | 115 | 2 | 0.09 | 0.09 | ppb | 49 | 25.61 | 2750 | |
| Mo | 95 | 115 | 1 | 0.86 | 0.86 | ppb | 16063 | 1.06 | 550 | |
| Ag | 107 | 115 | 1 | 0.75 | 0.75 | ppb | 43825 | 5.30 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 118 | 8.69 | 550 | |
| Sb | 121 | 115 | 1 | 0.08 | 0.08 | ppb | 4434 | 3.37 | 550 | |
| Ba | 137 | 159 | 1 | 592.69 | 592.69 | ppb | 9888625 | 0.15 | 550 | >LDR |
| Tl | 205 | 165 | 1 | 0.00 | 0.00 | ppb | 2032 | 7.71 | 550 | |
| Pb | 208 | 165 | 1 | 0.19 | 0.19 | ppb | 18035 | 1.41 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1696398 | 0.26 | 1806323 | 93.9 | 70 | 130 | |
| Sc | 45 | 2 | 74442 | 1.12 | 83365 | 89.3 | 70 | 130 | |
| In | 115 | 1 | 3097287 | 1.04 | 3370573 | 91.9 | 70 | 130 | |
| In | 115 | 2 | 668534 | 0.21 | 766063 | 87.0 | 70 | 130 | |
| Tb | 159 | 1 | 4824929 | 0.86 | 4942864 | 97.6 | 70 | 130 | |
| Tb | 159 | 2 | 2606468 | 1.26 | 2747591 | 94.9 | 70 | 130 | |
| Ho | 165 | 1 | 4800791 | 0.56 | 4859401 | 98.8 | 70 | 130 | |
| Ho | 165 | 2 | 2623210 | 0.88 | 2780404 | 94.3 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **041SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:33:04-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 337 | 14.85 | 550 | |
| Na | 23 | 115 | 2 | 40.42 | 40.42 | ppb | 317513 | 1.03 | 55000 | |
| Mg | 24 | 115 | 2 | 3.81 | 3.81 | ppb | 6122 | 2.50 | 55000 | |
| Al | 27 | 115 | 2 | 2.36 | 2.36 | ppb | 783 | 20.02 | 16500 | |
| K | 39 | 115 | 2 | 9.08 | 9.08 | ppb | 41653 | 1.70 | 55000 | |
| Ca | 44 | 115 | 2 | 6.28 | 6.28 | ppb | 529 | 5.68 | 55000 | |
| V | 51 | 115 | 2 | 0.00 | 0.00 | ppb | 369 | 18.46 | 550 | |
| Cr | 52 | 115 | 2 | -0.02 | -0.02 | ppb | 1371 | 7.81 | 550 | |
| Mn | 55 | 115 | 2 | 0.06 | 0.06 | ppb | 1638 | 4.79 | 550 | |
| Fe | 56 | 115 | 2 | 3.64 | 3.64 | ppb | 110339 | 5.05 | 55000 | |
| Co | 59 | 115 | 2 | 0.02 | 0.02 | ppb | 683 | 10.79 | 550 | |
| Ni | 60 | 115 | 2 | 0.04 | 0.04 | ppb | 669 | 8.48 | 550 | |
| Cu | 65 | 115 | 2 | -0.15 | -0.15 | ppb | 1320 | 7.59 | 550 | |
| Zn | 66 | 115 | 2 | 0.86 | 0.86 | ppb | 5658 | 3.35 | 550 | |
| As | 75 | 115 | 2 | 0.00 | 0.00 | ppb | 43 | 17.61 | 550 | |
| Se | 78 | 115 | 2 | 0.17 | 0.17 | ppb | 68 | 14.06 | 2750 | |
| Mo | 95 | 115 | 1 | 0.04 | 0.04 | ppb | 1100 | 4.27 | 550 | |
| Ag | 107 | 115 | 1 | 0.19 | 0.19 | ppb | 16805 | 5.70 | 550 | |
| Cd | 111 | 115 | 1 | 0.02 | 0.02 | ppb | 210 | 11.40 | 550 | |
| Sb | 121 | 115 | 1 | 0.01 | 0.01 | ppb | 1263 | 1.40 | 550 | |
| Ba | 137 | 159 | 1 | 0.03 | 0.03 | ppb | 1112 | 8.99 | 550 | |
| Tl | 205 | 165 | 1 | 0.05 | 0.05 | ppb | 7534 | 8.29 | 550 | |
| Pb | 208 | 165 | 1 | 0.02 | 0.02 | ppb | 3926 | 2.77 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1866515 | 1.13 | 1806323 | 103.3 | 70 | 130 | |
| Sc | 45 | 2 | 88500 | 8.23 | 83365 | 106.2 | 70 | 130 | |
| In | 115 | 1 | 3391444 | 0.65 | 3370573 | 100.6 | 70 | 130 | |
| In | 115 | 2 | 809499 | 8.41 | 766063 | 105.7 | 70 | 130 | |
| Tb | 159 | 1 | 4866746 | 0.65 | 4942864 | 98.5 | 70 | 130 | |
| Tb | 159 | 2 | 2891081 | 6.47 | 2747591 | 105.2 | 70 | 130 | |
| Ho | 165 | 1 | 4765140 | 0.29 | 4859401 | 98.1 | 70 | 130 | |
| Ho | 165 | 2 | 2918740 | 6.58 | 2780404 | 105.0 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Verification (CCV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCV V-357844** |
| **Data File Name** | **0426CCV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:37:32-04:00** |
| **Type** | **6-CCV** |
| **VialNumber** | **1201** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 49.13 | ppb | 50 | 266949 | 0.78 | 98.26 | 90 | 110 | |
| Na | 23 | 115 | 2 | 4734.63 | ppb | 5000 | 7304055 | 0.81 | 94.69 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 4961.83 | ppb | 5000 | 3442774 | 0.39 | 99.24 | 90 | 110 | |
| Al | 27 | 115 | 2 | 1480.64 | ppb | 1500 | 352406 | 0.71 | 98.71 | 90 | 110 | |
| K | 39 | 115 | 2 | 4965.91 | ppb | 5000 | 3157292 | 1.01 | 99.32 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 4897.65 | ppb | 5000 | 173270 | 0.91 | 97.95 | 90 | 110 | |
| V | 51 | 115 | 2 | 49.22 | ppb | 50 | 488257 | 0.51 | 98.44 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 48.76 | ppb | 50 | 622468 | 0.42 | 97.52 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 48.88 | ppb | 50 | 333927 | 1.02 | 97.76 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 4950.45 | ppb | 5000 | 51319355 | 0.61 | 99.01 | 90 | 110 | |
| Co | 59 | 115 | 2 | 49.13 | ppb | 50 | 1101839 | 1.04 | 98.26 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 49.65 | ppb | 50 | 296681 | 0.76 | 99.30 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 49.44 | ppb | 50 | 419369 | 0.14 | 98.88 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 50.01 | ppb | 50 | 126159 | 0.35 | 100.01 | 90 | 110 | |
| As | 75 | 115 | 2 | 49.12 | ppb | 50 | 76169 | 0.92 | 98.23 | 90 | 110 | |
| Se | 78 | 115 | 2 | 247.86 | ppb | 250 | 24900 | 0.37 | 99.14 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 47.29 | ppb | 50 | 929047 | 0.41 | 94.58 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 50.14 | ppb | 50 | 2728019 | 0.36 | 100.28 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 49.16 | ppb | 50 | 529670 | 1.07 | 98.32 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 50.12 | ppb | 50 | 2279808 | 1.19 | 100.25 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 48.54 | ppb | 50 | 814171 | 1.14 | 97.07 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 49.83 | ppb | 50 | 5684276 | 0.44 | 99.65 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 50.39 | ppb | 50 | 4092430 | 1.05 | 100.77 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1754559 | 0.29 | 1806323 | 97.1 | 70 | 130 | |
| Sc | 45 | 2 | 78841 | 0.96 | 83365 | 94.6 | 70 | 130 | |
| In | 115 | 1 | 3280768 | 0.49 | 3370573 | 97.3 | 70 | 130 | |
| In | 115 | 2 | 727041 | 0.30 | 766063 | 94.9 | 70 | 130 | |
| Tb | 159 | 1 | 4847660 | 0.74 | 4942864 | 98.1 | 70 | 130 | |
| Tb | 159 | 2 | 2678649 | 0.78 | 2747591 | 97.5 | 70 | 130 | |
| Ho | 165 | 1 | 4789214 | 0.89 | 4859401 | 98.6 | 70 | 130 | |
| Ho | 165 | 2 | 2711796 | 0.67 | 2780404 | 97.5 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Blank (CCB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCB V-357841** |
| **Data File Name** | **0436CCB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:41:52-04:00** |
| **Type** | **6-CCB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.04 | ppb | 0.5 | |
| Na | 23 | 115 | 2 | -33.77 | ppb | 250 | |
| Mg | 24 | 115 | 2 | 0.12 | ppb | 250 | |
| Al | 27 | 115 | 2 | 0.47 | ppb | 100 | |
| K | 39 | 115 | 2 | -2.92 | ppb | 250 | |
| Ca | 44 | 115 | 2 | 0.85 | ppb | 250 | |
| V | 51 | 115 | 2 | 0.01 | ppb | 1 | |
| Cr | 52 | 115 | 2 | -0.01 | ppb | 1 | |
| Mn | 55 | 115 | 2 | 0.00 | ppb | 3 | |
| Fe | 56 | 115 | 2 | 2.40 | ppb | 150 | |
| Co | 59 | 115 | 2 | 0.00 | ppb | 1 | |
| Ni | 60 | 115 | 2 | 0.00 | ppb | 1.5 | |
| Cu | 65 | 115 | 2 | -0.04 | ppb | 5 | |
| Zn | 66 | 115 | 2 | -0.11 | ppb | 10 | |
| As | 75 | 115 | 2 | 0.01 | ppb | 1 | |
| Se | 78 | 115 | 2 | 0.16 | ppb | 5 | |
| Mo | 95 | 115 | 1 | 0.05 | ppb | 1 | |
| Ag | 107 | 115 | 1 | 0.05 | ppb | 0.5 | |
| Cd | 111 | 115 | 1 | 0.01 | ppb | 1 | |
| Sb | 121 | 115 | 1 | 0.04 | ppb | 1.5 | |
| Ba | 137 | 159 | 1 | 0.01 | ppb | 2.5 | |
| Tl | 205 | 165 | 1 | 0.13 | ppb | 1 | |
| Pb | 208 | 165 | 1 | 0.02 | ppb | 1.5 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1730030 | 0.92 | 1806323 | 95.8 | 70 | 130 | |
| Sc | 45 | 2 | 77050 | 0.78 | 83365 | 92.4 | 70 | 130 | |
| In | 115 | 1 | 3244974 | 0.40 | 3370573 | 96.3 | 70 | 130 | |
| In | 115 | 2 | 725149 | 0.46 | 766063 | 94.7 | 70 | 130 | |
| Tb | 159 | 1 | 4800576 | 0.70 | 4942864 | 97.1 | 70 | 130 | |
| Tb | 159 | 2 | 2657572 | 0.90 | 2747591 | 96.7 | 70 | 130 | |
| Ho | 165 | 1 | 4717621 | 0.92 | 4859401 | 97.1 | 70 | 130 | |
| Ho | 165 | 2 | 2684703 | 0.50 | 2780404 | 96.8 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-031** |
| **Data File Name** | **044SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:46:22-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2507** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.02 | 0.02 | ppb | 283 | 7.16 | 550 | |
| Na | 23 | 115 | 2 | 30874.40 | 30874.40 | ppb | 43301611 | 1.17 | 55000 | |
| Mg | 24 | 115 | 2 | 2221.30 | 2221.30 | ppb | 1440283 | 0.30 | 55000 | |
| Al | 27 | 115 | 2 | 4.75 | 4.75 | ppb | 1185 | 9.31 | 16500 | |
| K | 39 | 115 | 2 | 3022.69 | 3022.69 | ppb | 1805764 | 1.45 | 55000 | |
| Ca | 44 | 115 | 2 | 2251.40 | 2251.40 | ppb | 74488 | 1.22 | 55000 | |
| V | 51 | 115 | 2 | 0.17 | 0.17 | ppb | 1839 | 9.59 | 550 | |
| Cr | 52 | 115 | 2 | 0.14 | 0.14 | ppb | 3024 | 4.69 | 550 | |
| Mn | 55 | 115 | 2 | 14.78 | 14.78 | ppb | 95000 | 0.92 | 550 | |
| Fe | 56 | 115 | 2 | 15.66 | 15.66 | ppb | 208841 | 1.16 | 55000 | |
| Co | 59 | 115 | 2 | 0.01 | 0.01 | ppb | 384 | 11.83 | 550 | |
| Ni | 60 | 115 | 2 | 0.12 | 0.12 | ppb | 1060 | 10.35 | 550 | |
| Cu | 65 | 115 | 2 | 0.30 | 0.30 | ppb | 4677 | 2.01 | 550 | |
| Zn | 66 | 115 | 2 | 3.84 | 3.84 | ppb | 11635 | 0.88 | 550 | |
| As | 75 | 115 | 2 | 0.72 | 0.72 | ppb | 1069 | 5.25 | 550 | |
| Se | 78 | 115 | 2 | -0.05 | -0.05 | ppb | 37 | 6.92 | 2750 | |
| Mo | 95 | 115 | 1 | 0.32 | 0.32 | ppb | 6219 | 3.23 | 550 | |
| Ag | 107 | 115 | 1 | 0.65 | 0.65 | ppb | 39776 | 7.99 | 550 | |
| Cd | 111 | 115 | 1 | 0.00 | 0.00 | ppb | 50 | 17.97 | 550 | |
| Sb | 121 | 115 | 1 | 0.06 | 0.06 | ppb | 3484 | 4.09 | 550 | |
| Ba | 137 | 159 | 1 | 37.74 | 37.74 | ppb | 628904 | 0.74 | 550 | |
| Tl | 205 | 165 | 1 | 0.02 | 0.02 | ppb | 4405 | 4.10 | 550 | |
| Pb | 208 | 165 | 1 | 0.09 | 0.09 | ppb | 9048 | 5.67 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1660929 | 1.35 | 1806323 | 92.0 | 70 | 130 | |
| Sc | 45 | 2 | 71913 | 1.81 | 83365 | 86.3 | 70 | 130 | |
| In | 115 | 1 | 3168410 | 1.05 | 3370573 | 94.0 | 70 | 130 | |
| In | 115 | 2 | 678728 | 0.50 | 766063 | 88.6 | 70 | 130 | |
| Tb | 159 | 1 | 4814610 | 0.88 | 4942864 | 97.4 | 70 | 130 | |
| Tb | 159 | 2 | 2596517 | 1.58 | 2747591 | 94.5 | 70 | 130 | |
| Ho | 165 | 1 | 4711930 | 0.56 | 4859401 | 97.0 | 70 | 130 | |
| Ho | 165 | 2 | 2638804 | 1.61 | 2780404 | 94.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-037** |
| **Data File Name** | **045SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:50:48-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2508** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Fail** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.02 | 0.02 | ppb | 263 | 20.10 | 550 | |
| Na | 23 | 115 | 2 | 1061252.91 | 1061252.91 | ppb | 1312934220 | 0.66 | 55000 | >LDR |
| Mg | 24 | 115 | 2 | 142087.49 | 142087.49 | ppb | 81505504 | 0.49 | 55000 | >LDR |
| Al | 27 | 115 | 2 | 7.73 | 7.73 | ppb | 1637 | 1.63 | 16500 | |
| K | 39 | 115 | 2 | 13372.17 | 13372.17 | ppb | 6990162 | 1.01 | 55000 | |
| Ca | 44 | 115 | 2 | 443444.46 | 443444.46 | ppb | 12962264 | 1.04 | 55000 | >LDR |
| V | 51 | 115 | 2 | 0.26 | 0.26 | ppb | 2365 | 6.15 | 550 | |
| Cr | 52 | 115 | 2 | 0.17 | 0.17 | ppb | 3060 | 6.60 | 550 | |
| Mn | 55 | 115 | 2 | 2424.43 | 2424.43 | ppb | 13656860 | 0.68 | 550 | >LDR |
| Fe | 56 | 115 | 2 | 1144.33 | 1144.33 | ppb | 9654291 | 0.37 | 55000 | |
| Co | 59 | 115 | 2 | 2.34 | 2.34 | ppb | 43674 | 1.25 | 550 | |
| Ni | 60 | 115 | 2 | 2.60 | 2.60 | ppb | 13148 | 1.26 | 550 | |
| Cu | 65 | 115 | 2 | 0.65 | 0.65 | ppb | 6553 | 3.07 | 550 | |
| Zn | 66 | 115 | 2 | 5.00 | 5.00 | ppb | 12677 | 1.02 | 550 | |
| As | 75 | 115 | 2 | 1.61 | 1.61 | ppb | 2096 | 3.81 | 550 | |
| Se | 78 | 115 | 2 | 0.27 | 0.27 | ppb | 59 | 5.72 | 2750 | |
| Mo | 95 | 115 | 1 | 0.49 | 0.49 | ppb | 8227 | 2.70 | 550 | |
| Ag | 107 | 115 | 1 | 0.61 | 0.61 | ppb | 32812 | 6.93 | 550 | |
| Cd | 111 | 115 | 1 | 0.01 | 0.01 | ppb | 95 | 10.63 | 550 | |
| Sb | 121 | 115 | 1 | 0.08 | 0.08 | ppb | 3724 | 1.96 | 550 | |
| Ba | 137 | 159 | 1 | 18.09 | 18.09 | ppb | 270689 | 1.29 | 550 | |
| Tl | 205 | 165 | 1 | 0.01 | 0.01 | ppb | 2268 | 9.64 | 550 | |
| Pb | 208 | 165 | 1 | 0.10 | 0.10 | ppb | 8936 | 2.00 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1649694 | 1.37 | 1806323 | 91.3 | 70 | 130 | |
| Sc | 45 | 2 | 72909 | 1.42 | 83365 | 87.5 | 70 | 130 | |
| In | 115 | 1 | 2777542 | 0.94 | 3370573 | 82.4 | 70 | 130 | |
| In | 115 | 2 | 601582 | 1.11 | 766063 | 78.5 | 70 | 130 | |
| Tb | 159 | 1 | 4318637 | 0.82 | 4942864 | 87.4 | 70 | 130 | |
| Tb | 159 | 2 | 2299037 | 0.91 | 2747591 | 83.7 | 70 | 130 | |
| Ho | 165 | 1 | 4278483 | 0.71 | 4859401 | 88.0 | 70 | 130 | |
| Ho | 165 | 2 | 2327252 | 0.25 | 2780404 | 83.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **AD26083-047** |
| **Data File Name** | **046SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:55:16-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **2509** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | ConcConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.01 | 0.01 | ppb | 198 | 10.84 | 550 | |
| Na | 23 | 115 | 2 | 11454.76 | 11454.76 | ppb | 16236082 | 0.64 | 55000 | |
| Mg | 24 | 115 | 2 | 673.68 | 673.68 | ppb | 439730 | 0.48 | 55000 | |
| Al | 27 | 115 | 2 | 10.14 | 10.14 | ppb | 2387 | 4.04 | 16500 | |
| K | 39 | 115 | 2 | 10458.24 | 10458.24 | ppb | 6189017 | 0.14 | 55000 | |
| Ca | 44 | 115 | 2 | 4290.19 | 4290.19 | ppb | 142061 | 1.01 | 55000 | |
| V | 51 | 115 | 2 | 0.32 | 0.32 | ppb | 3242 | 0.31 | 550 | |
| Cr | 52 | 115 | 2 | 0.07 | 0.07 | ppb | 2215 | 7.13 | 550 | |
| Mn | 55 | 115 | 2 | 4.90 | 4.90 | ppb | 32250 | 2.61 | 550 | |
| Fe | 56 | 115 | 2 | 10.56 | 10.56 | ppb | 159943 | 0.99 | 55000 | |
| Co | 59 | 115 | 2 | 0.01 | 0.01 | ppb | 506 | 9.24 | 550 | |
| Ni | 60 | 115 | 2 | 0.15 | 0.15 | ppb | 1176 | 5.27 | 550 | |
| Cu | 65 | 115 | 2 | 0.59 | 0.59 | ppb | 6959 | 3.71 | 550 | |
| Zn | 66 | 115 | 2 | 8.71 | 8.71 | ppb | 22878 | 0.49 | 550 | |
| As | 75 | 115 | 2 | 0.28 | 0.28 | ppb | 433 | 2.18 | 550 | |
| Se | 78 | 115 | 2 | 0.08 | 0.08 | ppb | 49 | 20.53 | 2750 | |
| Mo | 95 | 115 | 1 | 0.73 | 0.73 | ppb | 14128 | 1.44 | 550 | |
| Ag | 107 | 115 | 1 | 0.44 | 0.44 | ppb | 28699 | 7.67 | 550 | |
| Cd | 111 | 115 | 1 | 0.04 | 0.04 | ppb | 406 | 10.94 | 550 | |
| Sb | 121 | 115 | 1 | 0.07 | 0.07 | ppb | 3784 | 1.24 | 550 | |
| Ba | 137 | 159 | 1 | 14.34 | 14.34 | ppb | 240274 | 0.85 | 550 | |
| Tl | 205 | 165 | 1 | 0.00 | 0.00 | ppb | 1934 | 7.39 | 550 | |
| Pb | 208 | 165 | 1 | 0.08 | 0.08 | ppb | 9169 | 4.70 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1670793 | 0.66 | 1806323 | 92.5 | 70 | 130 | |
| Sc | 45 | 2 | 72240 | 0.99 | 83365 | 86.7 | 70 | 130 | |
| In | 115 | 1 | 3186277 | 0.38 | 3370573 | 94.5 | 70 | 130 | |
| In | 115 | 2 | 680337 | 0.57 | 766063 | 88.8 | 70 | 130 | |
| Tb | 159 | 1 | 4834329 | 0.47 | 4942864 | 97.8 | 70 | 130 | |
| Tb | 159 | 2 | 2625690 | 0.32 | 2747591 | 95.6 | 70 | 130 | |
| Ho | 165 | 1 | 4805620 | 0.41 | 4859401 | 98.9 | 70 | 130 | |
| Ho | 165 | 2 | 2646648 | 0.81 | 2780404 | 95.2 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Sample Report

| | |
|---|---|
| **Sample Name** | **RINSE** |
| **Data File Name** | **047SMPL.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T17:59:42-04:00** |
| **Type** | **Sample** |
| **VialNumber** | **1102** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | CorrConc | RawConc | Units | CPS | %RSD | High Value | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.03 | 0.03 | ppb | 333 | 3.60 | 550 | |
| Na | 23 | 115 | 2 | 132.91 | 132.91 | ppb | 442561 | 1.28 | 55000 | |
| Mg | 24 | 115 | 2 | 4.45 | 4.45 | ppb | 6205 | 2.69 | 55000 | |
| Al | 27 | 115 | 2 | 1.83 | 1.83 | ppb | 599 | 4.53 | 16500 | |
| K | 39 | 115 | 2 | 24.05 | 24.05 | ppb | 48946 | 0.37 | 55000 | |
| Ca | 44 | 115 | 2 | 9.35 | 9.35 | ppb | 609 | 6.60 | 55000 | |
| V | 51 | 115 | 2 | 0.00 | 0.00 | ppb | 348 | 19.37 | 550 | |
| Cr | 52 | 115 | 2 | -0.01 | -0.01 | ppb | 1411 | 0.83 | 550 | |
| Mn | 55 | 115 | 2 | 0.08 | 0.08 | ppb | 1712 | 6.99 | 550 | |
| Fe | 56 | 115 | 2 | 4.01 | 4.01 | ppb | 107395 | 8.38 | 55000 | |
| Co | 59 | 115 | 2 | 0.02 | 0.02 | ppb | 669 | 5.99 | 550 | |
| Ni | 60 | 115 | 2 | 0.01 | 0.01 | ppb | 486 | 5.20 | 550 | |
| Cu | 65 | 115 | 2 | -0.14 | -0.14 | ppb | 1298 | 1.04 | 550 | |
| Zn | 66 | 115 | 2 | 0.77 | 0.77 | ppb | 5100 | 0.56 | 550 | |
| As | 75 | 115 | 2 | 0.01 | 0.01 | ppb | 53 | 18.80 | 550 | |
| Se | 78 | 115 | 2 | 0.10 | 0.10 | ppb | 57 | 4.05 | 2750 | |
| Mo | 95 | 115 | 1 | 0.05 | 0.05 | ppb | 1125 | 5.85 | 550 | |
| Ag | 107 | 115 | 1 | 0.13 | 0.13 | ppb | 13213 | 6.99 | 550 | |
| Cd | 111 | 115 | 1 | 0.02 | 0.02 | ppb | 212 | 3.68 | 550 | |
| Sb | 121 | 115 | 1 | 0.01 | 0.01 | ppb | 1285 | 5.50 | 550 | |
| Ba | 137 | 159 | 1 | 0.03 | 0.03 | ppb | 1109 | 8.86 | 550 | |
| Tl | 205 | 165 | 1 | 0.05 | 0.05 | ppb | 7291 | 5.72 | 550 | |
| Pb | 208 | 165 | 1 | 0.02 | 0.02 | ppb | 3657 | 2.57 | 550 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1799158 | 0.12 | 1806323 | 99.6 | 70 | 130 | |
| Sc | 45 | 2 | 82591 | 1.05 | 83365 | 99.1 | 70 | 130 | |
| In | 115 | 1 | 3357143 | 1.19 | 3370573 | 99.6 | 70 | 130 | |
| In | 115 | 2 | 757686 | 1.01 | 766063 | 98.9 | 70 | 130 | |
| Tb | 159 | 1 | 4822636 | 0.64 | 4942864 | 97.6 | 70 | 130 | |
| Tb | 159 | 2 | 2709686 | 1.26 | 2747591 | 98.6 | 70 | 130 | |
| Ho | 165 | 1 | 4758928 | 1.10 | 4859401 | 97.9 | 70 | 130 | |
| Ho | 165 | 2 | 2743268 | 1.06 | 2780404 | 98.7 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Verification (CCV) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCV V-357844** |
| **Data File Name** | **0486CCV.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T18:04:12-04:00** |
| **Type** | **6-CCV** |
| **VialNumber** | **1201** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

**QC Analyte Table**

| Element | m/z | ISTD | Tune | Conc | Units | Expected | CPS | %RSD | %Rec | %QC Low | %QC High | QC Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 49.89 | ppb | 50 | 267210 | 1.22 | 99.79 | 90 | 110 | |
| Na | 23 | 115 | 2 | 4850.02 | ppb | 5000 | 7355369 | 0.73 | 97.00 | 90 | 110 | |
| Mg | 24 | 115 | 2 | 5058.48 | ppb | 5000 | 3452901 | 0.71 | 101.17 | 90 | 110 | |
| Al | 27 | 115 | 2 | 1486.94 | ppb | 1500 | 348164 | 0.32 | 99.13 | 90 | 110 | |
| K | 39 | 115 | 2 | 4990.08 | ppb | 5000 | 3121020 | 0.42 | 99.80 | 90 | 110 | |
| Ca | 44 | 115 | 2 | 4928.38 | ppb | 5000 | 171530 | 0.88 | 98.57 | 90 | 110 | |
| V | 51 | 115 | 2 | 49.36 | ppb | 50 | 481666 | 0.63 | 98.72 | 90 | 110 | |
| Cr | 52 | 115 | 2 | 49.18 | ppb | 50 | 617628 | 0.22 | 98.36 | 90 | 110 | |
| Mn | 55 | 115 | 2 | 49.50 | ppb | 50 | 332667 | 0.75 | 99.00 | 90 | 110 | |
| Fe | 56 | 115 | 2 | 5019.35 | ppb | 5000 | 51189008 | 0.38 | 100.39 | 90 | 110 | |
| Co | 59 | 115 | 2 | 49.48 | ppb | 50 | 1091625 | 0.69 | 98.96 | 90 | 110 | |
| Ni | 60 | 115 | 2 | 49.40 | ppb | 50 | 290440 | 1.01 | 98.81 | 90 | 110 | |
| Cu | 65 | 115 | 2 | 49.66 | ppb | 50 | 414335 | 0.34 | 99.31 | 90 | 110 | |
| Zn | 66 | 115 | 2 | 49.75 | ppb | 50 | 123504 | 0.92 | 99.51 | 90 | 110 | |
| As | 75 | 115 | 2 | 49.65 | ppb | 50 | 75744 | 1.16 | 99.29 | 90 | 110 | |
| Se | 78 | 115 | 2 | 247.90 | ppb | 250 | 24500 | 1.39 | 99.16 | 90 | 110 | |
| Mo | 95 | 115 | 1 | 47.49 | ppb | 50 | 923470 | 0.25 | 94.98 | 90 | 110 | |
| Ag | 107 | 115 | 1 | 50.51 | ppb | 50 | 2720326 | 0.38 | 101.02 | 90 | 110 | |
| Cd | 111 | 115 | 1 | 49.33 | ppb | 50 | 526164 | 0.89 | 98.66 | 90 | 110 | |
| Sb | 121 | 115 | 1 | 49.86 | ppb | 50 | 2244969 | 0.47 | 99.72 | 90 | 110 | |
| Ba | 137 | 159 | 1 | 48.30 | ppb | 50 | 806789 | 0.38 | 96.60 | 90 | 110 | |
| Tl | 205 | 165 | 1 | 49.94 | ppb | 50 | 5699999 | 0.26 | 99.89 | 90 | 110 | |
| Pb | 208 | 165 | 1 | 50.28 | ppb | 50 | 4085572 | 0.60 | 100.56 | 90 | 110 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1729444 | 1.41 | 1806323 | 95.7 | 70 | 130 | |
| Sc | 45 | 2 | 77006 | 1.41 | 83365 | 92.4 | 70 | 130 | |
| In | 115 | 1 | 3247606 | 0.60 | 3370573 | 96.4 | 70 | 130 | |
| In | 115 | 2 | 715261 | 0.59 | 766063 | 93.4 | 70 | 130 | |
| Tb | 159 | 1 | 4826892 | 0.81 | 4942864 | 97.7 | 70 | 130 | |
| Tb | 159 | 2 | 2683060 | 1.02 | 2747591 | 97.7 | 70 | 130 | |
| Ho | 165 | 1 | 4790829 | 0.35 | 4859401 | 98.6 | 70 | 130 | |
| Ho | 165 | 2 | 2721661 | 0.91 | 2780404 | 97.9 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

# Continuing Calibration Blank (CCB) - US EPA Method 6020

| | |
|---|---|
| **Sample Name** | **CCB V-357841** |
| **Data File Name** | **0496CCB.D** |
| **DataPath** | **C:\ICPMH\1\DATA\A092321B.b** |
| **Acq Date Time** | **2021-09-23T18:08:32-04:00** |
| **Type** | **6-CCB** |
| **VialNumber** | **1202** |
| **Dilution** | **1** |
| **Comment** | **MS_7700 6020 AQUEOUS** |
| **Operator** | |
| **ISTDRefDataFileName** | **003CALB.D** |
| **SamplePassFail** | **Pass** |
| **ISTD PassFail** | **Pass** |

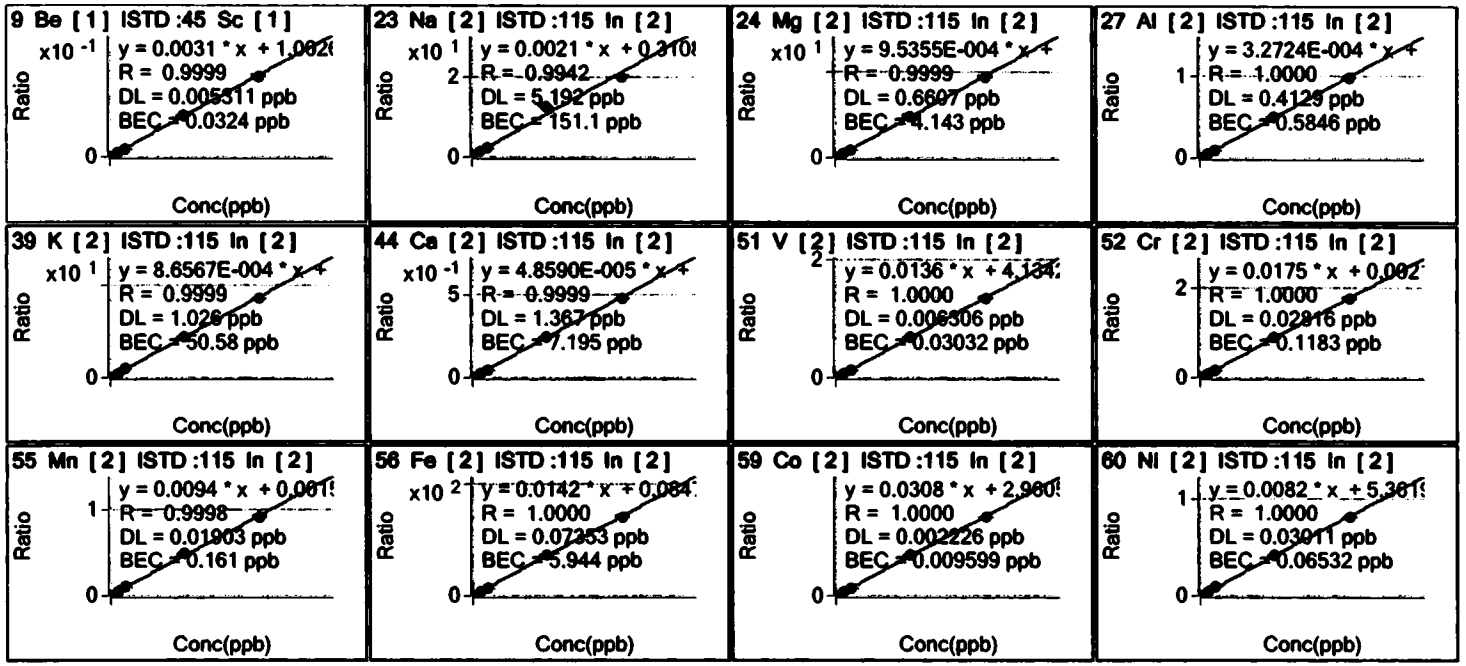
**QC Analyte Table**

| Element | m/z | ISTD | Tune Step | Meas Value | Units | QC High | QC Flag |
|---|---|---|---|---|---|---|---|
| Be | 9 | 45 | 1 | 0.02 | ppb | 0.5 | |
| Na | 23 | 115 | 2 | -12.41 | ppb | 250 | |
| Mg | 24 | 115 | 2 | -0.15 | ppb | 250 | |
| Al | 27 | 115 | 2 | 0.49 | ppb | 100 | |
| K | 39 | 115 | 2 | -0.42 | ppb | 250 | |
| Ca | 44 | 115 | 2 | 1.78 | ppb | 250 | |
| V | 51 | 115 | 2 | 0.01 | ppb | 1 | |
| Cr | 52 | 115 | 2 | -0.01 | ppb | 1 | |
| Mn | 55 | 115 | 2 | 0.00 | ppb | 3 | |
| Fe | 56 | 115 | 2 | 2.31 | ppb | 150 | |
| Co | 59 | 115 | 2 | 0.01 | ppb | 1 | |
| Ni | 60 | 115 | 2 | 0.00 | ppb | 1.5 | |
| Cu | 65 | 115 | 2 | -0.04 | ppb | 5 | |
| Zn | 66 | 115 | 2 | -0.10 | ppb | 10 | |
| As | 75 | 115 | 2 | 0.02 | ppb | 1 | |
| Se | 78 | 115 | 2 | 0.09 | ppb | 5 | |
| Mo | 95 | 115 | 1 | 0.06 | ppb | 1 | |
| Ag | 107 | 115 | 1 | 0.04 | ppb | 0.5 | |
| Cd | 111 | 115 | 1 | 0.01 | ppb | 1 | |
| Sb | 121 | 115 | 1 | 0.04 | ppb | 1.5 | |
| Ba | 137 | 159 | 1 | 0.01 | ppb | 2.5 | |
| Tl | 205 | 165 | 1 | 0.13 | ppb | 1 | |
| Pb | 208 | 165 | 1 | 0.02 | ppb | 1.5 | |

**QC ISTD Table**

| Element | m/z | Tune Step | CPS | %RSD | Reference CPS | %Recovery | Lower Limit | Upper Limit | QC Flag |
|---|---|---|---|---|---|---|---|---|---|
| Sc | 45 | 1 | 1732436 | 0.48 | 1806323 | 95.9 | 70 | 130 | |
| Sc | 45 | 2 | 78010 | 1.71 | 83365 | 93.6 | 70 | 130 | |
| In | 115 | 1 | 3244062 | 0.43 | 3370573 | 96.2 | 70 | 130 | |
| In | 115 | 2 | 725906 | 0.74 | 766063 | 94.8 | 70 | 130 | |
| Tb | 159 | 1 | 4814108 | 0.66 | 4942864 | 97.4 | 70 | 130 | |
| Tb | 159 | 2 | 2671207 | 0.31 | 2747591 | 97.2 | 70 | 130 | |
| Ho | 165 | 1 | 4730121 | 0.44 | 4859401 | 97.3 | 70 | 130 | |
| Ho | 165 | 2 | 2713029 | 0.37 | 2780404 | 97.6 | 70 | 130 | |

| TuneStep | TuneFile |
|---|---|
| 1 | nogas.u |
| 2 | he.u |

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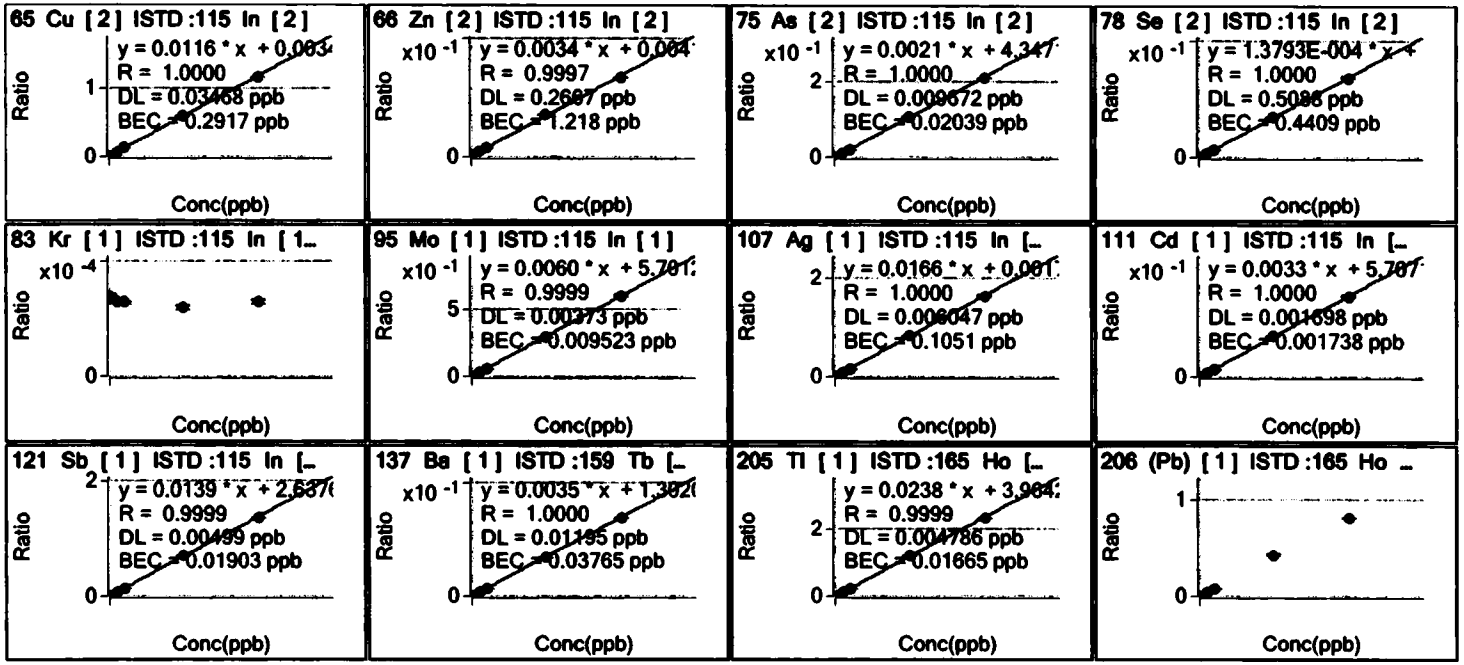


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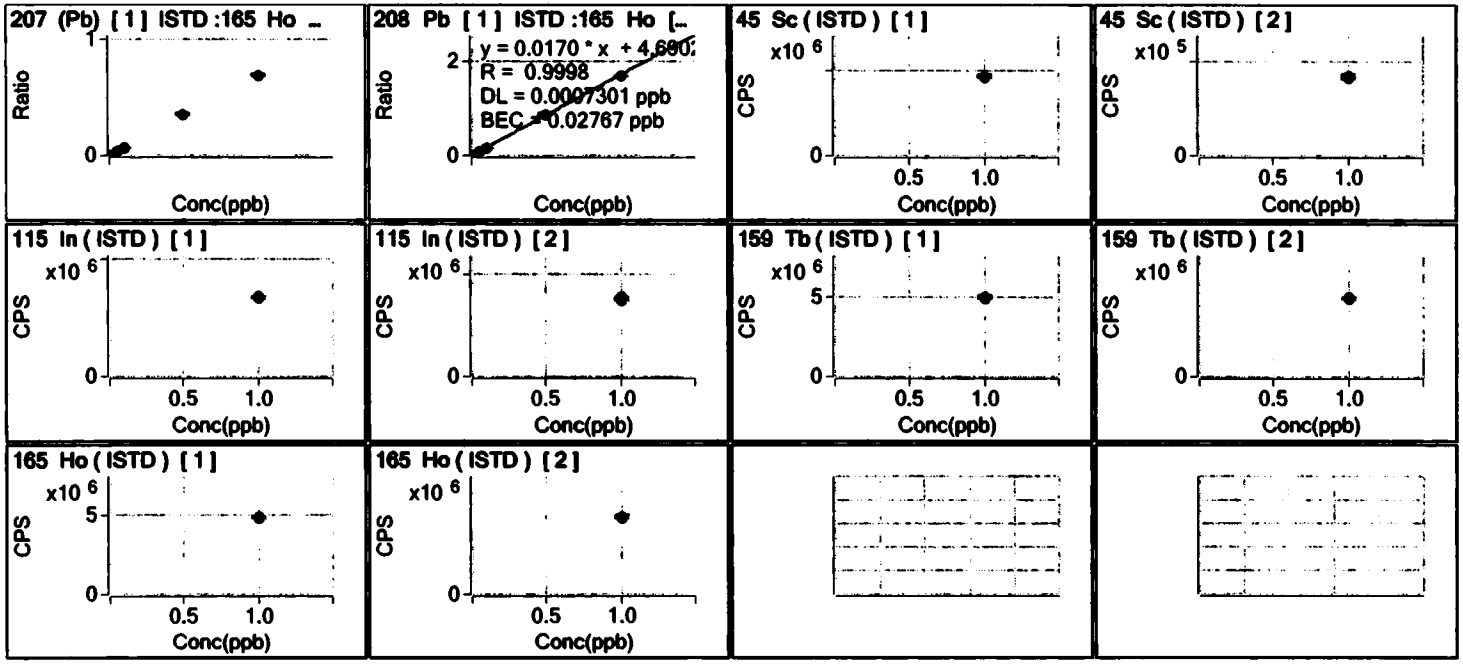


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J, 357868

AMS 9/23/21 ar. 9/24/21

Analysis Begun

Logged In Analyst: usermet
Technique: AA FIMS-MHS
Spectrometer Model: FIMS-100, S/N B050-9550
Autosampler Model: AS-90

Sample Information File: C:\data-AA\johns\Sample Information\H27671SW.sif
Batch ID: H27671SW
Results Data Set: H27671SW
Results Library: C:\data-AA\johns\Results\Results.mdb

Method Loaded
Method Name: HGCV3 SWH2O (7470A)
Method Last Saved: 3/8/2018 4:29:31 PM
Method Description: HgCV3 SW846H2O (7470A)

Sequence No.: 1
Autosampler Location: 1
Sample ID: Calibration Blank
Date Collected: 9/23/2021 5:16:12 PM
Analyst:
Data Type: Original

Replicate Data: Calibration Blank

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [0.00] | 0.0001 | 0.0006 | 0.0001 | 17:16:58 | Yes |
| 2 | | [0.00] | 0.0001 | 0.0006 | 0.0001 | 17:17:31 | Yes |
| Mean: | | [0.00] | 0.0001 | | | | |
| SD: | | 0.00 | 0.0000 | | | | |
| %RSD: | | 0.00 | 24.15 | | | | |

Auto-zero performed.

Sequence No.: 2
Autosampler Location: 2
Sample ID: .2 PPB
Date Collected: 9/23/2021 5:17:32 PM
Analyst:
Data Type: Original

Replicate Data: .2 PPB

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [0.2] | 0.0012 | 0.0059 | 0.0013 | 17:18:17 | Yes |
| 2 | | [0.2] | 0.0011 | 0.0047 | 0.0012 | 17:18:50 | Yes |
| Mean: | | [0.2] | 0.0012 | | | | |
| SD: | | 0.0 | 0.0001 | | | | |
| %RSD: | | 0.0 | 5.40 | | | | |

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00580 Intercept: 0.00000

Sequence No.: 3
Autosampler Location: 3
Sample ID: .5 PPB
Date Collected: 9/23/2021 5:18:51 PM
Analyst:
Data Type: Original

Replicate Data: .5 PPB

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [0.5] | 0.0024 | 0.0114 | 0.0025 | 17:19:37 | Yes |
| 2 | | [0.5] | 0.0024 | 0.0112 | 0.0025 | 17:20:09 | Yes |
| Mean: | | [0.5] | 0.0024 | | | | |
| SD: | | 0.0 | 0.0000 | | | | |
| %RSD: | | 0.0 | 0.99 | | | | |

Standard number 2 applied. [0.5]
Correlation Coef.: 0.995243 Slope: 0.00473 Intercept: 0.00008

Sequence No.: 4
Autosampler Location: 4
Sample ID: 1 PPB
Date Collected: 9/23/2021 5:20:11 PM
Analyst:
Data Type: Original

Replicate Data: 1 PPB

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | [1] | 0.0048 | 0.0213 | 0.0049 | 17:20:56 | Yes |
| 2 | [1] | 0.0047 | 0.0207 | 0.0048 | 17:21:29 | Yes |
| Mean: | [1] | 0.0047 | | | | |
| SD: | 0 | 0.0000 | | | | |
| %RSD: | 0 | 0.96 | | | | |

Standard number 3 applied. [1]
Correlation Coef.: 0.998862 Slope: 0.00466 Intercept: 0.00009

**Sequence No.: 5** **Autosampler Location: 5**
**Sample ID: 2 PPB** **Date Collected: 9/23/2021 5:21:31 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: 2 PPB**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [2] | 0.0094 | 0.0418 | 0.0095 | 17:22:16 | Yes |
| 2 | | [2] | 0.0093 | 0.0407 | 0.0094 | 17:22:49 | Yes |
| Mean: | | [2] | 0.0094 | | | | |
| SD: | | 0 | 0.0001 | | | | |
| %RSD: | | 0 | 0.70 | | | | |

Standard number 4 applied. [2]
Correlation Coef.: 0.999744 Slope: 0.00464 Intercept: 0.00010

**Sequence No.: 6** **Autosampler Location: 6**
**Sample ID: 5 PPB** **Date Collected: 9/23/2021 5:22:50 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: 5 PPB**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [5] | 0.0252 | 0.1106 | 0.0253 | 17:23:36 | Yes |
| 2 | | [5] | 0.0252 | 0.1103 | 0.0253 | 17:24:08 | Yes |
| Mean: | | [5] | 0.0252 | | | | |
| SD: | | 0 | 0.0000 | | | | |
| %RSD: | | 0 | 0.06 | | | | |

Standard number 5 applied. [5]
Correlation Coef.: 0.999493 Slope: 0.00502 Intercept: -0.00014

**Sequence No.: 7** **Autosampler Location: 7**
**Sample ID: 10 PPB** **Date Collected: 9/23/2021 5:24:09 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: 10 PPB**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [10] | 0.0504 | 0.2214 | 0.0505 | 17:24:55 | Yes |
| 2 | | [10] | 0.0505 | 0.2199 | 0.0506 | 17:25:27 | Yes |
| Mean: | | [10] | 0.0505 | | | | |
| SD: | | 0 | 0.0001 | | | | |
| %RSD: | | 0 | 0.14 | | | | |

Standard number 6 applied. [10]
Correlation Coef.: 0.999882 Slope: 0.00506 Intercept: -0.00018

**Sequence No.: 8** **Autosampler Location: 8**
**Sample ID: 25 PPB** **Date Collected: 9/23/2021 5:25:53 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: 25 PPB**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [25] | 0.1189 | 0.5239 | 0.1190 | 17:26:43 | Yes |
| 2 | | [25] | 0.1183 | 0.5179 | 0.1184 | 17:27:16 | Yes |
| Mean: | | [25] | 0.1186 | | | | |
| SD: | | 0 | 0.0004 | | | | |
| %RSD: | | 0 | 0.35 | | | | |

Standard number 7 applied. [25]
Correlation Coef.: 0.999641 Slope: 0.00477 Intercept: 0.00044

Calibration data for Hg 253.7 Equation: Linear, Calculated Intercept

| ID | Mean Signal (Abs) | Entered Conc. ug/L | Calculated Conc. ug/L | Standard Deviation | %RSD |
|---|---|---|---|---|---|
| Calibration Blank | 0.0000 | 0 | -0.093 | 0.00 | 24.1 |
| .2 PPB | 0.0012 | 0.2 | 0.150 | 0.00 | 5.4 |
| .5 PPB | 0.0024 | 0.5 | 0.408 | 0.00 | 1.0 |
| 1 PPB | 0.0047 | 1.0 | 0.900 | 0.00 | 1.0 |
| 2 PPB | 0.0094 | 2.0 | 1.873 | 0.00 | 0.7 |
| 5 PPB | 0.0252 | 5.0 | 5.188 | 0.00 | 0.1 |
| 10 PPB | 0.0505 | 10.0 | 10.492 | 0.00 | 0.1 |
| 25 PPB | 0.1186 | 25.0 | 24.782 | 0.00 | 0.3 |

Correlation Coef.: 0.999641 Slope: 0.00477 Intercept: 0.00044

Sequence No.: 9 Autosampler Location: 10
Sample ID: ICV (2) Date Collected: 9/23/2021 5:27:42 PM
Analyst: Data Type: Original

Replicate Data: ICV (2)

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 21.47 | 21.47 | 0.1028 | 0.4507 | 0.1029 | 17:28:29 | Yes |
| 2 | 21.32 | 21.32 | 0.1021 | 0.4444 | 0.1022 | 17:29:01 | Yes |
| Mean: | 21.39 | 21.39 | 0.1025 | | | | |
| SD: | 0.111 | 0.111 | 0.0005 | | | | |
| %RSD: | 0.519 | 0.519 | 0.52 | | | | |

QC value within limits for Hg 253.7 Recovery = 106.97%
All analyte(s) passed QC.

Sequence No.: 10 Autosampler Location: 1
Sample ID: ICB Date Collected: 9/23/2021 5:29:24 PM
Analyst: Data Type: Original

Replicate Data: ICB

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.113 | -0.113 | -0.0001 | -0.0007 | 0.0000 | 17:30:11 | Yes |
| 2 | -0.111 | -0.111 | -0.0001 | -0.0000 | 0.0000 | 17:30:43 | Yes |
| Mean: | -0.112 | -0.112 | -0.0001 | | | | |
| SD: | 0.001 | 0.001 | 0.0000 | | | | |
| %RSD: | 1.182 | 1.182 | 7.11 | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 11 Autosampler Location: 11
Sample ID: MB 94429 (1) Date Collected: 9/23/2021 5:30:44 PM
Analyst: Data Type: Original

Replicate Data: MB 94429 (1)

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.109 | -0.109 | -0.0001 | -0.0003 | 0.0000 | 17:31:31 | Yes |
| 2 | -0.112 | -0.112 | -0.0001 | -0.0008 | 0.0000 | 17:32:04 | Yes |
| Mean: | -0.111 | -0.111 | -0.0001 | | | | |
| SD: | 0.002 | 0.002 | 0.0000 | | | | |
| %RSD: | 1.695 | 1.695 | 10.79 | | | | |

Sequence No.: 12 Autosampler Location: 12
Sample ID: LCS 94429 Date Collected: 9/23/2021 5:32:05 PM
Analyst: Data Type: Original

Replicate Data: LCS 94429

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 11.44 | 11.44 | 0.0550 | 0.2407 | 0.0551 | 17:32:51 | Yes |
| 2 | 10.75 | 10.75 | 0.0517 | 0.2238 | 0.0518 | 17:33:23 | Yes |
| Mean: | 11.10 | 11.10 | 0.0534 | | | | |

| | | | |
|---|---|---|---|
| SD: | 0.487 | 0.487 | 0.0023 |
| %RSD: | 4.387 | 4.387 | 4.35 |

Sequence No.: 13 Autosampler Location: 13
Sample ID: LCS 94429 MR Date Collected: 9/23/2021 5:33:47 PM
Analyst: Data Type: Original

Replicate Data: LCS 94429 MR

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 10.60 | 10.60 | 0.0510 | 0.2218 | 0.0511 | 17:34:35 | Yes |
| 2 | 10.61 | 10.61 | 0.0510 | 0.2203 | 0.0511 | 17:35:07 | Yes |
| Mean: | 10.60 | 10.60 | 0.0510 | | | | |
| SD: | 0.006 | 0.006 | 0.0000 | | | | |
| %RSD: | 0.060 | 0.060 | 0.06 | | | | |

Sequence No.: 14 Autosampler Location: 14
Sample ID: AD26083-041 Date Collected: 9/23/2021 5:35:31 PM
Analyst: Data Type: Original

Replicate Data: AD26083-041

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.122 | -0.122 | -0.0001 | -0.0019 | -0.0000 | 17:36:19 | Yes |
| 2 | -0.111 | -0.111 | -0.0001 | -0.0020 | 0.0000 | 17:36:52 | Yes |
| Mean: | -0.117 | -0.117 | -0.0001 | | | | |
| SD: | 0.008 | 0.008 | 0.0000 | | | | |
| %RSD: | 6.545 | 6.545 | 32.72 | | | | |

Sequence No.: 15 Autosampler Location: 15
Sample ID: AD26083-041 MR Date Collected: 9/23/2021 5:36:53 PM
Analyst: Data Type: Original

Replicate Data: AD26083-041 MR

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.103 | -0.103 | -0.0000 | -0.0028 | 0.0001 | 17:37:39 | Yes |
| 2 | -0.118 | -0.118 | -0.0001 | -0.0027 | -0.0000 | 17:38:11 | Yes |
| Mean: | -0.110 | -0.110 | -0.0001 | | | | |
| SD: | 0.011 | 0.011 | 0.0001 | | | | |
| %RSD: | 9.641 | 9.641 | 63.06 | | | | |

Sequence No.: 16 Autosampler Location: 16
Sample ID: AD26083-043 MS 1 Date Collected: 9/23/2021 5:38:13 PM
Analyst: Data Type: Original

Replicate Data: AD26083-043 MS 1

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 7.259 | 7.259 | 0.0351 | 0.1588 | 0.0352 | 17:38:58 | Yes |
| 2 | 7.151 | 7.151 | 0.0345 | 0.1536 | 0.0346 | 17:39:31 | Yes |
| Mean: | 7.205 | 7.205 | 0.0348 | | | | |
| SD: | 0.077 | 0.077 | 0.0004 | | | | |
| %RSD: | 1.067 | 1.067 | 1.05 | | | | |

Sequence No.: 17 Autosampler Location: 17
Sample ID: AD26083-045 MS 2 Date Collected: 9/23/2021 5:39:32 PM
Analyst: Data Type: Original

Replicate Data: AD26083-045 MS 2

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 6.986 | 6.986 | 0.0338 | 0.1531 | 0.0339 | 17:40:17 | Yes |
| 2 | 6.973 | 6.973 | 0.0337 | 0.1516 | 0.0338 | 17:40:50 | Yes |
| Mean: | 6.980 | 6.980 | 0.0337 | | | | |
| SD: | 0.009 | 0.009 | 0.0000 | | | | |

%RSD: 0.132 0.132 0.13

Sequence No.: 18 Autosampler Location: 18
Sample ID: AD26083-004 Date Collected: 9/23/2021 5:40:51 PM
Analyst: Data Type: Original

Replicate Data: AD26083-004

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.122 | -0.122 | -0.0001 | -0.0016 | -0.0000 | 17:41:36 | Yes |
| 2 | -0.122 | -0.122 | -0.0001 | -0.0014 | -0.0000 | 17:42:09 | Yes |
| Mean: | -0.122 | -0.122 | -0.0001 | | | | |
| SD: | 0.000 | 0.000 | 0.0000 | | | | |
| %RSD: | 0.146 | 0.146 | 0.63 | | | | |

Sequence No.: 19 Autosampler Location: 19
Sample ID: AD26083-007 Date Collected: 9/23/2021 5:42:10 PM
Analyst: Data Type: Original

Replicate Data: AD26083-007

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.111 | -0.111 | -0.0001 | -0.0008 | 0.0000 | 17:42:59 | Yes |
| 2 | -0.120 | -0.120 | -0.0001 | -0.0014 | -0.0000 | 17:43:32 | Yes |
| Mean: | -0.115 | -0.115 | -0.0001 | | | | |
| SD: | 0.006 | 0.006 | 0.0000 | | | | |
| %RSD: | 4.986 | 4.986 | 25.97 | | | | |

Sequence No.: 20 Autosampler Location: 9
Sample ID: CCV Date Collected: 9/23/2021 5:43:33 PM
Analyst: Data Type: Original

Replicate Data: CCV

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 10.84 | 10.84 | 0.0521 | 0.2268 | 0.0522 | 17:44:19 | Yes |
| 2 | 10.79 | 10.79 | 0.0519 | 0.2246 | 0.0520 | 17:44:51 | Yes |
| Mean: | 10.82 | 10.82 | 0.0520 | | | | |
| SD: | 0.030 | 0.030 | 0.0001 | | | | |
| %RSD: | 0.280 | 0.280 | 0.28 | | | | |

QC value within limits for Hg 253.7 Recovery = 108.16%
All analyte(s) passed QC.

Sequence No.: 21 Autosampler Location: 1
Sample ID: CCB Date Collected: 9/23/2021 5:45:14 PM
Analyst: Data Type: Original

Replicate Data: CCB

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.115 | -0.115 | -0.0001 | -0.0010 | -0.0000 | 17:46:00 | Yes |
| 2 | -0.117 | -0.117 | -0.0001 | -0.0011 | -0.0000 | 17:46:33 | Yes |
| Mean: | -0.116 | -0.116 | -0.0001 | | | | |
| SD: | 0.001 | 0.001 | 0.0000 | | | | |
| %RSD: | 0.934 | 0.934 | 4.75 | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 22 Autosampler Location: 20
Sample ID: AD26083-013 Date Collected: 9/23/2021 5:46:34 PM
Analyst: Data Type: Original

Replicate Data: AD26083-013

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.120 | -0.120 | -0.0001 | -0.0010 | -0.0000 | 17:47:21 | Yes |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | -0.110 | -0.110 | -0.0001 | -0.0009 | 0.0000 | 17:47:53 | Yes |
| Mean: | -0.115 | -0.115 | -0.0001 | | | | |
| SD: | 0.007 | 0.007 | 0.0000 | | | | |
| %RSD: | 6.208 | 6.208 | 33.26 | | | | |

Sequence No.: 23 Autosampler Location: 21
Sample ID: AD26083-015 Date Collected: 9/23/2021 5:47:55 PM
Analyst: Data Type: Original

Replicate Data: AD26083-015

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.108 | -0.108 | -0.0001 | -0.0007 | 0.0000 | 17:48:40 | Yes |
| 2 | -0.114 | -0.114 | -0.0001 | -0.0003 | -0.0000 | 17:49:13 | Yes |
| Mean: | -0.111 | -0.111 | -0.0001 | | | | |
| SD: | 0.004 | 0.004 | 0.0000 | | | | |
| %RSD: | 3.706 | 3.706 | 23.13 | | | | |

Sequence No.: 24 Autosampler Location: 22
Sample ID: AD26083-017 Date Collected: 9/23/2021 5:49:14 PM
Analyst: Data Type: Original

Replicate Data: AD26083-017

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.111 | -0.111 | -0.0001 | -0.0002 | 0.0000 | 17:49:59 | Yes |
| 2 | -0.114 | -0.114 | -0.0001 | -0.0007 | -0.0000 | 17:50:32 | Yes |
| Mean: | -0.113 | -0.113 | -0.0001 | | | | |
| SD: | 0.002 | 0.002 | 0.0000 | | | | |
| %RSD: | 1.698 | 1.698 | 9.80 | | | | |

Sequence No.: 25 Autosampler Location: 23
Sample ID: AD26083-020 Date Collected: 9/23/2021 5:50:33 PM
Analyst: Data Type: Original

Replicate Data: AD26083-020

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.109 | -0.109 | -0.0001 | -0.0002 | 0.0000 | 17:51:19 | Yes |
| 2 | -0.119 | -0.119 | -0.0001 | -0.0012 | -0.0000 | 17:51:51 | Yes |
| Mean: | -0.114 | -0.114 | -0.0001 | | | | |
| SD: | 0.007 | 0.007 | 0.0000 | | | | |
| %RSD: | 5.844 | 5.844 | 31.90 | | | | |

Sequence No.: 26 Autosampler Location: 24
Sample ID: AD26083-022 Date Collected: 9/23/2021 5:51:53 PM
Analyst: Data Type: Original

Replicate Data: AD26083-022

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.105 | -0.105 | -0.0001 | -0.0003 | 0.0000 | 17:52:38 | Yes |
| 2 | -0.115 | -0.115 | -0.0001 | -0.0012 | -0.0000 | 17:53:10 | Yes |
| Mean: | -0.110 | -0.110 | -0.0001 | | | | |
| SD: | 0.007 | 0.007 | 0.0000 | | | | |
| %RSD: | 6.455 | 6.455 | 41.94 | | | | |

Sequence No.: 27 Autosampler Location: 25
Sample ID: AD26083-024 Date Collected: 9/23/2021 5:53:12 PM
Analyst: Data Type: Original

Replicate Data: AD26083-024

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.109 | -0.109 | -0.0001 | -0.0010 | 0.0000 | 17:53:57 | Yes |
| 2 | -0.116 | -0.116 | -0.0001 | -0.0008 | -0.0000 | 17:54:30 | Yes |

| | | | |
|---|---|---|---|
| Mean: | -0.113 | -0.113 | -0.0001 |
| SD: | 0.005 | 0.005 | 0.0000 |
| %RSD: | 4.042 | 4.042 | 23.57 |

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**Sequence No.: 28** **Autosampler Location: 26**
**Sample ID: AD26083-029** **Date Collected: 9/23/2021 5:54:32 PM**
**Analyst:** **Data Type: Original**

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**Replicate Data: AD26083-029**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.117 | -0.117 | -0.0001 | -0.0009 | -0.0000 | 17:55:17 | Yes |
| 2 | -0.113 | -0.113 | -0.0001 | -0.0010 | 0.0000 | 17:55:50 | Yes |
| Mean: | -0.115 | -0.115 | -0.0001 | | | | |
| SD: | 0.003 | 0.003 | 0.0000 | | | | |
| %RSD: | 2.674 | 2.674 | 14.08 | | | | |

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**Sequence No.: 29** **Autosampler Location: 27**
**Sample ID: AD26083-031** **Date Collected: 9/23/2021 5:55:51 PM**
**Analyst:** **Data Type: Original**

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**Replicate Data: AD26083-031**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.111 | -0.111 | -0.0001 | -0.0009 | 0.0000 | 17:56:36 | Yes |
| 2 | -0.113 | -0.113 | -0.0001 | -0.0006 | 0.0000 | 17:57:09 | Yes |
| Mean: | -0.112 | -0.112 | -0.0001 | | | | |
| SD: | 0.002 | 0.002 | 0.0000 | | | | |
| %RSD: | 1.517 | 1.517 | 9.01 | | | | |

==========

**Sequence No.: 30** **Autosampler Location: 28**
**Sample ID: AD26083-037** **Date Collected: 9/23/2021 5:57:10 PM**
**Analyst:** **Data Type: Original**

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**Replicate Data: AD26083-037**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.110 | -0.110 | -0.0001 | -0.0007 | 0.0000 | 17:57:59 | Yes |
| 2 | -0.116 | -0.116 | -0.0001 | -0.0016 | -0.0000 | 17:58:32 | Yes |
| Mean: | -0.113 | -0.113 | -0.0001 | | | | |
| SD: | 0.004 | 0.004 | 0.0000 | | | | |
| %RSD: | 3.600 | 3.600 | 20.90 | | | | |

==========

**Sequence No.: 31** **Autosampler Location: 9**
**Sample ID: CCV** **Date Collected: 9/23/2021 5:58:33 PM**
**Analyst:** **Data Type: Original**

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**Replicate Data: CCV**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 10.82 | 10.82 | 0.0520 | 0.2259 | 0.0521 | 17:59:20 | Yes |
| 2 | 10.74 | 10.74 | 0.0517 | 0.2223 | 0.0518 | 17:59:52 | Yes |
| Mean: | 10.78 | 10.78 | 0.0518 | | | | |
| SD: | 0.054 | 0.054 | 0.0003 | | | | |
| %RSD: | 0.500 | 0.500 | 0.50 | | | | |

QC value within limits for Hg 253.7 Recovery = 107.78%
All analyte(s) passed QC.

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**Sequence No.: 32** **Autosampler Location: 1**
**Sample ID: CCB** **Date Collected: 9/23/2021 6:00:14 PM**
**Analyst:** **Data Type: Original**

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**Replicate Data: CCB**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.118 | -0.118 | -0.0001 | -0.0009 | -0.0000 | 18:01:01 | Yes |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | -0.117 | -0.117 | -0.0001 | -0.0006 | -0.0000 | 18:01:34 | Yes |
| Mean: | -0.118 | -0.118 | -0.0001 | | | | |
| SD: | 0.001 | 0.001 | 0.0000 | | | | |
| %RSD: | 1.153 | 1.153 | 5.59 | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 33 Autosampler Location: 29
Sample ID: AD26083-047 Date Collected: 9/23/2021 6:01:35 PM
Analyst: Data Type: Original

Replicate Data: AD26083-047

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.112 | -0.112 | -0.0001 | -0.0003 | 0.0000 | 18:02:22 | Yes |
| 2 | -0.113 | -0.113 | -0.0001 | -0.0009 | 0.0000 | 18:02:55 | Yes |
| Mean: | -0.113 | -0.113 | -0.0001 | | | | |
| SD: | 0.001 | 0.001 | 0.0000 | | | | |
| %RSD: | 0.496 | 0.496 | 2.87 | | | | |

Sequence No.: 34 Autosampler Location: 9
Sample ID: CCV Date Collected: 9/23/2021 6:02:56 PM
Analyst: Data Type: Original

Replicate Data: CCV

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 10.73 | 10.73 | 0.0516 | 0.2231 | 0.0517 | 18:03:43 | Yes |
| 2 | 10.66 | 10.66 | 0.0513 | 0.2204 | 0.0513 | 18:04:16 | Yes |
| Mean: | 10.69 | 10.69 | 0.0514 | | | | |
| SD: | 0.054 | 0.054 | 0.0003 | | | | |
| %RSD: | 0.505 | 0.505 | 0.50 | | | | |

QC value within limits for Hg 253.7 Recovery = 106.93%
All analyte(s) passed QC.

Sequence No.: 35 Autosampler Location: 1
Sample ID: CCB Date Collected: 9/23/2021 6:04:38 PM
Analyst: Data Type: Original

Replicate Data: CCB

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.112 | -0.112 | -0.0001 | -0.0009 | 0.0000 | 18:05:25 | Yes |
| 2 | -0.116 | -0.116 | -0.0001 | -0.0010 | -0.0000 | 18:05:57 | Yes |
| Mean: | -0.114 | -0.114 | -0.0001 | | | | |
| SD: | 0.003 | 0.003 | 0.0000 | | | | |
| %RSD: | 2.885 | 2.885 | 15.89 | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Method: HgCV4 SW846H2O (7470 Page 1 Date: 9/28/2021 1:07:13 PM

H27683SW Sw12 V-39874 Cyn SW846 9/28

Analysis Begun

Logged In Analyst: peservice Technique: AA FIMS-MHS
Spectrometer: FIMS-100, S/N B050-9550 Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\AA\Data\Sample Information\H27683SW.sifx
Batch ID: H27670SWB
Results Data Set: H27683SW
Results Library: C:\Users\Public\PerkinElmer Syngistix\AA\Data\Results\Results.mdb

10/6/21.

Sequence No.: 1 Autosampler Location: 1
Sample ID: Calibration Blank Date Collected: 9/28/2021 1:01:10 PM
Analyst: Data Type: Original

Replicate Data: Calibration Blank Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [0.00] | 0.0002 | 0.0012 | 0.0002 | 1:02:01 PM | Yes |
| 2 | | [0.00] | 0.0000 | -0.0009 | 0.0000 | 1:02:37 PM | Yes |
| Mean: | | [0.00] | 0.0001 | | | | |
| SD: | | 0.0000 | 0.0001 | | | | |
| %RSD: | | 0.00% | 109.14% | | | | |

Auto-zero performed.

Sequence No.: 2 Autosampler Location: 2
Sample ID: .2 PPB Date Collected: 9/28/2021 1:02:41 PM
Analyst: Data Type: Original

Replicate Data: .2 PPB Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [0.2] | 0.0000 | -0.0002 | 0.0001 | 1:03:32 PM | Yes |
| 2 | | [0.2] | 0.0001 | 0.0003 | 0.0002 | 1:04:08 PM | Yes |
| Mean: | | [0.2] | 0.0000 | | | | |
| SD: | | 0.000 | 0.0000 | | | | |
| %RSD: | | 0.00% | 47.73% | | | | |

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00024 Intercept: 0.00000

Sequence No.: 3 Autosampler Location: 3
Sample ID: .5 PPB Date Collected: 9/28/2021 1:04:12 PM
Analyst: Data Type: Original

Replicate Data: .5 PPB Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [0.5] | 0.0038 | 0.0166 | 0.0039 | 1:05:03 PM | Yes |
| 2 | | [0.5] | 0.0038 | 0.0175 | 0.0039 | 1:05:39 PM | Yes |
| Mean: | | [0.5] | 0.0038 | | | | |
| SD: | | 0.000 | 0.0000 | | | | |
| %RSD: | | 0.00% | 0.75% | | | | |

Standard number 2 applied. [0.5]
Correlation Coef.: 0.922028 Slope: 0.00796 Intercept: -0.00058

Sequence No.: 4 Autosampler Location: 4
Sample ID: 1 PPB Date Collected: 9/28/2021 1:05:43 PM
Analyst: Data Type: Original

Replicate Data: 1 PPB Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [1] | 0.0077 | 0.0356 | 0.0078 | 1:06:33 PM | Yes |
| 2 | | [1] | 0.0076 | 0.0366 | 0.0077 | 1:07:10 PM | Yes |

Mean: [1] 0.0076
SD: 0.00 0.0001
%RSD: 0.00% 1.14%
Standard number 3 applied. [1]
Correlation Coef.: 0.981843 Slope: 0.00819 Intercept: -0.00062

---

**Sequence No.: 5** **Autosampler Location: 5**
**Sample ID: 2 PPB** **Date Collected: 9/28/2021 1:07:14 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: 2 PPB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [2] | 0.0143 | 0.0642 | 0.0144 | 1:08:05 PM | Yes |
| 2 | | [2] | 0.0144 | 0.0641 | 0.0145 | 1:08:41 PM | Yes |
| Mean: | | [2] | 0.0143 | | | | |
| SD: | | 0.00 | 0.0001 | | | | |
| %RSD: | | 0.00% | 0.56% | | | | |

Standard number 4 applied. [2]
Correlation Coef.: 0.993814 Slope: 0.00749 Intercept: -0.00038

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**Sequence No.: 6** **Autosampler Location: 6**
**Sample ID: 5 PPB** **Date Collected: 9/28/2021 1:08:45 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: 5 PPB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [5] | 0.0363 | 0.1612 | 0.0364 | 1:09:36 PM | Yes |
| 2 | | [5] | 0.0360 | 0.1617 | 0.0361 | 1:10:12 PM | Yes |
| Mean: | | [5] | 0.0361 | | | | |
| SD: | | 0.00 | 0.0002 | | | | |
| %RSD: | | 0.00% | 0.65% | | | | |

Standard number 5 applied. [5]
Correlation Coef.: 0.999002 Slope: 0.00731 Intercept: -0.00027

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**Sequence No.: 7** **Autosampler Location: 7**
**Sample ID: 10 PPB** **Date Collected: 9/28/2021 1:10:16 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: 10 PPB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [10] | 0.0707 | 0.3210 | 0.0708 | 1:11:08 PM | Yes |
| 2 | | [10] | 0.0711 | 0.3217 | 0.0712 | 1:11:45 PM | Yes |
| Mean: | | [10] | 0.0709 | | | | |
| SD: | | 0.00 | 0.0003 | | | | |
| %RSD: | | 0.00% | 0.43% | | | | |

Standard number 6 applied. [10]
Correlation Coef.: 0.999690 Slope: 0.00714 Intercept: -0.00008

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**Sequence No.: 8** **Autosampler Location: 8**
**Sample ID: 25 PPB** **Date Collected: 9/28/2021 1:12:12 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: 25 PPB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | | [25] | 0.1763 | 0.7980 | 0.1764 | 1:13:03 PM | Yes |
| 2 | | [25] | 0.1784 | 0.7916 | 0.1785 | 1:13:39 PM | Yes |
| Mean: | | [25] | 0.1773 | | | | |
| SD: | | 0.00 | 0.0015 | | | | |
| %RSD: | | 0.00% | 0.84% | | | | |

Standard number 7 applied. [25]
Correlation Coef.: 0.999949 Slope: 0.00710 Intercept: -0.00000

Calibration data for Hg 253.7 Equation: Linear, Calculated Intercept

| ID | Mean Signal (Abs) | Entered Conc. ug/L | Calculated Conc. ug/L | Standard Deviation | %RSD |
|---|---|---|---|---|---|
| Calibration Blank | 0.0000 | 0 | 0.000 | 0.00 | 109.14 |
| .2 PPB | 0.0000 | 0.2 | 0.007 | 0.00 | 47.73 |
| .5 PPB | 0.0038 | 0.5 | 0.533 | 0.00 | 0.75 |
| 1 PPB | 0.0076 | 1.0 | 1.073 | 0.00 | 1.14 |
| 2 PPB | 0.0143 | 2.0 | 2.020 | 0.00 | 0.56 |
| 5 PPB | 0.0361 | 5.0 | 5.093 | 0.00 | 0.65 |
| 10 PPB | 0.0709 | 10.0 | 9.993 | 0.00 | 0.43 |
| 25 PPB | 0.1773 | 25.0 | 24.980 | 0.00 | 0.84 |

Correlation Coef.: 0.999949 Slope: 0.00710 Intercept: -0.00000

Sequence No.: 9 Autosampler Location: 10
Sample ID: ICV (2) Date Collected: 9/28/2021 1:14:06 PM
Analyst: Data Type: Original

Replicate Data: ICV (2) Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 20.26 | 20.26 | 0.1438 | 0.6510 | 0.1439 | 1:14:58 PM | Yes |
| 2 | 20.22 | 20.22 | 0.1435 | 0.6541 | 0.1436 | 1:15:34 PM | Yes |
| Mean: | 20.24 | 20.24 | 0.1437 | | | | |
| SD: | 0.025 | 0.025 | 0.0002 | | | | |
| %RSD: | 0.13% | 0.13% | 0.13% | | | | |

QC value within limits for Hg 253.7 Recovery = 101.20%
All analyte(s) passed QC.

Sequence No.: 10 Autosampler Location: 1
Sample ID: ICB Date Collected: 9/28/2021 1:16:02 PM
Analyst: Data Type: Original

Replicate Data: ICB Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.004 | -0.004 | -0.0000 | -0.0002 | 0.0001 | 1:16:53 PM | Yes |
| 2 | -0.009 | -0.009 | -0.0001 | -0.0006 | 0.0000 | 1:17:29 PM | Yes |
| Mean: | -0.007 | -0.007 | -0.0000 | | | | |
| SD: | 0.0040 | 0.0040 | 0.0000 | | | | |
| %RSD: | 59.47% | 59.47% | 58.43% | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 11 Autosampler Location: 11
Sample ID: MB 94442 (1) Date Collected: 9/28/2021 1:17:33 PM
Analyst: Data Type: Original

Replicate Data: MB 94442 (1) Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.015 | 0.015 | 0.0001 | 0.0007 | 0.0002 | 1:18:24 PM | Yes |
| 2 | 0.014 | 0.014 | 0.0001 | 0.0005 | 0.0002 | 1:19:01 PM | Yes |
| Mean: | 0.015 | 0.015 | 0.0001 | | | | |
| SD: | 0.0008 | 0.0008 | 0.0000 | | | | |
| %RSD: | 5.47% | 5.47% | 5.51% | | | | |

Sequence No.: 12 Autosampler Location: 12
Sample ID: LCS 94442 Date Collected: 9/28/2021 1:19:04 PM
Analyst: Data Type: Original

Replicate Data: LCS 94442 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 10.15 | 10.15 | 0.0720 | 0.3258 | 0.0721 | 1:19:55 PM | Yes |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | 10.13 | 10.13 | 0.0719 | 0.3236 | 0.0720 | 1:20:32 PM | Yes |
| Mean: | 10.14 | 10.14 | 0.0720 | | | | |
| SD: | 0.011 | 0.011 | 0.0001 | | | | |
| %RSD: | 0.11% | 0.11% | 0.11% | | | | |

==========

**Sequence No.: 13** **Autosampler Location: 13**
**Sample ID: LCS MR 94442** **Date Collected: 9/28/2021 1:21:01 PM**
**Analyst:** **Data Type: Original**

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**Replicate Data: LCS MR 94442** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 10.11 | 10.11 | 0.0718 | 0.3235 | 0.0719 | 1:21:53 PM | Yes |
| 2 | 9.923 | 9.923 | 0.0704 | 0.3203 | 0.0705 | 1:22:30 PM | Yes |
| Mean: | 10.02 | 10.02 | 0.0711 | | | | |
| SD: | 0.136 | 0.136 | 0.0010 | | | | |
| %RSD: | 1.35% | 1.35% | 1.35% | | | | |

==========

**Sequence No.: 14** **Autosampler Location: 14**
**Sample ID: AD26218-001** **Date Collected: 9/28/2021 1:22:59 PM**
**Analyst:** **Data Type: Original**

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**Replicate Data: AD26218-001** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.022 | 0.022 | 0.0002 | 0.0007 | 0.0003 | 1:23:50 PM | Yes |
| 2 | 0.020 | 0.020 | 0.0001 | 0.0005 | 0.0002 | 1:24:27 PM | Yes |
| Mean: | 0.021 | 0.021 | 0.0002 | | | | |
| SD: | 0.0015 | 0.0015 | 0.0000 | | | | |
| %RSD: | 6.83% | 6.83% | 6.87% | | | | |

==========

**Sequence No.: 15** **Autosampler Location: 15**
**Sample ID: AD26218-001 MR** **Date Collected: 9/28/2021 1:24:31 PM**
**Analyst:** **Data Type: Original**

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**Replicate Data: AD26218-001 MR** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.015 | 0.015 | 0.0001 | -0.0003 | 0.0002 | 1:25:22 PM | Yes |
| 2 | 0.025 | 0.025 | 0.0002 | 0.0007 | 0.0003 | 1:25:58 PM | Yes |
| Mean: | 0.020 | 0.020 | 0.0001 | | | | |
| SD: | 0.0066 | 0.0066 | 0.0000 | | | | |
| %RSD: | 33.04% | 33.04% | 33.24% | | | | |

==========

**Sequence No.: 16** **Autosampler Location: 16**
**Sample ID: AD26218-001 MS 1** **Date Collected: 9/28/2021 1:26:02 PM**
**Analyst:** **Data Type: Original**

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**Replicate Data: AD26218-001 MS 1** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 10.16 | 10.16 | 0.0721 | 0.3292 | 0.0722 | 1:26:53 PM | Yes |
| 2 | 10.29 | 10.29 | 0.0731 | 0.3253 | 0.0731 | 1:27:29 PM | Yes |
| Mean: | 10.22 | 10.22 | 0.0726 | | | | |
| SD: | 0.095 | 0.095 | 0.0007 | | | | |
| %RSD: | 0.93% | 0.93% | 0.93% | | | | |

==========

**Sequence No.: 17** **Autosampler Location: 17**
**Sample ID: AD26218-001 MS 2** **Date Collected: 9/28/2021 1:27:56 PM**
**Analyst:** **Data Type: Original**

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**Replicate Data: AD26218-001 MS 2** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 10.07 | 10.07 | 0.0715 | 0.3210 | 0.0716 | 1:28:48 PM | Yes |
| 2 | 9.963 | 9.963 | 0.0707 | 0.3210 | 0.0708 | 1:29:25 PM | Yes |
| Mean: | 10.02 | 10.02 | 0.0711 | | | | |
| SD: | 0.076 | 0.076 | 0.0005 | | | | |
| %RSD: | 0.76% | 0.76% | 0.76% | | | | |

**Sequence No.: 18** **Autosampler Location: 18**
**Sample ID: AD26218-002** **Date Collected: 9/28/2021 1:29:52 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: AD26218-002** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.011 | 0.011 | 0.0001 | 0.0004 | 0.0002 | 1:30:44 PM | Yes |
| 2 | 0.011 | 0.011 | 0.0001 | 0.0006 | 0.0002 | 1:31:21 PM | Yes |
| Mean: | 0.011 | 0.011 | 0.0001 | | | | |
| SD: | 0.0003 | 0.0003 | 0.0000 | | | | |
| %RSD: | 3.17% | 3.17% | 3.21% | | | | |

**Sequence No.: 19** **Autosampler Location: 19**
**Sample ID: AD26218-003** **Date Collected: 9/28/2021 1:31:25 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: AD26218-003** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.016 | 0.016 | 0.0001 | 0.0009 | 0.0002 | 1:32:16 PM | Yes |
| 2 | 0.015 | 0.015 | 0.0001 | 0.0007 | 0.0002 | 1:32:53 PM | Yes |
| Mean: | 0.016 | 0.016 | 0.0001 | | | | |
| SD: | 0.0003 | 0.0003 | 0.0000 | | | | |
| %RSD: | 2.19% | 2.19% | 2.21% | | | | |

**Sequence No.: 20** **Autosampler Location: 20**
**Sample ID: AD26218-004** **Date Collected: 9/28/2021 1:32:56 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: AD26218-004** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.029 | 0.029 | 0.0002 | 0.0017 | 0.0003 | 1:33:47 PM | Yes |
| 2 | 0.015 | 0.015 | 0.0001 | 0.0006 | 0.0002 | 1:34:24 PM | Yes |
| Mean: | 0.022 | 0.022 | 0.0002 | | | | |
| SD: | 0.0101 | 0.0101 | 0.0001 | | | | |
| %RSD: | 46.17% | 46.17% | 46.42% | | | | |

**Sequence No.: 21** **Autosampler Location: 9**
**Sample ID: CCV** **Date Collected: 9/28/2021 1:34:28 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: CCV** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 10.14 | 10.14 | 0.0720 | 0.3257 | 0.0721 | 1:35:19 PM | Yes |
| 2 | 10.14 | 10.14 | 0.0720 | 0.3246 | 0.0721 | 1:35:56 PM | Yes |
| Mean: | 10.14 | 10.14 | 0.0720 | | | | |
| SD: | 0.002 | 0.002 | 0.0000 | | | | |
| %RSD: | 0.02% | 0.02% | 0.02% | | | | |

QC value within limits for Hg 253.7 Recovery = 101.41%
All analyte(s) passed QC.

**Sequence No.: 22** **Autosampler Location: 1**
**Sample ID: CCB** **Date Collected: 9/28/2021 1:36:23 PM**
**Analyst:** **Data Type: Original**

Replicate Data: CCB Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.007 | -0.007 | -0.0001 | -0.0002 | 0.0000 | 1:37:15 PM | Yes |
| 2 | -0.007 | -0.007 | -0.0000 | -0.0003 | 0.0000 | 1:37:52 PM | Yes |
| Mean: | -0.007 | -0.007 | -0.0000 | | | | |
| SD: | 0.0003 | 0.0003 | 0.0000 | | | | |
| %RSD: | 3.79% | 3.79% | 3.73% | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

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Sequence No.: 23 Autosampler Location: 21
Sample ID: AD26218-005 Date Collected: 9/28/2021 1:37:55 PM
Analyst: Data Type: Original

Replicate Data: AD26218-005 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.015 | 0.015 | 0.0001 | 0.0008 | 0.0002 | 1:38:47 PM | Yes |
| 2 | 0.010 | 0.010 | 0.0001 | 0.0005 | 0.0002 | 1:39:23 PM | Yes |
| Mean: | 0.013 | 0.013 | 0.0001 | | | | |
| SD: | 0.0035 | 0.0035 | 0.0000 | | | | |
| %RSD: | 27.75% | 27.75% | 28.01% | | | | |

---

Sequence No.: 24 Autosampler Location: 22
Sample ID: AD26218-006 Date Collected: 9/28/2021 1:39:27 PM
Analyst: Data Type: Original

Replicate Data: AD26218-006 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.019 | 0.019 | 0.0001 | 0.0013 | 0.0002 | 1:40:17 PM | Yes |
| 2 | 0.016 | 0.016 | 0.0001 | 0.0007 | 0.0002 | 1:40:54 PM | Yes |
| Mean: | 0.018 | 0.018 | 0.0001 | | | | |
| SD: | 0.0021 | 0.0021 | 0.0000 | | | | |
| %RSD: | 11.83% | 11.83% | 11.91% | | | | |

---

Sequence No.: 25 Autosampler Location: 23
Sample ID: AD26218-007 Date Collected: 9/28/2021 1:40:58 PM
Analyst: Data Type: Original

Replicate Data: AD26218-007 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.013 | 0.013 | 0.0001 | 0.0005 | 0.0002 | 1:41:49 PM | Yes |
| 2 | 0.014 | 0.014 | 0.0001 | 0.0005 | 0.0002 | 1:42:25 PM | Yes |
| Mean: | 0.014 | 0.014 | 0.0001 | | | | |
| SD: | 0.0010 | 0.0010 | 0.0000 | | | | |
| %RSD: | 7.16% | 7.16% | 7.22% | | | | |

---

Sequence No.: 26 Autosampler Location: 24
Sample ID: AD26218-008 Date Collected: 9/28/2021 1:42:29 PM
Analyst: Data Type: Original

Replicate Data: AD26218-008 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.012 | 0.012 | 0.0001 | 0.0007 | 0.0002 | 1:43:20 PM | Yes |
| 2 | 0.012 | 0.012 | 0.0001 | 0.0006 | 0.0002 | 1:43:56 PM | Yes |
| Mean: | 0.012 | 0.012 | 0.0001 | | | | |
| SD: | 0.0003 | 0.0003 | 0.0000 | | | | |
| %RSD: | 2.62% | 2.62% | 2.65% | | | | |

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Sequence No.: 27 Autosampler Location: 25
Sample ID: AD26218-009 Date Collected: 9/28/2021 1:44:00 PM

Analyst: Data Type: Original

Replicate Data: AD26218-009 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.033 | 0.033 | 0.0002 | 0.0023 | 0.0003 | 1:44:51 PM | Yes |
| 2 | 0.014 | 0.014 | 0.0001 | 0.0006 | 0.0002 | 1:45:27 PM | Yes |
| Mean: | 0.023 | 0.023 | 0.0002 | | | | |
| SD: | 0.0133 | 0.0133 | 0.0001 | | | | |
| %RSD: | 57.26% | 57.26% | 57.55% | | | | |

Sequence No.: 28 Autosampler Location: 26
Sample ID: AD26218-011 Date Collected: 9/28/2021 1:45:31 PM
Analyst: Data Type: Original

Replicate Data: AD26218-011 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.020 | 0.020 | 0.0001 | 0.0010 | 0.0002 | 1:46:22 PM | Yes |
| 2 | 0.017 | 0.017 | 0.0001 | 0.0009 | 0.0002 | 1:46:58 PM | Yes |
| Mean: | 0.019 | 0.019 | 0.0001 | | | | |
| SD: | 0.0019 | 0.0019 | 0.0000 | | | | |
| %RSD: | 10.50% | 10.50% | 10.57% | | | | |

Sequence No.: 29 Autosampler Location: 27
Sample ID: AD26228-001 Date Collected: 9/28/2021 1:47:02 PM
Analyst: Data Type: Original

Replicate Data: AD26228-001 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.028 | 0.028 | 0.0002 | 0.0010 | 0.0003 | 1:47:53 PM | Yes |
| 2 | 0.026 | 0.026 | 0.0002 | 0.0010 | 0.0003 | 1:48:30 PM | Yes |
| Mean: | 0.027 | 0.027 | 0.0002 | | | | |
| SD: | 0.0015 | 0.0015 | 0.0000 | | | | |
| %RSD: | 5.65% | 5.65% | 5.68% | | | | |

Sequence No.: 30 Autosampler Location: 28
Sample ID: AD26228-002 Date Collected: 9/28/2021 1:48:34 PM
Analyst: Data Type: Original

Replicate Data: AD26228-002 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.017 | 0.017 | 0.0001 | -0.0001 | 0.0002 | 1:49:26 PM | Yes |
| 2 | 0.016 | 0.016 | 0.0001 | 0.0006 | 0.0002 | 1:50:03 PM | Yes |
| Mean: | 0.016 | 0.016 | 0.0001 | | | | |
| SD: | 0.0012 | 0.0012 | 0.0000 | | | | |
| %RSD: | 7.49% | 7.49% | 7.54% | | | | |

Sequence No.: 31 Autosampler Location: 29
Sample ID: AD26228-003 Date Collected: 9/28/2021 1:50:07 PM
Analyst: Data Type: Original

Replicate Data: AD26228-003 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.018 | 0.018 | 0.0001 | 0.0008 | 0.0002 | 1:50:57 PM | Yes |
| 2 | 0.018 | 0.018 | 0.0001 | 0.0009 | 0.0002 | 1:51:34 PM | Yes |
| Mean: | 0.018 | 0.018 | 0.0001 | | | | |
| SD: | 0.0000 | 0.0000 | 0.0000 | | | | |
| %RSD: | 0.17% | 0.17% | 0.17% | | | | |

Sequence No.: 32 Autosampler Location: 30

Sample ID: AD26228-004 Date Collected: 9/28/2021 1:51:38 PM
Analyst: Data Type: Original

Replicate Data: AD26228-004 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.025 | 0.025 | 0.0002 | 0.0012 | 0.0003 | 1:52:29 PM | Yes |
| 2 | 0.020 | 0.020 | 0.0001 | 0.0007 | 0.0002 | 1:53:05 PM | Yes |
| Mean: | 0.023 | 0.023 | 0.0002 | | | | |
| SD: | 0.0035 | 0.0035 | 0.0000 | | | | |
| %RSD: | 15.41% | 15.41% | 15.49% | | | | |

Sequence No.: 33 Autosampler Location: 9
Sample ID: CCV Date Collected: 9/28/2021 1:53:09 PM
Analyst: Data Type: Original

Replicate Data: CCV Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 10.37 | 10.37 | 0.0736 | 0.3255 | 0.0737 | 1:54:01 PM | Yes |
| 2 | 10.33 | 10.33 | 0.0733 | 0.3288 | 0.0734 | 1:54:38 PM | Yes |
| Mean: | 10.35 | 10.35 | 0.0735 | | | | |
| SD: | 0.029 | 0.029 | 0.0002 | | | | |
| %RSD: | 0.28% | 0.28% | 0.28% | | | | |

QC value within limits for Hg 253.7 Recovery = 103.53%
All analyte(s) passed QC.

Sequence No.: 34 Autosampler Location: 1
Sample ID: CCB Date Collected: 9/28/2021 1:55:06 PM
Analyst: Data Type: Original

Replicate Data: CCB Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.007 | -0.007 | -0.0001 | -0.0003 | 0.0000 | 1:55:57 PM | Yes |
| 2 | 0.000 | 0.000 | -0.0000 | 0.0003 | 0.0001 | 1:56:33 PM | Yes |
| Mean: | -0.004 | -0.004 | -0.0000 | | | | |
| SD: | 0.0051 | 0.0051 | 0.0000 | | | | |
| %RSD: | 143.87% | 143.87% | 139.19% | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 35 Autosampler Location: 31
Sample ID: AD262285-005 Date Collected: 9/28/2021 1:56:37 PM
Analyst: Data Type: Original

Replicate Data: AD262285-005 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.020 | 0.020 | 0.0001 | 0.0007 | 0.0002 | 1:57:29 PM | Yes |
| 2 | 0.023 | 0.023 | 0.0002 | 0.0009 | 0.0003 | 1:58:06 PM | Yes |
| Mean: | 0.021 | 0.021 | 0.0001 | | | | |
| SD: | 0.0021 | 0.0021 | 0.0000 | | | | |
| %RSD: | 9.85% | 9.85% | 9.90% | | | | |

Sequence No.: 36 Autosampler Location: 32
Sample ID: AD26183-002 Date Collected: 9/28/2021 1:58:10 PM
Analyst: Data Type: Original

Replicate Data: AD26183-002 Analyte: Hg 253.7

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 1.996 | 1.996 | 0.0142 | 0.0643 | 0.0143 | 1:59:01 PM | Yes |
| 2 | 1.992 | 1.992 | 0.0141 | 0.0642 | 0.0142 | 1:59:38 PM | Yes |
| Mean: | 1.994 | 1.994 | 0.0142 | | | | |

| | | | |
|---|---|---|---|
| SD: | 0.0031 | 0.0031 | 0.0000 |
| %RSD: | 0.15% | 0.15% | 0.15% |

**Sequence No.: 37** **Autosampler Location: 33**
**Sample ID: AD26184-001** **Date Collected: 9/28/2021 1:59:41 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: AD26184-001** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 0.295 | 0.295 | 0.0021 | 0.0098 | 0.0022 | 2:00:32 PM | Yes |
| 2 | 0.302 | 0.302 | 0.0021 | 0.0101 | 0.0022 | 2:01:08 PM | Yes |
| Mean: | 0.299 | 0.299 | 0.0021 | | | | |
| SD: | 0.0044 | 0.0044 | 0.0000 | | | | |
| %RSD: | 1.47% | 1.47% | 1.47% | | | | |

**Sequence No.: 38** **Autosampler Location: 34**
**Sample ID: AD26184-002** **Date Collected: 9/28/2021 2:01:12 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: AD26184-002** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.004 | -0.004 | -0.0000 | 0.0003 | 0.0001 | 2:02:03 PM | Yes |
| 2 | -0.011 | -0.011 | -0.0001 | -0.0016 | 0.0000 | 2:02:40 PM | Yes |
| Mean: | -0.007 | -0.007 | -0.0001 | | | | |
| SD: | 0.0046 | 0.0046 | 0.0000 | | | | |
| %RSD: | 62.30% | 62.30% | 61.32% | | | | |

**Sequence No.: 39** **Autosampler Location: 35**
**Sample ID: AD26219-001** **Date Collected: 9/28/2021 2:02:44 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: AD26219-001** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.003 | -0.003 | -0.0000 | 0.0004 | 0.0001 | 2:03:37 PM | Yes |
| 2 | -0.006 | -0.006 | -0.0000 | 0.0003 | 0.0001 | 2:04:13 PM | Yes |
| Mean: | -0.004 | -0.004 | -0.0000 | | | | |
| SD: | 0.0018 | 0.0018 | 0.0000 | | | | |
| %RSD: | 42.15% | 42.15% | 41.02% | | | | |

**Sequence No.: 40** **Autosampler Location: 36**
**Sample ID: AD26083-039** **Date Collected: 9/28/2021 2:04:17 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: AD26083-039** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.008 | -0.008 | -0.0001 | 0.0002 | 0.0000 | 2:05:08 PM | Yes |
| 2 | -0.009 | -0.009 | -0.0001 | 0.0001 | 0.0000 | 2:05:44 PM | Yes |
| Mean: | -0.008 | -0.008 | -0.0001 | | | | |
| SD: | 0.0004 | 0.0004 | 0.0000 | | | | |
| %RSD: | 5.07% | 5.07% | 5.00% | | | | |

**Sequence No.: 41** **Autosampler Location: 9**
**Sample ID: CCV** **Date Collected: 9/28/2021 2:05:48 PM**
**Analyst:** **Data Type: Original**

**Replicate Data: CCV** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | 10.45 | 10.45 | 0.0742 | 0.3291 | 0.0743 | 2:06:40 PM | Yes |
| 2 | 10.30 | 10.30 | 0.0731 | 0.3276 | 0.0732 | 2:07:17 PM | Yes |

| | | | |
|---|---|---|---|
| Mean: | 10.37 | 10.37 | 0.0736 |
| SD: | 0.111 | 0.111 | 0.0008 |
| %RSD: | 1.07% | 1.07% | 1.07% |

QC value within limits for Hg 253.7 Recovery = 103.75%
All analyte(s) passed QC.

==========

**Sequence No.: 42** **Autosampler Location: 1**
**Sample ID: CCB** **Date Collected: 9/28/2021 2:07:44 PM**
**Analyst:** **Data Type: Original**

---

**Replicate Data: CCB** **Analyte: Hg 253.7**

| Repl # | SampleConc ug/L | StndConc ug/L | BlnkCorr Signal | Peak Area | Peak Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|
| 1 | -0.004 | -0.004 | -0.0000 | 0.0001 | 0.0001 | 2:08:35 PM | Yes |
| 2 | 0.001 | 0.001 | 0.0000 | 0.0004 | 0.0001 | 2:09:12 PM | Yes |
| Mean: | -0.002 | -0.002 | -0.0000 | | | | |
| SD: | 0.0030 | 0.0030 | 0.0000 | | | | |
| %RSD: | 189.35% | 189.35% | 175.98% | | | | |

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

# Metal Data
# Digestion Logbook Data

*Hampton-Clarke*

# ICP SAMPLE PREPARATION LOG

**ANALYTICAL METHOD:** (3010A) 3005A 3050B 200.7/200.8 **OTHER** 6010/6020

Batch No.: 27669 Analyst: R

QC Number: 94427 Prep Date: 9/20/21

Matrix: Aqueous Reviewed By: [signature]

| LAB ID# | ICP | | ICP-MS (Secondary dil) | | TCLP | | COMMENTS |
|---|---|---|---|---|---|---|---|
| | Initial | Final | Aliquot | Final | Eff | TCLP | |
| Method blank | 92mL | 92mL | 10mL | 20mL | | – | |
| LCS | | | | | | – | |
| LCSD | | | | | | – | |
| 1. A026083-048 | | | | | | | Samples are combined prior to analysis to provide extra sample volume for analysis |
| 1. Analytical Duplicate | | | | | | | |
| MR 26083-048 | | | | | | | |
| MS 26083-049 | | | | | | | Balance used: N/A |
| MSD 26083-050 | | | | | | | Pipettes used: 153, 149 |
| 2. 26083-001 | | | | | | | |
| 3. -002 | | | | | | | Hot Block used: 9 |
| 4. -005 | | | | | | | |
| 5. -008 | | | | | | | *NOTE: |
| 6. -009 | | | | | | | Samples 26083-049 LOST |
| 7. -011 | | | | | | | do not look like |
| 8. -018 | | | | | | | sample 26083-048 |
| 9. -026 | | | | | | | (contain sediment) |
| 10. -027 | | | | | | | |
| 11. -032 | | | | | | | |
| 12. -035 | | | | | | | |
| 13. -037 | | | | | | | |
| 14. | | | | | | | |
| 15. | | | | | | | |
| 16. | | | | | | | |
| 17. | | | | | | | |
| 18. | | | | | | | |
| 19. | | | | | | | |
| 20. | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Hot Plate Temperature: 95° C (90-95° C) Start Time: 8:20 End Time: [illegible]

| | Volume mL | Lot # |
|---|---|---|
| CS, LCSD | 0.25mL | V- 13729, 13730 |
| LCS, LLLCSD | | V- 35587 |
| S, MSD | 0.25mL | V- 13729, 13730 |
| MS, LLMSD | | V- 35587 |

| Acid | Vol mL | Lot# |
|---|---|---|
| $HNO_3$ | 3mL | V- 14103 |
| HCl | | V- |
| $H_2O_2$ | | V- |
| | | |

| Acid | Vol mL | Lot# |
|---|---|---|
| 1:1 $HNO_3$ | | V- |
| 1:1 HCl | 5mL | V- 35390 |
| | | |
| | | |

Relinquished By [signature] Date 9/20/21

Received By [signature] Date 9/24/21

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## HG SAMPLE PREPARATION LOG

Hampton-Clarke/Veritech

**ANALYTICAL METHOD:** 245.1 (7470A) 7471B OTHER_____

Batch No.:* 21669
QC Number: 94427
Matrix: Aqueous

Analyst: R
Prep Date: 8/28/24
Review By: ANS

| LAB ID# | MERCURY | | COMMENTS | STANDARDS |
|---|---|---|---|---|
| | INITIAL | FINAL | | |
| Method blank | 25ml | 25ml | | CAL CURVE BLK 0ppb V- 357854 |
| LCS | | | | |
| LCSD | | | | STD 0.2 ppb V- 357855 |
| 1 AD 26083-048 | | | | STD 0.5 ppb V- 357856 |
| MR 26083-048 | | | | STD 1.0 ppb V- 357857 |
| MS 26083-049 | | | | STD 2.0 ppb V- 357858 |
| MSD 26083-050 | | | | STD 5.0 ppb V- 357859 |
| 2 26083-001 | | | | STD 10.0 ppb V- 357860 |
| 3 -002 | | | | STD 25.0 ppb V- 357861 |
| 4 -005 | | | | ICV 10.0 ppb V- 357852 |
| 5 -008 | | | | CCV 20.0 ppb V- 357853 |
| 6 -009 | | | | |
| 7 -011 | | | | |
| 8 -018 | | | | Balance used: N/A |
| 9 -026 | | | | Pipettes used: 143, 153, 159 |
| 10 -027 | | | | |
| 11 -032 | | | | Hot Block used: 6 |
| 12 -033 | | | | |
| 13 -035 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| | | | | |

| Lot Numbers | Volume (mL) | Acid | Volume (mL) | Lot # |
|---|---|---|---|---|
| $KmnO_4$: V- 355988 | 3.75ml | HNO3 | 0.625ml | V- 14102 |
| $K_2S_2O_8$: V- 352789 | 2ml | HCl | | V- |
| $NH_2OH$: V- 355937 | 1.5ml | H2SO4 | 1.25ml | V- 14003 |
| | | Aqua Regia | | V- |

| **Block Temp: | °C |
|---|---|
| Time in Block: | 9:30 |
| | 11:30 |
| Time Out of Block: | |

Spike Volume & Lot #
☐ LCS V- 357850 0.15ml (0.25ml)
☐ MS V- 357850 0.250 ml
☐ Standards/Control Batch B- 32612

StartTime: 8:40
EndTime: 11:30

**Temperature
245.1 / 7470A: 90-95C
7471B : 92-98C

Relinquished By: R

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

HG PREP 2018

*Hampton-Clarke*

# ICP SAMPLE PREPARATION LOG

**ANALYTICAL METHOD:** (3010A) 3005A 3050B 200.7/200.8 OTHER _____

Batch No.: 27670 Analyst: ANS

QC Number: 94428 Prep Date: 9/24/21

Matrix: SW846 6010/6020 Reviewed By: [signature]

| LAB ID# | ICP | | ICP-MS (Secondary dil) | | TCLP | | COMMENTS |
|---|---|---|---|---|---|---|---|
| | Initial | Final | Aliquot | Final | Eff | TCLP | |
| Method blank | 50 | 50 | 10 | 20 | | -- | |
| LCS | | | | | | -- | |
| LCSD | | | | | | -- | |
| 1. AD 26083-040 | | | | | | | Samples are combined prior to analysis to provide extra sample volume for analysis |
| 1. Analytical Duplicate -040 | | | | | | | |
| MR -040 | | | | | | | |
| MS -042 | | | | | | | Balance used: N/A |
| MSD -044 | | | | | | | Pipettes used: 53, 149 |
| 2. 26083-003 | | | | | | | |
| 3. -006 | | | | | | | Hot Block used: 10 |
| 4. -012 | | | | | | | |
| 5. -014 | | | | | | | |
| 6. -016 | | | | | | | |
| 7. -019 | | | | | | | |
| 8. -021 | | | | | | | |
| 9. -023 | | | | | | pH<2 | F-Lab chlorid |
| 10. -026 | | | | | | | |
| 11. -030 | | | | | | | |
| 12. -036 | | | | | | | |
| 13. -038 | | | | | | | |
| 14. -046 | | | | | | | |
| 15. -039F | | | | | | | |
| 16. | | | | | | | |
| 17. | | | | | | | |
| 18. | | | | | | | |
| 19. | | | | | | | |
| 20. | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Hot Plate Temperature: 94.0 C (90-95° C) Start Time: 12:35pm End Time: 2:30pm

| | Volume mL | Lot # |
|---|---|---|
| CS, LCSD | 0.25 | V-13729, 13730 |
| CS, LLLCSD | | V- 355837 |
| MSD | 0.25 | V-13729, 13730 |
| LMS, LLMSD | | V- 355837 |

| Acid | Vol mL | Lot# |
|---|---|---|
| $HNO_3$ | 3.0 | V-14103 |
| HCl | | V- |
| $H_2O_2$ | | V- |
| | | |

| Acid | Vol mL | Lot# |
|---|---|---|
| 1:1 $HNO_3$ | | V- |
| 1:1 HCl | 5.0 | V-351972 |
| | | |
| | | |

Relinquished By ANS Date 9/24/21

Received By [signature] Date 10/6/21

# HG SAMPLE PREPARATION LOG

Hampton-Clarke/Veritech

**ANALYTICAL METHOD:** 245.1 (1470A) 7471B **OTHER**_____

Batch No.:* 27670
QC Number: 94428
Matrix: SW846

Analyst: ANS
Prep Date: 3/24/21
Review By: DL

| LAB ID# | MERCURY INITIAL | MERCURY FINAL | COMMENTS |
|---|---|---|---|
| Method blank | 25ml | 25ml | |
| LCS | | | |
| LCSD | | | |
| 1 AD26083-040 | | | |
| MR -040 | | | |
| MS -042 | | | |
| MSD -044 | | | |
| 2 26083-003 | | | |
| 3 -006 | | | |
| 4 -012 | | | |
| 5 -014 | | | |
| 6 -016 | | | |
| 7 -019 | | | |
| 8 -021 | | | |
| 9 -023 | | | |
| 10 -028 | | | |
| 11 -030 | | | |
| 12 -036 | | | |
| 13 -038 | | | |
| 14 -046 | | | |
| 15 -039 F | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |

| STANDARDS | |
|---|---|
| CAL CURVE BLK 0ppb V- | 358021 |
| STD 0.2 ppb V- | 358022 |
| STD 0.5 ppb V- | 23 |
| STD 1.0 ppb V- | 24 |
| STD 2.0 ppb V- | 25 |
| STD 5.0 ppb V- | 26 |
| STD 10.0 ppb V- | 27 |
| STD 25.0 ppb V- | 28 |
| ICV 10.0 ppb V- | 358019 |
| CCV 20.0 ppb V- | 358020 |
| Balance used: | N/A |
| Pipettes used: | 159, 143 |
| Hot Block used: | 6 |

| Lot Numbers | Volume (mL) | Acid | Volume (mL) | Lot # |
|---|---|---|---|---|
| $KmnO_4$: V- 355568 | 3.75 | HNO3 | 0.625 | V- 14102 |
| $K_2S_2O_8$: V- 352789 | 1.0 | HCl | | V- |
| $NH_2OH$: V- 355937 | 1.5 | H2SO4 | 1.25 | V- 14003 |
| | | Aqua Regia | | V- |

**Block Temp.: °C 92.3
Time In Block: 1:30pm
Time Out of Block: 3:30pm

Spike Volume & Lot #
LCS V- 357903 0.15g (0.25 ml)
MS V- 357903 0.250 ml
Standards/Control Batch B- 31629

StartTime: 12:40pm
EndTime: 3:40pm

**Temperature
245.1 / 7470A: 90-95C
7471B : 92-98C

Relinquished By: ANS

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

*Hampton-Clarke*

# ICP SAMPLE PREPARATION LOG

**ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____**

Batch No.: 27671 Analyst: DL

QC Number: 94429 Prep Date: 9/23/21

Matrix: SW846 6010/6020 Reviewed By: [illegible]

| LAB ID# | ICP | | ICP-MS (Secondary dil) | | TCLP | | COMMENTS |
|---|---|---|---|---|---|---|---|
| | Initial | Final | Aliquot | Final | Eff | TCLP | |
| Method blank | 50mL | 50mL | 10mL | 70mL | | – | |
| LCS | | | | | | – | |
| LCSD | | | | | | – | |
| 1. 26083-041 | | | | | | | Samples are combined prior to analysis to provide extra sample volume for analysis |
| 1. Analytical Duplicate -041 | | | | | | | |
| MR -041 | | | | | | | |
| MS -043 | | | | | | | Balance used: N/A |
| MSD -045 | | | | | | | Pipettes used: 149 |
| 2. 26083-004 | | | | | | | |
| 3. -007 | | | | | | | Hot Block used: 9 |
| 4. -013 | | | | | | | |
| 5. -015 | | | | | | | |
| 6. -017 | | | | | | | |
| 7. -020 | | | | | | | |
| 8. -022 | | | | | | | |
| 9. -024 | | | | | | | |
| 10. -029 | | | | | | | |
| 11. -031 | | | | | | | |
| 12. -037 | | | | | | | |
| [illegible] -047 | | | | | | | |
| [illegible] | | | | | | | |
| [illegible] | | | | | | | |
| [illegible] | | | | | | | |
| [illegible] | | | | | | | |
| [illegible] | | | | | | | |
| [illegible] | | | | | | | |
| [illegible] | | | | | | | |
| [illegible] | | | | | | | |

Plate Temperature: 93.1 C (90-95° C) Start Time: End Time:

| | Volume mL | Lot # |
|---|---|---|
| | 0.25 | V- 13779 13730 |
| SD | | V- 355887 |
| | 0.25 | V- 13779 13730 |
| | | V- 355887 |

| Acid | Vol mL | Lot# |
|---|---|---|
| $HNO_3$ | 2mL | V- 14103 |
| HCl | | V- |
| $H_2O_2$ | | V- |
| | | |

| Acid | Vol mL | Lot# |
|---|---|---|
| 1:1 $HNO_3$ | | V- |
| 1:1 HCl | 5mL | V- 352972 |
| | | |
| | | |

ished By DL Date 9/23/21

d By [illegible] Date 9/23/21

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# HG SAMPLE PREPARATION LOG

Hampton-Clarke/Veritech

**ANALYTICAL METHOD:** 245.1 7470A 7471B OTHER_____

Batch No.:* 27671

QC Number: 94429

Matrix: SW846

Analyst: DL

Prep Date: 9/25/21

Review By: AMS

| LAB ID# | MERCURY | | COMMENTS | STANDARDS |
|---|---|---|---|---|
| | INITIAL | FINAL | | |
| Method blank | 25mL | 25mL | | CAL CURVE BLK 0ppb V- 928 |
| LCS | | | | |
| LCSD | | | | STD 0.2 ppb V- 929 |
| 1 26083-041 | | | | STD 0.5 ppb V- 930 |
| MR -041 | | | | STD 1.0 ppb V- 931 |
| MS -043 | | | | STD 2.0 ppb V- 932 |
| MSD -045 | | | | STD 5.0 ppb V- 933 |
| 2 26083-004 | | | | STD 10.0 ppb V- 934 |
| 3 -007 | | | | STD 25.0 ppb V- 935 |
| 4 -013 | | | | ICV 10.0 ppb V- 357926 |
| 5 -015 | | | | CCV 20.0 ppb V- 927 |
| 6 -017 | | | | |
| 7 -020 | | | | |
| 8 -022 | | | | Balance used: N/A |
| 9 -024 | | | | Pipettes used: 143 159 |
| 10 -029 | | | | |
| 11 -031 | | | | Hot Block used: 7 |
| 12 -037 | | | | |
| 13 -047 | | | | |
| 14 | | | | f-Field method - all samples |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| | | | | |

| Lot Numbers | Volume (mL) | Acid | Volume (mL) | Lot # |
|---|---|---|---|---|
| $KmnO_4$: V- 355988 | 3.75 | HNO3 | 0.625 | V- 14002 |
| $K_2S_2O_8$: V- 357789 | 2mL | HCl | | V- |
| $NH_2OH$: V- 355987 | 1.6 | H2SO4 | 1.25 | V- 14003 |
| | | Aqua Regia | | V- |

**Block Temp.: 91.4 °C

Time in Block: 7:30am

Time Out of Block: 9:30am

Spike Volume & Lot #

LCS V-357850 0.15x / 0.25 ml

MS V-357850 0.250 ml

☐ Standards/Control Batch B- 31619

StartTime: 7:00am

EndTime: 9:30am

**Temperature

245.1 / 7470A: 90-95C

7471B: 92-95C

Relinquished By: DL

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

# HG SAMPLE PREPARATION LOG

Hampton-Clarke/Veritech

**ANALYTICAL METHOD:** 245.1 (7470A) 7471B **OTHER**_____

Batch No.:* 27663

QC Number: 94442

Matrix: Aqueous

Analyst: PL

Prep Date: 9/26/24

Review By: CM

| LAB ID# | MERCURY INITIAL | MERCURY FINAL | COMMENTS | STANDARDS |
|---|---|---|---|---|
| Method blank | 28ml | 28ml | | CAL CURVE BLK 0ppb V- 358057 |
| LCS | | | | |
| LCSD | | | | STD 0.2 ppb V- 358052 |
| 1 AD26218-001 | | | | STD 0.5 ppb V- 358053 |
| MR 26218-001 | | | | STD 1.0 ppb V- 358054 |
| MS 26218-001 | | | | STD 2.0 ppb V- 358055 |
| MSD 26218-001 | | | | STD 5.0 ppb V- 358056 |
| 2 -002 | | | | STD 10.0 ppb V- 358057 |
| 3 -003 | | | | STD 25.0 ppb V- 358058 |
| 4 -004 | | | | ICV 10.0 ppb V- 358049 |
| 5 -005 | | | | CCV 20.0 ppb V- 358050 |
| 6 -006 | | | | |
| 7 -007 | | | | |
| 8 -008 | | | | Balance used: N/A |
| 9 -009 (FB) | | | | Pipettes used: 159, 143 |
| 10 -011 | | | | |
| 11 26228-001 | | | | Hot Block used: 7 |
| 12 -002 | | | | |
| 13 -003 | | | | |
| 14 -004 | | | | |
| 15 -005 (FB) | | | | |
| 16 26183-002 | | | | |
| 17 26184-001 | | | | |
| 18 -002 | | | | |
| 19 26219-001 | | | | |
| 20 26083-089 F | | | | F = Lab Filter pH < 2 |

| Lot Numbers | Volume (mL) | Acid | Volume (mL) | Lot # |
|---|---|---|---|---|
| $KMnO_4$: V- 355568 | 3.75ml | HNO3 | 0.625ml | V- 14102 |
| $K_2S_2O_8$: V- 357289 | 2ml | HCl | | V- |
| $NH_2OH$: V- 355937 | 1.5ml | H2SO4 | 1.25ml | V- 14103 |
| | | Aqua Regia | | V- |

| **Block Temp: °C |
|---|
| 95 |
| Time In Block: 9:30 |
| 11:30 |
| Time Out of Block: |

Spike Volume & Lot #

☐ LCS V- 358048 0.13g/0.25 ml

MS V- 358048 0.250 ml

☐ Standards/Control Batch B- 31630

StartTime: 9:00

EndTime: 11:30

**Temperature

245.1 / 7470A: 90-95C

7471B : 92-98C

Relinquished By: PL

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

1091738 2937

# Wet Chemistry Data

# Wet Chemistry Data
# Sample Data

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-001
Matrix Aqueous
Client SampleID: LTMW-22-20210913
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Alkalinity | ALKALIN-MUR | 1 | 36 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/14/21 |
| Chloride | CHLORIDE-ICW | 1 | 17 | mg/L | 2.0 | 09/14/21 | 09/14/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/14/21 |
| Sulfate | SO4-ICW | 2 | 55 | mg/L | 4.0 | 09/21/21 | 09/21/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 100 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-002
Matrix Aqueous
Client SampleID: LTMW-8-20210913
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Alkalinity | ALKALIN-MUR | 1 | 1400 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | 5.6 | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 50 | 940 | mg/L | 100 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 32 | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 3000 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | 29 | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-003
Matrix Aqueous
Client SampleID: LTMW-10-20210913 U
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 220 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 2 | 51 | mg/L | 4.0 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 41 | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 380 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-005 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: FB-20210913 | Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | ND | mg CaCO3/l | 5.0 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.2 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | ND | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | ND | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | ND | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-006 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-9-20210913 U | Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 210 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | 26 | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 34 | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 360 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-008 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-11-20210913 | Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 360 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 5 | 170 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 5 | 110 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 840 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-009
Matrix: Aqueous
Client SampleID: DUP-01-20210913
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 360 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 5 | 160 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 5 | 100 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 790 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-011
Matrix: Aqueous
Client SampleID: LTMW-7-20210913
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 200 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 5 | 73 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 25 | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 410 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-012
Matrix: Aqueous
Client SampleID: LTMW-21-20210914 U
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 59 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | 6.6 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | ND | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 92 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-014 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-12-20210914 U | Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Alkalinity | ALKALIN-MUR | 1 | 150 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 5 | 100 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 48 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 430 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-016 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-6-20210914 U | Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 200 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | 6.6 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 6.1 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 220 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-018 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-13-20210914 | Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 200 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 2 | 72 | mg/L | 4.0 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 15 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 380 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-019
Matrix: Aqueous
Client SampleID: LTMW-15-20210914 U
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 300 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | 2.9 | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 50 | 910 | mg/L | 100 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/27/21 | 09/27/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 5 | 93 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 1800 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-021
Matrix: Aqueous
Client SampleID: LTMW-5B-20210914 U
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Alkalinity | ALKALIN-MUR | 1 | 180 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | 10.0 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 9.5 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 250 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-023
Matrix: Aqueous
Client SampleID: DUP-02-20210914 U
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Alkalinity | ALKALIN-MUR | 1 | 180 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | 9.7 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 9.3 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 230 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-026
Matrix Aqueous
Client SampleID: LTMW-5A-20210915
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/15/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 140 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Chloride | CHLORIDE-ICW | 5 | 120 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Sulfate | SO4-ICW | 1 | 13 | mg/L | 2.0 | 09/16/21 | 09/16/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 400 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-027
Matrix Aqueous
Client SampleID: LTMW-17-20210915
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/15/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 380 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Chloride | CHLORIDE-ICW | 10 | 320 | mg/L | 20 | 09/23/21 | 09/23/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Sulfate | SO4-ICW | 10 | 73 | mg/L | 20 | 09/23/21 | 09/23/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 1100 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | 9.6 | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-028
Matrix Aqueous
Client SampleID: LTMW-4-20210915 U
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/15/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 100 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | 3.2 | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Chloride | CHLORIDE-ICW | 50 | 980 | mg/L | 100 | 09/21/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Sulfate | SO4-ICW | 1 | 11 | mg/L | 2.0 | 09/16/21 | 09/16/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 2800 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-030
Matrix Aqueous
Client SampleID: LTMW-16-20210915 U

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/15/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 170 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Chloride | CHLORIDE-ICW | 2 | 49 | mg/L | 4.0 | 09/21/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Sulfate | SO4-ICW | 1 | 19 | mg/L | 2.0 | 09/16/21 | 09/16/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 330 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-032
Matrix Aqueous
Client SampleID: LTMW-3-20210915

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/15/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 510 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | 1.9 | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 10 | 32 | mg/L | 10 | 09/22/21 | 09/23/21 |
| Chloride | CHLORIDE-ICW | 500 | 10000 | mg/L | 1000 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Sulfate | SO4-ICW | 50 | 980 | mg/L | 100 | 09/22/21 | 09/22/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 18000 | mg/l | 200 | 09/20/21 | 09/21/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | 8.8 | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-033
Matrix Aqueous
Client SampleID: FB-20210915

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/15/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | ND | mg CaCO3/l | 5.0 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.2 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Chloride | CHLORIDE-ICW | 1 | ND | mg/L | 2.0 | 09/16/21 | 09/16/21 |
| Cyanide | CN-W-9012 | 1 | 0.036 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/16/21 | 09/16/21 |
| Sulfate | SO4-ICW | 1 | ND | mg/L | 2.0 | 09/16/21 | 09/16/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | ND | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-035 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-18C-20210916 | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 75 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | 1.4 | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Chloride | CHLORIDE-ICW | 20 | 480 | mg/L | 40 | 09/21/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 20 | 96 | mg/L | 40 | 09/21/21 | 09/22/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 1100 | mg/l | 40 | 09/20/21 | 09/21/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-036 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-2-20210916 U | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 200 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 5 | 22 | mg/L | 5.0 | 09/21/21 | 09/22/21 |
| Chloride | CHLORIDE-ICW | 500 | 6800 | mg/L | 1000 | 09/21/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 50 | 580 | mg/L | 100 | 09/21/21 | 09/22/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 19000 | mg/l | 200 | 09/22/21 | 09/23/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-038 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-18UG-20210916 U | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Alkalinity | ALKALIN-MUR | 1 | 48 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Chloride | CHLORIDE-ICW | 1 | 33 | mg/L | 2.0 | 09/17/21 | 09/18/21 |
| Cyanide | CN-W-9012 | 1 | 0.029 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Sulfate | SO4-ICW | 1 | 5.5 | mg/L | 2.0 | 09/17/21 | 09/18/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 160 | mg/l | 40 | 09/20/21 | 09/21/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-040 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-1-20210916 U | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 1900 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | 97 | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | 10 | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Chloride | CHLORIDE-ICW | 100 | 1900 | mg/L | 200 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 1 | ND | mg/L | 2.0 | 09/17/21 | 09/17/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 4700 | mg/l | 40 | 09/20/21 | 09/21/21 |
| Total Organic Carbon | TOC-WAT-MUR | 10 | 88 | mg/L | 50 | 09/24/21 | 09/24/21 |

Lab#: AD26083-042 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-1-20210916MS U | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Ammonia | AMMONIA-MUR | 2 | 150 | MG/L | 2.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | 16 | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Chloride | CHLORIDE-ICW | 100 | 1900 | mg/L | 200 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | 0.33 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | 5.3 | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Sulfate | SO4-ICW | 1 | 6.0 | mg/L | 2.0 | 09/17/21 | 09/18/21 |
| Total Organic Carbon | TOC-WAT-MUR | 10 | 130 | mg/L | 50 | 09/24/21 | 09/24/21 |

Lab#: AD26083-044 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-1-20210916MSD U | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Ammonia | AMMONIA-MUR | 2 | 160 | MG/L | 2.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | 15 | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Chloride | CHLORIDE-ICW | 100 | 2000 | mg/L | 200 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | 0.36 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | 5.0 | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Sulfate | SO4-ICW | 1 | 5.6 | mg/L | 2.0 | 09/17/21 | 09/18/21 |
| Total Organic Carbon | TOC-WAT-MUR | 10 | 130 | mg/L | 50 | 09/24/21 | 09/24/21 |

Lab#: AD26083-046 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-23-20210916 U | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 130 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Chloride | CHLORIDE-ICW | 1 | 3.4 | mg/L | 2.0 | 09/23/21 | 09/23/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 1 | 15 | mg/L | 2.0 | 09/17/21 | 09/17/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 96 | mg/l | 40 | 09/20/21 | 09/21/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-048
Matrix Aqueous
Client SampleID: LTMW-19-20210916
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 800 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | 5.6 | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | 19 | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Chloride | CHLORIDE-ICW | 200 | 4900 | mg/L | 400 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | 0.022 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 5 | 240 | mg/L | 10 | 09/22/21 | 09/22/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 9900 | mg/l | 200 | 09/22/21 | 09/23/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | 19 | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-049
Matrix Aqueous
Client SampleID: LTMW-19-20210916MS
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Ammonia | AMMONIA-MUR | 1 | 47 | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 5 | 23 | mg/L | 5.0 | 09/22/21 | 09/22/21 |
| Chloride | CHLORIDE-ICW | 200 | 5600 | mg/L | 400 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | 0.35 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | 8.1 | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 10 | 320 | mg/L | 20 | 09/22/21 | 09/22/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | 65 | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-050
Matrix Aqueous
Client SampleID: LTMW-19-20210916MSD
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Ammonia | AMMONIA-MUR | 1 | 48 | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 5 | 32 | mg/L | 5.0 | 09/22/21 | 09/22/21 |
| Chloride | CHLORIDE-ICW | 500 | 8600 | mg/L | 1000 | 09/22/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | 0.35 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | 5.1 | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 50 | 920 | mg/L | 100 | 09/22/21 | 09/22/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | 61 | mg/L | 5.0 | 09/21/21 | 09/21/21 |

# Wet Chemistry Data
# QC Data

# MS/MSD/DUP Recovery

1091738 2950

Prep Batch: W-1578 Sample ID: AD26146-001
Method: EPA 9012B Matrix: Aqueous

Qc Type: DUP

| Analyte | Limits Rpd | Dil | DUP Conc | Sample Conc | Rpd | Flag | MS/MSD/DUP Batch | MS/MSD/DUP RunID | MS/MSD/DUP Analysis Date | Non Spike Batch | Non Spike RunID | Non Spike Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 35 | 1 | 0 | 0 | NA | | 20210927132 | 15 | 09/27/21 13:55 | 20210927132 | 14 | 09/27/21 13:53 |

Qc Type: MS

| Analyte | Amt | Limits Recov | Dil | MS Conc | Sample Conc | % Rec | Flag | MS/MSD/DUP Batch | MS/MSD/DUP RunID | MS/MSD/DUP Analysis Date | Non Spike Batch | Non Spike RunID | Non Spike Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.4 | 75-125 | 1 | 0.3686 | 0 | 92 | | 20210927132 | 16 | 09/27/21 13:57 | 20210927132 | 14 | 09/27/21 13:53 |

Qc Type: MSD

| Analyte | Amt | Limits Recov | Rpd | Dil | MSD Conc | Sample Conc | % Rec | Rpd | Flag | MS/MSD/DUP Batch | MS/MSD/DUP RunID | MS/MSD/DUP Analysis Date | Non Spike Batch | Non Spike RunID | Non Spike Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.4 | 75-125 | 20 | 1 | 0.3592 | 0 | 90 | 2.6 | | 20210927132 | 17 | 09/27/21 14:00 | 20210927132 | 14 | 09/27/21 13:53 |

# LCS Recoveries

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | BatchRunID/RunID:===> | 202109271322-12 | | | | | | | |
| | QcBatchID:===> | LCSW-1578 | | | | | | | |
| | Date/Time:===> | 09/27/21 13:48 | | | | | | | |
| | Analytical Method:===> | EPA 9012B | | | | | | | |
| | Matrix:===> | Aqueous | | Soil | | Soil | | Soil | |
| | EPA 9012B | | | | | | | | |
| Analyte | Amt Limits | Amt Limits | % Rec Flags | % Rec | Flags | % Rec | Flags | % Rec | Flags | % Rec | Flags |
| Cyanide | 0.4 80-120 | | 96 | | | | | | |

# Calibration Summary:

1091738 2952

Instrument: DA1
Analysis Meth: EPA 9012B

| Analyte | Batch ID | Run# | Qc Type | Recov | Spk Amt | Limit |
|---|---|---|---|---|---|---|
| Cyanide | 20210927132 | 9 | ICV | 105 | 0.4 | 85-115 |
| Cyanide | 20210927132 | 21 | CCV | 105 | 0.4 | 85-115 |
| Cyanide | 20210927132 | 33 | CCV | 113 | 0.4 | 85-115 |
| Cyanide | 20210927132 | 41 | CCV | 107 | 0.4 | 85-115 |

# Blank Summary

Instrument: DA1

## Qc Type: Method Blank Summary  Prep Date: 9/27/21

| Run Batch ID | Analysis Date/Time | Sample ID | Run# | Analyte | Conc | RL |
|---|---|---|---|---|---|---|
| 20210927132 | 9/27/21 13:46 | MBW-1578 | 11 | Cyanide | ND | 0.020 |

## Qc Type: ICB Summary  Prep Date: NA

| Run Batch ID | Analysis Date/Time | Sample ID | Run# | Analyte | Conc | RL |
|---|---|---|---|---|---|---|
| 20210927132 | 9/27/21 13:43 | CCB | 10 | Cyanide | ND | 0.020 |

## Qc Type: CCB Summary  Prep Date: NA

| Run Batch ID | Analysis Date/Time | Sample ID | Run# | Analyte | Conc | RL |
|---|---|---|---|---|---|---|
| 20210927132 | 9/27/21 14:11 | CCB | 22 | Cyanide | ND | 0.020 |
| 20210927132 | 9/27/21 14:39 | CCB | 34 | Cyanide | ND | 0.020 |
| 20210927132 | 9/27/21 14:54 | CCB | 42 | Cyanide | ND | 0.020 |

# MS/MSD/DUP Recovery

1091738 2954

Prep Batch: W-1576 Sample ID: AD26083-040
Method: EPA 9012B Matrix: Aqueous

Qc Type: DUP

| Analyte | Limits Rpd | Dil | DUP Conc | Sample Conc | Rpd | Flag | MS/MSD/DUP Batch | RunID | Analysis Date | Non Spike Batch | RunID | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 35 | 1 | 0 | 0 | NA | | 20210920114 | 15 | 09/20/21 12:35 | 20210920114 | 14 | 09/20/21 12:33 |

Qc Type: MS

| Analyte | Amt | Limits Recov | Dil | MS Conc | Sample Conc | % Rec | Flag | MS/MSD/DUP Batch | RunID | Analysis Date | Non Spike Batch | RunID | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.4 | 75-125 | 1 | 0.3259 | 0 | 81 | | 20210920114 | 16 | 09/20/21 12:37 | 20210920114 | 14 | 09/20/21 12:33 |

Qc Type: MSD

| Analyte | Amt | Limits Recov | Rpd | Dil | MSD Conc | Sample Conc | % Rec | Rpd | Flag | MS/MSD/DUP Batch | RunID | Analysis Date | Non Spike Batch | RunID | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.4 | 75-125 | 20 | 1 | 0.3628 | 0 | 91 | 10.7 | | 20210920114 | 17 | 09/20/21 12:40 | 20210920114 | 14 | 09/20/21 12:33 |

JW 9/22/21

# LCS Recoveries

| | | | | | |
|---|---|---|---|---|---|
| **BatchRunID/RunID:====>** | 202109201146-12 | | | | |
| **QcBatchID:====>** | LCSW-1576 | | | | |
| **Date/Time:====>** | 09/20/21 12:28 | | | | |
| **Analytical Method:====>** | EPA 9012B | | | | |
| **Matrix:====>** | Aqueous | Soil | Soil | Soil | Soil |

| Analyte | EPA 9012B Amt | Limits | Amt | Limits | % Rec | Flags | % Rec | Flags | % Rec | Flags | % Rec | Flags | % Rec | Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.4 | 80-120 | | | 90 | | | | | | | | | |

# Calibration Summary:

Instrument: DA1
Analysis Meth: EPA 9012B

| Analyte | Batch ID | Run# | Qc Type | Recov | Spk Amt | Limit |
|---|---|---|---|---|---|---|
| Cyanide | 20210920114 | 9 | ICV | 96 | 0.4 | 85-115 |
| Cyanide | 20210920114 | 21 | CCV | 99 | 0.4 | 85-115 |
| Cyanide | 20210920114 | 33 | CCV | 93 | 0.4 | 85-115 |
| Cyanide | 20210920114 | 41 | CCV | 95 | 0.4 | 85-115 |

# Blank Summary

Instrument: DA1

## Qc Type: Method Blank Summary  Prep Date: 9/20/21

| Run Batch ID | Analysis Date/Time | Sample ID | Run# | Analyte | Conc | RL |
|---|---|---|---|---|---|---|
| 20210920114 | 9/20/21 12:26 | MBW-1576 | 11 | Cyanide | ND | 0.020 |

## Qc Type: ICB Summary  Prep Date: NA

| Run Batch ID | Analysis Date/Time | Sample ID | Run# | Analyte | Conc | RL |
|---|---|---|---|---|---|---|
| 20210920114 | 9/20/21 12:23 | CCB | 10 | Cyanide | ND | 0.020 |

## Qc Type: CCB Summary  Prep Date: NA

| Run Batch ID | Analysis Date/Time | Sample ID | Run# | Analyte | Conc | RL |
|---|---|---|---|---|---|---|
| 20210920114 | 9/20/21 12:51 | CCB | 22 | Cyanide | ND | 0.020 |
| 20210920114 | 9/20/21 13:19 | CCB | 34 | Cyanide | ND | 0.020 |
| 20210920114 | 9/20/21 13:35 | CCB | 42 | Cyanide | ND | 0.020 |

# MS/MSD/DUP Recovery

1091738 2958

Prep Batch: W-1577 Sample ID: AD26083-048
Method: EPA 9012B Matrix: Aqueous

Qc Type: DUP

| Analyte | Limits Rpd | Dil | DUP Conc | Sample Conc | Rpd | Flag | MS/MSD/DUP Batch | RunID | Analysis Date | Non Spike Batch | RunID | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 35 | 1 | 0 | 0.0223 | NA | | 20210920160 | 14 | 09/20/21 16:35 | 20210920160 | 15 | 09/20/21 16:37 |

Qc Type: MS

| Analyte | Amt | Limits Recov | Dil | MS Conc | Sample Conc | % Rec | Flag | MS/MSD/DUP Batch | RunID | Analysis Date | Non Spike Batch | RunID | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.4 | 75-125 | 1 | 0.3478 | 0.0223 | 81 | | 20210920160 | 16 | 09/20/21 16:40 | 20210920160 | 15 | 09/20/21 16:37 |

Qc Type: MSD

| Analyte | Amt | Limits Recov | Rpd | Dil | MSD Conc | Sample Conc | % Rec | Rpd | Flag | MS/MSD/DUP Batch | RunID | Analysis Date | Non Spike Batch | RunID | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.4 | 75-125 | 20 | 1 | 0.3546 | 0.0223 | 83 | 1.9 | | 20210920160 | 17 | 09/20/21 16:42 | 20210920160 | 15 | 09/20/21 16:37 |

JW
9/22/21

# LCS Recoveries

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **BatchRunID/RunID:====>** | 202109201605-12 | | | | | | | | |
| **QcBatchID:====>** | LCSS-1577 | | | | | | | | |
| **Date/Time:====>** | 09/20/21 16:30 | | | | | | | | |
| **Analytical Method:====>** | EPA 9012B | | | | | | | | |
| **Matrix:====>** | Soil | | Soil | | Soil | | Soil | | Soil | |
| | EPA 9012B | | | | | | | | | |
| Analyte | Amt Limits | Amt Limits | % Rec | Flags | % Rec | Flags | % Rec | Flags | % Rec | Flags | % Rec | Flags |
| Cyanide | 0.4 80-120 | | 90 | | | | | | | | | |

# Calibration Summary:

Instrument: DA1
Analysis Meth: EPA 9012B

| Analyte | Batch ID | Run# | Qc Type | Recov | Spk Amt | Limit |
|---|---|---|---|---|---|---|
| Cyanide | 20210920160 | 9 | ICV | 94 | 0.4 | 85-115 |
| Cyanide | 20210920160 | 21 | CCV | 93 | 0.4 | 85-115 |
| Cyanide | 20210920160 | 33 | CCV | 97 | 0.4 | 85-115 |
| Cyanide | 20210920160 | 40 | CCV | 94 | 0.4 | 85-115 |

# Blank Summary

Instrument: DA1

Qc Type: Method Blank Summary  Prep Date: 9/20/21

| Run Batch ID | Analysis Date/Time | Sample ID | Run# | Analyte | Conc | RL |
|---|---|---|---|---|---|---|
| 20210920160 | 9/20/21 16:28 | MBW-1577 | 11 | Cyanide | ND | 0.020 |

Qc Type: ICB Summary  Prep Date: NA

| Run Batch ID | Analysis Date/Time | Sample ID | Run# | Analyte | Conc | RL |
|---|---|---|---|---|---|---|
| 20210920160 | 9/20/21 16:26 | CCB | 10 | Cyanide | ND | 0.020 |

Qc Type: CCB Summary  Prep Date: NA

| Run Batch ID | Analysis Date/Time | Sample ID | Run# | Analyte | Conc | RL |
|---|---|---|---|---|---|---|
| 20210920160 | 9/20/21 16:54 | CCB | 22 | Cyanide | ND | 0.020 |
| 20210920160 | 9/20/21 17:22 | CCB | 34 | Cyanide | ND | 0.020 |
| 20210920160 | 9/20/21 17:35 | CCB | 41 | Cyanide | ND | 0.020 |

**Analysis Type:** ALKAL-M

**Batch Number:** ALKAL-M-733

**Units:** mg CaCO3/l

## Calibration Curve Information

## Qc Summary Results

| Qc Type | Qc Name | SpkAmt | Rec Lim | Rpd Lim | Raw Result | Recov | Rpd | Flags |
|---|---|---|---|---|---|---|---|---|
| DUP | AD26083-028 | 0 | NA | 20 | 103 | NA | 0.97 | |
| LCS | LCS | 100 | 75-125 | NA | 99 | 99 | NA | |
| LCSD | LCSD | 100 | 75-125 | 20 | 100 | 100 | 1 | |

**Analytical Method(s)**

**SM2320B-11**

| Sam # | Type | MB | Result | RL | Per Sol | Full Result | ml h2so4 | h2so4 (N) | Sam Vol (ml) | 2nd Endpoi nt | Prep Date | Prep By | Anal Date | Anal By |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [illegible]-09 21 21 | MB | MB-2-09/21 21 | ND | 5.0 | 100 | 0.5 | 0.10 | 0.02 | 100 | 0.15 | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible]S | LCS | MB-2-09 21 21 | 99 | 10 | 100 | 99 | 4.95 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible]SD | LCSD | MB-2-09/21 21 | 100 | 10 | 100 | 100 | 5.00 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible]D26083-028 | DUP | MB-2-09/21 21 | 100 | 10 | 100 | 103 | 5.15 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible]26083-028 | Sample | MB-2-09/21 21 | 100 | 10 | 100 | 104 | 5.20 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible]26083-030 | Sample | MB-2-09/21 21 | 170 | 10 | 100 | 174 | 8.70 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible]26083-032 | Sample | MB-2-09/21 21 | 510 | 10 | 100 | 506 | 25.30 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible]26083-033 | Sample | MB-2-09/21 21 | ND | 5.0 | 100 | 0.5 | 0.15 | 0.02 | 100 | 0.25 | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible]26083-035 | Sample | MB-2-09 21 21 | 75 | 10 | 100 | 75 | 3.75 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible]26083-036 | Sample | MB-2-09/21 21 | 200 | 10 | 100 | 196 | 9.80 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible]26083-038 | Sample | MB-2-09/21 21 | 48 | 10 | 100 | 48 | 2.40 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible]26083-040 | Sample | MB-2-09/21 21 | 1900 | 10 | 100 | 1900 | 19.00 | 0.1 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible]26083-046 | Sample | MB-2-09/21 21 | 130 | 10 | 100 | 126 | 6.30 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible]D26083-048 | Sample | MB-2-09/21/21 | 800 | 10 | 100 | 802 | 40.10 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |

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**Flag Codes:** Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)
Na - Not Applicable
Rp - RPD failed specified criteria.
Nc - Not Checked ..either one or both values =ND

**Analysis Type:** ALKAL-M

**Batch Number:** ALKAL-M-732

**Units:** mg CaCO3/l

## Calibration Curve Information

## Qc Summary Results

| Qc Type | Qc Name | SpkAmt | Rec Lim | Rpd Lim | Raw Result | Recov | Rpd | Flags |
|---|---|---|---|---|---|---|---|---|
| DUP | AD25994-001 | 0 | NA | 20 | 41 | NA | 2 4 | |
| LCS | LCS | 100 | 75-125 | NA | 100 | 100 | NA | |
| LCSD | LCSD | 100 | 75-125 | 20 | 101 | 101 | 1 | |

**Analytical Method(s)**

**SM2320B-11**

| Sam # | Type | MB | Result | RL | Per Sol | Full Result | ml h2so4 | h2so4 (N) | Sam Vol (ml) | 2nd Endpoi | Prep Date | Prep By | Anal Date | Anal By |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [illegible] | MB | MB-1-09/21/21 | ND | 5.0 | 100 | 0.5 | 0.10 | 0.02 | 100 | 0.15 | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible] | LCS | MB-1-09/21/21 | 100 | 10 | 100 | 100 | 5.00 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| [illegible] | LCSD | MB-1-09/21/21 | 100 | 10 | 100 | 101 | 5.05 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD25994-001 | DUP | MB-1-09/21/21 | 41 | 10 | 100 | 41 | 2.05 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD25994-001 | Sample | MB-1-09/21/21 | 42 | 10 | 100 | 42 | 2.10 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD25994-002 | Sample | MB-1-09/21/21 | 43 | 10 | 100 | 43 | 2.15 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD25994-003 | Sample | MB-1-09/21/21 | 42 | 10 | 100 | 42 | 2.10 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-001 | Sample | MB-1-09/21/21 | 36 | 10 | 100 | 36 | 1.80 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-002 | Sample | MB-1-09/21/21 | 1400 | 10 | 100 | 1445 | 14.45 | 0.1 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-003 | Sample | MB-1-09/21/21 | 220 | 10 | 100 | 222 | 11.10 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-005 | Sample | MB-1-09/21/21 | ND | 5.0 | 100 | 1 | 0.15 | 0.02 | 100 | 0.20 | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-006 | Sample | MB-1-09/21/21 | 210 | 10 | 100 | 210 | 10.50 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-008 | Sample | MB-1-09/21/21 | 360 | 10 | 100 | 362 | 18.10 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-009 | Sample | MB-1-09/21/21 | 360 | 10 | 100 | 356 | 17.80 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-011 | Sample | MB-1-09/21/21 | 200 | 10 | 100 | 198 | 9.90 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-012 | Sample | MB-1-09/21/21 | 59 | 10 | 100 | 59 | 2.95 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-014 | Sample | MB-1-09/21/21 | 150 | 10 | 100 | 150 | 7.50 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-016 | Sample | MB-1-09/21/21 | 200 | 10 | 100 | 200 | 10.00 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-018 | Sample | MB-1-09/21/21 | 200 | 10 | 100 | 197 | 9.85 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-019 | Sample | MB-1-09/21/21 | 300 | 10 | 100 | 300 | 15.00 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-021 | Sample | MB-1-09/21/21 | 180 | 10 | 100 | 178 | 8.90 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-023 | Sample | MB-1-09/21/21 | 180 | 10 | 100 | 178 | 8.90 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-026 | Sample | MB-1-09/21/21 | 140 | 10 | 100 | 143 | 7.15 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |
| AD26083-027 | Sample | MB-1-09/21/21 | 380 | 10 | 100 | 378 | 18.90 | 0.02 | 50 | | 09/21/21 | BCT | 09/21/21 | BCT |

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**Flag Codes:** Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)
Na - Not Applicable
Rp - RPD failed specified criteria.
Nc - Not Checked ..either one or both values =ND

**TOC-Water** **9/22/2021**

| Samples # | PPM | Sample wt | Dilution Factor | Final vol (mL) | TOC (ppm) | True Value(ppm) | % REC |
|---|---|---|---|---|---|---|---|
| 10ppm | 9.503 | 1 | 1 | 1 | 9.503 | 10 | 95 |
| 75 ppm | 71.90 | 1 | 1 | 1 | 71.90 | 75 | 96 |

| Analysis | TOC | | Q.C. DATA | | | | |
|---|---|---|---|---|---|---|---|
| Batch# | 59 | | Theoretical | | | | |
| Date | 9/21/2021 | | Value | Result | % REC | QC Limits | Flags |
| Analyst | JW | | PPM | PPM | | | |
| | | LCS | 50 | 42.86 | 86% | 75-125 | |
| | AD26083-048 | MS | 50 | 46.09 | 92% | 75-125 | |
| | | MSD | 50 | 41.81 | 84% | 75-125 | |
| | | | | RPD | 9.7 | 20 | |
| | | Sample | | 18.740 | | | |
| | | Sample Dup | | 19.030 | | | |
| | | | | RPD | 1.5 | 20 | |
| | AD26083-003 | MS | 50 | 49.45 | 99% | 75-125 | |
| | | MSD | 50 | 50.18 | 100% | 75-125 | |
| | | | | RPD | 1.5 | 20 | |
| | | Sample | | ND | | | |
| | | Sample Dup | | ND | | | |
| | | | | RPD | #VALUE! | 20 | |

| Samples # | PPM | Sample vol | Dilution Factor | Final vol (mL) | TOC (ppm) | RL | % REC |
|---|---|---|---|---|---|---|---|
| MB | 0.5866 | 1 | 1 | 1 | 0.59 | 5.0 | |
| LCS | 42.86 | 1 | 1 | 1 | 42.86 | 5.0 | 86 |
| AD26083-048 | 18.74 | 1 | 1 | 1 | 18.74 | 5.0 | |
| AD26083-048 DUP | 19.03 | 1 | 1 | 1 | 19.03 | 5.0 | |
| AD26083-049 MS | 64.83 | 1 | 1 | 1 | 64.83 | 5.0 | |
| AD26083-050 MSD | 60.55 | 1 | 1 | 1 | 60.55 | 5.0 | |
| AD26054-001 | 2.215 | 1 | 1 | 1 | 2.22 | 5.0 | |
| AD26091-001 | 1.431 | 1 | 1 | 1 | 1.43 | 5.0 | |
| AD26008-001 | 8.799 | 1 | 1 | 1 | 8.80 | 5.0 | |
| AD26008-002 | 6.674 | 1 | 1 | 1 | 6.67 | 5.0 | |
| CCV | 50.39 | 1 | 1 | 1 | 50.39 | 5.0 | 101 |
| CCB | 0.3891 | 1 | 1 | 1 | 0.39 | 5.0 | |
| AD26008-003 | 5.809 | 1 | 1 | 1 | 5.81 | 5.0 | |
| AD26028-002 | 0.6090 | 1 | 1 | 1 | 0.61 | 5.0 | |
| AD26028-012 | 1.294 | 1 | 1 | 1 | 1.29 | 5.0 | |
| AD26083-001 | 2.215 | 1 | 1 | 1 | 2.22 | 5.0 | |
| AD26083-002 | 29.37 | 1 | 1 | 1 | 29.37 | 5.0 | |
| AD26083-003 | 0.9477 | 1 | 1 | 1 | 0.95 | 5.0 | |
| AD26083-003 DUP | 1.067 | 1 | 1 | 1 | 1.07 | 5.0 | |
| AD26083-003 MS | 49.45 | 1 | 1 | 1 | 49.45 | 5.0 | |
| AD26083-003 MSD | 50.18 | 1 | 1 | 1 | 50.18 | 5.0 | |
| CCV | 50.03 | 1 | 1 | 1 | 50.03 | 5.0 | 100 |
| CCB | 0.5163 | 1 | 1 | 1 | 0.52 | 5.0 | |
| AD26008-005 | 0.8381 | 1 | 1 | 1 | 0.84 | 5.0 | |
| AD26008-006 | 1.362 | 1 | 1 | 1 | 1.36 | 5.0 | |
| AD26008-009 | 2.746 | 1 | 1 | 1 | 2.75 | 5.0 | |
| AD26083-011 | 1.245 | 1 | 1 | 1 | 1.25 | 5.0 | |
| AD26083-012 | 2.422 | 1 | 1 | 1 | 2.42 | 5.0 | |
| AD26083-014 | 1.360 | 1 | 1 | 1 | 1.36 | 5.0 | |
| AD26083-016 | 0.8594 | 1 | 1 | 1 | 0.86 | 5.0 | |
| AD26083-018 | 1.931 | 1 | 1 | 1 | 1.93 | 5.0 | |
| AD26083-019 | 2.082 | 1 | 1 | 1 | 2.08 | 5.0 | |
| CCV | 49.97 | 1 | 1 | 1 | 49.97 | 5.0 | 100 |
| CCB | 0.4470 | 1 | 1 | 1 | 0.45 | 5.0 | |

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**TOC-Water** **9/24/2021**

| Samples # | PPM | Sample wt | Dilution Factor | Final vol (mL) | TOC (ppm) | True Value(ppm) | % REC |
|---|---|---|---|---|---|---|---|
| 10ppm | 9.315 | 1 | 1 | 1 | 9.315 | 10 | 93 |
| 75 ppm | 74.45 | 1 | 1 | 1 | 74.45 | 75 | 99 |

| Analysis | TOC | | Q.C. DATA | | | | |
|---|---|---|---|---|---|---|---|
| Batch# | 61 | | Theoretical | | | | |
| Date | 9/24/2021 | | Value | Result | % REC | QC Limits | Flags |
| Analyst | JW | | PPM | PPM | | | |
| | | LCS | 50 | 48.58 | 97% | 75-125 | |
| | | MS | 50 | 43.19 | 86% | 75-125 | |
| | | MSD | 50 | 37.79 | 76% | 75-125 | |
| | | | | RPD | 13.3 | 20 | |
| | | Sample | | 88.310 | | | |
| | | Sample Dup | | 89.980 | | | |
| | | | | RPD | 1.9 | 20 | |

| Samples # | PPM | Sample vol | Dilution Factor | Final vol (mL) | TOC (ppm) | RL | % REC |
|---|---|---|---|---|---|---|---|
| MB | 0.2710 | 1 | 1 | 1 | 0.27 | 5.0 | |
| LCS | 48.58 | 1 | 1 | 1 | 48.58 | 5.0 | 97 |
| AD26083-040 | 8.831 | 1 | 10 | 1 | 88.31 | 50.0 | |
| AD26083-040 DUP | 8.998 | 1 | 10 | 1 | 89.98 | 50.0 | |
| AD26083-042 MS | 13.15 | 1 | 10 | 1 | 131.50 | 50.0 | |
| AD26083-044 MSD | 12.61 | 1 | 10 | 1 | 126.10 | 50.0 | |
| CCV | 48.58 | 1 | 1 | 1 | 48.58 | 5.0 | 97 |
| CCB | 0.2618 | 1 | 1 | 1 | 0.26 | 5.0 | |

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**TOC-Water** **9/24/2021**

| Samples # | PPM | Sample wt | Dilution Factor | Final vol (mL) | TOC (ppm) | True Value(ppm) | % REC |
|---|---|---|---|---|---|---|---|
| 10ppm | 9.500 | 1 | 1 | 1 | 9.500 | 10 | 95 |
| 75 ppm | 70.09 | 1 | 1 | 1 | 70.09 | 75 | 93 |

| Analysis | TOC | | Q.C. DATA | | | | |
|---|---|---|---|---|---|---|---|
| Batch# | 60 | | Theoretical | | | | |
| Date | 9/23/2021 | | Value | Result | % REC | QC Limits | Flags |
| Analyst | LL | | PPM | PPM | | | |
| | | LCS | 50 | 47.82 | 96% | 75-125 | |
| | AD26083-008 | MS | 50 | 61.04 | 122% | 75-125 | |
| | | MSD | 50 | 61.05 | 122% | 75-125 | |
| | | | | RPD | 0.0 | 20 | |
| | | Sample | | ND | | | |
| | | Sample Dup | | ND | | | |
| | | | | RPD | #VALUE! | 20 | |
| | AD26083-040 | MS | 50 | 62.76 | 126% | 75-125 | |
| | | MSD | 50 | 62.86 | 126% | 75-125 | |
| | | | | RPD | 0.2 | 20 | |
| | | Sample | | 91.940 | | | |
| | | Sample Dup | | 89.600 | | | |
| | | | | RPD | 2.6 | 20 | |

| Samples # | PPM | Sample vol | Dilution Factor | Final vol (mL) | TOC (ppm) | RL | % REC |
|---|---|---|---|---|---|---|---|
| MB | 0.3996 | 1 | 1 | 1 | 0.40 | 5.0 | |
| LCS | 47.82 | 1 | 1 | 1 | 47.82 | 5.0 | 96 |
| AD26083-008 | 2.385 | 1 | 1 | 1 | 2.39 | 5.0 | |
| AD26083-008 DUP | 2.296 | 1 | 1 | 1 | 2.30 | 5.0 | |
| AD26083-008 MS | 61.04 | 1 | 1 | 1 | 61.04 | 5.0 | |
| AD26083-008 MSD | 61.05 | 1 | 1 | 1 | 61.05 | 5.0 | |
| AD26083-021 | 2.027 | 1 | 1 | 1 | 2.03 | 5.0 | |
| AD26083-023 | 1.997 | 1 | 1 | 1 | 2.00 | 5.0 | |
| AD26083-026 | 1.099 | 1 | 1 | 1 | 1.10 | 5.0 | |
| AD26083-027 | 9.645 | 1 | 1 | 1 | 9.65 | 5.0 | |
| CCV | 48.66 | 1 | 1 | 1 | 48.66 | 5.0 | 97 |
| CCB | 0.4711 | 1 | 1 | 1 | 0.47 | 5.0 | |
| AD26120-001 (10X) | 8.830 | 1 | 10 | 1 | 88.30 | 50.0 | |
| AD26164-001 (10X) | 11.26 | 1 | 10 | 1 | 112.60 | 50.0 | |
| AD26083-028 | 1.417 | 1 | 1 | 1 | 1.42 | 5.0 | |
| AD26083-030 | 1.061 | 1 | 1 | 1 | 1.06 | 5.0 | |
| AD26083-032 | 8.787 | 1 | 1 | 1 | 8.79 | 5.0 | |
| AD26083-033 | 0.6024 | 1 | 1 | 1 | 0.60 | 5.0 | |
| AD26083-040 | 91.94 | 1 | 1 | 1 | 91.94 | 5.0 | |
| AD26083-040 DUP | 89.60 | 1 | 1 | 1 | 89.60 | 5.0 | |
| AD26083-042 MS | 154.7 | 1 | 1 | 1 | 154.70 | 5.0 | |
| AD26083-044 MSD | 154.8 | 1 | 1 | 1 | 154.80 | 5.0 | |
| CCV2 | 50.20 | 1 | 1 | 1 | 50.20 | 5.0 | 100 |
| CCB2 | 0.6584 | 1 | 1 | 1 | 0.66 | 5.0 | |
| AD26083-035 | 1.9350 | 1 | 1 | 1 | 1.94 | 5.0 | |
| AD26083-036 | 2.676 | 1 | 1 | 1 | 2.68 | 5.0 | |
| AD26083-038 | 1.592 | 1 | 1 | 1 | 1.59 | 5.0 | |
| AD26083-046 | 1.552 | 1 | 1 | 1 | 1.55 | 5.0 | |
| AD26097-001 | 8.000 | 1 | 1 | 1 | 8.00 | 5.0 | |
| CCV3 | 49.51 | 1 | 1 | 1 | 49.51 | 5.0 | 99 |
| CCB3 | 0.4682 | 1 | 1 | 1 | 0.47 | 5.0 | |

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| | |
|---|---|
| **Analysis** | Ammonia Water ISE |
| **Batch#** | 447 |
| **Date** | 09/22/21 |
| **Analyst** | BCT |

Q.C. DATA

| | Spike Amount PPM | Result PPM | Adj Conc PPM | % REC | Limits | RPD | Limits |
|---|---|---|---|---|---|---|---|
| LCS | 50.00 | 45.9 | 45.9 | 92% | 75-125% | NA | NA |
| LCSD | 50.00 | 46.5 | 46.5 | 93% | 75-125% | 1.30% | 20% |
| MS | 50.00 | 154.0 | 57.1 | 114% | 75-125% | NA | NA |
| MSD | 50.00 | 157.2 | 58.9 | 118% | 75-125% | 2.06% | 20% |
| Sample | NA | 96.90 | NA | NA | NA | NA | NA |
| Sample Dup | NA | 98.30 | NA | NA | NA | 1.43% | 20% |

| Samples # | mg/L NH3 | Sample vol | DF | Final vol(mL) | NH3-N (ppm) | RL (PPM) | %REC |
|---|---|---|---|---|---|---|---|
| ICV | 52.6 | 6 | 1 | 6 | 52.6 | 1 | 105% |
| ICB | 0.7210 | 6 | 1 | 6 | ND | 1 | |
| MB | 0.4370 | 6 | 1 | 6 | ND | 1 | |
| LCS | 45.9 | 6 | 1 | 6 | 45.9 | 1 | |
| LCSD | 46.5 | 6 | 1 | 6 | 46.5 | 1 | |
| AD26083-040 | 96.900 | 6 | 1 | 6 | 96.9 | 1 | |
| AD26083-040 DUP | 98.300 | 6 | 1 | 6 | 98.3 | 1 | |
| AD26083-042 MS | 77.0 | 6 | 2 | 6 | 154 | 2 | |
| AD26083-044 MSD | 78.6 | 6 | 2 | 6 | 157.2 | 2 | |
| AD26083-001 | 0.296 | 6 | 1 | 6 | ND | 1 | |
| AD26083-002 | 0.616 | 6 | 1 | 6 | ND | 1 | |
| AD26083-003 | 0.531 | 6 | 1 | 6 | ND | 1 | |
| CCV-1 | 49.8 | 6 | 1 | 6 | 49.8 | 1 | 100% |
| CCB-1 | 0.0809 | 6 | 1 | 6 | ND | 1 | |
| AD26083-005 | 0.1920 | 6 | 1 | 6 | ND | 1 | |
| AD26083-006 | 0.1360 | 6 | 1 | 6 | ND | 1 | |
| AD26083-008 | 0.2810 | 6 | 1 | 6 | ND | 1 | |
| AD26083-009 | 0.35 | 6 | 1 | 6 | ND | 1 | |
| AD26083-011 | 0.18 | 6 | 1 | 6 | ND | 1 | |
| AD26083-012 | 0.20 | 6 | 1 | 6 | ND | 1 | |
| AD26083-014 | 0.17 | 6 | 1 | 6 | ND | 1 | |
| AD26083-016 | 0.16 | 6 | 1 | 6 | ND | 1 | |
| AD26083-018 | 0.12 | 6 | 1 | 6 | ND | 1 | |
| AD26083-019 | 0.45 | 6 | 1 | 6 | ND | 1 | |
| CCV-2 | 51.0 | 6 | 1 | 6 | 51 | 1 | 102% |
| CCB-2 | 0.1950 | 6 | 1 | 6 | ND | 1 | |
| AD26083-021 | 0.16 | 6 | 1 | 6 | ND | 1 | |
| AD26083-023 | 0.24 | 6 | 1 | 6 | ND | 1 | |
| AD26009-003 | 0.177 | 6 | 1 | 6 | ND | 1 | |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AD26010-003 | 0.19 | 6 | 1 | 6 | ND | 1 | |
| LB | 0.12 | 6 | 1 | 6 | ND | 1 | |
| CCV-3 | 50.7 | 6 | 1 | 6 | 50.7 | 1 | 101% |
| CCB-3 | 0.266 | 6 | 1 | 6 | ND | 1 | |

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| | |
|---|---|
| **Analysis** | Ammonia Water ISE |
| **Batch#** | 448 |
| **Date** | 09/24/21 |
| **Analyst** | BCT |

Q.C. DATA

| | Spike Amount PPM | Result PPM | Adj Conc PPM | % REC | Limits | RPD | Limits |
|---|---|---|---|---|---|---|---|
| LCS | 50.00 | 52.2 | 52.2 | 104% | 75-125% | NA | NA |
| LCSD | 50.00 | 53.2 | 53.2 | 106% | 75-125% | 1.90% | 20% |
| MS | 50.00 | 47.2 | 41.6 | 83% | 75-125% | NA | NA |
| MSD | 50.00 | 47.9 | 42.6 | 85% | 75-125% | 1.47% | 20% |
| Sample | NA | 5.59 | NA | NA | NA | NA | NA |
| Sample Dup | NA | 5.32 | NA | NA | NA | 4.95% | 20% |

| Samples # | mg/L NH3 | Sample vol | DF | Final vol(mL) | NH3-N (ppm) | RL (PPM) | %REC |
|---|---|---|---|---|---|---|---|
| ICV | 54.6 | 6 | 1 | 6 | 54.6 | 1 | 109% |
| ICB | 0.2270 | 6 | 1 | 6 | ND | 1 | |
| MB | 0.0515 | 6 | 1 | 6 | ND | 1 | |
| LCS | 52.2 | 6 | 1 | 6 | 52.2 | 1 | |
| LCSD | 53.2 | 6 | 1 | 6 | 53.2 | 1 | |
| AD26083-048 | 5.590 | 6 | 1 | 6 | 5.59 | 1 | |
| AD26083-048 DUP | 5.320 | 6 | 1 | 6 | 5.32 | 1 | |
| AD26083-049 MS | 47.2 | 6 | 1 | 6 | 47.2 | 1 | |
| AD26083-050 MSD | 47.9 | 6 | 1 | 6 | 47.9 | 1 | |
| AD26083-026 | 0.320 | 6 | 1 | 6 | ND | 1 | |
| AD26083-027 | 0.590 | 6 | 1 | 6 | ND | 1 | |
| CCV-1 | 49.300 | 6 | 1 | 6 | 49.3 | 1 | 99% |
| CCB-1 | 0.287 | 6 | 1 | 6 | ND | 1 | |
| AD26083-028 | 0.4450 | 6 | 1 | 6 | ND | 1 | |
| AD26083-030 | 0.2990 | 6 | 1 | 6 | ND | 1 | |
| AD26083-032 | 1.9000 | 6 | 1 | 6 | 1.9 | 1 | |
| AD26083-033 | 0.6780 | 6 | 1 | 6 | ND | 1 | |
| AD26083-035 | 0.504 | 6 | 1 | 6 | ND | 1 | |
| AD26083-036 | 0.442 | 6 | 1 | 6 | ND | 1 | |
| AD26083-038 | 0.350 | 6 | 1 | 6 | ND | 1 | |
| AD26083-046 | 0.273 | 6 | 1 | 6 | ND | 1 | |
| CCV-2 | 52.1 | 6 | 1 | 6 | 52.1 | 1 | 104% |
| CCB-2 | 0.0381 | 6 | 1 | 6 | ND | 1 | |

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**Analysis Type:** TDS

**Batch Number:** TDS-1195

**Units:** mg/l

## Calibration Curve Information

## Qc Summary Results

| Qc Type | Qc Name | SpkAmt | Rec Lim | Rpd Lim | Raw Result | Recov | Rpd | Flags |
|---|---|---|---|---|---|---|---|---|
| DUP | AD25966-001 | 0 | NA | 5 | 120 | NA | 3 3 | |
| LCS | LCS | 300 | 80-120 | NA | 288 | 96 | NA | |
| LCSD | LCSD | 300 | 80-120 | 5 | 292 | 97 | 1 4 | |

**Analytical Method(s)**

**SM2540C-11**

| Sam # | Type | MB | Result | RL | Per Sol | Full Result | Tare Wt (g) | Fin Wt (g) | Sam Vol | Prep Date | Prep By | Anal Date | Anal By |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MB-1-09 15 21 | MB | MB-1-09 15 21 | ND | 40 | 100 | 0 | 41.0718 | 41.0718 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| LCS | LCS | MB-1-09 15 21 | 290 | 40 | 100 | 288 | 40.3971 | 40.4043 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| LCSD | LCSD | MB-1-09 15 21 | 290 | 40 | 100 | 292 | 37.7080 | 37.7153 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD25966-001 | DUP | MB-1-09 15 21 | 120 | 40 | 100 | 120 | 30.0978 | 30.1008 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD25950-001 | Sample | MB-1-09 15 21 | 1800 | 40 | 100 | 1752 | 39.3704 | 39.4142 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD25950-003 | Sample | MB-1-09 15 21 | 600 | 40 | 100 | 604 | 33.4287 | 33.4438 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD25950-005 | Sample | MB-1-09 15 21 | 480 | 40 | 100 | 480 | 38.5721 | 38.5841 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD25966-001 | Sample | MB-1-09 15 21 | 120 | 40 | 100 | 124 | 30.7901 | 30.7932 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD25966-002 | Sample | MB-1-09 15 21 | ND | 40 | 100 | 4 | 38.7177 | 38.7178 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD25969-001 | Sample | MB-1-09 15 21 | 930 | 40 | 100 | 928 | 31.5518 | 31.5750 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD25969-003 | Sample | MB-1-09 15 21 | 510 | 40 | 100 | 508 | 31.5688 | 31.5815 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD25969-005 | Sample | MB-1-09 15 21 | ND | 40 | 100 | 0 | 33.3596 | 33.3596 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD25969-006 | Sample | MB-1-09 15 21 | 910 | 40 | 100 | 912 | 31.9640 | 31.9868 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD26083-001 | Sample | MB-1-09 15 21 | 100 | 40 | 100 | 100 | 30.9607 | 30.9632 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD26083-002 D | Sample | MB-1-09 15 21 | 3000 | 40 | 100 | 3024 | 38.5556 | 38.6312 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD26083-002 | Sample | MB-1-09 15 21 | 3000 | 40 | 100 | 3032 | 38.3167 | 38.3925 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD26083-003 | Sample | MB-1-09 15 21 | 380 | 40 | 100 | 380 | 30.7633 | 30.7728 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD26083-005 | Sample | MB-1-09 15 21 | ND | 40 | 100 | 0 | 30.3534 | 30.3534 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD26083-006 | Sample | MB-1-09 15 21 | 360 | 40 | 100 | 364 | 34.7855 | 34.7946 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD26083-008 | Sample | MB-1-09 15 21 | 840 | 40 | 100 | 844 | 32.6848 | 32.7059 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD26083-009 | Sample | MB-1-09 15 21 | 790 | 40 | 100 | 792 | 30.9124 | 30.9322 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |
| AD26083-011 | Sample | MB-1-09 15 21 | 410 | 40 | 100 | 408 | 28.3777 | 28.3879 | 25 | 09/15/21 | BCT | 09/16/21 | BCT |

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**Flag Codes:** Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)
Na - Not Applicable
Rp - RPD failed specified criteria.
Nc - Not Checked ..either one or both values =ND

**Analysis Type:** TDS

1091738 2971

**Batch Number:** TDS-1199

**Units:** mg/l

## Qc Summary Results

### Calibration Curve Information

| Qc Type | Qc Name | SpkAmt | Rec Lim | Rpd Lim | Raw Result | Recov | Rpd | Flags |
|---|---|---|---|---|---|---|---|---|
| DUP | AD26097-001 | 0 | NA | 5 | 556 | NA | 0.72 | |
| LCS | LCS | 300 | 80-120 | NA | 304 | 101 | NA | |
| LCSD | LCSD | 300 | 80-120 | 5 | 308 | 103 | 1.3 | |

**Analytical Method(s)**

**SM2540C-11**

| Sam # | Type | MB | Result | RL | Per Sol | Full Result | Tare Wt (g) | Fin Wt (g) | Sam Vol | Prep Date | Prep By | Anal Date | Anal By |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MB-1-09/22/21 | MB | MB-1-09/22/21 | ND | 40 | 100 | 12 | 40.7140 | 40.7143 | 25 | 09/22/21 | BCT | 09/23/21 | BCT |
| LCS | LCS | MB-1-09/22/21 | 300 | 40 | 100 | 304 | 34.8774 | 34.8850 | 25 | 09/22/21 | BCT | 09/23/21 | BCT |
| LCSD | LCSD | MB-1-09/22/21 | 310 | 40 | 100 | 308 | 36.0852 | 36.0929 | 25 | 09/22/21 | BCT | 09/23/21 | BCT |
| D26097-001 | DUP | MB-1-09/22/21 | 560 | 40 | 100 | 556 | 33.9971 | 34.0110 | 25 | 09/22/21 | BCT | 09/23/21 | BCT |
| D26097-001 | Sample | MB-1-09/22/21 | 550 | 40 | 100 | 552 | 25.6410 | 25.6548 | 25 | 09/22/21 | BCT | 09/23/21 | BCT |
| D26122-002 | Sample | MB-1-09/22/21 | 200 | 40 | 100 | 200 | 31.4947 | 31.4997 | 25 | 09/22/21 | BCT | 09/23/21 | BCT |
| D26002-001 | Sample | MB-1-09/22/21 | 9600 | 200 | 100 | 9600 | 40.8595 | 40.9075 | 5.0 | 09/22/21 | BCT | 09/23/21 | BCT |
| D26002-004 | Sample | MB-1-09/22/21 | 16000 | 200 | 100 | 15860 | 40.1796 | 40.2589 | 5.0 | 09/22/21 | BCT | 09/23/21 | BCT |
| D26002-006 | Sample | MB-1-09/22/21 | 47000 | 500 | 100 | 47000 | 32.0736 | 32.1676 | 2.0 | 09/22/21 | BCT | 09/23/21 | BCT |
| D26002-012 | Sample | MB-1-09/22/21 | 45000 | 500 | 100 | 45350 | 28.3781 | 28.4688 | 2.0 | 09/22/21 | BCT | 09/23/21 | BCT |
| D26083-036 | Sample | MB-1-09/22/21 | 19000 | 200 | 100 | 18580 | 31.5522 | 31.6451 | 5.0 | 09/22/21 | BCT | 09/23/21 | BCT |
| D26083-048 | Sample | MB-1-09/22/21 | 9900 | 200 | 100 | 9880 | 29.9944 | 30.0438 | 5.0 | 09/22/21 | BCT | 09/23/21 | BCT |

9/23/21

9/24/21

**Flag Codes:** Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL) Rp - RPD failed specified criteria.

Na - Not Applicable Nc - Not Checked ..either one or both values =ND

**Analysis Type:** TDS

**Batch Number:** TDS-1198

**Units:** mg/l

## Calibration Curve Information

## Qc Summary Results

| Qc Type | Qc Name | SpkAmt | Rec Lim | Rpd Lim | Raw Result | Recov | Rpd | Flags |
|---|---|---|---|---|---|---|---|---|
| DUP | AD26083-040 | 0 | NA | 5 | 4700 | NA | 0 42 | |
| LCS | LCS | 300 | 80-120 | NA | 292 | 97 | NA | |
| LCSD | LCSD | 300 | 80-120 | 5 | 300 | 100 | 2 7 | |

**Analytical Method(s)**

**SM2540C-11**

| Sam # | Type | MB | Result | RL | Per Sol | Full Result | Tare Wt (g) | Fin Wt (g) | Sam Vol | Prep Date | Prep By | Anal Date | Anal By |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [illegible] | MB | MB-2-09/20/21 | ND | 40 | 100 | 0 | 34.4548 | 34.4548 | 25 | 09/20/21 | BCT | 09/21/21 | BCT |
| [illegible] | LCS | MB-2-09/20/21 | 290 | 40 | 100 | 292 | 34.8776 | 34.8849 | 25 | 09/20/21 | BCT | 09/21/21 | BCT |
| [illegible] | LCSD | MB-2-09/20/21 | 300 | 40 | 100 | 300 | 32.8548 | 32.8623 | 25 | 09/20/21 | BCT | 09/21/21 | BCT |
| [illegible] | DUP | MB-2-09/20/21 | 4700 | 40 | 100 | 4700 | 31.4610 | 31.5785 | 25 | 09/20/21 | BCT | 09/21/21 | BCT |
| [illegible] | Sample | MB-2-09/20/21 | 4700 | 40 | 100 | 4720 | 32.2584 | 32.3764 | 25 | 09/20/21 | BCT | 09/21/21 | BCT |
| [illegible] | Sample | MB-2-09/20/21 | 96 | 40 | 100 | 96 | 30.3842 | 30.3866 | 25 | 09/20/21 | BCT | 09/21/21 | BCT |
| [illegible] | Sample | MB-2-09/20/21 | 1100 | 40 | 100 | 1052 | 40.4270 | 40.4533 | 25 | 09/20/21 | BCT | 09/21/21 | BCT |
| [illegible] | Sample | MB-2-09/20/21 | 160 | 40 | 100 | 156 | 39.0947 | 39.0986 | 25 | 09/20/21 | BCT | 09/21/21 | BCT |
| [illegible] | Sample | MB-2-09/20/21 | 18000 | 200 | 100 | 18320 | 39.1254 | 39.2170 | 5.0 | 09/20/21 | BCT | 09/21/21 | BCT |
| [illegible] | Sample | MB-2-09/20/21 | 1400 | 40 | 100 | 1416 | 37.8372 | 37.8726 | 25 | 09/20/21 | BCT | 09/21/21 | BCT |
| [illegible] | Sample | MB-2-09/20/21 | 1200 | 40 | 100 | 1176 | 29.5419 | 29.5713 | 25 | 09/20/21 | BCT | 09/21/21 | BCT |
| [illegible] | Sample | MB-2-09/20/21 | 1200 | 40 | 100 | 1196 | 32.5450 | 32.5749 | 25 | 09/20/21 | BCT | 09/21/21 | BCT |
| [illegible] | Sample | MB-2-09/20/21 | 1700 | 40 | 100 | 1744 | 39.3408 | 39.3844 | 25 | 09/20/21 | BCT | 09/21/21 | BCT |

9/21/21

9/21/21

Flag **Codes:** Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)
Na - Not Applicable
Rp - RPD failed specified criteria.
Nc - Not Checked ..either one or both values =ND

**Analysis Type:** TDS

**Batch Number:** TDS-1196

**Units:** mg/l

## Calibration Curve Information

## Qc Summary Results

| Qc Type | Qc Name | SpkAmt | Rec Lim | Rpd Lim | Raw Result | Recov | Rpd | Flags |
|---|---|---|---|---|---|---|---|---|
| DUP | AD25979-001 | 0 | NA | 5 | 992 | NA | 1 2 | |
| LCS | LCS | 300 | 80-120 | NA | 296 | 99 | NA | |
| LCSD | LCSD | 300 | 80-120 | 5 | 300 | 100 | 1 3 | |

**Analytical Method(s)**

**SM2540C-11**

| Sam # | Type | MB | Result | RL | Per Sol | Full Result | Tare Wt (g) | Fin Wt (g) | Sam Vol | Prep Date | Prep By | Anal Date | Anal By |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MB-1-09 17 21 | MB | MB-1-09 17 21 | ND | 40 | 100 | 0 | 33.1751 | 33.1751 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| LCS | LCS | MB-1-09 17 21 | 300 | 40 | 100 | 296 | 39.1314 | 39.1388 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| LCSD | LCSD | MB-1-09 17 21 | 300 | 40 | 100 | 300 | 33.4533 | 33.4608 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD25979-001 | DUP | MB-1-09 17 21 | 990 | 40 | 100 | 992 | 36.4740 | 36.4988 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD25979-001 | Sample | MB-1-09 17 21 | 980 | 40 | 100 | 980 | 38.3165 | 38.3410 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD25979-003 | Sample | MB-1-09 17 21 | 620 | 40 | 100 | 620 | 32.6850 | 32.7005 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD25979-005 | Sample | MB-1-09 17 21 | 990 | 40 | 100 | 988 | 38.5720 | 38.5967 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD25994-001 | Sample | MB-1-09 17 21 | 150 | 40 | 100 | 148 | 30.3537 | 30.3574 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD25994-002 | Sample | MB-1-09 17 21 | 160 | 40 | 100 | 160 | 30.0978 | 30.1018 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD25994-003 | Sample | MB-1-09 17 21 | 140 | 40 | 100 | 136 | 30.7632 | 30.7666 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD26083-012 | Sample | MB-1-09 17 21 | 92 | 40 | 100 | 92 | 40.6130 | 40.6153 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD26083-014 | Sample | MB-1-09 17 21 | 430 | 40 | 100 | 432 | 40.3972 | 40.4080 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD26083-016 | Sample | MB-1-09 17 21 | 220 | 40 | 100 | 216 | 38.7177 | 38.7231 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD26083-018 | Sample | MB-1-09 17 21 | 380 | 40 | 100 | 376 | 28.3780 | 28.3874 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD26083-019 D | Sample | MB-1-09 17 21 | 1800 | 40 | 100 | 1812 | 38.5557 | 38.6010 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD26083-019 | Sample | MB-1-09 17 21 | 1800 | 40 | 100 | 1832 | 30.7906 | 30.8364 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD26083-021 | Sample | MB-1-09 17 21 | 250 | 40 | 100 | 248 | 33.4294 | 33.4356 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD26083-023 | Sample | MB-1-09 17 21 | 230 | 40 | 100 | 228 | 30.9606 | 30.9663 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD26083-026 | Sample | MB-1-09 17 21 | 400 | 40 | 100 | 396 | 34.7857 | 34.7956 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD26083-027 | Sample | MB-1-09 17 21 | 1100 | 40 | 100 | 1060 | 30.9128 | 30.9393 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD26083-028 | Sample | MB-1-09 17 21 | 2800 | 40 | 100 | 2788 | 39.8794 | 39.9491 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD26083-030 | Sample | MB-1-09 17 21 | 330 | 40 | 100 | 328 | 40.0781 | 40.0863 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |
| AD26083-033 | Sample | MB-1-09 17 21 | ND | 40 | 100 | 12 | 33.3590 | 33.3593 | 25 | 09/17/21 | BCT | 09/20/21 | BCT |

BT 9/21/21

DDLP 9/27/21

**Flag Codes:** Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL) Rp - RPD failed specified criteria

Na - Not Applicable Nc - Not Checked , either one or both values =ND

# MS/MSD/DUP Recovery

Prep Batch: W-2786 Sample ID: AD25918-001
Method: 300.0 rev2.1 Matrix: Aqueous

| Qc Type: MS | | Limits | | MS | Sample | | | MS/MSD/DUP | | | Non Spike | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Amt | Recov | Dil | Conc | Conc | % Rec | Flag | Batch | RunID | Analysis Date | Batch | RunID | Analysis Date |
| Bromide | 5 | 80-120 | 1 | 4.7598 | 0 | 95 | | 20210914123 | 12 | 09/14/21 19:09 | 20210914123 | 11 | 09/14/21 18:42 |
| Chloride | 5 | 80-120 | 1 | 15.6617 | 11.1798 | 90 | | 20210914123 | 12 | 09/14/21 19:09 | 20210914123 | 11 | 09/14/21 18:42 |
| Nitrate | 5 | 80-120 | 1 | 10.0867 | 5.3481 | 95 | | 20210914123 | 12 | 09/14/21 19:09 | 20210914123 | 11 | 09/14/21 18:42 |
| Sulfate | 5 | 80-120 | 1 | 47.6471 | 43.2513 | 88 | | 20210914123 | 12 | 09/14/21 19:09 | 20210914123 | 11 | 09/14/21 18:42 |

| Qc Type: MSD | | Limits | | | MSD | Sample | | | MS/MSD/DUP | | | Non Spike | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Amt | Recov | Rpd | Dil | Conc | Conc | % Rec | Rpd | Flag | Batch | RunID | Analysis Date | Batch | RunID | Analysis Date |
| Bromide | 5 | 80-120 | 20 | 1 | 5.4965 | 0 | 110 | 14.4 | | 20210914123 | 13 | 09/14/21 19:36 | 20210914123 | 11 | 09/14/21 18:42 |
| Chloride | 5 | 80-120 | 20 | 1 | 16.2675 | 11.1798 | 102 | 3.8 | | 20210914123 | 13 | 09/14/21 19:36 | 20210914123 | 11 | 09/14/21 18:42 |
| Nitrate | 5 | 80-120 | 20 | 1 | 10.7967 | 5.3481 | 109 | 6.8 | | 20210914123 | 13 | 09/14/21 19:36 | 20210914123 | 11 | 09/14/21 18:42 |
| Sulfate | 5 | 80-120 | 20 | 1 | 48.3793 | 43.2513 | 103 | 1.5 | | 20210914123 | 13 | 09/14/21 19:36 | 20210914123 | 11 | 09/14/21 18:42 |

Prep Batch: W-2787 Sample ID: AD25948-002
Method: 300.0 rev2.1 Matrix: Aqueous

| Qc Type: MS | | Limits | | MS | Sample | | | MS/MSD/DUP | | | Non Spike | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Amt | Recov | Dil | Conc | Conc | % Rec | Flag | Batch | RunID | Analysis Date | Batch | RunID | Analysis Date |
| Bromide | 5 | 80-120 | 1 | 5.3604 | 0 | 107 | | 20210914123 | 39 | 09/15/21 11:05 | 20210914123 | 38 | 09/15/21 10:38 |
| Chloride | 5 | 80-120 | 1 | 19.1049 | 14.1228 | 100 | | 20210914123 | 39 | 09/15/21 11:05 | 20210914123 | 38 | 09/15/21 10:38 |
| Nitrate | 5 | 80-120 | 1 | 5.0683 | 0 | 101 | | 20210914123 | 39 | 09/15/21 11:05 | 20210914123 | 38 | 09/15/21 10:38 |
| Sulfate | 5 | 80-120 | 1 | 46.6073 | 41.224 | 108 | | 20210914123 | 39 | 09/15/21 11:05 | 20210914123 | 38 | 09/15/21 10:38 |

| Qc Type: MSD | | Limits | | | MSD | Sample | | | MS/MSD/DUP | | | Non Spike | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Amt | Recov | Rpd | Dil | Conc | Conc | % Rec | Rpd | Flag | Batch | RunID | Analysis Date | Batch | RunID | Analysis Date |
| Bromide | 5 | 80-120 | 20 | 1 | 5.3536 | 0 | 107 | 0.1 | | 20210914123 | 40 | 09/15/21 11:33 | 20210914123 | 38 | 09/15/21 10:38 |
| Chloride | 5 | 80-120 | 20 | 1 | 19.0643 | 14.1228 | 99 | 0.2 | | 20210914123 | 40 | 09/15/21 11:33 | 20210914123 | 38 | 09/15/21 10:38 |
| Nitrate | 5 | 80-120 | 20 | 1 | 5.1103 | 0 | 102 | 0.8 | | 20210914123 | 40 | 09/15/21 11:33 | 20210914123 | 38 | 09/15/21 10:38 |
| Sulfate | 5 | 80-120 | 20 | 1 | 46.6926 | 41.224 | 109 | 0.2 | | 20210914123 | 40 | 09/15/21 11:33 | 20210914123 | 38 | 09/15/21 10:38 |

Prep Batch: W-2788 Sample ID: AD26083-026
Method: 300.0 rev2.1 Matrix: Aqueous

| Qc Type: MS | | Limits | | MS | Sample | | | MS/MSD/DUP | | | Non Spike | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Amt | Recov | Dil | Conc | Conc | % Rec | Flag | Batch | RunID | Analysis Date | Batch | RunID | Analysis Date |
| Bromide | 5 | 80-120 | 1 | 4.775 | 0 | 96 | | 20210914123 | 70 | 09/16/21 14:19 | 20210914123 | 69 | 09/16/21 13:51 |
| Chloride | 5 | 80-120 | 1 | 131.195 | 126.870 | 86 | | 20210914123 | 70 | 09/16/21 14:19 | 20210914123 | 69 | 09/16/21 13:51 |
| Nitrate | 5 | 80-120 | 1 | 4.3624 | 0 | 87 | | 20210914123 | 70 | 09/16/21 14:19 | 20210914123 | 69 | 09/16/21 13:51 |
| Sulfate | 5 | 80-120 | 1 | 17.5736 | 12.9357 | 93 | | 20210914123 | 70 | 09/16/21 14:19 | 20210914123 | 69 | 09/16/21 13:51 |

| Qc Type: MSD | | Limits | | | MSD | Sample | | | MS/MSD/DUP | | | Non Spike | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Amt | Recov | Rpd | Dil | Conc | Conc | % Rec | Rpd | Flag | Batch | RunID | Analysis Date | Batch | RunID | Analysis Date |
| Bromide | 5 | 80-120 | 20 | 1 | 5.0855 | 0 | 102 | 6.3 | | 20210914123 | 71 | 09/16/21 14:46 | 20210914123 | 69 | 09/16/21 13:51 |
| Chloride | 5 | 80-120 | 20 | 1 | 131.942 | 126.870 | 101 | 0.6 | | 20210914123 | 71 | 09/16/21 14:46 | 20210914123 | 69 | 09/16/21 13:51 |
| Nitrate | 5 | 80-120 | 20 | 1 | 4.915 | 0 | 98 | 11.9 | | 20210914123 | 71 | 09/16/21 14:46 | 20210914123 | 69 | 09/16/21 13:51 |
| Sulfate | 5 | 80-120 | 20 | 1 | 18.151 | 12.9357 | 104 | 3.2 | | 20210914123 | 71 | 09/16/21 14:46 | 20210914123 | 69 | 09/16/21 13:51 |

Prep Batch: W-2789 Sample ID: AD26083-049
Method: 300.0 rev2.1 Matrix: Aqueous

# MS/MSD/DUP Recovery

Qc Type: MS

| Analyte | Amt | Limits Recov | Dil | MS Conc | Sample Conc | % Rec | Flag | MS/MSD/DUP Batch | RunID | Analysis Date | Non Spike Batch | RunID | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 5 | 80-120 | 1 | 27.7724 | 18.7923 | 164 | Mw | 20210914123 | 109 | 09/17/21 19:12 | 20210914123 | 108 | 09/17/21 18:47 |
| Chloride | 5 | 80-120 | 1 | 7059.67 | 6386.35 | 13466 | Mw | 20210914123 | 109 | 09/17/21 19:12 | 20210914123 | 108 | 09/17/21 18:47 |
| Nitrate | 5 | 80-120 | 1 | 8.0991 | 0 | 162 | Mw | 20210914123 | 109 | 09/17/21 19:12 | 20210914123 | 108 | 09/17/21 18:47 |
| Sulfate | 5 | 80-120 | 1 | 415.362 | 296.197 | 2383 | Mw | 20210914123 | 109 | 09/17/21 19:12 | 20210914123 | 108 | 09/17/21 18:47 |

Qc Type: MSD

| Analyte | Amt | Limits Recov | Rpd | Dil | MSD Conc | Sample Conc | % Rec | Rpd | Flag | MS/MSD/DUP Batch | RunID | Analysis Date | Non Spike Batch | RunID | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 5 | 80-120 | 20 | 1 | 36.5259 | 18.7923 | 352 | 27.2 | MWMr | 20210914123 | 110 | 09/17/21 19:39 | 20210914123 | 108 | 09/17/21 18:47 |
| Chloride | 5 | 80-120 | 20 | 1 | 10960.5 | 6386.35 | 91484 | 43.3 | MWMr | 20210914123 | 110 | 09/17/21 19:39 | 20210914123 | 108 | 09/17/21 18:47 |
| Nitrate | 5 | 80-120 | 20 | 1 | 5.1245 | 0 | 102 | 45 | Mr | 20210914123 | 110 | 09/17/21 19:39 | 20210914123 | 108 | 09/17/21 18:47 |
| Sulfate | 5 | 80-120 | 20 | 1 | 1264.53 | 296.197 | 19367 | 101.1 | MWMr | 20210914123 | 110 | 09/17/21 19:39 | 20210914123 | 108 | 09/17/21 18:47 |

Prep Batch: W-2790 Sample ID: AD26083-042
Method: 300.0 rev2.1 Matrix: Aqueous

Qc Type: MS

| Analyte | Amt | Limits Recov | Dil | MS Conc | Sample Conc | % Rec | Flag | MS/MSD/DUP Batch | RunID | Analysis Date | Non Spike Batch | RunID | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 5 | 80-120 | 1 | 15.8876 | 10.4336 | 109 | | 20210914123 | 120 | 09/18/21 00:11 | 20210914123 | 119 | 09/17/21 23:44 |
| Chloride | 5 | 80-120 | 1 | 2447.38 | 2463.69 | -326 | Mw | 20210914123 | 120 | 09/18/21 00:11 | 20210914123 | 119 | 09/17/21 23:44 |
| Nitrate | 5 | 80-120 | 1 | 5.3361 | 0 | 107 | | 20210914123 | 120 | 09/18/21 00:11 | 20210914123 | 119 | 09/17/21 23:44 |
| Sulfate | 5 | 80-120 | 1 | 5.9551 | 0 | 119 | | 20210914123 | 120 | 09/18/21 00:11 | 20210914123 | 119 | 09/17/21 23:44 |

Qc Type: MSD

| Analyte | Amt | Limits Recov | Rpd | Dil | MSD Conc | Sample Conc | % Rec | Rpd | Flag | MS/MSD/DUP Batch | RunID | Analysis Date | Non Spike Batch | RunID | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 5 | 80-120 | 20 | 1 | 15.165 | 10.4336 | 95 | 4.7 | | 20210914123 | 121 | 09/18/21 00:38 | 20210914123 | 119 | 09/17/21 23:44 |
| Chloride | 5 | 80-120 | 20 | 1 | 2450.43 | 2463.69 | -265 | 0.1 | MW | 20210914123 | 121 | 09/18/21 00:38 | 20210914123 | 119 | 09/17/21 23:44 |
| Nitrate | 5 | 80-120 | 20 | 1 | 4.984 | 0 | 100 | 6.8 | | 20210914123 | 121 | 09/18/21 00:38 | 20210914123 | 119 | 09/17/21 23:44 |
| Sulfate | 5 | 80-120 | 20 | 1 | 5.6092 | 0 | 112 | 6 | | 20210914123 | 121 | 09/18/21 00:38 | 20210914123 | 119 | 09/17/21 23:44 |

Prep Batch: W-2791 Sample ID: AD26002-008
Method: 300.0 rev2.1 Matrix: Aqueous

Qc Type: MS

| Analyte | Amt | Limits Recov | Dil | MS Conc | Sample Conc | % Rec | Flag | MS/MSD/DUP Batch | RunID | Analysis Date | Non Spike Batch | RunID | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 5 | 80-120 | 1 | 8.5803 | 2.4281 | 123 | Mw | 20210914123 | 132 | 09/21/21 16:03 | 20210914123 | 131 | 09/21/21 15:36 |
| Chloride | 5 | 80-120 | 1 | 574.210 | 572.645 | 31 | Mw | 20210914123 | 132 | 09/21/21 16:03 | 20210914123 | 131 | 09/21/21 15:36 |
| Nitrate | 5 | 80-120 | 1 | 4.7715 | 0 | 95 | | 20210914123 | 132 | 09/21/21 16:03 | 20210914123 | 131 | 09/21/21 15:36 |
| Sulfate | 5 | 80-120 | 1 | 5.4126 | 0 | 108 | | 20210914123 | 132 | 09/21/21 16:03 | 20210914123 | 131 | 09/21/21 15:36 |

Qc Type: MSD

| Analyte | Amt | Limits Recov | Rpd | Dil | MSD Conc | Sample Conc | % Rec | Rpd | Flag | MS/MSD/DUP Batch | RunID | Analysis Date | Non Spike Batch | RunID | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | 5 | 80-120 | 20 | 1 | 9.0127 | 2.4281 | 132 | 4.9 | MW | 20210914123 | 133 | 09/21/21 16:30 | 20210914123 | 131 | 09/21/21 15:36 |
| Chloride | 5 | 80-120 | 20 | 1 | 574.103 | 572.645 | 29 | 0 | MW | 20210914123 | 133 | 09/21/21 16:30 | 20210914123 | 131 | 09/21/21 15:36 |
| Nitrate | 5 | 80-120 | 20 | 1 | 5.3432 | 0 | 107 | 11.3 | | 20210914123 | 133 | 09/21/21 16:30 | 20210914123 | 131 | 09/21/21 15:36 |
| Sulfate | 5 | 80-120 | 20 | 1 | 6.3053 | 0 | 126 | 15.2 | MW | 20210914123 | 133 | 09/21/21 16:30 | 20210914123 | 131 | 09/21/21 15:36 |

Prep Batch: W-2792 Sample ID: AD26128-001
Method: 300.0 rev2.1 Matrix: Aqueous

# MS/MSD/DUP Recovery

| Qc Type: MS | | Limits | | | MS | Sample | | | MS/MSD/DUP | | | Non Spike | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Amt | Recov | | Dil | Conc | Conc | % Rec | Flag | Batch | RunID | Analysis Date | Batch | RunID | Analysis Date |
| Bromide | 5 | 80-120 | | 1 | 5.6324 | 1.1645 | 89 | | 20210914123 | 166 | 09/22/21 13:48 | 20210914123 | 165 | 09/22/21 13:21 |
| Chloride | 5 | 80-120 | | 1 | 1351.52 | 1358.86 | -147 | Mw | 20210914123 | 166 | 09/22/21 13:48 | 20210914123 | 165 | 09/22/21 13:21 |
| Nitrate | 5 | 80-120 | | 1 | 6.8829 | 2.5 | 88 | | 20210914123 | 166 | 09/22/21 13:48 | 20210914123 | 165 | 09/22/21 13:21 |
| Sulfate | 5 | 80-120 | | 1 | 36.9734 | 32.2029 | 95 | | 20210914123 | 166 | 09/22/21 13:48 | 20210914123 | 165 | 09/22/21 13:21 |

| Qc Type: MSD | | Limits | | | MSD | Sample | | | | MS/MSD/DUP | | | Non Spike | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Amt | Recov | Rpd | Dil | Conc | Conc | % Rec | Rpd | Flag | Batch | RunID | Analysis Date | Batch | RunID | Analysis Date |
| Bromide | 5 | 80-120 | 20 | 1 | 6.5334 | 1.1645 | 107 | 14.8 | | 20210914123 | 167 | 09/22/21 14:15 | 20210914123 | 165 | 09/22/21 13:21 |
| Chloride | 5 | 80-120 | 20 | 1 | 1351.80 | 1358.86 | -141 | 0 | MW | 20210914123 | 167 | 09/22/21 14:15 | 20210914123 | 165 | 09/22/21 13:21 |
| Nitrate | 5 | 80-120 | 20 | 1 | 7.5687 | 2.5 | 101 | 9.5 | | 20210914123 | 167 | 09/22/21 14:15 | 20210914123 | 165 | 09/22/21 13:21 |
| Sulfate | 5 | 80-120 | 20 | 1 | 37.9257 | 32.2029 | 114 | 2.5 | | 20210914123 | 167 | 09/22/21 14:15 | 20210914123 | 165 | 09/22/21 13:21 |

Prep Batch: W-2793 Sample ID: AD26176-001

Method: 300.0 rev2.1 Matrix: Aqueous

| Qc Type: MS | | Limits | | | MS | Sample | | | MS/MSD/DUP | | | Non Spike | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Amt | Recov | | Dil | Conc | Conc | % Rec | Flag | Batch | RunID | Analysis Date | Batch | RunID | Analysis Date |
| Bromide | 5 | 80-120 | | 1 | 4.599 | 0 | 92 | | 20210914123 | 199 | 09/23/21 13:53 | 20210914123 | 198 | 09/23/21 13:26 |
| Chloride | 5 | 80-120 | | 1 | 367.294 | 364.346 | 59 | Mw | 20210914123 | 199 | 09/23/21 13:53 | 20210914123 | 198 | 09/23/21 13:26 |
| Nitrate | 5 | 80-120 | | 1 | 15.1473 | 10.1826 | 99 | | 20210914123 | 199 | 09/23/21 13:53 | 20210914123 | 198 | 09/23/21 13:26 |
| Sulfate | 5 | 80-120 | | 1 | 64.4713 | 59.7688 | 94 | | 20210914123 | 199 | 09/23/21 13:53 | 20210914123 | 198 | 09/23/21 13:26 |

| Qc Type: MSD | | Limits | | | MSD | Sample | | | | MS/MSD/DUP | | | Non Spike | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Amt | Recov | Rpd | Dil | Conc | Conc | % Rec | Rpd | Flag | Batch | RunID | Analysis Date | Batch | RunID | Analysis Date |
| Bromide | 5 | 80-120 | 20 | 1 | 5.3803 | 0 | 108 | 15.7 | | 20210914123 | 200 | 09/23/21 14:20 | 20210914123 | 198 | 09/23/21 13:26 |
| Chloride | 5 | 80-120 | 20 | 1 | 367.763 | 364.346 | 68 | 0.1 | MW | 20210914123 | 200 | 09/23/21 14:20 | 20210914123 | 198 | 09/23/21 13:26 |
| Nitrate | 5 | 80-120 | 20 | 1 | 15.8546 | 10.1826 | 113 | 4.6 | | 20210914123 | 200 | 09/23/21 14:20 | 20210914123 | 198 | 09/23/21 13:26 |
| Sulfate | 5 | 80-120 | 20 | 1 | 65.2843 | 59.7688 | 110 | 1.3 | | 20210914123 | 200 | 09/23/21 14:20 | 20210914123 | 198 | 09/23/21 13:26 |

# LCS Recoveries

| | BatchRunID/RunID:====> | 202109141234-10 | 202109141234-36 | 202109141234-68 | 202109141234-101 | 202109141234-118 |
|---|---|---|---|---|---|---|
| | QcBatchID:====> | LCSW-2786 | LCSW-2787 | LCSW-2788 | LCSW-2789 | LCSW-2790 |
| | Date/Time:====> | 09/14/21 18:15 | 09/15/21 09:24 | 09/16/21 13:24 | 09/17/21 15:09 | 09/17/21 23:17 |
| | Analytical Method:====> | 300.0 rev2.1 | 300.0 rev2.1 | 300.0 rev2.1 | 300.0 rev2.1 | 300.0 rev2.1 |
| | Matrix:====> | Aqueous | Aqueous | Aqueous | Aqueous | Aqueous |
| Analyte | 300.0 rev2. EPA 9056A Amt Limits Amt Limits | % Rec Flags | % Rec Flags | % Rec Flags | % Rec Flags | % Rec Flags |
| Bromide | 5 90-110 5 80-120 | 104 | 95 | 101 | 95 | 106 |
| Chloride | 5 90-110 5 80-120 | 109 | 107 | 110 | 106 | 108 |
| Nitrate | 5 90-110 5 80-120 | 99 | 98 | 98 | 98 | 100 |
| Sulfate | 5 90-110 5 80-120 | 103 | 105 | 103 | 104 | 100 |

| | BatchRunID/RunID:====> | 202109141234-130 | 202109141234-164 | 202109141234-197 | | |
|---|---|---|---|---|---|---|
| | QcBatchID:====> | LCSW-2791 | LCSW-2792 | LCSW-2793 | | |
| | Date/Time:====> | 09/21/21 14:48 | 09/22/21 12:54 | 09/23/21 12:42 | | |
| | Analytical Method:====> | 300.0 rev2.1 | 300.0 rev2.1 | 300.0 rev2.1 | | |
| | Matrix:====> | Aqueous | Aqueous | Aqueous | Soil | Soil |
| Analyte | 300.0 rev2. EPA 9056A Amt Limits Amt Limits | % Rec Flags | % Rec Flags | % Rec Flags | % Rec Flags | % Rec Flags |
| Bromide | 5 90-110 5 80-120 | 97 | 107 | 102 | | |
| Chloride | 5 90-110 5 80-120 | 103 | 109 | 108 | | |
| Nitrate | 5 90-110 5 80-120 | 93 | 103 | 98 | | |
| Sulfate | 5 90-110 5 80-120 | 96 | 105 | 102 | | |

# Calibration Summary:

Instrument: IC2
Analysis Meth: 300.0 rev2.1

| Analyte | Batch ID | Run# | Qc Type | Recov | Spk Amt | Limit |
|---|---|---|---|---|---|---|
| Bromide | 20210914123 | 7 | ICV | 103 | 10 | 90-110 |
| Bromide | 20210914123 | 19 | CCV | 101 | 10 | 90-110 |
| Bromide | 20210914123 | 30 | CCV | 108 | 10 | 90-110 |
| Bromide | 20210914123 | 45 | CCV | 103 | 10 | 90-110 |
| Bromide | 20210914123 | 51 | CCV | 103 | 10 | 90-110 |
| Bromide | 20210914123 | 61 | CCV | 104 | 10 | 90-110 |
| Bromide | 20210914123 | 64 | CCV | 102 | 10 | 90-110 |
| Bromide | 20210914123 | 76 | CCV | 104 | 10 | 90-110 |
| Bromide | 20210914123 | 88 | CCV | 102 | 10 | 90-110 |
| Bromide | 20210914123 | 91 | CCV | 102 | 10 | 90-110 |
| Bromide | 20210914123 | 103 | CCV | 99 | 10 | 90-110 |
| Bromide | 20210914123 | 115 | CCV | 100 | 10 | 90-110 |
| Bromide | 20210914123 | 124 | CCV | 103 | 10 | 90-110 |
| Bromide | 20210914123 | 127 | CCV | 104 | 10 | 90-110 |
| Bromide | 20210914123 | 139 | CCV | 108 | 10 | 90-110 |
| Bromide | 20210914123 | 151 | CCV | 108 | 10 | 90-110 |
| Bromide | 20210914123 | 158 | CCV | 106 | 10 | 90-110 |
| Bromide | 20210914123 | 161 | CCV | 104 | 10 | 90-110 |
| Bromide | 20210914123 | 173 | CCV | 108 | 10 | 90-110 |
| Bromide | 20210914123 | 185 | CCV | 104 | 10 | 90-110 |
| Bromide | 20210914123 | 191 | CCV | 104 | 10 | 90-110 |
| Bromide | 20210914123 | 194 | CCV | 103 | 10 | 90-110 |
| Bromide | 20210914123 | 206 | CCV | 106 | 10 | 90-110 |
| Bromide | 20210914123 | 217 | CCV | 114Cw | 10 | 90-110 |
| Bromide | 20210914123 | 221 | CCV | 103 | 10 | 90-110 |
| Chloride | 20210914123 | 7 | ICV | 101 | 10 | 90-110 |
| Chloride | 20210914123 | 19 | CCV | 102 | 10 | 90-110 |
| Chloride | 20210914123 | 30 | CCV | 102 | 10 | 90-110 |
| Chloride | 20210914123 | 45 | CCV | 100 | 10 | 90-110 |
| Chloride | 20210914123 | 51 | CCV | 100 | 10 | 90-110 |
| Chloride | 20210914123 | 61 | CCV | 99 | 10 | 90-110 |
| Chloride | 20210914123 | 64 | CCV | 99 | 10 | 90-110 |
| Chloride | 20210914123 | 76 | CCV | 102 | 10 | 90-110 |
| Chloride | 20210914123 | 88 | CCV | 99 | 10 | 90-110 |
| Chloride | 20210914123 | 91 | CCV | 99 | 10 | 90-110 |
| Chloride | 20210914123 | 103 | CCV | 98 | 10 | 90-110 |
| Chloride | 20210914123 | 115 | CCV | 99 | 10 | 90-110 |
| Chloride | 20210914123 | 124 | CCV | 99 | 10 | 90-110 |
| Chloride | 20210914123 | 127 | CCV | 100 | 10 | 90-110 |
| Chloride | 20210914123 | 139 | CCV | 103 | 10 | 90-110 |
| Chloride | 20210914123 | 151 | CCV | 102 | 10 | 90-110 |
| Chloride | 20210914123 | 158 | CCV | 102 | 10 | 90-110 |
| Chloride | 20210914123 | 161 | CCV | 100 | 10 | 90-110 |
| Chloride | 20210914123 | 173 | CCV | 103 | 10 | 90-110 |
| Chloride | 20210914123 | 185 | CCV | 103 | 10 | 90-110 |
| Chloride | 20210914123 | 191 | CCV | 102 | 10 | 90-110 |
| Chloride | 20210914123 | 194 | CCV | 102 | 10 | 90-110 |
| Chloride | 20210914123 | 206 | CCV | 103 | 10 | 90-110 |
| Chloride | 20210914123 | 217 | CCV | 107 | 10 | 90-110 |
| Chloride | 20210914123 | 221 | CCV | 104 | 10 | 90-110 |
| Nitrate | 20210914123 | 7 | ICV | 105 | 10 | 90-110 |
| Nitrate | 20210914123 | 19 | CCV | 105 | 10 | 90-110 |
| Nitrate | 20210914123 | 30 | CCV | 105 | 10 | 90-110 |
| Nitrate | 20210914123 | 45 | CCV | 102 | 10 | 90-110 |
| Nitrate | 20210914123 | 51 | CCV | 102 | 10 | 90-110 |
| Nitrate | 20210914123 | 61 | CCV | 101 | 10 | 90-110 |
| Nitrate | 20210914123 | 64 | CCV | 101 | 10 | 90-110 |

# Calibration Summary:

Instrument: IC2
Analysis Meth: 300.0 rev2.1

| Analyte | Batch ID | Run# | Qc Type | Recov | Spk Amt | Limit |
|---|---|---|---|---|---|---|
| Nitrate | 20210914123 | 76 | CCV | 102 | 10 | 90-110 |
| Nitrate | 20210914123 | 88 | CCV | 101 | 10 | 90-110 |
| Nitrate | 20210914123 | 91 | CCV | 101 | 10 | 90-110 |
| Nitrate | 20210914123 | 103 | CCV | 101 | 10 | 90-110 |
| Nitrate | 20210914123 | 115 | CCV | 101 | 10 | 90-110 |
| Nitrate | 20210914123 | 124 | CCV | 101 | 10 | 90-110 |
| Nitrate | 20210914123 | 127 | CCV | 103 | 10 | 90-110 |
| Nitrate | 20210914123 | 139 | CCV | 105 | 10 | 90-110 |
| Nitrate | 20210914123 | 151 | CCV | 105 | 10 | 90-110 |
| Nitrate | 20210914123 | 158 | CCV | 104 | 10 | 90-110 |
| Nitrate | 20210914123 | 161 | CCV | 102 | 10 | 90-110 |
| Nitrate | 20210914123 | 173 | CCV | 106 | 10 | 90-110 |
| Nitrate | 20210914123 | 185 | CCV | 106 | 10 | 90-110 |
| Nitrate | 20210914123 | 191 | CCV | 106 | 10 | 90-110 |
| Nitrate | 20210914123 | 194 | CCV | 105 | 10 | 90-110 |
| Nitrate | 20210914123 | 206 | CCV | 105 | 10 | 90-110 |
| Nitrate | 20210914123 | 217 | CCV | 106 | 10 | 90-110 |
| Nitrate | 20210914123 | 221 | CCV | 104 | 10 | 90-110 |
| Sulfate | 20210914123 | 7 | ICV | 105 | 10 | 90-110 |
| Sulfate | 20210914123 | 19 | CCV | 106 | 10 | 90-110 |
| Sulfate | 20210914123 | 30 | CCV | 105 | 10 | 90-110 |
| Sulfate | 20210914123 | 45 | CCV | 102 | 10 | 90-110 |
| Sulfate | 20210914123 | 51 | CCV | 102 | 10 | 90-110 |
| Sulfate | 20210914123 | 61 | CCV | 101 | 10 | 90-110 |
| Sulfate | 20210914123 | 64 | CCV | 101 | 10 | 90-110 |
| Sulfate | 20210914123 | 76 | CCV | 102 | 10 | 90-110 |
| Sulfate | 20210914123 | 88 | CCV | 100 | 10 | 90-110 |
| Sulfate | 20210914123 | 91 | CCV | 101 | 10 | 90-110 |
| Sulfate | 20210914123 | 103 | CCV | 101 | 10 | 90-110 |
| Sulfate | 20210914123 | 115 | CCV | 101 | 10 | 90-110 |
| Sulfate | 20210914123 | 124 | CCV | 101 | 10 | 90-110 |
| Sulfate | 20210914123 | 127 | CCV | 104 | 10 | 90-110 |
| Sulfate | 20210914123 | 139 | CCV | 107 | 10 | 90-110 |
| Sulfate | 20210914123 | 151 | CCV | 108 | 10 | 90-110 |
| Sulfate | 20210914123 | 158 | CCV | 105 | 10 | 90-110 |
| Sulfate | 20210914123 | 161 | CCV | 104 | 10 | 90-110 |
| Sulfate | 20210914123 | 173 | CCV | 106 | 10 | 90-110 |
| Sulfate | 20210914123 | 185 | CCV | 105 | 10 | 90-110 |
| Sulfate | 20210914123 | 191 | CCV | 105 | 10 | 90-110 |
| Sulfate | 20210914123 | 194 | CCV | 105 | 10 | 90-110 |
| Sulfate | 20210914123 | 206 | CCV | 104 | 10 | 90-110 |
| Sulfate | 20210914123 | 217 | CCV | 109 | 10 | 90-110 |
| Sulfate | 20210914123 | 221 | CCV | 105 | 10 | 90-110 |

# Blank Summary

Instrument: IC2

## Qc Type: Method Blank Summary  Prep Date: 9/14/21

| Run Batch ID | Analysis Date/Time | Sample ID | Run# | Analyte | Conc | RL |
|---|---|---|---|---|---|---|
| 20210914123 | 9/14/21 17:48 | MBW-2786 | 9 | Bromide | ND | 1.0 |
| 20210914123 | 9/15/21 08:58 | MBW-2787 | 35 | Bromide | ND | 1.0 |
| 20210914123 | 9/15/21 15:37 | MBS | 49 | Bromide | ND | 10 |
| 20210914123 | 9/16/21 12:04 | MBW-2788 | 66 | Bromide | ND | 1.0 |
| 20210914123 | 9/17/21 14:42 | MBW-2789 | 100 | Bromide | ND | 1.0 |
| 20210914123 | 9/17/21 22:49 | MBW-2790 | 117 | Bromide | ND | 1.0 |
| 20210914123 | 9/21/21 12:36 | MBW-2791 | 129 | Bromide | ND | 1.0 |
| 20210914123 | 9/22/21 12:28 | MBW-2792 | 163 | Bromide | ND | 1.0 |
| 20210914123 | 9/23/21 12:16 | MBW-2793 | 196 | Bromide | ND | 1.0 |
| 20210914123 | 9/14/21 17:48 | MBW-2786 | 9 | Chloride | ND | 2.0 |
| 20210914123 | 9/15/21 08:58 | MBW-2787 | 35 | Chloride | ND | 2.0 |
| 20210914123 | 9/15/21 15:37 | MBS | 49 | Chloride | ND | 20 |
| 20210914123 | 9/16/21 12:04 | MBW-2788 | 66 | Chloride | ND | 2.0 |
| 20210914123 | 9/17/21 14:42 | MBW-2789 | 100 | Chloride | ND | 2.0 |
| 20210914123 | 9/17/21 22:49 | MBW-2790 | 117 | Chloride | ND | 2.0 |
| 20210914123 | 9/21/21 12:36 | MBW-2791 | 129 | Chloride | ND | 2.0 |
| 20210914123 | 9/22/21 12:28 | MBW-2792 | 163 | Chloride | ND | 2.0 |
| 20210914123 | 9/23/21 12:16 | MBW-2793 | 196 | Chloride | ND | 2.0 |
| 20210914123 | 9/14/21 17:48 | MBW-2786 | 9 | Nitrate | ND | 1.0 |
| 20210914123 | 9/15/21 08:58 | MBW-2787 | 35 | Nitrate | ND | 1.0 |
| 20210914123 | 9/15/21 15:37 | MBS | 49 | Nitrate | ND | 10 |
| 20210914123 | 9/16/21 12:04 | MBW-2788 | 66 | Nitrate | ND | 1.0 |
| 20210914123 | 9/17/21 14:42 | MBW-2789 | 100 | Nitrate | ND | 1.0 |
| 20210914123 | 9/17/21 22:49 | MBW-2790 | 117 | Nitrate | ND | 1.0 |
| 20210914123 | 9/21/21 12:36 | MBW-2791 | 129 | Nitrate | ND | 1.0 |
| 20210914123 | 9/22/21 12:28 | MBW-2792 | 163 | Nitrate | ND | 1.0 |
| 20210914123 | 9/23/21 12:16 | MBW-2793 | 196 | Nitrate | ND | 1.0 |
| 20210914123 | 9/14/21 17:48 | MBW-2786 | 9 | Sulfate | ND | 2.0 |
| 20210914123 | 9/15/21 08:58 | MBW-2787 | 35 | Sulfate | ND | 2.0 |
| 20210914123 | 9/15/21 15:37 | MBS | 49 | Sulfate | ND | 20 |
| 20210914123 | 9/16/21 12:04 | MBW-2788 | 66 | Sulfate | ND | 2.0 |
| 20210914123 | 9/17/21 14:42 | MBW-2789 | 100 | Sulfate | ND | 2.0 |
| 20210914123 | 9/17/21 22:49 | MBW-2790 | 117 | Sulfate | ND | 2.0 |
| 20210914123 | 9/21/21 12:36 | MBW-2791 | 129 | Sulfate | ND | 2.0 |
| 20210914123 | 9/22/21 12:28 | MBW-2792 | 163 | Sulfate | ND | 2.0 |
| 20210914123 | 9/23/21 12:16 | MBW-2793 | 196 | Sulfate | ND | 2.0 |

## Qc Type: ICB Summary  Prep Date: NA

| Run Batch ID | Analysis Date/Time | Sample ID | Run# | Analyte | Conc | RL |
|---|---|---|---|---|---|---|
| 20210914123 | 9/14/21 17:20 | ICB | 8 | Bromide | ND | 1.0 |
| 20210914123 | 9/14/21 17:20 | ICB | 8 | Chloride | ND | 2.0 |
| 20210914123 | 9/14/21 17:20 | ICB | 8 | Nitrate | ND | 1.0 |
| 20210914123 | 9/14/21 17:20 | ICB | 8 | Sulfate | ND | 2.0 |

# Blank Summary

Instrument: IC2

Qc Type: CCB Summary  Prep Date: NA

| Run Batch ID | Analysis Date/Time | Sample ID | Run# | Analyte | Conc | RL |
|---|---|---|---|---|---|---|
| 20210914123 | 9/14/21 22:47 | CCB | 20 | Bromide | ND | 1.0 |
| 20210914123 | 9/15/21 03:46 | CCB | 31 | Bromide | ND | 1.0 |
| 20210914123 | 9/15/21 14:16 | CCB | 46 | Bromide | ND | 1.0 |
| 20210914123 | 9/15/21 16:59 | CCB | 52 | Bromide | ND | 1.0 |
| 20210914123 | 9/15/21 22:54 | CCB | 62 | Bromide | ND | 1.0 |
| 20210914123 | 9/16/21 11:37 | CCB | 65 | Bromide | ND | 1.0 |
| 20210914123 | 9/16/21 17:56 | CCB | 77 | Bromide | ND | 1.0 |
| 20210914123 | 9/16/21 23:23 | CCB | 89 | Bromide | ND | 1.0 |
| 20210914123 | 9/17/21 11:01 | CCB | 92 | Bromide | ND | 1.0 |
| 20210914123 | 9/17/21 16:31 | CCB | 104 | Bromide | ND | 1.0 |
| 20210914123 | 9/17/21 22:22 | CCB | 116 | Bromide | ND | 1.0 |
| 20210914123 | 9/18/21 02:27 | CCB | 125 | Bromide | ND | 1.0 |
| 20210914123 | 9/21/21 12:08 | CCB | 128 | Bromide | ND | 1.0 |
| 20210914123 | 9/21/21 19:56 | CCB | 140 | Bromide | ND | 1.0 |
| 20210914123 | 9/22/21 01:22 | CCB | 152 | Bromide | ND | 1.0 |
| 20210914123 | 9/22/21 04:33 | CCB | 159 | Bromide | ND | 1.0 |
| 20210914123 | 9/22/21 12:01 | CCB | 162 | Bromide | ND | 1.0 |
| 20210914123 | 9/22/21 17:26 | CCB | 174 | Bromide | ND | 1.0 |
| 20210914123 | 9/22/21 22:52 | CCB | 186 | Bromide | ND | 1.0 |
| 20210914123 | 9/23/21 01:35 | CCB | 192 | Bromide | ND | 1.0 |
| 20210914123 | 9/23/21 11:49 | CCB | 195 | Bromide | ND | 1.0 |
| 20210914123 | 9/23/21 17:30 | CCB | 207 | Bromide | ND | 1.0 |
| 20210914123 | 9/23/21 22:29 | CCB | 218 | Bromide | ND | 1.0 |
| 20210914123 | 9/24/21 00:18 | CCB | 222 | Bromide | ND | 1.0 |
| 20210914123 | 9/14/21 22:47 | CCB | 20 | Chloride | ND | 2.0 |
| 20210914123 | 9/15/21 03:46 | CCB | 31 | Chloride | ND | 2.0 |
| 20210914123 | 9/15/21 14:16 | CCB | 46 | Chloride | ND | 2.0 |
| 20210914123 | 9/15/21 16:59 | CCB | 52 | Chloride | ND | 2.0 |
| 20210914123 | 9/15/21 22:54 | CCB | 62 | Chloride | ND | 2.0 |
| 20210914123 | 9/16/21 11:37 | CCB | 65 | Chloride | ND | 2.0 |
| 20210914123 | 9/16/21 17:56 | CCB | 77 | Chloride | ND | 2.0 |
| 20210914123 | 9/16/21 23:23 | CCB | 89 | Chloride | ND | 2.0 |
| 20210914123 | 9/17/21 11:01 | CCB | 92 | Chloride | ND | 2.0 |
| 20210914123 | 9/17/21 16:31 | CCB | 104 | Chloride | ND | 2.0 |
| 20210914123 | 9/17/21 22:22 | CCB | 116 | Chloride | ND | 2.0 |
| 20210914123 | 9/18/21 02:27 | CCB | 125 | Chloride | ND | 2.0 |
| 20210914123 | 9/21/21 12:08 | CCB | 128 | Chloride | ND | 2.0 |
| 20210914123 | 9/21/21 19:56 | CCB | 140 | Chloride | ND | 2.0 |
| 20210914123 | 9/22/21 01:22 | CCB | 152 | Chloride | ND | 2.0 |
| 20210914123 | 9/22/21 04:33 | CCB | 159 | Chloride | ND | 2.0 |
| 20210914123 | 9/22/21 12:01 | CCB | 162 | Chloride | ND | 2.0 |
| 20210914123 | 9/22/21 17:26 | CCB | 174 | Chloride | ND | 2.0 |
| 20210914123 | 9/22/21 22:52 | CCB | 186 | Chloride | ND | 2.0 |

# Blank Summary

Instrument: IC2

| | | | | | | |
|---|---|---|---|---|---|---|
| 20210914123 | 9/23/21 01:35 | CCB | 192 | Chloride | ND | 2.0 |
| 20210914123 | 9/23/21 11:49 | CCB | 195 | Chloride | ND | 2.0 |
| 20210914123 | 9/23/21 17:30 | CCB | 207 | Chloride | ND | 2.0 |
| 20210914123 | 9/23/21 22:29 | CCB | 218 | Chloride | ND | 2.0 |
| 20210914123 | 9/24/21 00:18 | CCB | 222 | Chloride | ND | 2.0 |
| 20210914123 | 9/14/21 22:47 | CCB | 20 | Nitrate | ND | 1.0 |
| 20210914123 | 9/15/21 03:46 | CCB | 31 | Nitrate | ND | 1.0 |
| 20210914123 | 9/15/21 14:16 | CCB | 46 | Nitrate | ND | 1.0 |
| 20210914123 | 9/15/21 16:59 | CCB | 52 | Nitrate | ND | 1.0 |
| 20210914123 | 9/15/21 22:54 | CCB | 62 | Nitrate | ND | 1.0 |
| 20210914123 | 9/16/21 11:37 | CCB | 65 | Nitrate | ND | 1.0 |
| 20210914123 | 9/16/21 17:56 | CCB | 77 | Nitrate | ND | 1.0 |
| 20210914123 | 9/16/21 23:23 | CCB | 89 | Nitrate | ND | 1.0 |
| 20210914123 | 9/17/21 11:01 | CCB | 92 | Nitrate | ND | 1.0 |
| 20210914123 | 9/17/21 16:31 | CCB | 104 | Nitrate | ND | 1.0 |
| 20210914123 | 9/17/21 22:22 | CCB | 116 | Nitrate | ND | 1.0 |
| 20210914123 | 9/18/21 02:27 | CCB | 125 | Nitrate | ND | 1.0 |
| 20210914123 | 9/21/21 12:08 | CCB | 128 | Nitrate | ND | 1.0 |
| 20210914123 | 9/21/21 19:56 | CCB | 140 | Nitrate | ND | 1.0 |
| 20210914123 | 9/22/21 01:22 | CCB | 152 | Nitrate | ND | 1.0 |
| 20210914123 | 9/22/21 04:33 | CCB | 159 | Nitrate | ND | 1.0 |
| 20210914123 | 9/22/21 12:01 | CCB | 162 | Nitrate | ND | 1.0 |
| 20210914123 | 9/22/21 17:26 | CCB | 174 | Nitrate | ND | 1.0 |
| 20210914123 | 9/22/21 22:52 | CCB | 186 | Nitrate | ND | 1.0 |
| 20210914123 | 9/23/21 01:35 | CCB | 192 | Nitrate | ND | 1.0 |
| 20210914123 | 9/23/21 11:49 | CCB | 195 | Nitrate | ND | 1.0 |
| 20210914123 | 9/23/21 17:30 | CCB | 207 | Nitrate | ND | 1.0 |
| 20210914123 | 9/23/21 22:29 | CCB | 218 | Nitrate | ND | 1.0 |
| 20210914123 | 9/24/21 00:18 | CCB | 222 | Nitrate | ND | 1.0 |
| 20210914123 | 9/14/21 22:47 | CCB | 20 | Sulfate | ND | 2.0 |
| 20210914123 | 9/15/21 03:46 | CCB | 31 | Sulfate | ND | 2.0 |
| 20210914123 | 9/15/21 14:16 | CCB | 46 | Sulfate | ND | 2.0 |
| 20210914123 | 9/15/21 16:59 | CCB | 52 | Sulfate | ND | 2.0 |
| 20210914123 | 9/15/21 22:54 | CCB | 62 | Sulfate | ND | 2.0 |
| 20210914123 | 9/16/21 11:37 | CCB | 65 | Sulfate | ND | 2.0 |
| 20210914123 | 9/16/21 17:56 | CCB | 77 | Sulfate | ND | 2.0 |
| 20210914123 | 9/16/21 23:23 | CCB | 89 | Sulfate | ND | 2.0 |
| 20210914123 | 9/17/21 11:01 | CCB | 92 | Sulfate | ND | 2.0 |
| 20210914123 | 9/17/21 16:31 | CCB | 104 | Sulfate | ND | 2.0 |
| 20210914123 | 9/17/21 22:22 | CCB | 116 | Sulfate | ND | 2.0 |
| 20210914123 | 9/18/21 02:27 | CCB | 125 | Sulfate | ND | 2.0 |
| 20210914123 | 9/21/21 12:08 | CCB | 128 | Sulfate | ND | 2.0 |
| 20210914123 | 9/21/21 19:56 | CCB | 140 | Sulfate | ND | 2.0 |
| 20210914123 | 9/22/21 01:22 | CCB | 152 | Sulfate | ND | 2.0 |
| 20210914123 | 9/22/21 04:33 | CCB | 159 | Sulfate | ND | 2.0 |

# Blank Summary

Instrument: IC2

| | | | | | | |
|---|---|---|---|---|---|---|
| 20210914123 | 9/22/21 12:01 | CCB | 162 | Sulfate | ND | 2.0 |
| 20210914123 | 9/22/21 17:26 | CCB | 174 | Sulfate | ND | 2.0 |
| 20210914123 | 9/22/21 22:52 | CCB | 186 | Sulfate | ND | 2.0 |
| 20210914123 | 9/23/21 01:35 | CCB | 192 | Sulfate | ND | 2.0 |
| 20210914123 | 9/23/21 11:49 | CCB | 195 | Sulfate | ND | 2.0 |
| 20210914123 | 9/23/21 17:30 | CCB | 207 | Sulfate | ND | 2.0 |
| 20210914123 | 9/23/21 22:29 | CCB | 218 | Sulfate | ND | 2.0 |
| 20210914123 | 9/24/21 00:18 | CCB | 222 | Sulfate | ND | 2.0 |

# Wet Chemistry Data
# Raw Data

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-356283

Prepared By: Lamb, Gillian
Description: 1 N NAOH
Prep Date: 8/26/2021
Expiration Date: 2/25/2022
Department: Metals
BatchNumber:
Concentration: 1 n
Final Volume: 2000 ml
ApprovedBy: janee
ApproveDate: 08/30/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13929 | Sodium Hydroxide pellet,ACS | 80 g | NEAT neat | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-356484

Prepared By: louis lombardi
Description: 0.25 N NaOH
Prep Date: 8/30/2021
Expiration Date: 3/1/2022
Department: WetChem
BatchNumber:
Concentration: 0.25 n
Final Volume: 3000 ml
ApprovedBy: janee
ApproveDate: 08/31/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 12834 | sodium hydroxide | 30 g | neat neat | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-357077

Prepared By: Trivedi, Beena
Description: 0.4N Sulfamic Acid
Prep Date: 9/9/2021
Expiration Date: 3/8/2022
Department: WetChem
BatchNumber:
Concentration: 0.4 n
Final Volume: 250 ml
ApprovedBy: janee
ApproveDate: 09/09/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 10606 | Sulfamic Acid, ACS | 10 g | neat neat | .4 n |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-357078

Prepared By: Trivedi, Beena
Description: CN Release Solution
Prep Date: 9/9/2021
Expiration Date: 3/8/2022
Department: WetChem
BatchNumber:
Concentration: various neat
Final Volume: 930.6 g
ApprovedBy: janee
ApproveDate: 09/09/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 12312 | Magnesium Chloride Hexahydrate | 96.6 g | neat neat | |
| 14049 | DI H20 | 332.4 g | | |
| 14166 | Sulfuric acid | 417 g | NEAT neat | |
| V-357077 | 0.4N Sulfamic Acid | 84.6 g | 0.4 n | |

## Veritech Lot Number: V-357085

Prepared By: Wonge, Janee
Description: Sodium Phosphate
Prep Date: 9/9/2021
Expiration Date: 10/8/2021
Department: WetChem
BatchNumber:
Concentration: Reagent reag
Final Volume: 250 ml
ApprovedBy: janee
ApproveDate: 09/09/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13261 | sodium phosphate monobasic | 34.5 g | NEAT neat | |
| 14049 | DI H20 | | | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357593

Prepared By: louis lombardi
Description: 20 ppm CN standard
Prep Date: 9/20/2021
Expiration Date: 9/20/2021
Department: WetChem
BatchNumber:
Concentration: 20 ppm
Final Volume: 100 ml
ApprovedBy: janee
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14060 | 1000 ppm CN std | 2 ml | 1000 ppm | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-357594

Prepared By: louis lombardi
Description: 20 ppm CN control
Prep Date: 9/20/2021
Expiration Date: 9/20/2021
Department: WetChem
BatchNumber:
Concentration: 20 ppm
Final Volume: 100 ml
ApprovedBy: janee
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14091 | 1000 PPM CN | 2 ml | 1000 ppm | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-357595

Prepared By: louis lombardi
Description: 0.80 ppm Cyanide
Prep Date: 9/20/2021
Expiration Date: 9/20/2021
Department: WetChem
BatchNumber:
Concentration: 0.80 ppm
Final Volume: 6 ml
ApprovedBy: janee
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-356283 | 1 N NAOH | 1.5 ml | 1 n | |
| V-357593 | 20 ppm CN standard | .24 ml | 20 ppm | |

## Veritech Lot Number: V-357596

Prepared By: louis lombardi
Description: ICV/CCV
Prep Date: 9/20/2021
Expiration Date: 9/20/2021
Department: WetChem
BatchNumber:
Concentration: 0.40 ppm
Final Volume: 100 ml
ApprovedBy: janee
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356484 | 0.25 N NaOH | 98 ml | 0.25 n | |
| V-357594 | 20 ppm CN control | 2 ml | 20 ppm | |

## Veritech Lot Number: V-357597

Prepared By: louis lombardi
Description: Chloramine -T (AQ2)
Prep Date: 9/20/2021
Expiration Date: 9/21/2021
Department: WetChem
BatchNumber:
Concentration: reagent reage
Final Volume: 50 ml
ApprovedBy: janee
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 10778 | Chloramine T trihydrate | .5 g | neat neat | |
| 14049 | DI H20 | | | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357598

| | | | | | |
|---|---|---|---|---|---|
| Prepared By: | louis lombardi | Department: | WetChem | ApprovedBy: | janee |
| Description: | Pyridine/Barbaturic acid | BatchNumber: | | ApproveDate: | 09/23/21 |
| Prep Date: | 9/20/2021 | Concentration: | Reagent reag | Checked: | Yes |
| Expiration Date: | 9/27/2021 | Final Volume: | 250 ml | | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13135 | Barbituric Acid | 3.75 g | neat neat | |
| 12769 | Pyridine | 18.75 ml | neat neat | |
| 13902 | hydrochloric acid | 3.75 ml | neat neat | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357599

Prepared By: louis lombardi
Description: 0.80 ppm Cyanide
Prep Date: 9/20/2021
Expiration Date: 9/20/2021

Department: WetChem
BatchNumber:
Concentration: 0.80 ppm
Final Volume: 6 ml

ApprovedBy: janee
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-356283 | 1 N NAOH | 1.5 ml | 1 n | |
| V-357593 | 20 ppm CN standard | .24 ml | 20 ppm | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357598

Prepared By: louis lombardi | Department: WetChem | ApprovedBy: janee
Description: Pyridine/Barbaturic acid | BatchNumber: | ApproveDate: 09/23/21
Prep Date: 9/20/2021 | Concentration: Reagent reag | Checked: Yes
Expiration Date: 9/27/2021 | Final Volume: 250 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13135 | Barbituric Acid | 3.75 g | neat neat | |
| 12769 | Pyridine | 18.75 ml | neat neat | |
| 13902 | hydrochloric acid | 3.75 ml | neat neat | |

## Veritech Lot Number: V-358088

Prepared By: louis lombardi | Department: WetChem | ApprovedBy: jessica
Description: 20 ppm CN standard | BatchNumber: | ApproveDate: 09/27/21
Prep Date: 9/27/2021 | Concentration: 20 ppm | Checked: Yes
Expiration Date: 9/27/2021 | Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14060 | 1000 ppm CN std | 2 ml | 1000 ppm | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-358089

Prepared By: louis lombardi | Department: WetChem | ApprovedBy: jessica
Description: 20 ppm CN control | BatchNumber: | ApproveDate: 09/27/21
Prep Date: 9/27/2021 | Concentration: 20 ppm | Checked: Yes
Expiration Date: 9/27/2021 | Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14091 | 1000 PPM CN | 2 ml | 1000 ppm | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-358090

Prepared By: louis lombardi | Department: WetChem | ApprovedBy: jessica
Description: ICV/CCV | BatchNumber: | ApproveDate: 09/27/21
Prep Date: 9/27/2021 | Concentration: 0.40 ppm | Checked: Yes
Expiration Date: 9/27/2021 | Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-356484 | 0.25 N NaOH | 98 ml | 0.25 n | |
| V-358089 | 20 ppm CN control | 2 ml | 20 ppm | |

## Veritech Lot Number: V-358091

Prepared By: louis lombardi | Department: WetChem | ApprovedBy: jessica
Description: 0.80 ppm Cyanide | BatchNumber: | ApproveDate: 09/27/21
Prep Date: 9/27/2021 | Concentration: 0.80 ppm | Checked: Yes
Expiration Date: 9/27/2021 | Final Volume: 6 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-356283 | 1 N NAOH | 1.5 ml | 1 n | |
| V-358088 | 20 ppm CN standard | .24 ml | 20 ppm | |

# Veritech Internally Prepared Standard Log

**Veritech Lot Number: V-358092**

| | | | |
|---|---|---|---|
| Prepared By: | louis lombardi | Department: WetChem | ApprovedBy: jessica |
| Description: | Chloramine -T (AQ2) | BatchNumber: | ApproveDate: 09/27/21 |
| Prep Date: | 9/27/2021 | Concentration: reagent reage | Checked: Yes |
| Expiration Date: | 9/28/2021 | Final Volume: 50 ml | |

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 10778 | Chloramine T trihydrate | .5 g | neat neat | |
| 14049 | DI H20 | | | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 10606

Description
Sulfamic Acid, ACS

ApprovedBy: janee
ApproveDate: 12/21/16
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Lab chem | LC254201 | F308-21 | 12/19/16 | 12/18/26 | Wonge, Janee | 2 | 500 g | neat | neat |

## Veritech Control/Receipt Number: 10778

Description
Chloramine T trihydrate

ApprovedBy: janee
ApproveDate: 03/02/17
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Emd Millipore | 1.02426.0250 | K48314926 637 | 03/02/17 | 03/01/27 | Wonge, Janee | 1 | 250 g | neat | neat |

## Veritech Control/Receipt Number: 12312

Description
Magnesium Chloride Hexahydrate

ApprovedBy: BEENA
ApproveDate: 02/25/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fisher | M35-500 | 182951 | 02/20/19 | 08/31/29 | Wonge, Janee | 1 | 500 g | neat | neat |

## Veritech Control/Receipt Number: 12769

Description
Pyridine

ApprovedBy: janee
ApproveDate: 09/20/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fisher | P368-1 | 190224 | 09/20/19 | 09/19/24 | Wonge, Janee | 1 | 1 L | neat | neat |

## Veritech Control/Receipt Number: 12834

Description
sodium hydroxide

ApprovedBy: akmal
ApproveDate: 10/16/19
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EMD | 1.06469.9012 | B1714069 | 10/15/19 | 10/14/24 | Lopez, Jose | 1 | 12kg | neat | neat |

## Veritech Control/Receipt Number: 13135

Description
Barbituric Acid

ApprovedBy: jessica
ApproveDate: 03/25/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| GFS chemicals | LS-1580004 | 17501828 | 03/25/20 | 03/24/30 | Patel, Jessica | 1 | 100 g | neat | neat |

## Veritech Control/Receipt Number: 13261

Description
sodium phosphate monobasic

ApprovedBy: jessica
ApproveDate: 05/26/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| lab chem | LC247751 | K086-13 | 05/26/20 | 05/25/30 | Patel, Jessica | 3 | 500 G | NEAT | NEAT |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 13902

Description
hydrochloric acid

ApprovedBy: jessica
ApproveDate: 05/10/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| J.T.Baker | 9530-33 | 271303 | 05/04/21 | 09/15/25 | Lopez, Jose | 18 | 2.5L | neat | neat |

## Veritech Control/Receipt Number: 13929

Description
Sodium Hydroxide pellet,ACS

ApprovedBy: jessica
ApproveDate: 05/19/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LABORATORY S | LS-2755095 | 2020100267 | 05/19/21 | 05/18/31 | Patel, Jessica | 1 | 12 K | NEAT | NEAT |

## Veritech Control/Receipt Number: 14049

Description
DI H20

ApprovedBy: janee
ApproveDate: 07/08/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 07/01/21 | 07/01/22 | Wonge, Janee | 1 | | | |

## Veritech Control/Receipt Number: 14060

Description
1000 ppm CN std

ApprovedBy: janee
ApproveDate: 07/12/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LabChem | LC135451 | L111-01 | 07/12/21 | 11/04/21 | Wonge, Janee | 1 | 500 m | 1000 | ppm |

## Veritech Control/Receipt Number: 14091

Description
1000 PPM CN

ApprovedBy: janee
ApproveDate: 07/27/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Ricca | 2543-32 | 1106D18 | 07/27/21 | 12/31/21 | Wonge, Janee | 1 | 1 L | 1000 | ppm |

## Veritech Control/Receipt Number: 14166

Description
Sulfuric acid

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fisher | A510-P212 | 3120012 | 09/08/21 | 04/13/24 | Lopez, Jose | 6 | 2.5L | NEAT | NEAT |

Veritech Standard Receipt Log

**Veritech Control/Receipt Number: 14147**

Description
0.1 N H2SO4

ApprovedBy: janee
ApproveDate: 08/25/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LABCHEM | LC256801 | L64-01 | 08/23/21 | 09/22/21 | Trivedi, Beena | 1 | 500 M | 0.1 | N |

**Veritech Control/Receipt Number: 14197**

Description
0.02 N NAOH

ApprovedBy: janee
ApproveDate: 9/27/21
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB CHEM | LC242201 | L083-14 | 09/21/21 | 10/20/21 | Trivedi, Beena | 1 | 500 M | 0.02 | N |

**Veritech Control/Receipt Number: 14198**

Description
0.02 N H2SO4

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB CHEM | LC2566601 | L011-15 | 09/21/21 | 10/20/21 | Trivedi, Beena | 1 | 500 M | 0.02 | N |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-351116

Prepared By: Trivedi, Beena
Description: 1000 ppm TOC 10ppm,75ppm
Prep Date: 6/3/2021
Expiration Date: 11/11/2021
Department: WetChem
BatchNumber:
Concentration: 1000 ppm
Final Volume: 1000 ml
ApprovedBy: jessica
ApproveDate: 06/03/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 8322 | Potassium Hydrogen Phthalate | 2.125 g | NEAT neat | |
| 13600 | DI H2O | | | |
| 13603 | sulfuric acid | 1 ml | neat neat | |

## Veritech Lot Number: V-351117

Prepared By: Trivedi, Beena
Description: 1000 PPM TOC LCS/CCV/ICV
Prep Date: 6/3/2021
Expiration Date: 11/11/2021
Department: WetChem
BatchNumber:
Concentration: 1000 ppm
Final Volume: 1000 ml
ApprovedBy: jessica
ApproveDate: 06/03/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13603 | sulfuric acid | 1 ml | neat neat | |
| 13579 | pottasium hydrogen phalate | 2.125 g | neat neat | |

## Veritech Lot Number: V-358030

Prepared By: louis lombardi
Description: LCS/CCV/ICV - 50PPM
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: WetChem
BatchNumber:
Concentration: 50 ppm
Final Volume: 100 ml
ApprovedBy: janee
ApproveDate: 09/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-351117 | 1000 PPM TOC LCS/CCV/ICV | 5 ml | 1000 ppm | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-358031

Prepared By: louis lombardi
Description: 10 PPM
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: WetChem
BatchNumber:
Concentration: 10 ppm
Final Volume: 100 ml
ApprovedBy: janee
ApproveDate: 09/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-351116 | 1000 ppm TOC 10ppm,75ppm | 1 ml | 1000 ppm | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-358032

Prepared By: louis lombardi
Description: 75 PPM
Prep Date: 9/23/2021
Expiration Date: 9/23/2021
Department: WetChem
BatchNumber:
Concentration: 75 ppm
Final Volume: 50 ml
ApprovedBy: janee
ApproveDate: 09/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-351116 | 1000 ppm TOC 10ppm,75ppm | 3.75 ml | 1000 ppm | |
| 14049 | DI H20 | | | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-351116

Prepared By: Trivedi, Beena
Description: 1000 ppm TOC 10ppm,75ppm
Prep Date: 6/3/2021
Expiration Date: 11/11/2021
Department: WetChem
BatchNumber:
Concentration: 1000 ppm
Final Volume: 1000 ml
ApprovedBy: jessica
ApproveDate: 06/03/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 8322 | Potassium Hydrogen Phthalate | 2.125 g | NEAT neat | |
| 13600 | DI H2O | | | |
| 13603 | sulfuric acid | 1 ml | neat neat | |

## Veritech Lot Number: V-351117

Prepared By: Trivedi, Beena
Description: 1000 PPM TOC LCS/CCV/ICV
Prep Date: 6/3/2021
Expiration Date: 11/11/2021
Department: WetChem
BatchNumber:
Concentration: 1000 ppm
Final Volume: 1000 ml
ApprovedBy: jessica
ApproveDate: 06/03/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13603 | sulfuric acid | 1 ml | neat neat | |
| 13579 | pottasium hydrogen phalate | 2.125 g | neat neat | |

## Veritech Lot Number: V-358033

Prepared By: Wonge, Janee
Description: LCS/CCV/ICV - 50PPM
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: WetChem
BatchNumber:
Concentration: 50 ppm
Final Volume: 100 ml
ApprovedBy: janee
ApproveDate: 09/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-351117 | 1000 PPM TOC LCS/CCV/ICV | 5 ml | 1000 ppm | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-358034

Prepared By: Wonge, Janee
Description: 10 PPM
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: WetChem
BatchNumber:
Concentration: 10 ppm
Final Volume: 100 ml
ApprovedBy: janee
ApproveDate: 09/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-351116 | 1000 ppm TOC 10ppm,75ppm | 1 ml | 1000 ppm | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-358035

Prepared By: Wonge, Janee
Description: 75 PPM
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: WetChem
BatchNumber:
Concentration: 75 ppm
Final Volume: 50 ml
ApprovedBy: janee
ApproveDate: 09/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-351116 | 1000 ppm TOC 10ppm,75ppm | 3.75 ml | 1000 ppm | |
| 14049 | DI H20 | | | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-351116

Prepared By: Trivedi, Beena
Description: 1000 ppm TOC 10ppm,75ppm
Prep Date: 6/3/2021
Expiration Date: 11/11/2021
Department: WetChem
BatchNumber:
Concentration: 1000 ppm
Final Volume: 1000 ml
ApprovedBy: jessica
ApproveDate: 06/03/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 8322 | Potassium Hydrogen Phthalate | 2.125 g | NEAT neat | |
| 13600 | DI H2O | | | |
| 13603 | sulfuric acid | 1 ml | neat neat | |

## Veritech Lot Number: V-351117

Prepared By: Trivedi, Beena
Description: 1000 PPM TOC LCS/CCV/ICV
Prep Date: 6/3/2021
Expiration Date: 11/11/2021
Department: WetChem
BatchNumber:
Concentration: 1000 ppm
Final Volume: 1000 ml
ApprovedBy: jessica
ApproveDate: 06/03/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13600 | DI H2O | | | |
| 13603 | sulfuric acid | 1 ml | neat neat | |
| 13579 | pottasium hydrogen phalate | 2.125 g | neat neat | |

## Veritech Lot Number: V-357785

Prepared By: Wonge, Janee
Description: LCS/CCV/ICV - 50PPM
Prep Date: 9/21/2021
Expiration Date: 9/21/2021
Department: WetChem
BatchNumber:
Concentration: 50 ppm
Final Volume: 100 ml
ApprovedBy: janee
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-351117 | 1000 PPM TOC LCS/CCV/ICV | 5 ml | 1000 ppm | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-357786

Prepared By: Wonge, Janee
Description: 10 PPM
Prep Date: 9/21/2021
Expiration Date: 9/21/2021
Department: WetChem
BatchNumber:
Concentration: 10 ppm
Final Volume: 100 ml
ApprovedBy: janee
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-351116 | 1000 ppm TOC 10ppm,75ppm | 1 ml | 1000 ppm | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-357787

Prepared By: Wonge, Janee
Description: 75 PPM
Prep Date: 9/21/2021
Expiration Date: 9/21/2021
Department: WetChem
BatchNumber:
Concentration: 75 ppm
Final Volume: 50 ml
ApprovedBy: janee
ApproveDate: 09/23/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-351116 | 1000 ppm TOC 10ppm,75ppm | 3.75 ml | 1000 ppm | |
| 14049 | DI H20 | | | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 8322

Description
Potassium Hydrogen Phthalate

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fisher | P243-500 | 132808A | 12/09/13 | 12/09/23 | Wonge, Janee | 1 | 500g | NEAT | NEAT |

## Veritech Control/Receipt Number: 13579

Description
pottasium hydrogen phalate

ApprovedBy: jessica
ApproveDate: 11/03/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| sigma-aldrich | p1088 | mkcm7134 | 11/03/20 | 11/02/30 | Patel, Jessica | 1 | 100 g | neat | neat |

## Veritech Control/Receipt Number: 13600

Description
DI H2O

ApprovedBy: jessica
ApproveDate: 11/13/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 11/12/20 | 11/11/21 | Trivedi, Beena | 1 | | | |

## Veritech Control/Receipt Number: 13603

Description
sulfuric acid

ApprovedBy: akmal
ApproveDate: 11/17/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fisher | A510P212 | 3119022 | 11/16/20 | 12/10/22 | Lopez, Jose | 6 | 2.5L | neat | neat |

## Veritech Control/Receipt Number: 14049

Description
DI H20

ApprovedBy: janee
ApproveDate: 07/08/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 07/01/21 | 07/01/22 | Wonge, Janee | 1 | | | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357811

Prepared By: Trivedi, Beena | Department: WetChem | ApprovedBy: MMP
Description: 10 ppm | BatchNumber: B-31609 | ApproveDate: 9/27/21
Prep Date: 9/22/2021 | Concentration: 10 ppm | Checked: No
Expiration Date: 9/22/2021 | Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-357809 | 100ppm NH3 Intermediate | 5 ml | 100 ppm | |

## Veritech Lot Number: V-357812

Prepared By: Trivedi, Beena | Department: WetChem | ApprovedBy:
Description: 25 ppm | BatchNumber: B-31609 | ApproveDate:
Prep Date: 9/22/2021 | Concentration: 25 ppm | Checked: No
Expiration Date: 9/22/2021 | Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-357809 | 100ppm NH3 Intermediate | 12.5 ml | 100 ppm | |

## Veritech Lot Number: V-357813

Prepared By: Trivedi, Beena | Department: WetChem | ApprovedBy:
Description: 50 ppm | BatchNumber: B-31609 | ApproveDate:
Prep Date: 9/22/2021 | Concentration: 50 ppm | Checked: No
Expiration Date: 9/22/2021 | Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-357809 | 100ppm NH3 Intermediate | 25 ml | 100 ppm | |

## Veritech Lot Number: V-357814

Prepared By: Trivedi, Beena | Department: WetChem | ApprovedBy:
Description: 100 ppm | BatchNumber: B-31609 | ApproveDate:
Prep Date: 9/22/2021 | Concentration: 100 ppm | Checked: No
Expiration Date: 9/22/2021 | Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357809 | 100ppm NH3 Intermediate | 50 ml | 100 ppm | |

## Veritech Lot Number: V-357815

Prepared By: Trivedi, Beena | Department: WetChem | ApprovedBy:
Description: NH3 ICV/CCV | BatchNumber: B-31609 | ApproveDate:
Prep Date: 9/22/2021 | Concentration: 50 ppm | Checked: No
Expiration Date: 9/22/2021 | Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13661 | 1000 PPM NH3 STD | 2.5 ml | 1000 ppm | |

## Veritech Lot Number: V-357816

Prepared By: Trivedi, Beena | Department: WetChem | ApprovedBy:
Description: NH3 LCS | BatchNumber: B-31609 | ApproveDate:
Prep Date: 9/22/2021 | Concentration: 50 ppm | Checked: No
Expiration Date: 9/22/2021 | Final Volume: 6 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13661 | 1000 PPM NH3 STD | .3 ml | 1000 ppm | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-353048

Prepared By: Trivedi, Beena
Description: 0.8 M H2SO4 "WARNING"
Prep Date: 7/7/2021
Expiration Date: 1/6/2022
Department: WetChem
BatchNumber:
Concentration: 0.8 m
Final Volume: 1000 ml
ApprovedBy: janee
ApproveDate: 07/08/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13343 | sulfuric acid | 78.5 g | neat neat | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-355723

Prepared By: Trivedi, Beena
Description: 6 N NAOH
Prep Date: 8/17/2021
Expiration Date: 2/16/2022
Department: WetChem
BatchNumber:
Concentration: 6 n
Final Volume: 500 ml
ApprovedBy: janee
ApproveDate: 08/18/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14127 | sodium hydroxide | 120 g | neat neat | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-355724

Prepared By: Trivedi, Beena
Description: 0.55 M BORATE BUFFER SOLN
Prep Date: 8/17/2021
Expiration Date: 2/16/2022
Department: WetChem
BatchNumber:
Concentration: .55 m
Final Volume: 1000 ml
ApprovedBy: janee
ApproveDate: 08/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 7791 | Sodium Tetraborate Decahydrate | 9.47 g | NEAT neat | |
| 14049 | DI H20 | 964 g | | |
| 14127 | sodium hydroxide | 22 g | neat neat | |

## Veritech Lot Number: V-357809

Prepared By: Trivedi, Beena
Description: 100ppm NH3 Intermediate
Prep Date: 9/22/2021
Expiration Date: 9/22/2021
Department: WetChem
BatchNumber:
Concentration: 100 ppm
Final Volume: 100 ml
ApprovedBy: [illegible] 9/27/21
ApproveDate:
Checked: No

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13616 | 1000 ppm ammonia std | 10 ml | 1000 ppm | |

## Veritech Lot Number: V-357810

Prepared By: Trivedi, Beena
Description: 1 ppm
Prep Date: 9/22/2021
Expiration Date: 9/22/2021
Department: WetChem
BatchNumber: B-31609
Concentration: 1 ppm
Final Volume: 50 ml
ApprovedBy:
ApproveDate:
Checked: No

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-357809 | 100ppm NH3 Intermediate | .5 ml | 100 ppm | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-353048

Prepared By: Trivedi, Beena
Description: 0.8 M H2SO4 "WARNING"
Prep Date: 7/7/2021
Expiration Date: 1/6/2022
Department: WetChem
BatchNumber:
Concentration: 0.8 m
Final Volume: 1000 ml
ApprovedBy: janee
ApproveDate: 07/08/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13343 | sulfuric acid | 78.5 g | neat neat | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-355723

Prepared By: Trivedi, Beena
Description: 6 N NAOH
Prep Date: 8/17/2021
Expiration Date: 2/16/2022
Department: WetChem
BatchNumber:
Concentration: 6 n
Final Volume: 500 ml
ApprovedBy: janee
ApproveDate: 08/18/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14127 | sodium hydroxide | 120 g | neat neat | |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-355724

Prepared By: Trivedi, Beena
Description: 0.55 M BORATE BUFFER SOLN
Prep Date: 8/17/2021
Expiration Date: 2/16/2022
Department: WetChem
BatchNumber:
Concentration: .55 m
Final Volume: 1000 ml
ApprovedBy: janee
ApproveDate: 08/24/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 7791 | Sodium Tetraborate Decahydrate | 9.47 g | NEAT neat | |
| 14049 | DI H20 | 964 g | | |
| 14127 | sodium hydroxide | 22 g | neat neat | |

## Veritech Lot Number: V-357994

Prepared By: Trivedi, Beena
Description: 100ppm NH3 Intermediate
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: WetChem
BatchNumber:
Concentration: 100 ppm
Final Volume: 100 ml
ApprovedBy: JJP
ApproveDate: 9/27/21
Checked: No

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13616 | 1000 ppm ammonia std | 10 ml | 1000 ppm | |

## Veritech Lot Number: V-357995

Prepared By: Trivedi, Beena
Description: 1 ppm
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: WetChem
BatchNumber: B-31627
Concentration: 1 ppm
Final Volume: 50 ml
ApprovedBy:
ApproveDate:
Checked: No

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-357994 | 100ppm NH3 Intermediate | .5 ml | 100 ppm | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357996

Prepared By: Trivedi, Beena
Description: 10 ppm
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: WetChem
BatchNumber: B-31627
Concentration: 10 ppm
Final Volume: 50 ml
ApprovedBy: [illegible]
ApproveDate: 9/27/21
Checked: No

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-357994 | 100ppm NH3 Intermediate | 5 ml | 100 ppm | |

## Veritech Lot Number: V-357997

Prepared By: Trivedi, Beena
Description: 25 ppm
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: WetChem
BatchNumber: B-31627
Concentration: 25 ppm
Final Volume: 50 ml
ApprovedBy:
ApproveDate:
Checked: No

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-357994 | 100ppm NH3 Intermediate | 12.5 ml | 100 ppm | |

## Veritech Lot Number: V-357998

Prepared By: Trivedi, Beena
Description: 50 ppm
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: WetChem
BatchNumber: B-31627
Concentration: 50 ppm
Final Volume: 50 ml
ApprovedBy:
ApproveDate:
Checked: No

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-357994 | 100ppm NH3 Intermediate | 25 ml | 100 ppm | |

## Veritech Lot Number: V-357999

Prepared By: Trivedi, Beena
Description: 100 ppm
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: WetChem
BatchNumber: B-31627
Concentration: 100 ppm
Final Volume: 50 ml
ApprovedBy:
ApproveDate:
Checked: No

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| V-357994 | 100ppm NH3 Intermediate | 50 ml | 100 ppm | |

## Veritech Lot Number: V-358000

Prepared By: Trivedi, Beena
Description: NH3 ICV/CCV
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: WetChem
BatchNumber: B-31627
Concentration: 50 ppm
Final Volume: 50 ml
ApprovedBy:
ApproveDate:
Checked: No

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13661 | 1000 PPM NH3 STD | 2.5 ml | 1000 ppm | |

## Veritech Lot Number: V-358001

Prepared By: Trivedi, Beena
Description: NH3 LCS
Prep Date: 9/24/2021
Expiration Date: 9/24/2021
Department: WetChem
BatchNumber: B-31627
Concentration: 50 ppm
Final Volume: 6 ml
ApprovedBy:
ApproveDate:
Checked: No

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13661 | 1000 PPM NH3 STD | .3 ml | 1000 ppm | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 7791

Description
Sodium Tetraborate Decahydrate

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fisher | S249-500 | 123808 | 03/25/13 | 03/24/23 | Dalmeida, Melissa | 1 | 500g | NEAT | NEAT |

## Veritech Control/Receipt Number: 13343

Description
sulfuric acid

ApprovedBy: jessica
ApproveDate: 09/21/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fisher | A510-P212 | 3119021 | 06/24/20 | 08/30/22 | Lopez, Jose | 6 | 2.5L | neat | neat |

## Veritech Control/Receipt Number: 13616

Description
1000 ppm ammonia std

ApprovedBy: jessica
ApproveDate: 11/23/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| hach | 2354153 | A0309 | 11/23/20 | 11/30/25 | Patel, Jessica | 1 | 1000 | 1000 | PPM |

## Veritech Control/Receipt Number: 13661

Description
1000 PPM NH3 STD

ApprovedBy: jessica
ApproveDate: 12/11/20
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| LAB CHEM | LC179401 | K232-20 | 12/11/20 | 08/20/22 | Patel, Jessica | 1 | 500 M | 1000 | PPM |

## Veritech Control/Receipt Number: 14049

Description
DI H20

ApprovedBy: janee
ApproveDate: 07/08/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 07/01/21 | 07/01/22 | Wonge, Janee | 1 | | | |

## Veritech Control/Receipt Number: 14127

Description
sodium hydroxide

ApprovedBy: akmal
ApproveDate: 08/12/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Lab. Sdales Servi | LS-2755095 | 2020100267 | 08/12/21 | 08/11/26 | Lopez, Jose | 1 | 12kg | neat | neat |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-353986

Prepared By: Trivedi, Beena
Description: KHP LCS
Prep Date: 7/20/2021
Expiration Date: 2/19/2022

Department: WetChem
BatchNumber:
Concentration: 300 ppm
Final Volume: 1000 ml

ApprovedBy: janee
ApproveDate: 07/20/21
Checked: Yes

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 8322 | Potassium Hydrogen Phthalate | 300 mg | NEAT neat | |
| 14049 | DI H20 | | | |

# Veritech Internally Prepared Standard Log

**Veritech Lot Number: V-357763**

Prepared By: Trivedi, Beena
Description: KHP LCS
Prep Date: 9/22/2021
Expiration Date: 3/21/2022

Department: WetChem
BatchNumber:
Concentration: 300 ppm
Final Volume: 1000 ml

ApprovedBy: [signature]
ApproveDate: 9/27/21
Checked: No

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 8322 | Potassium Hydrogen Phthalate | 300 mg | NEAT neat | |
| 14049 | DI H20 | | | |

# Veritech Standard Receipt Log

## Veritech Control/Receipt Number: 8322

Description: Potassium Hydrogen Phthalate

ApprovedBy:
ApproveDate:
Checked: No

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| Fisher | P243-500 | 132808A | 12/09/13 | 12/09/23 | Wonge, Janee | 1 | 500g | NEAT | NEAT |

## Veritech Control/Receipt Number: 14049

Description: DI H20

ApprovedBy: janee
ApproveDate: 07/08/21
Checked: Yes

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|---|---|---|---|---|---|---|---|---|---|
| EVOQUA | 1 | 1 | 07/01/21 | 07/01/22 | Wonge, Janee | 1 | | | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357686

Prepared By: Wonge, Janee
Description: 100 ppm IC Standard
Prep Date: 9/14/2021
Expiration Date: 9/14/2021

Department: WetChem
BatchNumber:
Concentration: 100 ppm
Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 13646 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 1 | 5 ml | 1000 ppm | 100 ppm |
| 13648 | 1000 PPM NO2 STD | 5 ml | 1000 ppm | 100 ppm |
| 14049 | DI H20 | | | |

## Veritech Lot Number: V-357687

Prepared By: Wonge, Janee
Description: 1 ppm IC Std
Prep Date: 9/14/2021
Expiration Date: 9/14/2021

Department: WetChem
BatchNumber: B-31598
Concentration: 1 ppm
Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-357686 | 100 ppm IC Standard | .5 ml | 100 ppm | 1 ppm |

## Veritech Lot Number: V-357688

Prepared By: Wonge, Janee
Description: 5 ppm IC Std
Prep Date: 9/14/2021
Expiration Date: 9/14/2021

Department: WetChem
BatchNumber: B-31598
Concentration: 5 ppm
Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-357686 | 100 ppm IC Standard | 2.5 ml | 100 ppm | 5 ppm |

## Veritech Lot Number: V-357689

Prepared By: Wonge, Janee
Description: 10 ppm IC Std
Prep Date: 9/14/2021
Expiration Date: 9/14/2021

Department: WetChem
BatchNumber: B-31598
Concentration: 10 ppm
Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-357686 | 100 ppm IC Standard | 5 ml | 100 ppm | 10 ppm |

## Veritech Lot Number: V-357690

Prepared By: Wonge, Janee
Description: 20 ppm IC Std
Prep Date: 9/14/2021
Expiration Date: 9/14/2021

Department: WetChem
BatchNumber: B-31598
Concentration: 20 ppm
Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-357686 | 100 ppm IC Standard | 10 ml | 100 ppm | 20 ppm |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357691

Prepared By: Wonge, Janee
Description: 50 ppm IC Std
Prep Date: 9/14/2021
Expiration Date: 9/14/2021

Department: WetChem
BatchNumber: B-31598
Concentration: 50 ppm
Final Volume: 50 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| V-357686 | 100 ppm IC Standard | 25 ml | 100 ppm | 50 ppm |

## Veritech Lot Number: V-357692

Prepared By: Wonge, Janee
Description: ICV/CCV
Prep Date: 9/14/2021
Expiration Date: 9/14/2021

Department: WetChem
BatchNumber: B-31598
Concentration: 10 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | 1 ml | 1000 ppm | 10 ppm |
| 14076 | 1000 ppm NO2 | 1 ml | 1000 ppm | 10 ppm |

## Veritech Lot Number: V-357693

Prepared By: Wonge, Janee
Description: LCS
Prep Date: 9/14/2021
Expiration Date: 9/14/2021

Department: WetChem
BatchNumber:
Concentration: 5 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | .5 ml | 1000 ppm | 5 ppm |
| 14076 | 1000 ppm NO2 | .5 ml | 1000 ppm | 5 ppm |

## Veritech Lot Number: V-357694

Prepared By: Wonge, Janee
Description: IC eluent
Prep Date: 9/14/2021
Expiration Date: 9/14/2021

Department: WetChem
BatchNumber:
Concentration: .009 m
Final Volume: 2000 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13891 | SODIUM CARBONATE,1.0 N | 36 ml | 1.0 n | |

## Veritech Lot Number: V-357695

Prepared By: Wonge, Janee
Description: ICV/CCV
Prep Date: 9/15/2021
Expiration Date: 9/15/2021

Department: WetChem
BatchNumber: B-31599
Concentration: 10 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | 1 ml | 1000 ppm | 10 ppm |
| 14076 | 1000 ppm NO2 | 1 ml | 1000 ppm | 10 ppm |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357696

Prepared By: Wonge, Janee
Description: LCS
Prep Date: 9/15/2021
Expiration Date: 9/15/2021

Department: WetChem
BatchNumber: B-31599
Concentration: 5 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | .5 ml | 1000 ppm | 5 ppm |
| 14076 | 1000 ppm NO2 | .5 ml | 1000 ppm | 5 ppm |

## Veritech Lot Number: V-357697

Prepared By: Wonge, Janee
Description: IC eluent
Prep Date: 9/15/2021
Expiration Date: 9/15/2021

Department: WetChem
BatchNumber: B-31599
Concentration: .009 m
Final Volume: 2000 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13891 | SODIUM CARBONATE,1.0 N | 36 ml | 1.0 n | |

## Veritech Lot Number: V-357698

Prepared By: Wonge, Janee
Description: ICV/CCV
Prep Date: 9/16/2021
Expiration Date: 9/16/2021

Department: WetChem
BatchNumber: B-31600
Concentration: 10 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | 1 ml | 1000 ppm | 10 ppm |
| 14076 | 1000 ppm NO2 | 1 ml | 1000 ppm | 10 ppm |

## Veritech Lot Number: V-357699

Prepared By: Wonge, Janee
Description: LCS
Prep Date: 9/16/2021
Expiration Date: 9/16/2021

Department: WetChem
BatchNumber: B-31600
Concentration: 5 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | .5 ml | 1000 ppm | 5 ppm |
| 14076 | 1000 ppm NO2 | .5 ml | 1000 ppm | 5 ppm |

## Veritech Lot Number: V-357700

Prepared By: Wonge, Janee
Description: IC eluent
Prep Date: 9/16/2021
Expiration Date: 9/16/2021

Department: WetChem
BatchNumber: B-31600
Concentration: .009 m
Final Volume: 2000 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13891 | SODIUM CARBONATE,1.0 N | 36 ml | 1.0 n | |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357701

Prepared By: Wonge, Janee
Description: ICV/CCV
Prep Date: 9/17/2021
Expiration Date: 9/17/2021

Department: WetChem
BatchNumber: B-31601
Concentration: 10 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | 1 ml | 1000 ppm | 10 ppm |
| 14076 | 1000 ppm NO2 | 1 ml | 1000 ppm | 10 ppm |

## Veritech Lot Number: V-357702

Prepared By: Wonge, Janee
Description: LCS
Prep Date: 9/17/2021
Expiration Date: 9/17/2021

Department: WetChem
BatchNumber: B-31601
Concentration: 5 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | .5 ml | 1000 ppm | 5 ppm |
| 14076 | 1000 ppm NO2 | .5 ml | 1000 ppm | 5 ppm |

## Veritech Lot Number: V-357703

Prepared By: Wonge, Janee
Description: IC eluent
Prep Date: 9/17/2021
Expiration Date: 9/17/2021

Department: WetChem
BatchNumber: B-31601
Concentration: .009 m
Final Volume: 2000 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13891 | SODIUM CARBONATE,1.0 N | 36 ml | 1.0 n | |

## Veritech Lot Number: V-357947

Prepared By: Wonge, Janee
Description: ICV/CCV
Prep Date: 9/21/2021
Expiration Date: 9/21/2021

Department: WetChem
BatchNumber: B-31621
Concentration: 10 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | 1 ml | 1000 ppm | 10 ppm |
| 14076 | 1000 ppm NO2 | 1 ml | 1000 ppm | 10 ppm |

## Veritech Lot Number: V-357948

Prepared By: Wonge, Janee
Description: LCS
Prep Date: 9/21/2021
Expiration Date: 9/21/2021

Department: WetChem
BatchNumber: B-31621
Concentration: 5 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | .5 ml | 1000 ppm | 5 ppm |
| 14076 | 1000 ppm NO2 | .5 ml | 1000 ppm | 5 ppm |

# Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357949

Prepared By: Wonge, Janee
Description: IC eluent
Prep Date: 9/21/2021
Expiration Date: 9/21/2021

Department: WetChem
BatchNumber: B-31621
Concentration: .009 m
Final Volume: 2000 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13891 | SODIUM CARBONATE,1.0 N | 36 ml | 1.0 n | |

## Veritech Lot Number: V-357950

Prepared By: Wonge, Janee
Description: ICV/CCV
Prep Date: 9/22/2021
Expiration Date: 9/22/2021

Department: WetChem
BatchNumber: B-31622
Concentration: 10 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | 1 ml | 1000 ppm | 10 ppm |
| 14076 | 1000 ppm NO2 | 1 ml | 1000 ppm | 10 ppm |

## Veritech Lot Number: V-357951

Prepared By: Wonge, Janee
Description: LCS
Prep Date: 9/22/2021
Expiration Date: 9/22/2021

Department: WetChem
BatchNumber: B-31622
Concentration: 5 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | .5 ml | 1000 ppm | 5 ppm |
| 14076 | 1000 ppm NO2 | .5 ml | 1000 ppm | 5 ppm |

## Veritech Lot Number: V-357952

Prepared By: Wonge, Janee
Description: IC eluent
Prep Date: 9/22/2021
Expiration Date: 9/22/2021

Department: WetChem
BatchNumber: B-31622
Concentration: .009 m
Final Volume: 2000 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13891 | SODIUM CARBONATE,1.0 N | 36 ml | 1.0 n | |

## Veritech Lot Number: V-357953

Prepared By: Wonge, Janee
Description: ICV/CCV
Prep Date: 9/23/2021
Expiration Date: 9/23/2021

Department: WetChem
BatchNumber: B-31623
Concentration: 10 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | 1 ml | 1000 ppm | 10 ppm |
| 14076 | 1000 ppm NO2 | 1 ml | 1000 ppm | 10 ppm |

Veritech Internally Prepared Standard Log

## Veritech Lot Number: V-357954

Prepared By: Wonge, Janee
Description: LCS
Prep Date: 9/23/2021
Expiration Date: 9/23/2021

Department: WetChem
BatchNumber: B-31623
Concentration: 5 ppm
Final Volume: 100 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13647 | 1000 PPM CUSTOM ANIONS MIX-SOURCE 2 | .5 ml | 1000 ppm | 5 ppm |
| 14076 | 1000 ppm NO2 | .5 ml | 1000 ppm | 5 ppm |

## Veritech Lot Number: V-357955

Prepared By: Wonge, Janee
Description: IC eluent
Prep Date: 9/23/2021
Expiration Date: 9/23/2021

Department: WetChem
BatchNumber: B-31623
Concentration: .009 m
Final Volume: 2000 ml

| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
|---|---|---|---|---|
| 14049 | DI H20 | | | |
| 13891 | SODIUM CARBONATE,1.0 N | 36 ml | 1.0 n | |

# RUN LOG

Instrument: DA1 BatchId: 202109271322 Analyzed By: jw

| Run# | Qc Type | Sample ID | Flag summary: | Comments | An Date/Time: | Dil | Prep Batch | Method Blank |
|---|---|---|---|---|---|---|---|---|
| 1 | ICS | STANDARD 1 | | .g | 09/27/21 13:22 | 1 | | |
| 2 | ICS | STANDARD 90 | | .g V-358091 | 09/27/21 13:25 | 1 | | |
| 3 | ICS | STANDARD 91 | | .g V-358091 | 09/27/21 13:27 | 1 | | |
| 4 | ICS | STANDARD 92 | | .g V-358091 | 09/27/21 13:29 | 1 | | |
| 5 | ICS | STANDARD 93 | | .g V-358091 | 09/27/21 13:32 | 1 | | |
| 6 | ICS | STANDARD 94 | | .g V-358091 | 09/27/21 13:34 | 1 | | |
| 7 | ICS | STANDARD 95 | | .g V-358091 | 09/27/21 13:36 | 1 | | |
| 8 | ICS | STANDARD 0 | | .g | 09/27/21 13:39 | 1 | | |
| 9 | ICV | CCV | | .g V-358090 | 09/27/21 13:41 | 1 | | |
| 10 | ICB | CCB | | .g | 09/27/21 13:43 | 1 | | |
| 11 | MB | MBW-1578 | | .g | 09/27/21 13:46 | 1 | W-1578 | MBW-1578 |
| 12 | LCS | LCSW-1578 | | .g | 09/27/21 13:48 | 1 | W-1578 | MBW-1578 |
| 13 | LCS | LCSW-1578 DUP | | .g | 09/27/21 13:50 | 1 | W-1578 | MBW-1578 |
| 14 | SMP | AD26146-001 | | .g | 09/27/21 13:53 | 1 | W-1578 | MBW-1578 |
| 15 | DUP | AD26146-001 DUP | | .g | 09/27/21 13:55 | 1 | W-1578 | MBW-1578 |
| 16 | MS | AD26146-001 MS | | .g | 09/27/21 13:57 | 1 | W-1578 | MBW-1578 |
| 17 | MSD | AD26146-001 MSD | | .g | 09/27/21 14:00 | 1 | W-1578 | MBW-1578 |
| 18 | SMP | AD26148-001 | | .g | 09/27/21 14:02 | 1 | W-1578 | MBW-1578 |
| 19 | SMP | AD26218-001 | | .g | 09/27/21 14:04 | 1 | W-1578 | MBW-1578 |
| 20 | SMP | AD26218-002 | | .g | 09/27/21 14:07 | 1 | W-1578 | MBW-1578 |
| 21 | CCV | CCV | | .g V-358090 | 09/27/21 14:09 | 1 | | |
| 22 | CCB | CCB | | .g | 09/27/21 14:11 | 1 | | |
| 23 | SMP | AD26218-003 | | .g | 09/27/21 14:14 | 1 | W-1578 | MBW-1578 |
| 24 | SMP | AD26218-004 | | .g | 09/27/21 14:16 | 1 | W-1578 | MBW-1578 |
| 25 | SMP | AD26218-005 | | .g | 09/27/21 14:18 | 1 | W-1578 | MBW-1578 |
| 26 | SMP | AD26218-006 | | .g | 09/27/21 14:21 | 1 | W-1578 | MBW-1578 |
| 27 | SMP | AD26218-007 | | .g | 09/27/21 14:23 | 1 | W-1578 | MBW-1578 |
| 28 | SMP | AD26218-008 | | .g | 09/27/21 14:25 | 1 | W-1578 | MBW-1578 |
| 29 | SMP | AD26218-009 | | .g | 09/27/21 14:28 | 1 | W-1578 | MBW-1578 |
| 30 | SMP | AD26218-011 | | .g | 09/27/21 14:30 | 1 | W-1578 | MBW-1578 |
| 31 | SMP | AD26083-019 | | .g | 09/27/21 14:32 | 1 | W-1578 | MBW-1578 |
| 32 | SMP | AD26185-001 | | .g | 09/27/21 14:35 | 1 | W-1578 | MBW-1578 |
| 33 | CCV | CCV | | .g V-358090 | 09/27/21 14:37 | 1 | | |
| 34 | CCB | CCB | | .g | 09/27/21 14:39 | 1 | | |
| 35 | SMP | AD26228-001 | | .g | 09/27/21 14:42 | 1 | W-1578 | MBW-1578 |
| 36 | SMP | AD26228-002 | | .g | 09/27/21 14:44 | 1 | W-1578 | MBW-1578 |
| 37 | SMP | AD26228-003 | | .g | 09/27/21 14:46 | 1 | W-1578 | MBW-1578 |
| 38 | SMP | AD26228-004 | | .g | 09/27/21 14:48 | 1 | W-1578 | MBW-1578 |
| 39 | SMP | AD26228-005 | | .g | 09/27/21 14:49 | 1 | W-1578 | MBW-1578 |
| 40 | | MDL Q3 3 | | .reprep | 09/27/21 14:51 | 1 | | |
| 41 | CCV | CCV | | .g V-358090 | 09/27/21 14:53 | 1 | | |
| 42 | CCB | CCB | | .g | 09/27/21 14:54 | 1 | | |

| Flag Code: | Flag Code Description | Flag Code: | Flag Code Description |
|---|---|---|---|
| Cs | CCV Out epa9056 | Cw | CCV out 300.0 rev2.1 |
| Ho | Hold Time Exceeded | I1 | Init Cal x and y value problem |
| I2 | Init Cal missing a data point | I3 | Init Cal missing a Compound |
| I4 | Init Cal Rsd < .995 | Is | ICV out epa 9056 |
| Iw | ICV Out 300.0 rev2.1 | Ls | LCS Out EPA 9056 |
| Lw | LCS Out 300.0 rev2.1 | Ms | Spike Out EPA 9056 |
| Mw | Spike Out EPA 300.0 REV2.1 | Oc | Over Calibration/Linear Range |

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Logo

# AQ-2 Report

| | |
|---|---|
| **Serial Number:** | 090817 |
| **Report Requested By:** | Janee |
| **Date & Time:** | Mon Sep 27 16:00:03 2021 |
| **Tray Number:** | 65 |
| **Tray Name:** | CNW-1578 |

## Worklist

| Cup | Type | ID | Details | Tests |
|---|---|---|---|---|
| 2 | U1 | MBW-1578 | | tCN-m |
| 3 | U2 | LCSW-1578 | | tCN-m |
| 4 | U3 | LCSW-1578 DUP | | tCN-m |
| 5 | U4 | AD26146-001 | | tCN-m |
| 6 | U5 | AD26146-001 DUP | | tCN-m |
| 7 | U6 | AD26146-001 MS | | tCN-m |
| 8 | U7 | AD26146-001 MSD | | tCN-m |
| 9 | U8 | AD26148-001 | | tCN-m |
| 10 | U9 | AD26218-001 | | tCN-m |
| 11 | U10 | AD26218-002 | | tCN-m |
| 12 | U11 | AD26218-003 | | tCN-m |
| 13 | U12 | AD26218-004 | | tCN-m |
| 14 | U13 | AD26218-005 | | tCN-m |
| 15 | U14 | AD26218-006 | | tCN-m |
| 16 | U15 | AD26218-007 | | tCN-m |
| 17 | U16 | AD26218-008 | | tCN-m |
| 18 | U17 | AD26218-009 | | tCN-m |
| 19 | U18 | AD26218-011 | | tCN-m |
| 20 | U19 | AD26083-019 | | tCN-m |
| 21 | U20 | AD26185-001 | | tCN-m |
| 22 | U21 | AD26228-001 | | tCN-m |
| 23 | U22 | AD26228-002 | | tCN-m |
| 24 | U23 | AD26228-003 | | tCN-m |
| 25 | U24 | AD26228-004 | | tCN-m |
| 26 | U25 | AD26228-005 | | tCN-m |
| 27 | U26 | MDL Q3 3 | | tCN-m |

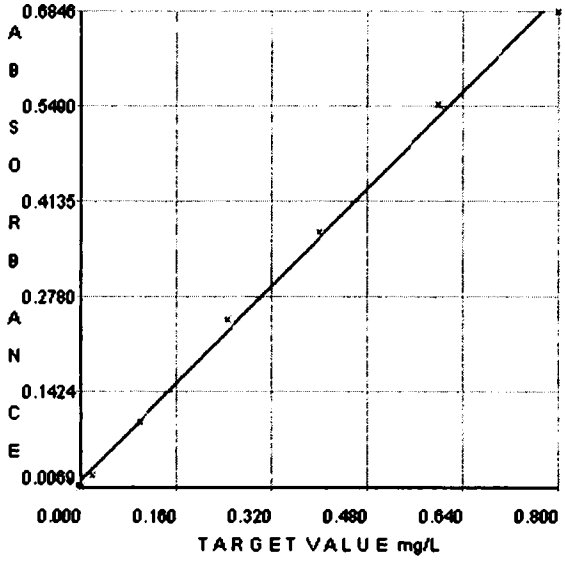
## AQ2 tCN mod

### Calibration Chart

| Type | Observed | Calculated | Target | % Error |
|---|---|---|---|---|
| S1 | 0.0069 | -0.0085 | 0.0000 | |
| S90 | 0.0219 | 0.0088 | 0.0200 | -56.14 |
| S91 | 0.0978 | 0.0965 | 0.1000 | -3.51 |
| S92 | 0.2446 | 0.2661 | 0.2480 | 7.31 |
| S93 | 0.3688 | 0.4097 | 0.4000 | 2.42 |
| S94 | 0.5515 | 0.6208 | 0.6000 | 3.47 |
| S95 | 0.6846 | 0.7746 | 0.8000 | -3.17 |
| S0 | 0.0016 | -0.0147 | 0.0000 | |

| | |
|---|---|
| Polynomial Order: | 1 |
| Correlation Coefficient: | 0.9985 |
| Carryover(%): | -0.8 |
| Calibration Equation: | y = bx + a |
| y =: | Concentration mg/L |
| x =: | Measured Absorbance |
| a =: | -1.652501E-002 |
| b =: | 1.155698E+000 |
| Date & Time: | Mon Sep 27 13:39:15 2021 |

### Calibration Graph



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## Reagents

| Name | Batch | Prepared By | Expiry Date |
|---|---|---|---|
| tCN Neutral | V-357085 | JW | Fri Oct 08 22:00:00 2021 |
| tCN Chlor T | V-358092 | LL | Tue Sep 28 22:00:00 2021 |
| tCN Pyr Barb | V-357598 | JW | Mon Sep 27 22:00:00 2021 |

| Cup | Type | ID | Result | Units | Raw Data | Test Dil. | Cup Dil. | User | Time/Date |
|---|---|---|---|---|---|---|---|---|---|
| | S1 | STANDARD 1 | 0.0069 | | 0.006906 | | | jw | Mon Sep 27 13:22:53 2021 |
| | S90 | STANDARD 90 | 0.0219 | | 0.021889 | | | jw | Mon Sep 27 13:25:14 2021 |
| | S91 | STANDARD 91 | 0.0978 | | 0.097793 | | | jw | Mon Sep 27 13:27:35 2021 |
| | S92 | STANDARD 92 | 0.2446 | | 0.244581 | | | jw | Mon Sep 27 13:29:55 2021 |
| | S93 | STANDARD 93 | 0.3688 | | 0.368773 | | | jw | Mon Sep 27 13:32:16 2021 |
| | S94 | STANDARD 94 | 0.5515 | | 0.551505 | | | jw | Mon Sep 27 13:34:35 2021 |
| | S95 | STANDARD 95 | 0.6846 | | 0.684566 | | | jw | Mon Sep 27 13:36:55 2021 |
| | S0 | STANDARD 0 | 0.0016 | | 0.001593 | | | jw | Mon Sep 27 13:39:15 2021 |
| | C11 | C C V | 0.4183 | mg/L | 0.376248 | | | jw | Mon Sep 27 13:41:35 2021 |
| | C12 | C C B | -0.0243 | mg/L | -0.006684 | | | jw | Mon Sep 27 13:43:54 2021 |
| 2 | U1 | MBW-1578 | -0.0164 | mg/L | 0.000081 | | | jw | Mon Sep 27 13:46:14 2021 |
| 3 | U2 | LCSW-1578 | 0.3843 | mg/L | 0.346846 | | | jw | Mon Sep 27 13:48:33 2021 |
| 4 | U3 | LCSW-1578 DUP | 0.3811 | mg/L | 0.344065 | | | jw | Mon Sep 27 13:50:52 2021 |
| 5 | U4 | AD26146-001 | -0.0067 | mg/L | 0.008534 | | | jw | Mon Sep 27 13:53:11 2021 |
| 6 | U5 | AD26146-001 DUP | 0.0063 | mg/L | 0.019710 | | | jw | Mon Sep 27 13:55:33 2021 |
| 7 | U6 | AD26146-001 MS | 0.3686 | mg/L | 0.333261 | | | jw | Mon Sep 27 13:57:53 2021 |
| 8 | U7 | AD26146-001 MSD | 0.3592 | mg/L | 0.325068 | | | jw | Mon Sep 27 14:00:12 2021 |
| 9 | U8 | AD26148-001 | -0.0111 | mg/L | 0.004682 | | | jw | Mon Sep 27 14:02:32 2021 |
| 10 | U9 | AD26218-001 | 0.0187 | mg/L | 0.030482 | | | jw | Mon Sep 27 14:04:51 2021 |
| 11 | U10 | AD26218-002 | 0.0193 | mg/L | 0.030997 | | | jw | Mon Sep 27 14:07:10 2021 |
| | C11 | C C V | 0.4181 | mg/L | 0.376109 | | | jw | Mon Sep 27 14:09:29 2021 |
| | C12 | C C B | 0.0014 | mg/L | 0.015468 | | | jw | Mon Sep 27 14:11:47 2021 |
| 12 | U11 | AD26218-003 | 0.0037 | mg/L | 0.017537 | | | jw | Mon Sep 27 14:14:07 2021 |
| 13 | U12 | AD26218-004 | 0.0055 | mg/L | 0.019028 | | | jw | Mon Sep 27 14:16:26 2021 |
| 14 | U13 | AD26218-005 | 0.0115 | mg/L | 0.024287 | | | jw | Mon Sep 27 14:18:45 2021 |
| 15 | U14 | AD26218-006 | 0.0006 | mg/L | 0.014844 | | | jw | Mon Sep 27 14:21:04 2021 |
| 16 | U15 | AD26218-007 | -0.0016 | mg/L | 0.012921 | | | jw | Mon Sep 27 14:23:25 2021 |
| 17 | U16 | AD26218-008 | 0.0021 | mg/L | 0.016127 | | | jw | Mon Sep 27 14:25:46 2021 |
| 18 | U17 | AD26218-009 | -0.0110 | mg/L | 0.004799 | | | jw | Mon Sep 27 14:28:05 2021 |
| 19 | U18 | AD26218-011 | -0.0007 | mg/L | 0.013692 | | | jw | Mon Sep 27 14:30:24 2021 |
| 20 | U19 | AD26083-019 | -0.0176 | mg/L | -0.000963 | | | jw | Mon Sep 27 14:32:44 2021 |
| 21 | U20 | AD26185-001 | 0.0065 | mg/L | 0.019934 | | | jw | Mon Sep 27 14:35:03 2021 |
| | C11 | C C V | 0.4502 | mg/L | 0.403827 | | | jw | Mon Sep 27 14:37:23 2021 |
| | C12 | C C B | -0.0068 | mg/L | 0.008449 | | | jw | Mon Sep 27 14:39:42 2021 |
| 22 | U21 | AD26228-001 | 0.0101 | mg/L | 0.023064 | | | jw | Mon Sep 27 14:42:04 2021 |
| 23 | U22 | AD26228-002 | 0.0170 | mg/L | 0.029009 | | | jw | Mon Sep 27 14:44:25 2021 |
| 24 | U23 | AD26228-003 | 0.0163 | mg/L | 0.028446 | | | jw | Mon Sep 27 14:46:21 2021 |
| 25 | U24 | AD26228-004 | 0.0032 | mg/L | 0.017062 | | | jw | Mon Sep 27 14:48:13 2021 |
| 26 | U25 | AD26228-005 | -0.0046 | mg/L | 0.010326 | | | jw | Mon Sep 27 14:49:54 2021 |
| 27 | U26 | MDL Q3 3 | 0.0197 | mg/L | 0.031344 | | | jw | Mon Sep 27 14:51:35 2021 |
| | C11 | C C V | 0.4297 | mg/L | 0.386110 | | | jw | Mon Sep 27 14:53:17 2021 |
| | C12 | C C B | -0.0234 | mg/L | -0.005909 | | | jw | Mon Sep 27 14:54:59 2021 |

# RUN LOG

Instrument: DA1 BatchId: 202109201146 Analyzed By: jw

| Run# | Qc Type | Sample ID | Flag summary: | Comments | An Date/Time: | Dil | Prep Batch | Method Blank |
|---|---|---|---|---|---|---|---|---|
| 1 | ICS | STANDARD 1 | | .g | 09/20/21 11:46 | 1 | | |
| 2 | ICS | STANDARD 90 | | .g V-357595 | 09/20/21 11:48 | 1 | | |
| 3 | ICS | STANDARD 91 | | .g V-357595 | 09/20/21 11:50 | 1 | | |
| 4 | ICS | STANDARD 92 | | .g V-357595 | 09/20/21 11:53 | 1 | | |
| 5 | ICS | STANDARD 93 | | .g V-357595 | 09/20/21 11:55 | 1 | | |
| 6 | ICS | STANDARD 94 | | .g V-357595 | 09/20/21 11:57 | 1 | | |
| 7 | ICS | STANDARD 95 | | .g V-357595 | 09/20/21 12:00 | 1 | | |
| 8 | ICS | STANDARD 0 | | .g | 09/20/21 12:02 | 1 | | |
| 9 | ICV | CCV | | .g V-357596 | 09/20/21 12:04 | 1 | | |
| 10 | ICB | CCB | | .g | 09/20/21 12:23 | 1 | | |
| 11 | MB | MBW-1576 | | .g | 09/20/21 12:26 | 1 | W-1576 | MBW-1576 |
| 12 | LCS | LCSW-1576 | | .g | 09/20/21 12:28 | 1 | W-1576 | MBW-1576 |
| 13 | LCS | LCSW-1576 DUP | | .g | 09/20/21 12:30 | 1 | W-1576 | MBW-1576 |
| 14 | smp | AD26083-040 | | .g | 09/20/21 12:33 | 1 | W-1576 | MBW-1576 |
| 15 | DUP | AD26083-040 DUP | | .g | 09/20/21 12:35 | 1 | W-1576 | MBW-1576 |
| 16 | MS | AD26083-042 MS | | .g | 09/20/21 12:37 | 1 | W-1576 | MBW-1576 |
| 17 | MSD | AD26083-044 MSD | | .g | 09/20/21 12:40 | 1 | W-1576 | MBW-1576 |
| 18 | SMP | AD25969-005 | | .g | 09/20/21 12:42 | 1 | W-1576 | MBW-1576 |
| 19 | SMP | AD25969-006 | | .g | 09/20/21 12:44 | 1 | W-1576 | MBW-1576 |
| 20 | SMP | AD26063-001 | | .g | 09/20/21 12:47 | 1 | W-1576 | MBW-1576 |
| 21 | CCV | CCV | | .g V-357596 | 09/20/21 12:49 | 1 | | |
| 22 | CCB | CCB | | .g | 09/20/21 12:51 | 1 | | |
| 23 | SMP | AD25979-001 | | .g | 09/20/21 12:54 | 1 | W-1576 | MBW-1576 |
| 24 | SMP | AD25979-003 | | .g | 09/20/21 12:56 | 1 | W-1576 | MBW-1576 |
| 25 | SMP | AD26045-002 | | .g | 09/20/21 12:58 | 1 | W-1576 | MBW-1576 |
| 26 | SMP | AD26045-004 | | .g | 09/20/21 13:01 | 1 | W-1576 | MBW-1576 |
| 27 | SMP | AD26059-004 | | .g | 09/20/21 13:03 | 1 | W-1576 | MBW-1576 |
| 28 | SMP | AD26059-006 | | .g | 09/20/21 13:05 | 1 | W-1576 | MBW-1576 |
| 29 | SMP | AD26077-023 | | .g | 09/20/21 13:08 | 1 | W-1576 | MBW-1576 |
| 30 | SMP | AD26077-024 | | .g | 09/20/21 13:10 | 1 | W-1576 | MBW-1576 |
| 31 | SMP | AD26077-025 | | .g | 09/20/21 13:12 | 1 | W-1576 | MBW-1576 |
| 32 | SMP | AD26083-001 | | .g | 09/20/21 13:15 | 1 | W-1576 | MBW-1576 |
| 33 | CCV | CCV | | .g V-357596 | 09/20/21 13:17 | 1 | | |
| 34 | CCB | CCB | | .g | 09/20/21 13:19 | 1 | | |
| 35 | SMP | AD26083-002 | | .g | 09/20/21 13:22 | 1 | W-1576 | MBW-1576 |
| 36 | SMP | AD26083-003 | | .g | 09/20/21 13:24 | 1 | W-1576 | MBW-1576 |
| 37 | SMP | AD26083-005 | | .g | 09/20/21 13:26 | 1 | W-1576 | MBW-1576 |
| 38 | SMP | AD26083-008 | | .g | 09/20/21 13:28 | 1 | W-1576 | MBW-1576 |
| 39 | SMP | AD26083-009 | | .g | 09/20/21 13:29 | 1 | W-1576 | MBW-1576 |
| 40 | SMP | AD26083-011 | | .g | 09/20/21 13:31 | 1 | W-1576 | MBW-1576 |
| 41 | CCV | CCV | | .g V-357596 | 09/20/21 13:33 | 1 | | |
| 42 | CCB | CCB | | .g | 09/20/21 13:35 | 1 | | |

| Flag Code: | Flag Code Description |
|---|---|
| Cs | CCV Out epa9056 |
| Ho | Hold Time Exceeded |
| I2 | Init Cal missing a data point |
| I4 | Init Cal Rsd < .995 |
| Iw | ICV Out 300.0 rev2.1 |
| Lw | LCS Out 300.0 rev2.1 |
| Mw | Spike Out EPA 300.0 REV2.1 |

| Flag Code: | Flag Code Description |
|---|---|
| Cw | CCV out 300.0 rev2.1 |
| I1 | Init Cal x and y value problem |
| I3 | Init Cal missing a Compound |
| Is | ICV out epa 9056 |
| Ls | LCS Out EPA 9056 |
| Ms | Spike Out EPA 9056 |
| Oc | Over Calibration/Linear Range |

Logo

# AQ-2 Report

| | |
|---|---|
| **Serial Number:** | 090817 |
| **Report Requested By:** | Janee |
| **Date & Time:** | Tue Sep 21 09:38:04 2021 |
| **Tray Number:** | 58 |
| **Tray Name:** | CNW-1576 |

## Worklist

| Cup | Type | ID | Details | Tests |
|---|---|---|---|---|
| 2 | U1 | MBW-1576 | | tCN-m |
| 3 | U2 | LCSW-1576 | | tCN-m |
| 4 | U3 | LCSW-1576 DUP | | tCN-m |
| 5 | U4 | AD26083-040 | | tCN-m |
| 6 | U5 | AD26083-040 DUP | | tCN-m |
| 7 | U6 | AD26083-042 MS | | tCN-m |
| 8 | U7 | AD26083-044 MSD | | tCN-m |
| 9 | U8 | AD25969-005 | | tCN-m |
| 10 | U9 | AD25969-006 | | tCN-m |
| 11 | U10 | AD26063-001 | | tCN-m |
| 12 | U11 | AD25979-001 | | tCN-m |
| 13 | U12 | AD25979-003 | | tCN-m |
| 14 | U13 | AD26045-002 | | tCN-m |
| 15 | U14 | AD26045-004 | | tCN-m |
| 16 | U15 | AD26059-004 | | tCN-m |
| 17 | U16 | AD26059-006 | | tCN-m |
| 18 | U17 | AD26077-023 | | tCN-m |
| 19 | U18 | AD26077-024 | | tCN-m |
| 20 | U19 | AD26077-025 | | tCN-m |
| 21 | U20 | AD26083-001 | | tCN-m |
| 22 | U21 | AD26083-002 | | tCN-m |
| 23 | U22 | AD26083-003 | | tCN-m |
| 24 | U23 | AD26083-005 | | tCN-m |
| 25 | U24 | AD26083-008 | | tCN-m |
| 26 | U25 | AD26083-009 | | tCN-m |
| 27 | U26 | AD26083-011 | | tCN-m |

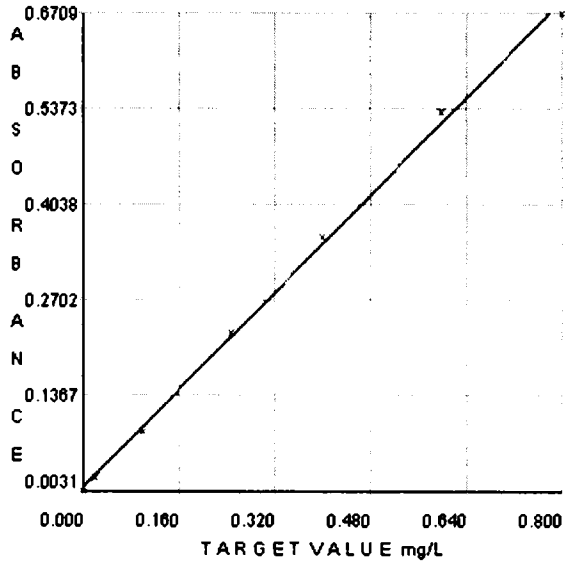
## AQ2 tCN mod

### Calibration Chart

| Type | Observed | Calculated | Target | % Error |
|---|---|---|---|---|
| S1 | 0.0031 | -0.0061 | 0.0000 | |
| S90 | 0.0229 | 0.0172 | 0.0200 | -13.99 |
| S91 | 0.0868 | 0.0924 | 0.1000 | -7.56 |
| S92 | 0.2251 | 0.2553 | 0.2480 | 2.92 |
| S93 | 0.3588 | 0.4127 | 0.4000 | 3.16 |
| S94 | 0.5319 | 0.6164 | 0.6000 | 2.74 |
| S95 | 0.6709 | 0.7801 | 0.8000 | -2.49 |
| S0 | 0.0055 | -0.0033 | 0.0000 | |

| | |
|---|---|
| Polynomial Order: | 1 |
| Correlation Coefficient: | 0.9991 |
| Carryover(%): | 0.4 |
| Calibration Equation: | y = bx + a |
| y = : | Concentration mg/L |
| x = : | Measured Absorbance |
| a = : | -9.776451E-003 |
| b = : | 1.177359E+000 |
| Date & Time: | Mon Sep 20 12:02:33 2021 |

### Calibration Graph




9127121

## Reagents

| Name | Batch | Prepared By | Expiry Date |
|---|---|---|---|
| tCN Neutral | V-357085 | JW | Fri Oct 08 22:00:00 2021 |
| tCN Chlor T | V-357597 | LL | Tue Sep 21 22:00:00 2021 |
| tCN Pyr Barb | V-357598 | JW | Mon Sep 27 22:00:00 2021 |

| Cup | Type | ID | Result | Units | Raw Data | Test Dil. | Cup Dil. | User | Time/Date |
|---|---|---|---|---|---|---|---|---|---|
| | S1 | STANDARD 1 | 0.0031 | | 0.003119 | | | jw | Mon Sep 20 11:46:15 2021 |
| | S90 | STANDARD 90 | 0.0229 | | 0.022914 | | | jw | Mon Sep 20 11:48:36 2021 |
| | S91 | STANDARD 91 | 0.0868 | | 0.086823 | | | jw | Mon Sep 20 11:50:57 2021 |
| | S92 | STANDARD 92 | 0.2251 | | 0.225106 | | | jw | Mon Sep 20 11:53:17 2021 |
| | S93 | STANDARD 93 | 0.3588 | | 0.358794 | | | jw | Mon Sep 20 11:55:36 2021 |
| | S94 | STANDARD 94 | 0.5319 | | 0.531890 | | | jw | Mon Sep 20 11:57:55 2021 |
| | S95 | STANDARD 95 | 0.6709 | | 0.670891 | | | jw | Mon Sep 20 12:00:14 2021 |
| | S0 | STANDARD 0 | 0.0055 | | 0.005478 | | | jw | Mon Sep 20 12:02:33 2021 |
| | C11 | C C V | 0.3855 | mg/L | 0.335753 | | | jw | Mon Sep 20 12:04:50 2021 |
| | C12 | C C B | 0.0043 | mg/L | 0.011970 | | | jw | Mon Sep 20 12:23:48 2021 |
| 2 | U1 | MBW-1576 | -0.0020 | mg/L | 0.006585 | | | jw | Mon Sep 20 12:26:07 2021 |
| 3 | U2 | LCSW-1576 | 0.3592 | mg/L | 0.313408 | | | jw | Mon Sep 20 12:28:27 2021 |
| 4 | U3 | LCSW-1576 DUP | 0.3499 | mg/L | 0.305516 | | | jw | Mon Sep 20 12:30:46 2021 |
| 5 | U4 | AD26083-040 | 0.0018 | mg/L | 0.009823 | | | jw | Mon Sep 20 12:33:06 2021 |
| 6 | U5 | AD26083-040 DUP | 0.0062 | mg/L | 0.013593 | | | jw | Mon Sep 20 12:35:27 2021 |
| 7 | U6 | AD26083-042 MS | 0.3259 | mg/L | 0.285114 | | | jw | Mon Sep 20 12:37:48 2021 |
| 8 | U7 | AD26083-044 MSD | 0.3628 | mg/L | 0.316413 | | | jw | Mon Sep 20 12:40:08 2021 |
| 9 | U8 | AD25969-005 | -0.0350 | mg/L | -0.021422 | | | jw | Mon Sep 20 12:42:28 2021 |
| 10 | U9 | AD25969-006 | 0.0148 | mg/L | 0.020883 | | | jw | Mon Sep 20 12:44:48 2021 |
| 11 | U10 | AD26063-001 | 0.0246 | mg/L | 0.029185 | | | jw | Mon Sep 20 12:47:08 2021 |
| | C11 | C C V | 0.3943 | mg/L | 0.343199 | | | jw | Mon Sep 20 12:49:28 2021 |
| | C12 | C C B | -0.0312 | mg/L | -0.018234 | | | jw | Mon Sep 20 12:51:48 2021 |
| 12 | U11 | AD25979-001 | 0.0092 | mg/L | 0.016154 | | | jw | Mon Sep 20 12:54:08 2021 |
| 13 | U12 | AD25979-003 | -0.0093 | mg/L | 0.000431 | | | jw | Mon Sep 20 12:56:28 2021 |
| 14 | U13 | AD26045-002 | 0.0037 | mg/L | 0.011444 | | | jw | Mon Sep 20 12:58:48 2021 |
| 15 | U14 | AD26045-004 | -0.0017 | mg/L | 0.006888 | | | jw | Mon Sep 20 13:01:07 2021 |
| 16 | U15 | AD26059-004 | 0.1340 | mg/L | 0.122109 | | | jw | Mon Sep 20 13:03:29 2021 |
| 17 | U16 | AD26059-006 | 0.1349 | mg/L | 0.122849 | | | jw | Mon Sep 20 13:05:49 2021 |
| 18 | U17 | AD26077-023 | -0.0003 | mg/L | 0.008041 | | | jw | Mon Sep 20 13:08:09 2021 |
| 19 | U18 | AD26077-024 | 0.0203 | mg/L | 0.025537 | | | jw | Mon Sep 20 13:10:28 2021 |
| 20 | U19 | AD26077-025 | -0.0160 | mg/L | -0.005315 | | | jw | Mon Sep 20 13:12:48 2021 |
| 21 | U20 | AD26083-001 | 0.0122 | mg/L | 0.018675 | | | jw | Mon Sep 20 13:15:07 2021 |
| | C11 | C C V | 0.3702 | mg/L | 0.322731 | | | jw | Mon Sep 20 13:17:26 2021 |
| | C12 | C C B | 0.0021 | mg/L | 0.010076 | | | jw | Mon Sep 20 13:19:45 2021 |
| 22 | U21 | AD26083-002 | -0.0084 | mg/L | 0.001162 | | | jw | Mon Sep 20 13:22:07 2021 |
| 23 | U22 | AD26083-003 | -0.0122 | mg/L | -0.002065 | | | jw | Mon Sep 20 13:24:28 2021 |
| 24 | U23 | AD26083-005 | -0.0277 | mg/L | -0.015195 | | | jw | Mon Sep 20 13:26:24 2021 |
| 25 | U24 | AD26083-008 | -0.0108 | mg/L | -0.000895 | | | jw | Mon Sep 20 13:28:16 2021 |
| 26 | U25 | AD26083-009 | -0.0033 | mg/L | 0.005461 | | | jw | Mon Sep 20 13:29:57 2021 |
| 27 | U26 | AD26083-011 | 0.0095 | mg/L | 0.016412 | | | jw | Mon Sep 20 13:31:39 2021 |
| | C11 | C C V | 0.3784 | mg/L | 0.329703 | | | jw | Mon Sep 20 13:33:20 2021 |
| | C12 | C C B | -0.0116 | mg/L | -0.001576 | | | jw | Mon Sep 20 13:35:02 2021 |

# RUN LOG

Instrument: DA1 BatchId: 202109201605 Analyzed By: jw

| Run# | Qc Type | Sample ID | Flag summary: | Comments | An Date/Time: | Dil | Prep Batch | Method Blank |
|---|---|---|---|---|---|---|---|---|
| 1 | ICS | STANDARD 1 | | .g | 09/20/21 16:05 | 1 | | |
| 2 | ICS | STANDARD 90 | | .g V-357599 | 09/20/21 16:07 | 1 | | |
| 3 | ICS | STANDARD 91 | | .g V-357599 | 09/20/21 16:09 | 1 | | |
| 4 | ICS | STANDARD 92 | | .g V-357599 | 09/20/21 16:12 | 1 | | |
| 5 | ICS | STANDARD 93 | | .g V-357599 | 09/20/21 16:14 | 1 | | |
| 6 | ICS | STANDARD 94 | | .g V-357599 | 09/20/21 16:16 | 1 | | |
| 7 | ICS | STANDARD 95 | | .g V-357599 | 09/20/21 16:19 | 1 | | |
| 8 | ICS | STANDARD 0 | | .g | 09/20/21 16:21 | 1 | | |
| 9 | ICV | CCV | | .g V-357596 | 09/20/21 16:23 | 1 | | |
| 10 | ICB | CCB | | .g | 09/20/21 16:26 | 1 | | |
| 11 | MB | MBW-1577 | | .g | 09/20/21 16:28 | 1 | W-1577 | MBW-1577 |
| 12 | LCS | LCSS-1577 | | .g | 09/20/21 16:30 | 1 | W-1577 | MBW-1577 |
| 13 | LCS | LCSS-1577 DUP | | .g | 09/20/21 16:33 | 1 | W-1577 | MBW-1577 |
| 14 | DUP | AD26083-048 DUP | | .g | 09/20/21 16:35 | 1 | W-1577 | MBW-1577 |
| 15 | SMP | AD26083-048 | | .g | 09/20/21 16:37 | 1 | W-1577 | MBW-1577 |
| 16 | MS | AD26083-049 MS | | .g | 09/20/21 16:40 | 1 | W-1577 | MBW-1577 |
| 17 | MSD | AD26083-050 MSD | | .g | 09/20/21 16:42 | 1 | W-1577 | MBW-1577 |
| 18 | SMP | AD26083-006 | | .g | 09/20/21 16:44 | 1 | W-1577 | MBW-1577 |
| 19 | SMP | AD26083-012 | | .g | 09/20/21 16:47 | 1 | W-1577 | MBW-1577 |
| 20 | SMP | AD26083-014 | | .g | 09/20/21 16:49 | 1 | W-1577 | MBW-1577 |
| 21 | CCV | CCV | | .g V-357596 | 09/20/21 16:51 | 1 | | |
| 22 | CCB | CCB | | .g | 09/20/21 16:54 | 1 | | |
| 23 | SMP | AD26083-016 | | .g | 09/20/21 16:56 | 1 | W-1577 | MBW-1577 |
| 24 | SMP | AD26083-018 | | .g | 09/20/21 16:58 | 1 | W-1577 | MBW-1577 |
| 25 | SMP | AD26083-021 | | .g | 09/20/21 17:01 | 1 | W-1577 | MBW-1577 |
| 26 | SMP | AD26083-023 | | .g | 09/20/21 17:03 | 1 | W-1577 | MBW-1577 |
| 27 | SMP | AD26083-026 | | .g | 09/20/21 17:05 | 1 | W-1577 | MBW-1577 |
| 28 | SMP | AD26083-027 | | .g | 09/20/21 17:08 | 1 | W-1577 | MBW-1577 |
| 29 | SMP | AD26083-028 | | .g | 09/20/21 17:10 | 1 | W-1577 | MBW-1577 |
| 30 | SMP | AD26083-030 | | .g | 09/20/21 17:12 | 1 | W-1577 | MBW-1577 |
| 31 | SMP | AD26083-032 | | .g | 09/20/21 17:15 | 1 | W-1577 | MBW-1577 |
| 32 | SMP | AD26083-033 | | .g | 09/20/21 17:17 | 1 | W-1577 | MBW-1577 |
| 33 | CCV | CCV | | .g V-357596 | 09/20/21 17:19 | 1 | | |
| 34 | CCB | CCB | | .g | 09/20/21 17:22 | 1 | | |
| 35 | SMP | AD26083-035 | | .g | 09/20/21 17:24 | 1 | W-1577 | MBW-1577 |
| 36 | SMP | AD26083-036 | | .g | 09/20/21 17:26 | 1 | W-1577 | MBW-1577 |
| 37 | SMP | AD26083-038 | | .g | 09/20/21 17:28 | 1 | W-1577 | MBW-1577 |
| 38 | SMP | AD26083-046 | | .g | 09/20/21 17:29 | 1 | W-1577 | MBW-1577 |
| 39 | | MDL Q3-2 | | .g | 09/20/21 17:31 | 1 | | |
| 40 | CCV | CCV | | .g V-357596 | 09/20/21 17:33 | 1 | | |
| 41 | CCB | CCB | | .g | 09/20/21 17:35 | 1 | | |

| Flag Code: | Flag Code Description |
|---|---|
| Cs | CCV Out epa9056 |
| Ho | Hold Time Exceeded |
| I2 | Init Cal missing a data point |
| I4 | Init Cal Rsd < .995 |
| Iw | ICV Out 300.0 rev2.1 |
| Lw | LCS Out 300.0 rev2.1 |
| Mw | Spike Out EPA 300.0 REV2.1 |

| Flag Code: | Flag Code Description |
|---|---|
| Cw | CCV out 300.0 rev2.1 |
| I1 | Init Cal x and y value problem |
| I3 | Init Cal missing a Compound |
| Is | ICV out epa 9056 |
| Ls | LCS Out EPA 9056 |
| Ms | Spike Out EPA 9056 |
| Oc | Over Calibration/Linear Range |

Logo

# AQ-2 Report

| | |
|---|---|
| **Serial Number:** | 090817 |
| **Report Requested By:** | Janee |
| **Date & Time:** | Tue Sep 21 09:38:10 2021 |
| **Tray Number:** | 59 |
| **Tray Name:** | CNW 1577 |

## Worklist

| Cup | Type | ID | Details | Tests |
|---|---|---|---|---|
| 2 | U1 | MBW-1577 | | tCN-m |
| 3 | U2 | LCSS-1577 | | tCN-m |
| 4 | U3 | LCSS-1577 DUP | | tCN-m |
| 5 | U4 | AD26083-048 DUP | | tCN-m |
| 6 | U5 | AD26083-048 | | tCN-m |
| 7 | U6 | AD26083-049 MS | | tCN-m |
| 8 | U7 | AD26083-050 MSD | | tCN-m |
| 9 | U8 | AD26083-006 | | tCN-m |
| 10 | U9 | AD26083-012 | | tCN-m |
| 11 | U10 | AD26083-014 | | tCN-m |
| 12 | U11 | AD26083-016 | | tCN-m |
| 13 | U12 | AD26083-018 | | tCN-m |
| 14 | U13 | AD26083-021 | | tCN-m |
| 15 | U14 | AD26083-023 | | tCN-m |
| 16 | U15 | AD26083-026 | | tCN-m |
| 17 | U16 | AD26083-027 | | tCN-m |
| 18 | U17 | AD26083-028 | | tCN-m |
| 19 | U18 | AD26083-030 | | tCN-m |
| 20 | U19 | AD26083-032 | | tCN-m |
| 21 | U20 | AD26083-033 | | tCN-m |
| 22 | U21 | AD26083-035 | | tCN-m |
| 23 | U22 | AD26083-036 | | tCN-m |
| 24 | U23 | AD26083-038 | | tCN-m |
| 25 | U24 | AD26083-046 | | tCN-m |
| 26 | U25 | MDL Q3-2 | | tCN-m |

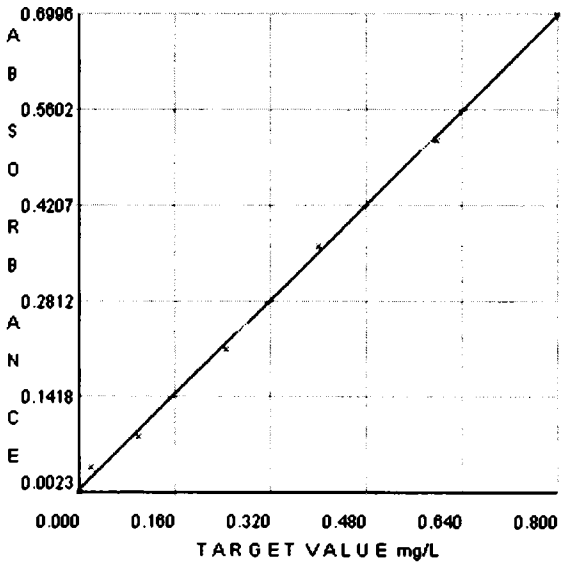
## AQ2 tCN mod

### Calibration Chart

| Type | Observed | Calculated | Target | % Error |
|---|---|---|---|---|
| S1 | 0.0023 | -0.0033 | 0.0000 | |
| S90 | 0.0370 | 0.0369 | 0.0200 | 84.35 |
| S91 | 0.0810 | 0.0879 | 0.1000 | -12.09 |
| S92 | 0.2109 | 0.2384 | 0.2480 | -3.85 |
| S93 | 0.3616 | 0.4131 | 0.4000 | 3.26 |
| S94 | 0.5144 | 0.5902 | 0.6000 | -1.64 |
| S95 | 0.6996 | 0.8049 | 0.8000 | 0.61 |
| S0 | 0.0296 | 0.0283 | 0.0000 | |

| | |
|---|---|
| Polynomial Order: | 1 |
| Correlation Coefficient: | 0.9993 |
| Carryover(%): | 3.9 |
| Calibration Equation: | y = bx + a |
| y = : | Concentration mg/L |
| x = : | Measured Absorbance |
| a = : | -6.021425E-003 |
| b = : | 1.159097E+000 |
| Date & Time: | Mon Sep 20 16:21:29 2021 |

### Calibration Graph




9/24/21

## Reagents

| Name | Batch | Prepared By | Expiry Date |
|---|---|---|---|
| tCN Neutral | V-357085 | JW | Fri Oct 08 22:00:00 2021 |
| tCN Chlor T | V-357597 | LL | Tue Sep 21 22:00:00 2021 |
| tCN Pyr Barb | V-357598 | JW | Mon Sep 27 22:00:00 2021 |

| Cup | Type | ID | Result | Units | Raw Data | Test Dil. | Cup Dil. | User | Time/Date |
|---|---|---|---|---|---|---|---|---|---|
| | S1 | STANDARD 1 | 0.0023 | | 0.002308 | | | jw | Mon Sep 20 16:05:11 2021 |
| | S90 | STANDARD 90 | 0.0370 | | 0.037004 | | | jw | Mon Sep 20 16:07:31 2021 |
| | S91 | STANDARD 91 | 0.0810 | | 0.081039 | | | jw | Mon Sep 20 16:09:53 2021 |
| | S92 | STANDARD 92 | 0.2109 | | 0.210912 | | | jw | Mon Sep 20 16:12:13 2021 |
| | S93 | STANDARD 93 | 0.3616 | | 0.361552 | | | jw | Mon Sep 20 16:14:32 2021 |
| | S94 | STANDARD 94 | 0.5144 | | 0.514360 | | | jw | Mon Sep 20 16:16:51 2021 |
| | S95 | STANDARD 95 | 0.6996 | | 0.699612 | | | jw | Mon Sep 20 16:19:10 2021 |
| | S0 | STANDARD 0 | 0.0296 | | 0.029639 | | | jw | Mon Sep 20 16:21:29 2021 |
| | C11 | C C V | 0.3755 | mg/L | 0.329118 | | | jw | Mon Sep 20 16:23:48 2021 |
| | C12 | C C B | -0.0209 | mg/L | -0.012876 | | | jw | Mon Sep 20 16:26:07 2021 |
| 2 | U1 | MBW-1577 | 0.0180 | mg/L | 0.020737 | | | jw | Mon Sep 20 16:28:26 2021 |
| 3 | U2 | LCSS-1577 | 0.3610 | mg/L | 0.316672 | | | jw | Mon Sep 20 16:30:46 2021 |
| 4 | U3 | LCSS-1577 DUP | 0.3581 | mg/L | 0.314100 | | | jw | Mon Sep 20 16:33:05 2021 |
| 5 | U4 | AD26083-048 DUP | -0.0015 | mg/L | 0.003876 | | | jw | Mon Sep 20 16:35:24 2021 |
| 6 | U5 | AD26083-048 | 0.0223 | mg/L | 0.024431 | | | jw | Mon Sep 20 16:37:45 2021 |
| 7 | U6 | AD26083-049 MS | 0.3478 | mg/L | 0.305237 | | | jw | Mon Sep 20 16:40:06 2021 |
| 8 | U7 | AD26083-050 MSD | 0.3546 | mg/L | 0.311102 | | | jw | Mon Sep 20 16:42:25 2021 |
| 9 | U8 | AD26083-006 | -0.0153 | mg/L | -0.007972 | | | jw | Mon Sep 20 16:44:44 2021 |
| 10 | U9 | AD26083-012 | 0.0060 | mg/L | 0.010332 | | | jw | Mon Sep 20 16:47:04 2021 |
| 11 | U10 | AD26083-014 | 0.0047 | mg/L | 0.009252 | | | jw | Mon Sep 20 16:49:23 2021 |
| | C11 | C C V | 0.3726 | mg/L | 0.326676 | | | jw | Mon Sep 20 16:51:43 2021 |
| | C12 | C C B | -0.0008 | mg/L | 0.004509 | | | jw | Mon Sep 20 16:54:03 2021 |
| 12 | U11 | AD26083-016 | 0.0188 | mg/L | 0.021410 | | | jw | Mon Sep 20 16:56:23 2021 |
| 13 | U12 | AD26083-018 | -0.0007 | mg/L | 0.004583 | | | jw | Mon Sep 20 16:58:43 2021 |
| 14 | U13 | AD26083-021 | 0.0089 | mg/L | 0.012843 | | | jw | Mon Sep 20 17:01:03 2021 |
| 15 | U14 | AD26083-023 | 0.0010 | mg/L | 0.006031 | | | jw | Mon Sep 20 17:03:23 2021 |
| 16 | U15 | AD26083-026 | 0.0174 | mg/L | 0.020240 | | | jw | Mon Sep 20 17:05:45 2021 |
| 17 | U16 | AD26083-027 | 0.0133 | mg/L | 0.016659 | | | jw | Mon Sep 20 17:08:05 2021 |
| 18 | U17 | AD26083-028 | 0.0007 | mg/L | 0.005760 | | | jw | Mon Sep 20 17:10:25 2021 |
| 19 | U18 | AD26083-030 | -0.0262 | mg/L | -0.017425 | | | jw | Mon Sep 20 17:12:45 2021 |
| 20 | U19 | AD26083-032 | -0.0405 | mg/L | -0.029735 | | | jw | Mon Sep 20 17:15:05 2021 |
| 21 | U20 | AD26083-033 | 0.0360 | mg/L | 0.036220 | | | jw | Mon Sep 20 17:17:24 2021 |
| | C11 | C C V | 0.3883 | mg/L | 0.340200 | | | jw | Mon Sep 20 17:19:44 2021 |
| | C12 | C C B | 0.0069 | mg/L | 0.011123 | | | jw | Mon Sep 20 17:22:05 2021 |
| 22 | U21 | AD26083-035 | 0.0078 | mg/L | 0.011954 | | | jw | Mon Sep 20 17:24:26 2021 |
| 23 | U22 | AD26083-036 | 0.0144 | mg/L | 0.017603 | | | jw | Mon Sep 20 17:26:22 2021 |
| 24 | U23 | AD26083-038 | 0.0285 | mg/L | 0.029754 | | | jw | Mon Sep 20 17:28:14 2021 |
| 25 | U24 | AD26083-046 | 0.0035 | mg/L | 0.008251 | | | jw | Mon Sep 20 17:29:55 2021 |
| 26 | U25 | MDL Q3-2 | 0.0150 | mg/L | 0.018140 | | | jw | Mon Sep 20 17:31:36 2021 |
| | C11 | C C V | 0.3752 | mg/L | 0.328931 | | | jw | Mon Sep 20 17:33:18 2021 |
| | C12 | C C B | -0.0011 | mg/L | 0.004229 | | | jw | Mon Sep 20 17:35:00 2021 |

Hampton-Clarke

# ALKALINITY DATA SHEET

Method: SM 2320 B

Analyst: BR Date: 9/21/21 Batch No. 733

| Sample Number | Sample Vol (mL) | Initial pH | mL Acid added to pH 4.5 | Low Alk. Y/N? | mL Acid added to pH 4.2 |
|---|---|---|---|---|---|
| Method Blank (MB) | 100 | 6.46 | 0.10 | Y | 0.15 |
| LCS Lot # V- 14197 | 5+45 | 11.20 | 4.95 | | |
| LCSD Lot # V- ↓ | ↓ | 11.19 | 5.00 | | |
| Sample Dup A926083 · 028 | 50 | 7.78 | 5.15 | | |
| A926083 · 028 | 50 | 7.75 | 5.20 | | |
| 2. 030 | 50 | 8.65 | 8.70 | | |
| 3. 032 | 50 | 6.79 | 25.30 | | |
| 4. 033 | 100 | 7.00 | 0.15 | Y | 0.25 |
| 5. 035 | 50 | 9.45 | 3.75 | | |
| 6. 036 | 50 | 6.92 | 9.80 | | |
| 7. 038 | 50 | 7.04 | 2.40 | | |
| 8. 040 | 50 | 6.90 | 19.00 (0.1) | | |
| 9. 046 | 50 | 7.90 | 6.30 | | |
| 10. 048 | 50 | 7.01 | 40.10 | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |

LCS (0.02N NaOH) 50mg/L(Limits 75 – 125%) Reviewed by: MMP Date: 9/27/21

| $H_2SO_4$ | | Salts | | | Calibration | | |
|---|---|---|---|---|---|---|---|
| Lot No. | Theoretical / Actual Normality | salts 0.05N | Salts (g) | Lot No. | mL of standard used | Calibrated Date | Analyst |
| V- 14197 | 0.1 N | $Na_2CO_3$ | | V- | | | |
| V-14198 | 0.02 N N=0.02 | | | V- | | | |

**Hampton-Clarke**

# ALKALINITY DATA SHEET

Method: SM 2320 B

Analyst: BD Date: 9/28/21 Batch No. 732

| Sample Number | Sample Vol (mL) | Initial pH | mL Acid added to pH 4.5 | Low Alk. Y/N? | mL Acid added to pH 4.2 |
|---|---|---|---|---|---|
| Method Blank (MB) | 100 | 6.38 | 0.10 | Y | 0.15 |
| LCS Lot # V- 14197 | 57.45 | 11.28 | 5.00 | | |
| LCSD Lot # V- | " | 11.16 | 5.05 | | |
| Sample Dup | | | | | |
| AD25994. 001 | 50 | 8.46 | 2.05 | | |
| 1 AD25994. 001 | 50 | 8.38 | 2.10 | | |
| 2. 002 | 50 | 8.74 | 2.15 | | |
| 3. 003 | 50 | 8.43 | 2.10 | | |
| AD26083. 001 | 50 | 6.62 | 1.80 | | |
| 5. 002 | 50 | 6.97 | 14.45 (0.1) | | |
| 6. 003 | 50 | 7.71 | 11.10 | | |
| 7. 005 | 100 | 5.97 | 0.15 | Y | 0.20 |
| 8. 006 | 50 | 7.81 | 10.50 | | |
| 9. 008 | 50 | 6.79 | 18.10 | | |
| 10. 009 | 50 | 6.79 | 17.80 | | |
| 11. 011 | 50 | 7.68 | 9.90 | | |
| 12. 012 | 50 | 6.29 | 2.95 | | |
| 13. 014 | 50 | 8.09 | 7.50 | | |
| 14. 016 | 50 | 7.58 | 10.00 | | |
| 15. 018 | 50 | 7.69 | 9.85 | | |
| 16. 019 | 50 | 7.73 | 15.00 | | |
| 17. 021 | 50 | 7.68 | 8.90 | | |
| 18. 023 | 50 | 7.73 | 8.90 | | |
| 19. 026 | 50 | 7.93 | 7.15 | | |
| 20. 027 | 50 | 8.20 | 18.90 | | |

LCS (0.02N NaOH) 50mg/L(Limits 75 – 125%) Reviewed by: JMP Date: 9/29/21

| $H_2SO_4$ | | Salts | | | Calibration | | |
|---|---|---|---|---|---|---|---|
| Lot No. | Theoretical / Actual Normality | salts 0.05N | Salts (g) | Lot No. | mL of standard used | Calibrated Date | Analyst |
| V-14147 | 0.1 N | $Na_2CO_3$ | | V- | | | |
| V-14198 | 0.02 N N=0.02 | | | V- | | | |

| | Analysis | Sample Name | Sample ID | Origin | Result | Date / Time | Vial |
|---|---|---|---|---|---|---|---|
| 1 | NPOC | BLANK | Untitled | 8-31-21.me | NPOC:0.3853pp | 9/21/2021 11:10:32 A | 1 |
| 2 | NPOC | 10 PPM | Untitled | 8-31-21.me | NPOC:9.503ppm | 9/21/2021 11:27:39 A | 2 |
| 3 | NPOC | 75 PPM | Untitled | 8-31-21.me | NPOC:71.90ppm | 9/21/2021 11:42:59 A | 3 |
| 4 | NPOC | MB | Untitled | 8-31-21.me | NPOC:0.5866pp | 9/21/2021 11:56:36 A | 4 |
| 5 | NPOC | LCS | Untitled | 8-31-21.me | NPOC:42.86ppm | 9/21/2021 12:11:33 P | 5 |
| 6 | NPOC | AD26083-048 | Untitled | 8-31-21.me | NPOC:18.74ppm | 9/21/2021 12:25:19 P | 6 |
| 7 | NPOC | AD26083-048 DUP | Untitled | 8-31-21.me | NPOC:19.03ppm | 9/21/2021 12:59:16 P | 7 |
| 8 | NPOC | AD26083-049 MS | Untitled | 8-31-21.me | NPOC:64.83ppm | 9/21/2021 1:13:26 PM | 8 |
| 9 | NPOC | AD26083-050 MSD | Untitled | 8-31-21.me | NPOC:60.55ppm | 9/21/2021 1:27:53 PM | 9 |
| 10 | NPOC | AD26054-001 | Untitled | 8-31-21.me | NPOC:2.215ppm | 9/21/2021 1:40:08 PM | 10 |
| 11 | NPOC | AD26091-001 | Untitled | 8-31-21.me | NPOC:1.431ppm | 9/21/2021 1:54:47 PM | 11 |
| 12 | NPOC | AD26008-001 | Untitled | 8-31-21.me | NPOC:8.799ppm | 9/21/2021 2:08:35 PM | 12 |
| 13 | NPOC | AD26008-002 | Untitled | 8-31-21.me | NPOC:6.674ppm | 9/21/2021 2:23:30 PM | 13 |
| 14 | NPOC | CCV-1 | Untitled | 8-31-21.me | NPOC:50.39ppm | 9/21/2021 2:41:12 PM | 14 |
| 15 | NPOC | CCB-1 | Untitled | 8-31-21.me | NPOC:0.3891pp | 9/21/2021 2:55:13 PM | 15 |
| 16 | NPOC | AD26008-003 | Untitled | 8-31-21.me | NPOC:5.809ppm | 9/21/2021 3:08:34 PM | 16 |
| 17 | NPOC | AD26028-002 | Untitled | 8-31-21.me | NPOC:0.6090pp | 9/21/2021 3:22:15 PM | 17 |
| 18 | NPOC | AD26028-012 | Untitled | 8-31-21.me | NPOC:1.294ppm | 9/21/2021 3:37:16 PM | 18 |
| 19 | NPOC | AD26083-001 | Untitled | 8-31-21.me | NPOC:2.215ppm | 9/21/2021 3:52:19 PM | 19 |
| 20 | NPOC | AD26083-002 | Untitled | 8-31-21.me | NPOC:29.37ppm | 9/21/2021 4:06:37 PM | 20 |
| 21 | NPOC | AD26083-003 | Untitled | 8-31-21.me | NPOC:0.9477pp | 9/21/2021 4:21:04 PM | 21 |
| 22 | NPOC | AD26083-003 DUP | Untitled | 8-31-21.me | NPOC:1.067ppm | 9/21/2021 4:35:46 PM | 22 |
| 23 | NPOC | AD26083-003 MS | Untitled | 8-31-21.me | NPOC:49.45ppm | 9/21/2021 4:50:08 PM | 23 |
| 24 | NPOC | AD26083-003 MSD | Untitled | 8-31-21.me | NPOC:50.18ppm | 9/21/2021 5:04:24 PM | 24 |
| 25 | NPOC | CCV-2 | Untitled | 8-31-21.me | NPOC:50.03ppm | 9/21/2021 5:22:40 PM | 25 |
| 26 | NPOC | CCB-2 | Untitled | 8-31-21.me | NPOC:0.5163pp | 9/21/2021 5:36:42 PM | 26 |
| 27 | NPOC | AD26083-005 | Untitled | 8-31-21.me | NPOC:0.8381pp | 9/21/2021 5:50:48 PM | 27 |
| 28 | NPOC | AD26083-006 | Untitled | 8-31-21.me | NPOC:1.362ppm | 9/21/2021 6:05:20 PM | 28 |
| 29 | NPOC | AD26083-009 | Untitled | 8-31-21.me | NPOC:2.746ppm | 9/21/2021 6:20:37 PM | 29 |
| 30 | NPOC | AD26083-011 | Untitled | 8-31-21.me | NPOC:1.245ppm | 9/21/2021 6:36:02 PM | 30 |
| 31 | NPOC | AD26083-012 | Untitled | 8-31-21.me | NPOC:2.422ppm | 9/21/2021 6:59:30 PM | 31 |
| 32 | NPOC | AD26083-014 | Untitled | 8-31-21.me | NPOC:1.360ppm | 9/21/2021 7:14:00 PM | 32 |
| 33 | NPOC | AD26083-016 | Untitled | 8-31-21.me | NPOC:0.8594pp | 9/21/2021 7:28:56 PM | 33 |
| 34 | NPOC | AD26083-018 | Untitled | 8-31-21.me | NPOC:1.931ppm | 9/21/2021 7:44:17 PM | 34 |
| 35 | NPOC | AD26083-019 | Untitled | 8-31-21.me | NPOC:2.082ppm | 9/21/2021 8:00:06 PM | 35 |
| 36 | NPOC | CCV-3 | Untitled | 8-31-21.me | NPOC:49.97ppm | 9/21/2021 8:14:47 PM | 36 |
| 37 | NPOC | CCB-3 | Untitled | 8-31-21.me | NPOC:0.4470pp | 9/21/2021 8:28:55 PM | 37 |

# TOC-Control L Report

2021_09_21_001.tlx

Sample Name: BLANK
Status Completed
Chk. Result

NPOC:0.3853ppm

1. Det

| | | |
|---|---|---|
| 0.5400ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:01:10 AM |
| 0.3767ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:03:31 AM |
| 0.3773ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:05:48 AM |
| 0.4006ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:08:05 AM |
| 0.3866ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:10:32 AM |

Mean Area 1.319
Mean Conc. 0.3853ppm

Sample Name: 10 PPM
Status Completed
Chk. Result

NPOC:9.503ppm

1. Det

| | | |
|---|---|---|
| 9.059ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:15:09 AM |
| 9.448ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:18:10 AM |
| 9.404ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:21:17 AM |
| 9.664ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:24:41 AM |
| 9.497ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:27:39 AM |

Mean Area 32.52
Mean Conc. 9.503ppm

# TOC-Control L Report

2021_09_21_001.tlx

Sample Name: 75 PPM
Status Completed
Chk. Result

| |
|---|
| NPOC:71.90ppm |

1. Det

| | | |
|---|---|---|
| 70.43ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:32:43 AM |
| 72.33ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:36:06 AM |
| 72.77ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:39:37 AM |
| 72.09ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:42:59 AM |

Mean Area 246.1
Mean Conc. 71.90ppm

Sample Name: MB
Status Completed
Chk. Result

| |
|---|
| NPOC:0.5866ppm |

1. Det

| | | |
|---|---|---|
| 0.2834ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:47:00 AM |
| 0.2524ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:49:12 AM |
| 0.5856ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:51:41 AM |
| 0.7110ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:54:08 AM |
| 0.7662ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 11:56:36 AM |

Mean Area 2.007
Mean Conc. 0.5866ppm

Sample Name: LCS
Status Completed
Chk. Result

# TOC-Control L Report

2021_09_21_001.tlx

NPOC:42.86ppm

1. Det

| | | |
|---|---|---|
| 42.05ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 12:01:36 PM |
| 43.05ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 12:04:52 PM |
| 43.25ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 12:08:17 PM |
| 43.07ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 12:11:33 PM |

Mean Area 146.7
Mean Conc. 42.86ppm

Sample Name: AD26083-048
Status Completed
Chk. Result

NPOC:18.74ppm

1. Det

| | | |
|---|---|---|
| 18.51ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 12:16:17 PM |
| 18.95ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 12:19:14 PM |
| 18.96ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 12:22:31 PM |
| 18.54ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 12:25:19 PM |

Mean Area 64.13
Mean Conc. 18.74ppm

Sample Name: AD26083-048 DUP
Status Completed
Chk. Result

NPOC:19.03ppm

1. Det

# TOC-Control L Report



| | | |
|---|---|---|
| 19.31ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 12:49:34 PM |
| 19.04ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 12:52:57 PM |
| 18.97ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 12:56:10 PM |
| 18.82ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 12:59:16 PM |

Mean Area 65.14
Mean Conc. 19.03ppm

Sample Name: AD26083-049 MS
Status Completed
Chk. Result

NPOC:64.83ppm

1. Det

| | | |
|---|---|---|
| 64.67ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:04:14 PM |
| 65.31ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:07:20 PM |
| 64.93ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:10:20 PM |
| 64.41ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:13:26 PM |

Mean Area 221.8
Mean Conc. 64.83ppm

Sample Name: AD26083-050 MSD
Status Completed
Chk. Result

NPOC:60.55ppm

1. Det

| | | |
|---|---|---|
| 59.76ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:18:29 PM |
| 60.67ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:21:39 PM |
| 61.02ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:24:46 PM |
| 60.75ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:27:53 PM |

# TOC-Control L Report

2021_09_21_001.tlx

Mean Area 207.2
Mean Conc. 60.55ppm

Sample Name: AD26054-001
Status Completed
Chk. Result

NPOC:2.215ppm

1. Det

| | | |
|---|---|---|
| 2.227ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:32:19 PM |
| 2.222ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:34:54 PM |
| 2.210ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:37:33 PM |
| 2.200ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:40:08 PM |

Mean Area 7.579
Mean Conc. 2.215ppm

Sample Name: AD26091-001
Status Completed
Chk. Result

NPOC:1.431ppm

1. Det

| | | |
|---|---|---|
| 1.471ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:44:35 PM |
| 1.344ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:46:58 PM |
| 1.408ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:49:33 PM |
| 1.406ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:52:09 PM |
| 1.439ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 1:54:47 PM |

Mean Area 4.896
Mean Conc. 1.431ppm

# TOC-Control L Report



Sample Name: AD26008-001
Status Completed
Chk. Result

NPOC:8.799ppm

1. Det

| | | |
|---|---|---|
| 8.828ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 1:59:39 PM |
| 8.925ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 2:02:50 PM |
| 8.676ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 2:05:46 PM |
| 8.767ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 2:08:35 PM |

Mean Area 30.11
Mean Conc. 8.799ppm

Sample Name: AD26008-002
Status Completed
Chk. Result

NPOC:6.674ppm

1. Det

| | | |
|---|---|---|
| 6.584ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 2:13:11 PM |
| 6.675ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 2:16:09 PM |
| 6.727ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 2:19:21 PM |
| 6.710ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 2:23:30 PM |

Mean Area 22.84
Mean Conc. 6.674ppm

Sample Name: CCV-1
Status Completed
Chk. Result

NPOC:50.39ppm

# TOC-Control L Report

2021_09_21_001.tlx

1. Det

| | | |
|---|---|---|
| 49.24ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 2:29:10 PM |
| 50.79ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 2:33:45 PM |
| 51.05ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 2:37:40 PM |
| 50.47ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 2:41:12 PM |

Mean Area 172.4
Mean Conc. 50.39ppm

Sample Name: CCB-1
Status Completed
Chk. Result

NPOC:0.3891ppm

1. Det

| | | |
|---|---|---|
| 0.5105ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 2:45:33 PM |
| 0.3662ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 2:47:53 PM |
| 0.3866ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 2:50:18 PM |
| 0.3893ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 2:52:44 PM |
| 0.4144ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 2:55:13 PM |

Mean Area 1.332
Mean Conc. 0.3891ppm

Sample Name: AD26008-003
Status Completed
Chk. Result

NPOC:5.809ppm

1. Det

# TOC-Control L Report

2021_09_21_001.tlx

| | | |
|---|---|---|
| 5.853ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 2:59:56 PM |
| 5.842ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:02:48 PM |
| 5.786ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:05:37 PM |
| 5.754ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:08:34 PM |

Mean Area 19.88
Mean Conc. 5.809ppm

Sample Name: AD26028-002
Status Completed
Chk. Result

| |
|---|
| NPOC:0.6090ppm |

1. Det

| | | |
|---|---|---|
| 0.8101ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:12:49 PM |
| 0.5631ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:15:13 PM |
| 0.5924ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:17:30 PM |
| 0.6625ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:19:51 PM |
| 0.6181ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:22:15 PM |

Mean Area 2.084
Mean Conc. 0.6090ppm

Sample Name: AD26028-012
Status Completed
Chk. Result

| |
|---|
| NPOC:1.294ppm |

1. Det

# TOC-Control L Report



| | | |
|---|---|---|
| 1.504ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:26:49 PM |
| 1.304ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:29:23 PM |
| 1.228ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:32:40 PM |
| 1.140ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:35:05 PM |
| 0.1936ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:37:16 PM |

Mean Area 4.428
Mean Conc. 1.294ppm

Sample Name: AD26083-001
Status Completed
Chk. Result

| |
|---|
| NPOC:2.215ppm |

1. Det

| | | |
|---|---|---|
| 2.375ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:41:39 PM |
| 2.181ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:44:21 PM |
| 2.229ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:47:03 PM |
| 2.257ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:49:47 PM |
| 2.193ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 3:52:19 PM |

Mean Area 7.580
Mean Conc. 2.215ppm

Sample Name: AD26083-002
Status Completed
Chk. Result

| |
|---|
| NPOC:29.37ppm |

1. Det

# TOC-Control L Report

2021_09_21_001.tlx

| | | |
|---|---|---|
| 29.01ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 3:57:17 PM |
| 29.46ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 4:00:22 PM |
| 29.54ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 4:03:32 PM |
| 29.46ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 4:06:37 PM |

Mean Area 100.5
Mean Conc. 29.37ppm

Sample Name: AD26083-003
Status Completed
Chk. Result

| |
|---|
| NPOC:0.9477ppm |

1. Det

| | | |
|---|---|---|
| 0.9451ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 4:11:01 PM |
| 0.9576ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 4:13:41 PM |
| 0.8983ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 4:16:11 PM |
| 0.9898ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 4:18:51 PM |
| 0.1455ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 4:21:04 PM |

Mean Area 3.243
Mean Conc. 0.9477ppm

Sample Name: AD26083-003 DUP
Status Completed
Chk. Result

| |
|---|
| NPOC:1.067ppm |

1. Det

# TOC-Control L Report

2021_09_21_001.tlx

| | | |
|---|---|---|
| 1.054ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 4:25:19 PM |
| 1.051ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 4:27:49 PM |
| 1.123ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 4:30:34 PM |
| 1.072ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 4:33:04 PM |
| 1.093ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 4:35:46 PM |

Mean Area 3.652
Mean Conc. 1.067ppm

Sample Name: AD26083-003 MS
Status Completed
Chk. Result

| |
|---|
| NPOC:49.45ppm |

1. Det

| | | |
|---|---|---|
| 48.74ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 4:40:38 PM |
| 49.74ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 4:43:46 PM |
| 49.56ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 4:47:00 PM |
| 49.74ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 4:50:08 PM |

Mean Area 169.2
Mean Conc. 49.45ppm

Sample Name: AD26083-003 MSD
Status Completed
Chk. Result

| |
|---|
| NPOC:50.18ppm |

1. Det

| | | |
|---|---|---|
| 49.88ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 4:55:09 PM |
| 50.47ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 4:58:18 PM |
| 50.21ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:01:23 PM |
| 50.18ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:04:24 PM |

# TOC-Control L Report

2021_09_21_001.tlx

Mean Area 171.7
Mean Conc. 50.18ppm

Sample Name: CCV-2
Status Completed
Chk. Result

NPOC:50.03ppm

1. Det

| | | |
|---|---|---|
| 47.96ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:09:19 PM |
| 49.77ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:12:37 PM |
| 50.18ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:15:57 PM |
| 50.18ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:19:24 PM |
| 50.00ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:22:40 PM |

Mean Area 171.2
Mean Conc. 50.03ppm

Sample Name: CCB-2
Status Completed
Chk. Result

NPOC:0.5163ppm

1. Det

| | | |
|---|---|---|
| 0.4807ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:26:52 PM |
| 0.8142ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:29:28 PM |
| 0.8764ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:31:58 PM |
| 0.4287ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:34:21 PM |
| 0.3416ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:36:42 PM |

Mean Area 1.767
Mean Conc. 0.5163ppm

# TOC-Control L Report

2021_09_21_001.tlx

Sample Name: AD26083-005
Status Completed
Chk. Result

NPOC:0.8381ppm

1. Det

| | | |
|---|---|---|
| 1.217ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:40:52 PM |
| 0.6943ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:43:24 PM |
| 0.7250ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:45:53 PM |
| 0.9775ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:48:23 PM |
| 0.9556ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:50:48 PM |

Mean Area 2.868
Mean Conc. 0.8381ppm

Sample Name: AD26083-006
Status Completed
Chk. Result

NPOC:1.362ppm

1. Det

| | | |
|---|---|---|
| 1.320ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:54:55 PM |
| 1.354ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 5:57:25 PM |
| 1.313ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:00:00 PM |
| 1.461ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:02:42 PM |
| 1.538ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:05:20 PM |

Mean Area 4.660
Mean Conc. 1.362ppm

Sample Name: AD26083-009
Status Completed
Chk. Result

# TOC-Control L Report

2021_09_21_001.tlx

| | NPOC:2.746ppm |
|---|---|

1. Det

| | | |
|---|---|---|
| 2.800ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:09:43 PM |
| 2.679ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:12:29 PM |
| 2.574ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:15:14 PM |
| 2.710ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:17:53 PM |
| 2.793ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:20:37 PM |

Mean Area 9.395
Mean Conc. 2.746ppm

Sample Name: AD26083-011
Status Completed
Chk. Result

| | NPOC:1.245ppm |
|---|---|

1. Det

| | | |
|---|---|---|
| 1.533ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:25:22 PM |
| 1.159ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:27:54 PM |
| 1.231ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:30:33 PM |
| 1.325ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:33:22 PM |
| 1.265ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:36:02 PM |

Mean Area 4.261
Mean Conc. 1.245ppm

Sample Name: AD26083-012
Status Completed
Chk. Result

| | NPOC:2.422ppm |
|---|---|

1. Det

# TOC-Control L Report



| | | |
|---|---|---|
| 2.925ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:46:53 PM |
| 2.230ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:49:38 PM |
| 2.425ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:54:11 PM |
| 2.107ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:57:06 PM |
| 0.1946ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 6:59:30 PM |

Mean Area 8.287
Mean Conc. 2.422ppm

Sample Name: AD26083-014
Status Completed
Chk. Result

| |
|---|
| NPOC:1.360ppm |

1. Det

| | | |
|---|---|---|
| 1.325ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 7:03:42 PM |
| 1.248ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 7:06:10 PM |
| 1.390ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 7:08:48 PM |
| 1.369ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 7:11:26 PM |
| 1.357ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 7:14:00 PM |

Mean Area 4.654
Mean Conc. 1.360ppm

Sample Name: AD26083-016
Status Completed
Chk. Result

| |
|---|
| NPOC:0.8594ppm |

1. Det

# TOC-Control L Report

2021_09_21_001.tlx

| | | |
|---|---|---|
| 0.9497ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 7:18:10 PM |
| 0.8349ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 7:20:41 PM |
| 0.8025ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 7:23:07 PM |
| 1.213ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 7:26:32 PM |
| 0.8504ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 7:28:56 PM |

Mean Area 2.941
Mean Conc. 0.8594ppm

Sample Name: AD26083-018
Status Completed
Chk. Result

| |
|---|
| NPOC:1.931ppm |

1. Det

| | | |
|---|---|---|
| 2.120ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 7:33:13 PM |
| 1.982ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 7:35:57 PM |
| 1.879ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 7:38:40 PM |
| 1.915ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 7:41:31 PM |
| 1.948ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/21/2021 7:44:17 PM |

Mean Area 6.608
Mean Conc. 1.931ppm

Sample Name: AD26083-019
Status Completed
Chk. Result

| |
|---|
| NPOC:2.082ppm |

1. Det

# TOC-Control L Report



| | | |
|---|---|---|
| 2.092ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 7:48:37 PM |
| 2.068ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 7:51:18 PM |
| 2.051ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 7:54:04 PM |
| 2.216ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 7:57:22 PM |
| 2.117ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 8:00:06 PM |

Mean Area 7.124
Mean Conc. 2.082ppm

Sample Name: CCV-3
Status Completed
Chk. Result

| |
|---|
| NPOC:49.97ppm |

1. Det

| | | |
|---|---|---|
| 48.92ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 8:04:57 PM |
| 50.23ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 8:08:18 PM |
| 50.06ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 8:11:31 PM |
| 50.67ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 8:14:47 PM |

Mean Area 171.0
Mean Conc. 49.97ppm

Sample Name: CCB-3
Status Completed
Chk. Result

| |
|---|
| NPOC:0.4470ppm |

1. Det

# TOC-Control L Report

2021_09_21_001.tlx

| | | |
|---|---|---|
| 0.6216ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 8:19:03 PM |
| 0.4006ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 8:21:31 PM |
| 0.3872ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 8:24:00 PM |
| 0.4132ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 8:26:32 PM |
| 0.5868ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/21/2021 8:28:55 PM |

Mean Area 1.529
Mean Conc. 0.4470ppm

| | Analysis | Sample Name | Sample ID | Origin | Result | Date / Time |
|---|---|---|---|---|---|---|
| 1 | NPOC | BLANK | Untitled | 8-31-21.me | NPOC:0.2846ppm | 9/24/2021 12:23:05 P |
| 2 | NPOC | 10 PPM | Untitled | 8-31-21.me | NPOC:9.315ppm | 9/24/2021 12:37:01 P |
| 3 | NPOC | 75 PPM | Untitled | 8-31-21.me | NPOC:74.45ppm | 9/24/2021 12:52:43 P |
| 4 | NPOC | MB | Untitled | 8-31-21.me | NPOC:0.2710ppm | 9/24/2021 1:05:49 PM |
| 5 | NPOC | LCS | Untitled | 8-31-21.me | NPOC:48.58ppm | 9/24/2021 1:21:30 PM |
| 6 | NPOC | AD26083-040 10X | Untitled | 8-31-21.me | NPOC:8.831ppm | 9/24/2021 1:34:53 PM |
| 7 | NPOC | AD26083-040 10X DUP | Untitled | 8-31-21.me | NPOC:8.998ppm | 9/24/2021 1:48:03 PM |
| 8 | NPOC | AD26083-042 10X MS | Untitled | 8-31-21.me | NPOC:13.15ppm | 9/24/2021 2:01:42 PM |
| 9 | NPOC | AD26083-044 10X MSD | Untitled | 8-31-21.me | NPOC:12.61ppm | 9/24/2021 2:15:18 PM |
| 10 | NPOC | CCV | Untitled | 8-31-21.me | NPOC:48.58ppm | 9/24/2021 2:30:23 PM |
| 11 | NPOC | CCB | Untitled | 8-31-21.me | NPOC:0.2618ppm | 9/24/2021 2:43:35 PM |

| | Vial |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |

# TOC-Control L Report

2021_09_24_001.tlx

Sample Name: BLANK
Status Completed
Chk. Result

NPOC:0.2846ppm

1. Det

| | | |
|---|---|---|
| 0.3150ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:16:20 PM |
| 0.2946ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:18:39 PM |
| 0.2786ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:20:53 PM |
| 0.2503ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:23:05 PM |

Mean Area 0.9740
Mean Conc. 0.2846ppm

Sample Name: 10 PPM
Status Completed
Chk. Result

NPOC:9.315ppm

1. Det

| | | |
|---|---|---|
| 9.331ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:27:50 PM |
| 9.299ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:30:54 PM |
| 9.258ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:33:58 PM |
| 9.372ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:37:01 PM |

Mean Area 31.88
Mean Conc. 9.315ppm

Sample Name: 75 PPM
Status Completed
Chk. Result

# TOC-Control L Report

2021_09_24_001.tlx

| NPOC:74.45ppm |
|---|

1. Det

| | | |
|---|---|---|
| 73.20ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:42:28 PM |
| 74.87ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:46:03 PM |
| 74.81ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:49:25 PM |
| 74.90ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:52:43 PM |

Mean Area 254.8
Mean Conc. 74.45ppm

Sample Name: MB
Status Completed
Chk. Result

| NPOC:0.2710ppm |
|---|

1. Det

| | | |
|---|---|---|
| 0.5377ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:56:54 PM |
| 0.3510ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 12:59:08 PM |
| 0.2573ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 1:01:24 PM |
| 0.2465ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 1:03:38 PM |
| 0.2293ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 1:05:49 PM |

Mean Area 0.9274
Mean Conc. 0.2710ppm

Sample Name: LCS
Status Completed
Chk. Result

| NPOC:48.58ppm |
|---|

1. Det

# TOC-Control L Report

2021_09_24_001.tlx

| | | |
|---|---|---|
| 47.78ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/24/2021 1:11:09 PM |
| 48.77ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/24/2021 1:14:43 PM |
| 49.07ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/24/2021 1:18:09 PM |
| 48.69ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/24/2021 1:21:30 PM |

Mean Area 166.2
Mean Conc. 48.58ppm

Sample Name: AD26083-040 10X
Status Completed
Chk. Result

| |
|---|
| NPOC:8.831ppm |

1. Det

| | | |
|---|---|---|
| 8.735ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/24/2021 1:26:06 PM |
| 8.790ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/24/2021 1:29:02 PM |
| 8.872ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/24/2021 1:32:01 PM |
| 8.928ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/24/2021 1:34:53 PM |

Mean Area 30.22
Mean Conc. 8.831ppm

Sample Name: AD26083-040 10X DUP
Status Completed
Chk. Result

| |
|---|
| NPOC:8.998ppm |

1. Det

| | | |
|---|---|---|
| 8.872ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/24/2021 1:39:23 PM |
| 9.077ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/24/2021 1:42:19 PM |
| 8.998ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/24/2021 1:45:08 PM |
| 9.045ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/24/2021 1:48:03 PM |

# TOC-Control L Report

2021_09_24_001.tlx

Mean Area 30.79
Mean Conc. 8.998ppm

Sample Name: AD26083-042 10X MS
Status Completed
Chk. Result

NPOC:13.15ppm

1. Det

| | | |
|---|---|---|
| 12.91ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 1:52:50 PM |
| 13.29ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 1:55:50 PM |
| 13.21ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 1:58:46 PM |
| 13.20ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:01:42 PM |

Mean Area 45.01
Mean Conc. 13.15ppm

Sample Name: AD26083-044 10X MSD
Status Completed
Chk. Result

NPOC:12.61ppm

1. Det

| | | |
|---|---|---|
| 12.49ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:06:35 PM |
| 12.57ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:09:31 PM |
| 12.71ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:12:26 PM |
| 12.67ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:15:18 PM |

Mean Area 43.16
Mean Conc. 12.61ppm

# TOC-Control L Report

2021_09_24_001.tlx

Sample Name: CCV
Status Completed
Chk. Result

NPOC:48.58ppm

1. Det

| | | |
|---|---|---|
| 47.46ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:20:19 PM |
| 48.63ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:23:39 PM |
| 49.01ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:27:01 PM |
| 49.21ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:30:23 PM |

Mean Area 166.2
Mean Conc. 48.58ppm

Sample Name: CCB
Status Completed
Chk. Result

NPOC:0.2618ppm

1. Det

| | | |
|---|---|---|
| 0.3729ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:34:29 PM |
| 0.2210ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:36:47 PM |
| 0.2963ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:39:03 PM |
| 0.2587ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:41:15 PM |
| 0.2711ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/24/2021 2:43:35 PM |

Mean Area 0.8958
Mean Conc. 0.2618ppm

| | Analysis | Sample Name | Sample ID | Origin | Result | Date / Time |
|---|---|---|---|---|---|---|
| 1 | NPOC | BLANK | Untitled | 8-31-21.me | NPOC:0.3548ppm | 9/23/2021 11:53:35 A |
| 2 | NPOC | 10ppm | Untitled | 8-31-21.me | NPOC:9.500ppm | 9/23/2021 11:14:45 A |
| 3 | NPOC | 75ppm | Untitled | 8-31-21.me | NPOC:70.09ppm | 9/23/2021 12:19:37 P |
| 4 | NPOC | MB | Untitled | 8-31-21.me | NPOC:0.3996ppm | 9/23/2021 12:32:53 P |
| 5 | NPOC | LCS | Untitled | 8-31-21.me | NPOC:47.82ppm | 9/23/2021 12:47:50 P |
| 6 | NPOC | AD26083-008 | Untitled | 8-31-21.me | NPOC:2.385ppm | 9/23/2021 12:59:52 P |
| 7 | NPOC | AD26083-008 DUP | Untitled | 8-31-21.me | NPOC:2.296ppm | 9/23/2021 1:14:35 PM |
| 8 | NPOC | AD26083-008 MS | Untitled | 8-31-21.me | NPOC:61.04ppm | 9/23/2021 1:27:58 PM |
| 9 | NPOC | AD26083-008 MSD | Untitled | 8-31-21.me | NPOC:61.05ppm | 9/23/2021 1:41:50 PM |
| 10 | NPOC | AD26083-021 | Untitled | 8-31-21.me | NPOC:2.027ppm | 9/23/2021 2:01:02 PM |
| 11 | NPOC | AD26083-023 | Untitled | 8-31-21.me | NPOC:1.997ppm | 9/23/2021 2:21:47 PM |
| 12 | NPOC | AD26083-026 | Untitled | 8-31-21.me | NPOC:1.099ppm | 9/23/2021 2:35:45 PM |
| 13 | NPOC | AD26083-027 | Untitled | 8-31-21.me | NPOC:9.645ppm | 9/23/2021 2:49:06 PM |
| 14 | NPOC | CCV | Untitled | 8-31-21.me | NPOC:48.66ppm | 9/23/2021 3:04:18 PM |
| 15 | NPOC | CCB | Untitled | 8-31-21.me | NPOC:0.4711ppm | 9/23/2021 3:18:10 PM |
| 16 | NPOC | AD26120-001 (10X) | Untitled | 8-31-21.me | NPOC:8.830ppm | 9/23/2021 3:30:49 PM |
| 17 | NPOC | AD26164-001 (10X) | Untitled | 8-31-21.me | NPOC:11.26ppm | 9/23/2021 3:52:15 PM |
| 18 | NPOC | AD26083-028 | Untitled | 8-31-21.me | NPOC:1.417ppm | 9/23/2021 4:09:07 PM |
| 19 | NPOC | AD26083-030 | Untitled | 8-31-21.me | NPOC:1.061ppm | 9/23/2021 4:23:51 PM |
| 20 | NPOC | AD26083-032 | Untitled | 8-31-21.me | NPOC:8.787ppm | 9/23/2021 4:37:54 PM |
| 21 | NPOC | AD26083-033 | Untitled | 8-31-21.me | NPOC:0.6024ppm | 9/23/2021 4:51:39 PM |
| 22 | NPOC | AD26083-040 | Untitled | 8-31-21.me | NPOC:91.94ppm | 9/23/2021 5:05:49 PM |
| 23 | NPOC | AD26083-040 DUP | Untitled | 8-31-21.me | NPOC:89.60ppm | 9/23/2021 5:20:04 PM |
| 24 | NPOC | AD26083-042 MS | Untitled | 8-31-21.me | NPOC:154.7ppm | 9/23/2021 6:03:30 PM |
| 25 | NPOC | AD26083-044 MSD | Untitled | 8-31-21.me | NPOC:154.8ppm | 9/23/2021 6:18:00 PM |
| 26 | NPOC | CCV2 | Untitled | 8-31-21.me | NPOC:50.20ppm | 9/23/2021 6:33:03 PM |
| 27 | NPOC | CCB2 | Untitled | 8-31-21.me | NPOC:0.6584ppm | 9/23/2021 6:46:49 PM |
| 28 | NPOC | AD26083-035 | Untitled | 8-31-21.me | NPOC:1.935ppm | 9/23/2021 7:01:22 PM |
| 29 | NPOC | AD26083-036 | Untitled | 8-31-21.me | NPOC:2.676ppm | 9/23/2021 7:15:56 PM |
| 30 | NPOC | AD26083-038 | Untitled | 8-31-21.me | NPOC:1.592ppm | 9/23/2021 7:30:13 PM |
| 31 | NPOC | AD26083-046 | Untitled | 8-31-21.me | NPOC:1.552ppm | 9/23/2021 7:52:14 PM |
| 32 | NPOC | AD26097-001 | Untitled | 8-31-21.me | NPOC:8.000ppm | 9/23/2021 8:05:39 PM |
| 33 | NPOC | AD26083-040 (10X) | Untitled | 8-31-21.me | NPOC:11.53ppm | 9/23/2021 8:19:34 PM |
| 34 | NPOC | AD26083-040 DUP (10X) | Untitled | 8-31-21.me | NPOC:11.56ppm | 9/23/2021 8:33:07 PM |
| 35 | NPOC | AD26083-042 MS (10X) | Untitled | 8-31-21.me | NPOC:63.38ppm | 9/23/2021 8:47:58 PM |
| 36 | NPOC | AD26083-044 MSD (10X) | Untitled | 8-31-21.me | NPOC:59.45ppm | 9/23/2021 9:02:47 PM |
| 37 | NPOC | CCV3 | Untitled | 8-31-21.me | NPOC:49.51ppm | 9/23/2021 9:19:51 PM |
| 38 | NPOC | CCB3 | Untitled | 8-31-21.me | NPOC:0.4682ppm | 9/23/2021 9:33:06 PM |

| | Vial |
|---|---|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 13 |
| 14 | 14 |
| 15 | 15 |
| 16 | 16 |
| 17 | 17 |
| 18 | 18 |
| 19 | 19 |
| 20 | 20 |
| 21 | 21 |
| 22 | 22 |
| 23 | 23 |
| 24 | 24 |
| 25 | 25 |
| 26 | 26 |
| 27 | 27 |
| 28 | 28 |
| 29 | 29 |
| 30 | 30 |
| 31 | 31 |
| 32 | 32 |
| 33 | 33 |
| 34 | 34 |
| 35 | 35 |
| 36 | 36 |
| 37 | 37 |
| 38 | 38 |

# TOC-Control L Report

2021_09_23_001.tlx

Sample Name: BLANK
Status Completed
Chk. Result

NPOC:0.3548ppm

1. Det

| | | |
|---|---|---|
| 0.5497ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 11:44:18 AM |
| 0.3185ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 11:46:44 AM |
| 0.3755ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 11:49:03 AM |
| 0.4123ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 11:51:22 AM |
| 0.3127ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 11:53:35 AM |

Mean Area 1.214
Mean Conc. 0.3548ppm

Sample Name: 10ppm
Status Completed
Chk. Result

NPOC:9.500ppm

1. Det

| | | |
|---|---|---|
| 9.746ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 11:05:33 AM |
| 9.509ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 11:08:30 AM |
| 9.442ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 11:11:40 AM |
| 9.305ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 11:14:45 AM |

Mean Area 32.51
Mean Conc. 9.500ppm

# TOC-Control L Report

2021_09_23_001.tlx

Sample Name: 75ppm
Status Completed
Chk. Result

NPOC:70.09ppm

1. Det

| | | |
|---|---|---|
| 69.23ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 12:09:27 PM |
| 70.69ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 12:12:54 PM |
| 70.63ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 12:16:18 PM |
| 69.81ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 12:19:37 PM |

Mean Area 239.8
Mean Conc. 70.09ppm

Sample Name: MB
Status Completed
Chk. Result

NPOC:0.3996ppm

1. Det

| | | |
|---|---|---|
| 0.3732ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 12:23:42 PM |
| 0.4457ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 12:25:59 PM |
| 0.3773ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 12:28:14 PM |
| 0.4024ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 12:30:36 PM |
| 0.3106ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 12:32:53 PM |

Mean Area 1.368
Mean Conc. 0.3996ppm

Sample Name: LCS
Status Completed
Chk. Result

# TOC-Control L Report

2021_09_23_001.tlx

NPOC:47.82ppm

1. Det

| | | |
|---|---|---|
| 47.08ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 12:37:52 PM |
| 48.04ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 12:41:15 PM |
| 47.87ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 12:44:30 PM |
| 48.28ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 12:47:50 PM |

Mean Area 163.6
Mean Conc. 47.82ppm

Sample Name: AD26083-008
Status Completed
Chk. Result

NPOC:2.385ppm

1. Det

| | | |
|---|---|---|
| 2.406ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 12:52:17 PM |
| 2.390ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 12:54:50 PM |
| 2.380ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 12:57:17 PM |
| 2.363ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 12:59:52 PM |

Mean Area 8.161
Mean Conc. 2.385ppm

Sample Name: AD26083-008 DUP
Status Completed
Chk. Result

NPOC:2.296ppm

1. Det

# TOC-Control L Report



| | | |
|---|---|---|
| 2.310ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:04:15 PM |
| 2.246ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:06:51 PM |
| 2.233ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:09:24 PM |
| 2.414ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:11:55 PM |
| 2.395ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:14:35 PM |

Mean Area 7.857
Mean Conc. 2.296ppm

Sample Name: AD26083-008 MS
Status Completed
Chk. Result

| |
|---|
| NPOC:61.04ppm |

1. Det

| | | |
|---|---|---|
| 60.43ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:19:09 PM |
| 61.34ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:22:04 PM |
| 61.43ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:25:00 PM |
| 60.96ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:27:58 PM |

Mean Area 208.9
Mean Conc. 61.04ppm

Sample Name: AD26083-008 MSD
Status Completed
Chk. Result

| |
|---|
| NPOC:61.05ppm |

1. Det

| | | |
|---|---|---|
| 60.08ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:32:53 PM |
| 60.90ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:35:53 PM |
| 61.75ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:38:53 PM |
| 61.49ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:41:50 PM |

# TOC-Control L Report

2021_09_23_001.tlx

Mean Area 208.9
Mean Conc. 61.05ppm

Sample Name: AD26083-021
Status Completed
Chk. Result

NPOC:2.027ppm

1. Det

| | | |
|---|---|---|
| 2.695ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:46:26 PM |
| 1.838ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:49:04 PM |
| 2.220ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:53:49 PM |
| 2.253ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 1:57:59 PM |
| 1.797ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 2:01:02 PM |

Mean Area 6.936
Mean Conc. 2.027ppm

Sample Name: AD26083-023
Status Completed
Chk. Result

NPOC:1.997ppm

1. Det

| | | |
|---|---|---|
| 2.101ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 2:05:37 PM |
| 1.927ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 2:08:12 PM |
| 1.967ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 2:13:23 PM |
| 1.993ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 2:18:33 PM |
| 2.118ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 2:21:47 PM |

Mean Area 6.834
Mean Conc. 1.997ppm

# TOC-Control L Report

2021_09_23_001.tlx

Sample Name: AD26083-026
Status Completed
Chk. Result

NPOC:1.099ppm

1. Det

| | | |
|---|---|---|
| 1.205ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 2:26:05 PM |
| 1.076ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 2:28:33 PM |
| 1.074ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 2:31:07 PM |
| 1.040ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 2:33:35 PM |
| 0.1709ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 2:35:45 PM |

Mean Area 3.761
Mean Conc. 1.099ppm

Sample Name: AD26083-027
Status Completed
Chk. Result

NPOC:9.645ppm

1. Det

| | | |
|---|---|---|
| 9.448ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 2:40:21 PM |
| 9.740ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 2:43:21 PM |
| 9.685ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 2:46:15 PM |
| 9.708ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 2:49:06 PM |

Mean Area 33.00
Mean Conc. 9.645ppm

Sample Name: CCV
Status Completed
Chk. Result

# TOC-Control L Report

2021_09_23_001.tlx

NPOC:48.66ppm

1. Det

| | | |
|---|---|---|
| 47.55ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 2:54:05 PM |
| 48.86ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 2:57:20 PM |
| 49.01ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 3:00:49 PM |
| 49.21ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 3:04:18 PM |

Mean Area 166.5
Mean Conc. 48.66ppm

Sample Name: CCB
Status Completed
Chk. Result

NPOC:0.4711ppm

1. Det

| | | |
|---|---|---|
| 0.5435ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 3:08:37 PM |
| 0.4410ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 3:10:55 PM |
| 0.4798ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 3:13:22 PM |
| 0.4667ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 3:15:46 PM |
| 0.4971ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 3:18:10 PM |

Mean Area 1.612
Mean Conc. 0.4711ppm

Sample Name: AD26120-001 (10X)
Status Completed
Chk. Result

NPOC:8.830ppm

1. Det

# TOC-Control L Report



| | | |
|---|---|---|
| 8.793ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 3:22:43 PM |
| 8.831ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 3:25:25 PM |
| 8.843ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 3:28:11 PM |
| 8.855ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 3:30:49 PM |

Mean Area 30.22
Mean Conc. 8.830ppm

Sample Name: AD26164-001 (10X)
Status Completed
Chk. Result

| |
|---|
| NPOC:11.26ppm |

1. Det

| | | |
|---|---|---|
| 11.33ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 3:35:57 PM |
| 11.18ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 3:39:10 PM |
| 11.33ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 3:43:39 PM |
| 11.97ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 3:48:35 PM |
| 11.21ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 3:52:15 PM |

Mean Area 38.53
Mean Conc. 11.26ppm

Sample Name: AD26083-028
Status Completed
Chk. Result

| |
|---|
| NPOC:1.417ppm |

1. Det

# TOC-Control L Report

2021_09_23_001.tlx

| | | |
|---|---|---|
| 2.038ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 3:57:19 PM |
| 1.440ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:00:02 PM |
| 1.509ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:02:56 PM |
| 1.291ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:05:43 PM |
| 1.426ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:09:07 PM |

Mean Area 4.848
Mean Conc. 1.417ppm

Sample Name: AD26083-030
Status Completed
Chk. Result

| |
|---|
| NPOC:1.061ppm |

1. Det

| | | |
|---|---|---|
| 1.122ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:13:26 PM |
| 1.074ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:16:01 PM |
| 1.032ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:18:40 PM |
| 1.039ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:21:14 PM |
| 1.097ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:23:51 PM |

Mean Area 3.629
Mean Conc. 1.061ppm

Sample Name: AD26083-032
Status Completed
Chk. Result

| |
|---|
| NPOC:8.787ppm |

1. Det

# TOC-Control L Report



| | | |
|---|---|---|
| 8.594ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:28:31 PM |
| 8.866ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:31:37 PM |
| 8.898ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:34:51 PM |
| 8.787ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:37:54 PM |

Mean Area 30.07
Mean Conc. 8.787ppm

Sample Name: AD26083-033
Status Completed
Chk. Result

| |
|---|
| NPOC:0.6024ppm |

1. Det

| | | |
|---|---|---|
| 0.7057ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:42:02 PM |
| 0.5482ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:44:25 PM |
| 0.5856ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:46:43 PM |
| 0.6955ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:49:13 PM |
| 0.5801ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:51:39 PM |

Mean Area 2.061
Mean Conc. 0.6024ppm

Sample Name: AD26083-040
Status Completed
Chk. Result

| |
|---|
| NPOC:91.94ppm |

1. Det

| | | |
|---|---|---|
| 90.33ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:56:29 PM |
| 92.58ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 4:59:38 PM |
| 92.20ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 5:02:41 PM |
| 92.67ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 5:05:49 PM |

# TOC-Control L Report



Mean Area 314.6
Mean Conc. 91.94ppm

Sample Name: AD26083-040 DUP
Status Completed
Chk. Result

NPOC:89.60ppm

1. Det

| | | |
|---|---|---|
| 89.71ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 5:10:44 PM |
| 89.77ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 5:13:48 PM |
| 89.60ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 5:16:55 PM |
| 89.31ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 5:20:04 PM |

Mean Area 306.6
Mean Conc. 89.60ppm

Sample Name: AD26083-042 MS
Status Completed
Chk. Result

NPOC:154.7ppm

1. Det

| | | |
|---|---|---|
| 152.6ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 5:53:59 PM |
| 154.2ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 5:57:12 PM |
| 156.6ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 6:00:24 PM |
| 155.6ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 6:03:30 PM |

Mean Area 529.5
Mean Conc. 154.7ppm

# TOC-Control L Report

2021_09_23_001.tlx

Sample Name: AD26083-044 MSD
Status Completed
Chk. Result

NPOC:154.8ppm

1. Det

| | | |
|---|---|---|
| 153.2ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:08:30 PM |
| 154.5ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:11:40 PM |
| 155.5ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:14:48 PM |
| 155.9ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:18:00 PM |

Mean Area 529.6
Mean Conc. 154.8ppm

Sample Name: CCV2
Status Completed
Chk. Result

NPOC:50.20ppm

1. Det

| | | |
|---|---|---|
| 49.36ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:23:07 PM |
| 50.70ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:26:27 PM |
| 50.38ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:29:39 PM |
| 50.35ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:33:03 PM |

Mean Area 171.8
Mean Conc. 50.20ppm

Sample Name: CCB2
Status Completed
Chk. Result

NPOC:0.6584ppm

# TOC-Control L Report



1. Det

| | | |
|---|---|---|
| 0.6751ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:37:14 PM |
| 0.7393ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:39:43 PM |
| 0.5611ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:42:08 PM |
| 0.6581ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:44:38 PM |
| 0.04509ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:46:49 PM |

Mean Area 2.253
Mean Conc. 0.6584ppm

Sample Name: AD26083-035
Status Completed
Chk. Result

NPOC:1.935ppm

1. Det

| | | |
|---|---|---|
| 2.019ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:51:12 PM |
| 1.888ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:53:41 PM |
| 1.879ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:56:15 PM |
| 2.340ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 6:58:51 PM |
| 1.953ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:01:22 PM |

Mean Area 6.621
Mean Conc. 1.935ppm

Sample Name: AD26083-036
Status Completed
Chk. Result

NPOC:2.676ppm

1. Det

# TOC-Control L Report



| | | |
|---|---|---|
| 2.695ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:05:41 PM |
| 2.527ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:08:12 PM |
| 2.665ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:10:55 PM |
| 2.815ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:13:41 PM |
| 0.2054ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:15:56 PM |

Mean Area 9.156
Mean Conc. 2.676ppm

Sample Name: AD26083-038
Status Completed
Chk. Result

| |
|---|
| NPOC:1.592ppm |

1. Det

| | | |
|---|---|---|
| 1.490ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:20:12 PM |
| 1.686ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:22:57 PM |
| 1.597ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:25:28 PM |
| 1.594ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:28:02 PM |
| 0.1213ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:30:13 PM |

Mean Area 5.447
Mean Conc. 1.592ppm

Sample Name: AD26083-046
Status Completed
Chk. Result

| |
|---|
| NPOC:1.552ppm |

1. Det

# TOC-Control L Report



| | | |
|---|---|---|
| 1.847ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:40:53 PM |
| 1.530ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:43:33 PM |
| 1.625ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:46:49 PM |
| 1.551ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:49:35 PM |
| 1.504ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:52:14 PM |

Mean Area 5.312
Mean Conc. 1.552ppm

Sample Name: AD26097-001
Status Completed
Chk. Result

| |
|---|
| NPOC:8.000ppm |

1. Det

| | | |
|---|---|---|
| 7.870ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:56:47 PM |
| 7.922ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 7:59:36 PM |
| 8.101ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 8:02:40 PM |
| 8.106ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 8:05:39 PM |

Mean Area 27.38
Mean Conc. 8.000ppm

Sample Name: AD26083-040 (10X)
Status Completed
Chk. Result

| |
|---|
| NPOC:11.53ppm |

1. Det

| | | |
|---|---|---|
| 11.41ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 8:10:30 PM |
| 11.55ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 8:13:28 PM |
| 11.66ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 8:16:29 PM |
| 11.49ppm | 8-31-21 2021_08_31_10_45_41.cal | 9/23/2021 8:19:34 PM |

# TOC-Control L Report



Mean Area 39.45
Mean Conc. 11.53ppm

Sample Name: AD26083-040 DUP (10X)
Status Completed
Chk. Result

| | |
|---|---|
| | NPOC:11.56ppm |

1. Det

| | | |
|---|---|---|
| 11.23ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 8:24:11 PM |
| 11.58ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 8:27:11 PM |
| 11.69ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 8:30:13 PM |
| 11.73ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 8:33:07 PM |

Mean Area 39.55
Mean Conc. 11.56ppm

Sample Name: AD26083-042 MS (10X)
Status Completed
Chk. Result

| | |
|---|---|
| | NPOC:63.38ppm |

1. Det

| | | |
|---|---|---|
| 62.19ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 8:38:22 PM |
| 63.82ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 8:41:34 PM |
| 63.88ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 8:44:49 PM |
| 63.65ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 8:47:58 PM |

Mean Area 216.9
Mean Conc. 63.38ppm

# TOC-Control L Report

2021_09_23_001.tlx

Sample Name: AD26083-044 MSD (10X)
Status Completed
Chk. Result

NPOC:59.45ppm

1. Det

| | | |
|---|---|---|
| 58.56ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 8:53:06 PM |
| 59.53ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 8:56:19 PM |
| 60.02ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 8:59:33 PM |
| 59.70ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 9:02:47 PM |

Mean Area 203.4
Mean Conc. 59.45ppm

Sample Name: CCV3
Status Completed
Chk. Result

NPOC:49.51ppm

1. Det

| | | |
|---|---|---|
| 47.96ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 9:07:41 PM |
| 49.77ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 9:11:00 PM |
| 50.23ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 9:14:18 PM |
| 50.09ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 9:17:39 PM |
| 0.2358ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 9:19:51 PM |

Mean Area 169.4
Mean Conc. 49.51ppm

Sample Name: CCB3
Status Completed
Chk. Result

# TOC-Control L Report

2021_09_23_001.tlx

| |
|---|
| NPOC:0.4682ppm |

1 Det

| | | |
|---|---|---|
| 0.5500ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 9:23:57 PM |
| 0.4468ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 9:26:12 PM |
| 0.4600ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 9:28:34 PM |
| 0.4158ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 9:30:56 PM |
| 0.1053ppm | 8-31-21.2021_08_31_10_45_41.cal | 9/23/2021 9:33:06 PM |

Mean Area 1.602
Mean Conc. 0.4682ppm

Thermo Scientific (c) 2011

A214 pH/ISE

| | |
|---|---|
| Meter S/N | X03759 |
| SW Rev | 3.04 |

JB 9/22/21

--Calibration Report--

ISE

09/22/21 15:53:00

| | |
|---|---|
| Point 1 | |
| Ise | 1.00 ppm |
| mV | 131.7 mV |
| Temperature | 25.0 C |
| Point 2 | |
| Ise | 10.0 ppm |
| mV | 75.1 mV |
| Temperature | 25.0 C |
| Point 3 | |
| Ise | 25.0 ppm |
| mV | 52.4 mV |
| Temperature | 25.0 C |
| Point 4 | |
| Ise | 50.0 ppm |
| mV | 33.0 mV |
| Temperature | 25.0 C |
| Point 5 | |
| Ise | 100 ppm |
| mV | 17.1 mV |
| Temperature | 25.0 C |
| Slope1 | -56.6 mV/dec |
| Slope2 | -57.1 mV/dec |
| Slope3 | -64.4 mV/dec |

| | |
|---|---|
| Slope4 | -52.8 mV/dec |
| E1 | 131.7 mV |
| E2 | 132.2 mV |
| E3 | 142.5 mV |
| E4 | 122.7 mV |
| Average Slope | -57.7 mV/dec |
| Blank | 0.0000 ppm |
| Calibration | #2 |

9/22/21

Operator_____

Signature_____

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 15:55:00,ICV,CH-1,ISE,52.6,ppm,31.8, mV,25.0,C,-52.8,mV/dec,M100,#1 ICV

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 15:57:28,ICB,CH-1,ISE,0.721,ppm,139.7, mV,25.0,C,-56.6,mV/dec,M100,#1 ICB

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 15:57:56,MB,CH-1,ISE,0.437,ppm,152.0, mV,25.0,C,-56.6,mV/dec,M100,#1 MB

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 15:59:44,LCS,CH-1,ISE,45.9,ppm,35.4, mV,25.0,C,-64.4,mV/dec,M100,#1 LCS

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:00:24,LCS,CH-1,ISE,46.5,ppm,35.0, mV,25.0,C,-64.4,mV/dec,M100,#1 LCSD

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:02:52,40,CH-1,ISE,96.9,ppm,17.8, mV,25.0,C,-52.8,mV/dec,M100,#1 AD26083-040

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:03:32,D,CH-1,ISE,98.3,ppm,17.5, mV,25.0,C,-52.8,mV/dec,M100,#1 - 040D

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:04:54,MS2X,CH-1,ISE,77.0,ppm,23.1, mV,25.0,C,-52.8,mV/dec,M100,#1 - 040MS 2x

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:05:36,MS2X,CH-1,ISE,78.6,ppm,22.6, mV,25.0,C,-52.8,mV/dec,M100,#1 - 040MSD 2x

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:11:36,1,CH-1,ISE,0.296,ppm,161.6, mV,25.0,C,-56.6,mV/dec,M100,#1 - 001

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:13:18,2,CH-1,ISE,0.616,ppm,143.6, mV,25.0,C,-56.6,mV/dec,M100,#1 AD26083.002

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:14:04,3,CH-1,ISE,0.531,ppm,147.2, mV,25.0,C,-56.6,mV/dec,M100,#1 .003

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:16:27,CCV,CH-1,ISE,49.8,ppm,33.1, mV,25.0,C,-64.4,mV/dec,M100,#1 OCV.1

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:23:07,CCB,CH-1,ISE,0.0809,ppm,193.4, mV,25.0,C,-56.6,mV/dec,M100,#1 CCB.1

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:24:05,5,CH-1,ISE,0.192,ppm,172.2, mV,25.0,C,-56.6,mV/dec,M100,#1 .005

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:27:36,6,CH-1,ISE,0.136,ppm,180.7, mV,25.0,C,-56.6,mV/dec,M100,#1 .006

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:28:55,8,CH-1,ISE,0.281,ppm,162.9, mV,25.0,C,-56.6,mV/dec,M100,#1 .008

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:29:38,9,CH-1,ISE,0.350,ppm,157.4, mV,25.0,C,-56.6,mV/dec,M100,#1 .009

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:32:17,11,CH-1,ISE,0.181,ppm,173.7, mV,25.0,C,-56.6,mV/dec,M100,#1 .011

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:34:07,12,CH-1,ISE,0.203,ppm,170.9, mV,25.0,C,-56.6,mV/dec,M100,#1 .012

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:36:24,14,CH-1,ISE,0.174,ppm,174.6, mV,25.0,C,-56.6,mV/dec,M100,#1 .014

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:38:18,16,CH-1,ISE,0.162,ppm,176.4, mV,25.0,C,-56.6,mV/dec,M100,#1 .016

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:41:09,18,CH-1,ISE,0.120,ppm,183.7, mV,25.0,C,-56.6,mV/dec,M100,#1 .018

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:43:50,19,CH-1,ISE,0.450,ppm,151.3, mV,25.0,C,-56.6,mV/dec,M100,#1 .019

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:45:51,CCV,CH-1,ISE,51.0,ppm,32.6, mV,25.0,C,-52.8,mV/dec,M100,#1 CCV.2

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:50:23,CCB,CH-1,ISE,0.195,ppm,171.8, mV,25.0,C,-56.6,mV/dec,M100,#1 CCB·2

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:54:14,21,CH-1,ISE,0.159,ppm,176.9, mV,25.0,C,-56.6,mV/dec,M100,#1 AD26083·021

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:56:35,23,CH-1,ISE,0.237,ppm,167.1, mV,25.0,C,-56.6,mV/dec,M100,#1 ↓ ·023

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:58:28,9,CH-1,ISE,0.177,ppm,174.2, mV,25.0,C,-56.6,mV/dec,M100,#1 AD26009·003

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 16:59:44,10,CH-1,ISE,0.188,ppm,172.8, mV,25.0,C,-56.6,mV/dec,M100,#1 AD26010·003

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 17:02:19,LB,CH-1,ISE,0.118,ppm,184.1, mV,25.0,C,-56.6,mV/dec,M100,#1 LB

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 17:03:37,CCV,CH-1,ISE,50.7,ppm,32.7, mV,25.0,C,-52.8,mV/dec,M100,#1 CCV·3

A214 pH/ISE,X03759,3.04,ABCDE,09/22/21 17:09:15,CCB,CH-1,ISE,0.266,ppm,164.2, mV,25.0,C,-56.6,mV/dec,M100,#1 CCB·3

Thermo Scientific (c) 2011
A214 pH/ISE
Meter S/N X03759
SW Rev 3.04
--Calibration Report--
ISE
09/24/21 15:58:00
Point 1
Ise 1.00 ppm
mV 110.4 mV
Temperature 25.0 C
Point 2
Ise 10.0 ppm
mV 62.1 mV
Temperature 25.0 C
Point 3
Ise 25.0 ppm
mV 37.9 mV
Temperature 25.0 C
Point 4
Ise 50.0 ppm
mV 20.2 mV
Temperature 25.0 C
Point 5
Ise 100 ppm
mV 2.5 mV
Temperature 25.0 C
Slope1 -48.4 mV/dec
Slope2 -60.7 mV/dec
Slope3 -58.8 mV/dec
Slope4 -58.8 mV/dec
E1 110.4 mV
E2 122.7 mV
E3 120.1 mV
E4 120.1 mV

Average Slope -56.7 mV/dec
Blank 0.0000 ppm
Calibration #3

Operator_____
Signature_____

BB 9/24/21

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:00:26,ICV,CH-1,ISE,54.6,ppm,18.0, mV,25.0,C,-58.8,mV/dec,M100,#1 ICV

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:05:03,ICB,CH-1,ISE,0.227,ppm,141.6, mV,25.0,C,-48.4,mV/dec,M100,#1 ICB

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:08:02,MB,CH-1,ISE,0.0515,ppm,172.8, mV,25.0,C,-48.4,mV/dec,M100,#1 MB

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:10:09,LCS,CH-1,ISE,52.2,ppm,19.1, mV,25.0,C,-58.8,mV/dec,M100,#1 LCS

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:10:54,LCS,CH-1,ISE,53.2,ppm,18.6, mV,25.0,C,-58.8,mV/dec,M100,#1 LCSD

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:14:14,48,CH-1,ISE,5.59,ppm,74.3, mV,25.0,C,-48.4,mV/dec,M100,#1 AD2C043-048

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:15:07,D,CH-1,ISE,5.32,ppm,75.3, mV,25.0,C,-48.4,mV/dec,M100,#1 -048P

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:19:21,49MS,CH-1,ISE,47.2,ppm,21.7, mV,25.0,C,-58.8,mV/dec,M100,#1 -049MS

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:20:06,MSD,CH-1,ISE,47.9,ppm,21.3, mV,25.0,C,-58.8,mV/dec,M100,#1 -050MSD

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:24:19,26,CH-1,ISE,0.320,ppm,134.4, mV,25.0,C,-48.4,mV/dec,M100,#1

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:25:09,27,CH-1,ISE,0.590,ppm,121.5, mV,25.0,C,-48.4,mV/dec,M100,#1

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:27:18,CCV,CH-1,ISE,49.3,ppm,20.6, mV,25.0,C,-58.8,mV/dec,M100,#1

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:30:46,CCB,CH-1,ISE,0.287,ppm,136.7, mV,25.0,C,-48.4,mV/dec,M100,#1

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:32:02,28,CH-1,ISE,0.445,ppm,127.5, mV,25.0,C,-48.4,mV/dec,M100,#1

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:33:42,30,CH-1,ISE,0.299,ppm,135.8, mV,25.0,C,-48.4,mV/dec,M100,#1

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:36:02,32,CH-1,ISE,1.90,ppm,96.9, mV,25.0,C,-48.4,mV/dec,M100,#1

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:37:08,33,CH-1,ISE,0.678,ppm,118.6, mV,25.0,C,-48.4,mV/dec,M100,#1

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:37:50,35,CH-1,ISE,0.504,ppm,124.9, mV,25.0,C,-48.4,mV/dec,M100,#1

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:38:30,36,CH-1,ISE,0.442,ppm,127.6, mV,25.0,C,-48.4,mV/dec,M100,#1

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:39:15,38,CH-1,ISE,0.350,ppm,132.5, mV,25.0,C,-48.4,mV/dec,M100,#1

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:39:58,46,CH-1,ISE,0.273,ppm,137.7, mV,25.0,C,-48.4,mV/dec,M100,#1

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:42:09,CCV,CH-1,ISE,52.1,ppm,19.2, mV,25.0,C,-58.8,mV/dec,M100,#1

A214 pH/ISE,X03759,3.04,ABCDE,09/24/21 16:50:28,CCB,CH-1,ISE,0.0381,ppm,179.1, mV,25.0,C,-48.4,mV/dec,M100,#1

1031783074

.027

CCV 1

CCB 1

.028

.030

.032

.033

.035

.036

038

046

CCV 2

CCB 2

RB 9/24/21

1091738 3071

# TOTAL DISSOLVED SOLIDS DATA SHEET

SM2540C-11

Analyst: PM Date: 9/15/21 BATCH No.: 1195

| Lab. Sample # | Sample Vol. (mL) | Dish Wt. (g) | Time Dish In/Out Oven (1) | Verif. Dish Wt. (g) 2 | Time Dish In/Out Oven (2) | 1st Residue Wt. * (g) | Time Residue In/Out Oven (1) | 2nd Residue Wt.* (g) | Time Residue In/Out Oven (2) | Weight Change Less than 0.5 mg? | Initial Oven Temp. | Final Oven Temp. | Dish No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MB | 25 | 41.0719 | 9/20 / 1014 | 41.0718 | 11/4 / 1240 | 41.0718 | 9/20 / 1030 | 41.0718 | 11/21 / RBO | | 179.1 | 178.8 | |
| LCS 1 | | 40.3972 | / | 40.3971 | / | 40.4044 | / | 40.4043 | / | | | | |
| LCSD | | 37.7082 | / | 37.7080 | / | 37.7154 | / | 37.7153 | / | | | | |
| DUP A2259SD.001 | | 30.0979 | / | 30.0978 | / | 30.1010 | / | 30.1008 | / | | | | |
| A2259SD.001 | | 39.3706 | / | 39.3704 | / | 39.4144 | / | 39.4142 | / | | | | |
| 2. 003 | | 33.4289 | / | 33.4287 | / | 33.4440 | / | 33.4438 | / | | | | |
| 3. 005 | | 38.5723 | / | 38.5721 | / | 38.5843 | / | 38.5841 | / | | | | |
| A2259G6.001 | | 30.7903 | / | 30.7901 | / | 30.7934 | / | 30.7932 | / | | | | |
| 5. 003 | | 38.7175 | / | 38.7177 | / | 38.7178 | / | 38.7178 | / | | | | |
| A2259G9.001 | | 31.5520 | 11/20 / 1230 | 31.5518 | 3/10 / 1410 | 31.5751 | / | 31.5750 | / | | | | |
| 7. 003 | | 31.5687 | / | 31.5688 | / | 31.5817 | / | 31.5815 | / | | | | |
| 8. 005 | | 33.3595 | / | 33.3596 | / | 33.3596 | / | 33.3596 | / | | | | |
| 9. 006 | | 31.9641 | / | 31.9640 | / | 31.9871 | / | 31.9868 | / | | | | |
| LF MW-22 | | 30.9606 | / | 30.9607 | / | 30.9632 | / | 30.9632 | / | | A2260 | 83.001 | 1 |
| LF MW-8 | | 38.5557 | / | 38.5556 | / | 38.6313 | / | 38.6312 | / | | | 002 | 2 |
| LF MW-8 | | 38.3168 | / | 38.3167 | / | 38.3927 | / | 38.3925 | / | | | 002 | 2 |
| LF MW-10 | | 30.7632 | / | 30.7633 | / | 30.7729 | / | 30.7728 | / | | | 003 | 3 |
| LF3 20210913 | | 30.3533 | / | 30.3534 | / | 30.3534 | / | 30.3534 | / | | | 005 | 4 |
| LF MW-9 | | 34.7886 | / | 34.7855 | / | 34.7950 | / | 34.7946 | / | | | 006 | 5 |
| LF MW-11 | | 32.6849 | / | 32.6848 | / | 32.7060 | / | 32.7059 | / | | | 008 | 6 |
| DUP-01 20210913 | | 30.9122 | / | 30.9124 | / | 30.9324 | / | 30.9322 | / | | | 009 | 7 |
| LF MW-7 | | 28.3776 | / | 28.3777 | / | 28.3880 | / | 28.3879 | / | | | 011 | 8 |
| 18. | | | / | | / | | / | | / | | | | |
| 19. | | | / | | / | | / | | / | | | | |
| 20. | | | / | | / | | / | | / | | | | |

**Note: Run a duplicate every ten samples.**

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* constant weight if weight change is less than 0.5 mg

8600

1091738 3078

# TOTAL DISSOLVED SOLIDS DATA SHEET

SM2540C-11

Analyst: JM  Date: 9/17/21  BATCH No.: 1196

| Lab. Sample # | Sample Vol. (mL) | Dish Wt. (g) | Time Dish In/Out Oven (1) | Verif. Dish Wt. (g) 2 | Time Dish In/Out Oven (2) | 1st Residue Wt. * (g) | Time Residue In/Out Oven (1) 9/20/21 | 2nd Residue Wt.* (g) | Time Residue In/Out Oven (2) | Weight Change Less than 0.5 mg? | Initial Oven Temp. | Final Oven Temp. | Dish No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MB | 25 | 33.1752 | 9/17/21 0915 | 33.1757 | 9/20/21 1230 | 33.1757 | 9/20/21 0130 | 33.1757 | 9/21/21 1230 | | 179.4 | 179.2 | |
| LCS 1 | | 39.1315 | / | 39.1314 | / | 39.1387 | / | 39.1388 | / | | | | |
| LCSD | | 33.4531 | / | 33.4538 | / | 33.4606 | / | 33.4608 | / | | | | |
| ADUP 21259791.001 | | 36.4741 | / | 36.4740 | / | 36.4989 | / | 36.4988 | / | | | | |
| 1. 001 | | 38.3162 | / | 38.3165 | / | 38.3409 | / | 38.3410 | / | | | | |
| 2. 003 | | 32.6857 | / | 32.6850 | / | 32.7006 | / | 32.7005 | / | | | | |
| 3. 005 | | 38.5719 | / | 38.5720 | / | 38.5971 | / | 38.5967 | / | | | | |
| A D2259794.001 | | 30.3536 | / | 30.3537 | / | 30.3573 | / | 30.3574 | / | | | | |
| 5. 002 | | 30.0979 | / | 30.0978 | / | 30.1020 | / | 30.1018 | / | | | | |
| 6. 003 | | 30.7630 | / | 30.7632 | / | 30.7670 | / | 30.7666 | / | | | | |
| 7 MW 21 | | 40.6129 | / | 40.6130 | / | 40.6154 | / | 40.6153 | / | | 179.3 | 179.2 | 9 |
| 8. 12 | | 40.3973 | / | 40.3972 | / | 40.4084 | / | 40.4080 | / | | | 179.4 | 10 |
| 9. 6 | | 38.7178 | / | 38.7177 | / | 38.7230 | / | 38.7231 | / | | | 179.6 | 11 |
| 10. 13 | | 28.3777 | / | 28.3780 | / | 28.3877 | / | 28.3874 | / | | | 179.8 | 12 |
| DUP 15 | | 38.5558 | / | 38.5557 | / | 38.6007 | / | 38.6010 | / | | | 179.9 | 13 |
| 11. 15 | | 30.7905 | / | 30.7906 | / | 30.8366 | / | 30.8364 | / | | | 179.9 | 13 |
| 12. 56 | | 33.4292 | / | 33.4294 | / | 33.4360 | / | 33.4357 | / | | | 180.1 | 14 |
| 13. DUP-2 | | 30.9605 | / | 30.9606 | / | 30.9666 | / | 30.9663 | / | | | 180.3 | 15 |
| 14. 59 | | 34.7856 | / | 34.7857 | / | 34.7960 | / | 34.7957 | / | | | 180.6 | 16 |
| 15. 17 | | 30.9130 | / | 30.9128 | / | 30.9395 | / | 30.9393 | / | | | 180.7 | 17 |
| 16. 4 | | 39.8796 | / | 39.8794 | / | 39.9494 | / | 39.9491 | / | * Repeat in | | 180.8 | 18 |
| 17. 16 | | 40.0782 | / | 40.0787 | / | 40.0866 | / | 40.0863 | / | not batch | | 180.10 | 19 |
| 18. 3 | | 31.5516 | / | 31.5519 | / | 32.0646 | / | 32.0646 * | / | with less volume | | 180.11 | 20 |
| 19. FB | | 33.3587 | / | 33.3590 | / | 33.3594 | / | 33.3593 | / | | | 180.3 | 21 |
| 20. | | | / | | / | | / | | / | | | | |

**Note: Run a duplicate every ten samples.**



* constant weight if weight change is less than 0.5 mg

1091738 3077

# TOTAL DISSOLVED SOLIDS DATA SHEET

**SM2540C-11**

**Analyst:** BM **Date:** 9/20/21 **BATCH No.:** 1198

| Lab. Sample # | Sample Vol. (mL) | Dish Wt. (g) | Time Dish In/Out Oven (1) | Verif. Dish Wt. (g) 2 | Time Dish In/Out Oven (2) | 1st Residue Wt. * (g) | Time Residue In/Out Oven (1) 9/21 | 2nd Residue Wt.* (g) | Time Residue In/Out Oven (2) | Weight Change Less than 0.5 mg? | Initial Oven Temp. | Final. Oven Temp. | Dish No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MB | 25 | 34.4549 | D1W/B1W | 34.4548 | 1W0/B1W | 34.4548 | 9W/10130 | 34.4548 | 1130/1230 | | 179.8 | 179.4 | |
| LCS 1 | | 34.8775 | / | 34.8776 | / | 34.8857 | / | 34.8849 | / | | | | |
| LCSD | | 32.8551 | / | 32.8548 | / | 32.8626 | / | 32.8623 | / | | | | |
| LFB 219 | | 29.0572 | / | 29.0570 | / | 29.3180 | / | 29.3180 | / | * | AD26053.048 | | 23 |
| FMB 219 | | 32.0279 | / | 32.0278 | / | 32.2885 | / | 32.2885 | / | * | | 048 | 23 |
| 2. 23 | | 30.3844 | / | 30.3842 | / | 30.3870 | / | 30.3866 | / | | | 046 | 22 |
| 3. 2 | | 32.0368 | / | 32.0370 | / | 32.3942 | / | 32.3942 | / | * | | 036 | 24 |
| 4. 15 | | 40.4268 | / | 40.4270 | / | 40.4534 | / | 40.4533 | / | | | 035 | 25 |
| 5. 15 09 | ↓ | 39.0948 | / | 39.0947 | / | 39.0990 | / | 39.0986 | / | | | 035 | 26 |
| 6. | 5.0 | 39.1253 | / | 39.1254 | / | 39.2172 | / | 39.2170 | / | | | 032 | 20 |
| AD26059.002 | 25 | 37.8374 | / | 37.8372 | / | 37.8730 | / | 378726 | / | | | | |
| 8. 004 | | 29.5417 | / | 29.5419 | / | 29.5717 | / | 29.5713 | / | | | | |
| 9. 006 | | 32.5447 | / | 32.5450 | / | 32.5750 | / | 32.5749 | / | | | | |
| 10. ↓ 008 | | 39.3407 | / | 39.3408 | / | 39.3848 | / | 39.3844 | / | | | | |
| FMB 1 | | 31.4611 | / | 31.4613 | / | 31.5788 | / | 31.5785 | / | | | 040 | 27MS |
| 11. 1 | | 32.2585 | / | 32.2584 | / | 32.3766 | / | 32.3764 | / | | | 040 | 27 |
| 12. | | | / | | / | | / | | / | | | | |
| 13. | | | / | | / | | / | | / | | | | |
| 14. | | | / | | / | | / | | / | | | | |
| 15. | | | / | | / | | X / Repeat in the next batch with less volume | | | | | | |
| 16. | | | / | | / | | / | | | | | | |
| 17. | | | / | | / | | / | | / | | | | |
| 18. | | | / | | / | | / | | / | | | | |
| 19. | | | / | | / | | / | | / | | | | |
| 20. | | | / | | / | | / | | / | | | | |

**Note: Run a duplicate every ten samples.**

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* constant weight if weight change is less than 0.5 mg

0002

1091738 3078



# TOTAL DISSOLVED SOLIDS DATA SHEET

SM2540C-11

Analyst: BM

Date: 9/22/21

BATCH No.: 1199

| Lab. Sample # | Sample Vol. (mL) | Dish Wt. (g) | Time Dish In/Out Oven (1) | Verif. Dish Wt. (g) 2 | Time Dish In/Out Oven (2) | 1st Residue Wt.* (g) | Time Residue In/Out Oven (1) | 2nd Residue Wt.* (g) | Time Residue In/Out Oven (2) | Weight Change Less than 0.5 mg? | Initial Oven Temp. | Final Oven Temp. | Dish No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MB | 25 | 40.7140 | 10:40/11:40 | 40.7140 | 12:40 B14 | 40.7144 | 9:40/10:30 | 40.7143 | 10:30/12:30 | | 179°C | 179.4 | |
| LCS 1 | | 34.8776 | / | 34.8774 | / | 34.8848 | / | 34.8850 | / | | | | |
| LCSD | | 36.0853 | / | 36.0852 | / | 36.0930 | / | 36.0929 | / | | | | |
| DUP A226097-001 | | 33.9968 | / | 33.9971 | / | 34.0112 | / | 34.0110 | / | | | | |
| 1. 001 | | 25.6409 | / | 25.6410 | / | 25.6546 | / | 25.6548 | / | | | | |
| A226122-002 | | 31.4950 | / | 31.4947 | / | 31.4998 | / | 31.4997 | / | | | | |
| A226002-001 | 5.0 | 40.8599 | / | 40.8595 | / | 40.9077 | / | 40.9075 | / | | | | |
| 4. 004 | 5.0 | 40.1793 | / | 40.1796 | / | 40.2591 | / | 40.2589 | / | | | | |
| 5. 006 | 2.0 | 32.0740 | / | 32.0736 | / | 32.1680 | / | 32.1676 | / | | | | |
| 6. 012 | 2.0 | 28.3783 | / | 28.3781 | / | 28.4690 | / | 28.4686 | / | | | | |
| A226083-036 | 5.0 | 31.5523 | / | 31.5522 | / | 31.6454 | / | 31.6457 | / | | | | |
| 8. 046 | 5.0 | 29.9945 | / | 29.9944 | / | 30.0440 | / | 30.0438 | / | | | | |
| 9. | | | / | | / | | / | | / | | | | |
| 10. | | | / | | / | | / | | / | | | | |
| DUP | | | / | | / | | / | | / | | | | |
| 11. | | | / | | / | | / | | / | | | | |
| 12. | | | / | | / | | / | | / | | | | |
| 13. | | | / | | / | | / | | / | | | | |
| 14. | | | / | | / | | / | | / | | | | |
| 15. | | | / | | / | | / | | / | | | | |
| 16. | | | / | | / | | / | | / | | | | |
| 17. | | | / | | / | | / | | / | | | | |
| 18. | | | / | | / | | / | | / | | | | |
| 19. | | | / | | / | | / | | / | | | | |
| 20. | | | / | | / | | / | | / | | | | |

**Note: Run a duplicate every ten samples.**

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* constant weight if weight change is less than 0.5 mg

0003

# RUN LOG

Instrument: IC2 BatchId: 202109141234 Analyzed By: Janee

| Run# | Qc Type | Sample ID | Flag summary: | Comments | An Date/Time: | Dil | Prep Batch | Method Blank |
|---|---|---|---|---|---|---|---|---|
| 1 | ICS | BLANK | | | 09/14/21 12:34 | 1 | | |
| 2 | ICS | 1 PPM | | . V-357687 | 09/14/21 13:55 | 1 | | |
| 3 | ICS | 5 PPM | | . V-357688 | 09/14/21 14:23 | 1 | | |
| 4 | ICS | 10 PPM | | . V-357689 | 09/14/21 14:50 | 1 | | |
| 5 | ICS | 20 PPM | Oc | . V-357690 | 09/14/21 15:17 | 1 | | |
| 6 | ICS | 50 PPM | Oc | . V-357691; deselected no2, no3, br, f, po4 peaks | 09/14/21 16:14 | 1 | | |
| 7 | ICV | ICV | | . V-357692 | 09/14/21 16:53 | 1 | | |
| 8 | ICB | ICB | | .g | 09/14/21 17:20 | 1 | | |
| 9 | MB | MBW-2786 | | .g | 09/14/21 17:48 | 1 | W-2786 | MBW-2786 |
| 10 | LCS | LCSW-2786 | | . V-357693 | 09/14/21 18:15 | 1 | W-2786 | MBW-2786 |
| 11 | SMP | AD25918-001,W-2786,MBW-2786 | | .g | 09/14/21 18:42 | 1 | W-2786 | MBW-2786 |
| 12 | MS | AD25918-001MS,W-2786,MBW-2786 | | .g | 09/14/21 19:09 | 1 | W-2786 | MBW-2786 |
| 13 | MSD | AD25918-001MSD,W-2786,MBW-2786 | | .g | 09/14/21 19:36 | 1 | W-2786 | MBW-2786 |
| 14 | SMP | AD25918-002,W-2786,MBW-2786 | | .g | 09/14/21 20:03 | 1 | W-2786 | MBW-2786 |
| 15 | SMP | AD25918-003,W-2786,MBW-2786 | | .g | 09/14/21 20:31 | 1 | W-2786 | MBW-2786 |
| 16 | SMP | AD25918-004,W-2786,MBW-2786 | | .g | 09/14/21 20:58 | 1 | W-2786 | MBW-2786 |
| 17 | SMP | AD25918-006,W-2786,MBW-2786 | | .g | 09/14/21 21:25 | 1 | W-2786 | MBW-2786 |
| 18 | SMP | AD25918-007,W-2786,MBW-2786 | | .g | 09/14/21 21:52 | 1 | W-2786 | MBW-2786 |
| 19 | CCV | CCV | | . V-357692 | 09/14/21 22:19 | 1 | | MBW-2786 |
| 20 | CCB | CCB | | .g | 09/14/21 22:47 | 1 | | MBW-2786 |
| 21 | SMP | AD25918-008,W-2786,MBW-2786 | | .g | 09/14/21 23:14 | 1 | W-2786 | MBW-2786 |
| 22 | SMP | AD26083-001,W-2786.MBW-2786 | Oc | .g, dil | 09/14/21 23:41 | 1 | W-2786 | MBW-2786 |
| 23 | SMP | AD26083-002,W-2786.MBW-2786 | Oc | .g, dil | 09/15/21 00:08 | 1 | W-2786 | MBW-2786 |
| 24 | SMP | AD26083-003,W-2786.MBW-2786 | Oc | .g, dil | 09/15/21 00:35 | 1 | W-2786 | MBW-2786 |
| 25 | SMP | AD26083-005,W-2786.MBW-2786 | | .g | 09/15/21 01:03 | 1 | W-2786 | MBW-2786 |
| 26 | SMP | AD26083-006,W-2786.MBW-2786 | | .g | 09/15/21 01:30 | 1 | W-2786 | MBW-2786 |
| 27 | SMP | AD26083-008,W-2786.MBW-2786 | Oc | .g, dil | 09/15/21 01:57 | 1 | W-2786 | MBW-2786 |
| 28 | SMP | AD26083-009,W-2786.MBW-2786 | Oc,Ho | .g, dil | 09/15/21 02:24 | 1 | W-2786 | MBW-2786 |
| 29 | SMP | AD26083-011,W-2786.MBW-2786 | Oc,Ho | .g, dil | 09/15/21 02:51 | 1 | W-2786 | MBW-2786 |
| 30 | CCV | CCV | | . V-357692 | 09/15/21 03:18 | 1 | | |
| 31 | CCB | CCB | | .g | 09/15/21 03:46 | 1 | | |
| 32 | UNK | BLANK | | .g | 09/15/21 07:15 | 1 | | |
| 33 | CCV | CCV | | . V-357695 | 09/15/21 07:42 | 1 | | |
| 34 | CCB | CCB | | .g | 09/15/21 08:31 | 1 | | |
| 35 | MB | MBW-2787 | | .g | 09/15/21 08:58 | 1 | W-2787 | MBW-2787 |
| 36 | LCS | LCSW-2787 | | . V-357696 | 09/15/21 09:24 | 1 | W-2787 | MBW-2787 |
| 37 | SMP | AD25967-001,W-2787,MBW-2787 | Oc | .g, dil | 09/15/21 10:07 | 1 | W-2787 | MBW-2787 |
| 38 | SMP | AD25948-001,W-2787,MBW-2787 | | .g | 09/15/21 10:38 | 1 | W-2787 | MBW-2787 |
| 39 | MS | AD25948-002MS,W-2787,MBW-2787 | | .g | 09/15/21 11:05 | 1 | W-2787 | MBW-2787 |
| 40 | MSD | AD25948-003MSD,W-2787,MBW-2787 | | .g | 09/15/21 11:33 | 1 | W-2787 | MBW-2787 |
| 41 | SMP | AD25948-004,W-2787,MBW-2787 | | .g | 09/15/21 12:00 | 1 | W-2787 | MBW-2787 |
| 42 | SMP | AD25948-005,W-2787,MBW-2787 | | .g | 09/15/21 12:27 | 1 | W-2787 | MBW-2787 |
| 43 | SMP | AD25948-006,W-2787,MBW-2787 | | .g | 09/15/21 12:54 | 1 | W-2787 | MBW-2787 |
| 44 | SMP | AD25948-007,W-2787,MBW-2787 | Oc | .g | 09/15/21 13:21 | 1 | W-2787 | MBW-2787 |
| 45 | CCV | CCV | | . V-357695 | 09/15/21 13:48 | 1 | | MBW-2787 |
| 46 | CCB | CCB | | .g | 09/15/21 14:16 | 1 | | MBW-2787 |
| 47 | SMP | AD25967-001,W-2787,MBW-2787,20X | Uc | .g | 09/15/21 14:43 | 20 | W-2787 | MBW-2787 |
| 48 | UNK | MDLW Q3-1 | | .g | 09/15/21 15:10 | 1 | | MBW-2787 |
| 49 | MB | MBS | | .g | 09/15/21 15:37 | 1 | W-2787 | MBW-2787 |
| 50 | UNK | MDLS Q3-1 | | .g | 09/15/21 16:04 | 1 | | MBW-2787 |
| 51 | CCV | CCV | | . V-357695 | 09/15/21 16:32 | 1 | | MBW-2787 |

| Flag Code: | Flag Code Description | Flag Code: | Flag Code Description |
|---|---|---|---|
| Cs | CCV Out epa9056 | Cw | CCV out 300.0 rev2.1 |
| Ho | Hold Time Exceeded | I1 | Init Cal x and y value problem |
| I2 | Init Cal missing a data point | I3 | Init Cal missing a Compound |
| I4 | Init Cal Rsd < .995 | Is | ICV out epa 9056 |
| Iw | ICV Out 300.0 rev2.1 | Ls | LCS Out EPA 9056 |
| Lw | LCS Out 300.0 rev2.1 | Ms | Spike Out EPA 9056 |
| Mw | Spike Out EPA 300.0 REV2.1 | Oc | Over Calibration/Linear Range |

# RUN LOG

Instrument: IC2 BatchId: 202109141234 Analyzed By: Janee

| Run# | Qc Type | Sample ID | Flag summary: | Comments | An Date/Time: | Dil | Prep Batch | Method Blank |
|---|---|---|---|---|---|---|---|---|
| 52 | CCB | CCB | | .g | 09/15/21 16:59 | 1 | | MBW-2787 |
| 53 | UNK | BLANK | | .g | 09/15/21 18:49 | 1 | | MBW-2787 |
| 54 | SMP | AD26083-012,W-2787,MBW-2787 | | .g | 09/15/21 19:17 | 1 | W-2787 | MBW-2787 |
| 55 | SMP | AD26083-014,W-2787,MBW-2787 | Oc | .g, dil | 09/15/21 19:44 | 1 | W-2787 | MBW-2787 |
| 56 | SMP | AD26083-016,W-2787,MBW-2787 | | .g | 09/15/21 20:11 | 1 | W-2787 | MBW-2787 |
| 57 | SMP | AD26083-018,W-2787,MBW-2787 | Oc | .g, dil | 09/15/21 20:38 | 1 | W-2787 | MBW-2787 |
| 58 | SMP | AD26083-019,W-2787,MBW-2787 | Oc | .g, dil | 09/15/21 21:05 | 1 | W-2787 | MBW-2787 |
| 59 | SMP | AD26083-021,W-2787,MBW-2787 | | .g | 09/15/21 21:33 | 1 | W-2787 | MBW-2787 |
| 60 | SMP | AD26083-023,W-2787,MBW-2787 | | .g | 09/15/21 22:00 | 1 | W-2787 | MBW-2787 |
| 61 | CCV | CCV | | . V-357695 | 09/15/21 22:27 | 1 | | MBW-2787 |
| 62 | CCB | CCB | | .g | 09/15/21 22:54 | 1 | | MBW-2787 |
| 63 | UNK | BLANK | | .g | 09/16/21 10:43 | 1 | | MBW-2787 |
| 64 | CCV | CCV | | . V-357698 | 09/16/21 11:10 | 1 | | MBW-2787 |
| 65 | CCB | CCB | | .g | 09/16/21 11:37 | 1 | | MBW-2787 |
| 66 | MB | MBW-2788 | | .g | 09/16/21 12:04 | 1 | W-2788 | MBW-2788 |
| 67 | UNK | MDLW Q3-2 | | .g | 09/16/21 12:30 | 1 | | MBW-2787 |
| 68 | LCS | LCSW-2788 | | . V-357699 | 09/16/21 13:24 | 1 | W-2788 | MBW-2788 |
| 69 | SMP | AD26083-026,W-2788,MBW-2788 | Oc | .g, dil | 09/16/21 13:51 | 1 | W-2788 | MBW-2788 |
| 70 | MS | AD26083-026MS,W-2788,MBW-2788 | Oc | .g | 09/16/21 14:19 | 1 | W-2788 | MBW-2788 |
| 71 | MSD | AD26083-026MSD,W-2788,MBW-2788 | Oc | .g | 09/16/21 14:46 | 1 | W-2788 | MBW-2788 |
| 72 | SMP | AD26083-027,W-2788,MBW-2788 | Oc | .g, dil | 09/16/21 15:13 | 1 | W-2788 | MBW-2788 |
| 73 | SMP | AD26083-028,W-2788,MBW-2788 | Oc | .g, dil | 09/16/21 15:40 | 1 | W-2788 | MBW-2788 |
| 74 | SMP | AD26083-030,W-2788,MBW-2788 | Oc | .g, dil | 09/16/21 16:07 | 1 | W-2788 | MBW-2788 |
| 75 | SMP | AD26083-032,W-2788,MBW-2788 | Oc | .g, dil | 09/16/21 16:35 | 1 | W-2788 | MBW-2788 |
| 76 | CCV | CCV | | . V-357698 | 09/16/21 17:29 | 1 | | MBW-2788 |
| 77 | CCB | CCB | | .g | 09/16/21 17:56 | 1 | | MBW-2788 |
| 78 | SMP | AD26083-033,W-2788,MBW-2788 | | .g | 09/16/21 18:23 | 1 | W-2788 | MBW-2788 |
| 79 | MB | MBS-1449 | | .g | 09/16/21 18:51 | 1 | S-1449 | MBS-1449 |
| 80 | LCS | LCSS-1449 | | . V-357699 | 09/16/21 19:18 | 1 | S-1449 | MBS-1449 |
| 81 | UNK | MDLS Q3-2 | | .g | 09/16/21 19:45 | 1 | | MBS-1449 |
| 82 | SMP | AD25972-003,S-1449,MBS-1449 | | .qc only | 09/16/21 20:12 | 1 | S-1449 | MBS-1449 |
| 83 | MS | AD25972-003MS,S-1449,MBS-1449 | Ms | .qc only | 09/16/21 20:39 | 1 | S-1449 | MBS-1449 |
| 84 | MSD | AD25972-003MSD,S-1449,MBS-1449 | | .qc only | 09/16/21 21:07 | 1 | S-1449 | MBS-1449 |
| 85 | SMP | AD26012-001,S-1449,MBS-1449 | | .g | 09/16/21 21:34 | 1 | S-1449 | MBS-1449 |
| 86 | SMP | AD26014-001,S-1449,MBS-1449 | | .g | 09/16/21 22:01 | 1 | S-1449 | MBS-1449 |
| 87 | UNK | BLANK | | .g | 09/16/21 22:28 | 1 | | MBS-1449 |
| 88 | CCV | CCV | | . V-357698 | 09/16/21 22:55 | 1 | | MBS-1449 |
| 89 | CCB | CCB | | .g | 09/16/21 23:23 | 1 | | MBS-1449 |
| 90 | UNK | BLANK | | .g | 09/17/21 10:07 | 1 | | MBS-1449 |
| 91 | CCV | CCV | | . V-357701 | 09/17/21 10:34 | 1 | | MBS-1449 |
| 92 | CCB | CCB | | .g | 09/17/21 11:01 | 1 | | MBS-1449 |
| 93 | MB | MBS-1450 | | .g | 09/17/21 11:28 | 1 | S-1450 | MBS-1450 |
| 94 | LCS | LCSS-1450 | | . V-357702 | 09/17/21 11:54 | 1 | S-1450 | MBS-1450 |
| 95 | UNK | MDLS Q3-3 | | .g | 09/17/21 12:21 | 1 | | MBS-1450 |
| 96 | SMP | AD26013-003,S-1450,MBS-1450 | | .g | 09/17/21 12:53 | 1 | S-1450 | MBS-1450 |
| 97 | MS | AD26013-003MS,S-1450,MBS-1450 | | .g | 09/17/21 13:20 | 1 | S-1450 | MBS-1450 |
| 98 | MSD | AD26013-003MSD,S-1450,MBS-1450 | | .g | 09/17/21 13:47 | 1 | S-1450 | MBS-1450 |
| 99 | SMP | AD26013-005,S-1450,MBS-1450 | | .g | 09/17/21 14:15 | 1 | S-1450 | MBS-1450 |
| 100 | MB | MBW-2789 | | .g | 09/17/21 14:42 | 1 | W-2789 | MBW-2789 |
| 101 | LCS | LCSW-2789 | | . V-357702 | 09/17/21 15:09 | 1 | W-2789 | MBW-2789 |
| 102 | UNK | MDLW-Q3-3 | | .g | 09/17/21 15:36 | 1 | | MBW-2789 |
| 103 | CCV | CCV | | . V-357701 | 09/17/21 16:03 | 1 | | MBW-2789 |

| Flag Code: | Flag Code Description |
|---|---|
| Cs | CCV Out epa9056 |
| Ho | Hold Time Exceeded |
| I2 | Init Cal missing a data point |
| I4 | Init Cal Rsd < .995 |
| Iw | ICV Out 300.0 rev2.1 |
| Lw | LCS Out 300.0 rev2.1 |
| Mw | Spike Out EPA 300.0 REV2.1 |

| Flag Code: | Flag Code Description |
|---|---|
| Cw | CCV out 300.0 rev2.1 |
| I1 | Init Cal x and y value problem |
| I3 | Init Cal missing a Compound |
| Is | ICV out epa 9056 |
| Ls | LCS Out EPA 9056 |
| Ms | Spike Out EPA 9056 |
| Oc | Over Calibration/Linear Range |

# RUN LOG

Instrument: IC2 BatchId: 202109141234 Analyzed By: Janee

| Run# | Qc Type | Sample ID | Flag summary: | Comments | An Date/Time: | Dil | Prep Batch | Method Blank |
|---|---|---|---|---|---|---|---|---|
| 104 | CCB | CCB | | .g | 09/17/21 16:31 | 1 | | MBW-2789 |
| 105 | SMP | AD26013-001,W-2789,MBW-2789 | | .g | 09/17/21 16:58 | 1 | W-2789 | MBW-2789 |
| 106 | SMP | AD26013-002,W-2789,MBW-2789 | | .g | 09/17/21 17:25 | 1 | W-2789 | MBW-2789 |
| 107 | SMP | AD26061-001,W-2789,MBW-2789 | Oc | .g, dil | 09/17/21 17:52 | 1 | W-2789 | MBW-2789 |
| 108 | SMP | AD26083-048,W-2789,MBW-2789 | Oc | .g, dil | 09/17/21 18:47 | 1 | W-2789 | MBW-2789 |
| 109 | MS | AD26083-049MS,W-2789,MBW-2789 | Mw,Oc | .g, dil | 09/17/21 19:12 | 1 | W-2789 | MBW-2789 |
| 110 | MSD | AD26083-050MSD,W-2789,MBW-2789 | MW,Oc | .g, dil | 09/17/21 19:39 | 1 | W-2789 | MBW-2789 |
| 111 | SMP | AD26083-046,W-2789,MBW-2789 | | .g | 09/17/21 20:06 | 1 | W-2789 | MBW-2789 |
| 112 | SMP | AD26083-036,W-2789,MBW-2789 | Oc | .g, dil | 09/17/21 20:34 | 1 | W-2789 | MBW-2789 |
| 113 | SMP | AD26083-035,W-2789,MBW-2789 | Oc | .g, dil | 09/17/21 21:01 | 1 | W-2789 | MBW-2789 |
| 114 | UNK | BLANK | | .g | 09/17/21 21:28 | 1 | | MBW-2789 |
| 115 | CCV | CCV | | . V-357701 | 09/17/21 21:55 | 1 | | MBW-2789 |
| 116 | CCB | CCB | | .g | 09/17/21 22:22 | 1 | | MBW-2789 |
| 117 | MB | MBW-2790 | | .g | 09/17/21 22:49 | 1 | W-2790 | MBW-2790 |
| 118 | LCS | LCSW-2790 | | . V-357702 | 09/17/21 23:17 | 1 | W-2790 | MBW-2790 |
| 119 | SMP | AD26083-040,W-2790,MBW-2790 | Oc | .g, dil | 09/17/21 23:44 | 1 | W-2790 | MBW-2790 |
| 120 | MS | AD26083-042MS,W-2790,MBW-2790 | Mw,Oc | .g, dil | 09/18/21 00:11 | 1 | W-2790 | MBW-2790 |
| 121 | MSD | AD26083-044MSD,W-2790,MBW-2790 | MW,Oc | .g, dil | 09/18/21 00:38 | 1 | W-2790 | MBW-2790 |
| 122 | SMP | AD26083-038,W-2790,MBW-2790 | | .g | 09/18/21 01:05 | 1 | W-2790 | MBW-2790 |
| 123 | UNK | BLANK | | .g | 09/18/21 01:33 | 1 | | MBW-2790 |
| 124 | CCV | CCV | | . V-357701 | 09/18/21 02:00 | 1 | | MBW-2790 |
| 125 | CCB | CCB | | .g | 09/18/21 02:27 | 1 | | MBW-2790 |
| 126 | UNK | BLANK | | .g | 09/21/21 11:14 | 1 | | MBW-2790 |
| 127 | CCV | CCV | | .V-357947 | 09/21/21 11:41 | 1 | | MBW-2790 |
| 128 | CCB | CCB | | .g | 09/21/21 12:08 | 1 | | MBW-2790 |
| 129 | MB | MBW-2791 | | .g | 09/21/21 12:36 | 1 | W-2791 | MBW-2791 |
| 130 | LCS | LCSW-2791 | | .V-357948 | 09/21/21 14:48 | 1 | W-2791 | MBW-2791 |
| 131 | SMP | AD26002-008,W-2791,MBW-2791 | Oc | .dil | 09/21/21 15:36 | 1 | W-2791 | MBW-2791 |
| 132 | MS | AD26002-008MS,W-2791,MBW-2791 | Mw,Oc | .g | 09/21/21 16:03 | 1 | W-2791 | MBW-2791 |
| 133 | MSD | AD26002-008MSD,W-2791,MBW-2791 | MW,Oc | .g | 09/21/21 16:30 | 1 | W-2791 | MBW-2791 |
| 134 | SMP | AD26122-002,W-2791,MBW-2791 | | .g | 09/21/21 16:58 | 1 | W-2791 | MBW-2791 |
| 135 | SMP | AD26083-001,W-2791,MBW-2791,2X | Uc,UcHo | .g | 09/21/21 17:40 | 2 | W-2791 | MBW-2791 |
| 136 | SMP | AD26083-002,W-2791,MBW-2791,50X | Uc,UcHo | .g | 09/21/21 18:07 | 50 | W-2791 | MBW-2791 |
| 137 | SMP | AD26083-003,W-2791,MBW-2791,2X | Uc,UcHo | .g | 09/21/21 18:34 | 2 | W-2791 | MBW-2791 |
| 138 | SMP | AD26083-008,W-2791,MBW-2791,5X | Uc,UcHo | .g | 09/21/21 19:02 | 5 | W-2791 | MBW-2791 |
| 139 | CCV | CCV | | .V-357947 | 09/21/21 19:29 | 1 | | MBW-2791 |
| 140 | CCB | CCB | | .g | 09/21/21 19:56 | 1 | | MBW-2791 |
| 141 | SMP | AD26083-009,W-2791,MBW-2791,5X | Uc,UcHo | .g | 09/21/21 20:23 | 5 | W-2791 | MBW-2791 |
| 142 | SMP | AD26083-011,W-2791,MBW-2791,5X | Uc,UcHo | .g | 09/21/21 20:50 | 5 | W-2791 | MBW-2791 |
| 143 | SMP | AD26083-014,W-2791,MBW-2791,5X | Uc,UcHo | .g | 09/21/21 21:17 | 5 | W-2791 | MBW-2791 |
| 144 | SMP | AD26083-018,W-2791,MBW-2791,2X | Uc,UcHo | .g | 09/21/21 21:45 | 2 | W-2791 | MBW-2791 |
| 145 | SMP | AD26083-019,W-2791,MBW-2791,50X | Uc,UcHo | .g | 09/21/21 22:12 | 50 | W-2791 | MBW-2791 |
| 146 | SMP | AD26083-019,W-2791,MBW-2791,5X | Uc,Oc,UcH | .g | 09/21/21 22:39 | 5 | W-2791 | MBW-2791 |
| 147 | SMP | AD26083-026,W-2791,MBW-2791,5X | Uc,UcHo | .g | 09/21/21 23:06 | 5 | W-2791 | MBW-2791 |
| 148 | SMP | AD26083-027,W-2791,MBW-2791,100 | Uc,UcHo | .rerun at 10x | 09/21/21 23:33 | 100 | W-2791 | MBW-2791 |
| 149 | SMP | AD26083-028,W-2791,MBW-2791,50X | Uc,UcHo | .g | 09/22/21 00:01 | 50 | W-2791 | MBW-2791 |
| 150 | SMP | AD26083-030,W-2791,MBW-2791,2X | Uc,UcHo | .g | 09/22/21 00:28 | 2 | W-2791 | MBW-2791 |
| 151 | CCV | CCV | | .V-357947 | 09/22/21 00:55 | 1 | | MBW-2791 |
| 152 | CCB | CCB | | .g | 09/22/21 01:22 | 1 | | MBW-2791 |
| 153 | SMP | AD26083-035,W-2791,MBW-2791,20X | Uc,UcHo | .g | 09/22/21 01:49 | 20 | W-2791 | MBW-2791 |
| 154 | SMP | AD26083-036,W-2791,MBW-2791,500 | Uc,UcHo | .g | 09/22/21 02:17 | 500 | W-2791 | MBW-2791 |
| 155 | SMP | AD26083-036,W-2791,MBW-2791,50X | Uc,Oc,UcH | .g | 09/22/21 02:44 | 50 | W-2791 | MBW-2791 |

| Flag Code: | Flag Code Description | Flag Code: | Flag Code Description |
|---|---|---|---|
| Cs | CCV Out epa9056 | Cw | CCV out 300.0 rev2.1 |
| Ho | Hold Time Exceeded | I1 | Init Cal x and y value problem |
| I2 | Init Cal missing a data point | I3 | Init Cal missing a Compound |
| I4 | Init Cal Rsd < .995 | Is | ICV out epa 9056 |
| Iw | ICV Out 300.0 rev2.1 | Ls | LCS Out EPA 9056 |
| Lw | LCS Out 300.0 rev2.1 | Ms | Spike Out EPA 9056 |
| Mw | Spike Out EPA 300.0 REV2.1 | Oc | Over Calibration/Linear Range |

# RUN LOG

Instrument: IC2 BatchId: 202109141234 Analyzed By: Janee

| Run# | Qc Type | Sample ID | Flag summary: | Comments | An Date/Time: | Dil | Prep Batch | Method Blank |
|---|---|---|---|---|---|---|---|---|
| 156 | SMP | AD26083-036,W-2791,MBW-2791,5X | Oc,UcHo | .g | 09/22/21 03:11 | 5 | W-2791 | MBW-2791 |
| 157 | UNK | BLANK | | .g | 09/22/21 03:38 | 1 | | MBW-2791 |
| 158 | CCV | CCV | | .V-357947 | 09/22/21 04:05 | 1 | | MBW-2791 |
| 159 | CCB | CCB | | .g | 09/22/21 04:33 | 1 | | MBW-2791 |
| 160 | UNK | BLANK | | .g | 09/22/21 10:08 | 1 | | MBW-2791 |
| 161 | CCV | CCV | | .V-357950 | 09/22/21 11:20 | 1 | | MBW-2791 |
| 162 | CCB | CCB | | .g | 09/22/21 12:01 | 1 | | MBW-2791 |
| 163 | MB | MBW-2792 | | .g | 09/22/21 12:28 | 1 | W-2792 | MBW-2792 |
| 164 | LCS | LCSW-2792 | | .V-357951 | 09/22/21 12:54 | 1 | W-2792 | MBW-2792 |
| 165 | SMP | AD26128-001,W-2792,MBW-2792 | Oc | .g, dil | 09/22/21 13:21 | 1 | W-2792 | MBW-2792 |
| 166 | MS | AD26128-001MS,W-2792,MBW-2792 | Mw,Oc | .g | 09/22/21 13:48 | 1 | W-2792 | MBW-2792 |
| 167 | MSD | AD26128-001MSD,W-2792,MBW-2792 | MW,Oc | .g | 09/22/21 14:15 | 1 | W-2792 | MBW-2792 |
| 168 | SMP | AD26128-001,W-2792,MBW-2792,50X | Uc | .g | 09/22/21 14:43 | 50 | W-2792 | MBW-2792 |
| 169 | SMP | AD26061-001,W-2792,MBW-2792,20X | Uc,UcHo | .g | 09/22/21 15:10 | 20 | W-2792 | MBW-2792 |
| 170 | SMP | AD26083-040,W-2792,MBW-2792,100 | Uc,UcHo | .g | 09/22/21 15:37 | 100 | W-2792 | MBW-2792 |
| 171 | MS | AD26083-042MS,W-2792,MBW-2792,1 | Uc,UcHo | .g | 09/22/21 16:04 | 100 | W-2792 | MBW-2792 |
| 172 | MSD | AD26083-044MSD,W-2792,MBW-2792, | Uc,UcHo | .g | 09/22/21 16:31 | 100 | W-2792 | MBW-2792 |
| 173 | CCV | CCV | | .V-357950 | 09/22/21 16:58 | 1 | | MBW-2792 |
| 174 | CCB | CCB | | .g | 09/22/21 17:26 | 1 | | MBW-2792 |
| 175 | SMP | AD26083-048,W-2792,MBW-2792,200 | Uc,UcHo | .g | 09/22/21 17:53 | 200 | W-2792 | MBW-2792 |
| 176 | SMP | AD26083-048,W-2792,MBW-2792,10X | Oc,UcHo | .g | 09/22/21 18:20 | 10 | W-2792 | MBW-2792 |
| 177 | SMP | AD26083-048,W-2792,MBW-2792,5X | Oc,UcHo | .g | 09/22/21 18:47 | 5 | W-2792 | MBW-2792 |
| 178 | MS | AD26083-049MS,W-2792,MBW-2792,2 | Uc,UcHo | .g | 09/22/21 19:14 | 200 | W-2792 | MBW-2792 |
| 179 | MS | AD26083-049MS,W-2792,MBW-2792,1 | Oc,UcHo | .g | 09/22/21 19:42 | 10 | W-2792 | MBW-2792 |
| 180 | MS | AD26083-049MS,W-2792,MBW-2792,5 | Oc,Ho | .g | 09/22/21 20:09 | 5 | W-2792 | MBW-2792 |
| 181 | MSD | AD26083-050MSD,W-2792,MBW-2792, | Uc,UcHo | .g | 09/22/21 20:36 | 500 | W-2792 | MBW-2792 |
| 182 | MSD | AD26083-050MSD,W-2792,MBW-2792, | Uc,Oc,UcH | .g | 09/22/21 21:03 | 50 | W-2792 | MBW-2792 |
| 183 | MSD | AD26083-050MSD,W-2792,MBW-2792, | Oc,Ho | .g | 09/22/21 21:30 | 5 | W-2792 | MBW-2792 |
| 184 | UNK | BLANK | | .g | 09/22/21 21:58 | 1 | | MBW-2792 |
| 185 | CCV | CCV | | .V-357950 | 09/22/21 22:25 | 1 | | MBW-2792 |
| 186 | CCB | CCB | | .g | 09/22/21 22:52 | 1 | | MBW-2792 |
| 187 | SMP | AD26083-032,W-2792,MBW-2792,500 | Uc,UcHo | .g | 09/22/21 23:19 | 500 | W-2792 | MBW-2792 |
| 188 | SMP | AD26083-032,W-2792,MBW-2792,50X | Uc,Oc,UcH | .g | 09/22/21 23:46 | 50 | W-2792 | MBW-2792 |
| 189 | SMP | AD26083-032,W-2792,MBW-2792,10X | Oc,UcHo | .g | 09/23/21 00:14 | 10 | W-2792 | MBW-2792 |
| 190 | UNK | BLANK | | .g | 09/23/21 00:41 | 1 | | MBW-2792 |
| 191 | CCV | CCV | | .V-357950 | 09/23/21 01:08 | 1 | | MBW-2792 |
| 192 | CCB | CCB | | .g | 09/23/21 01:35 | 1 | | MBW-2792 |
| 193 | UNK | BLANK | | .g | 09/23/21 10:55 | 1 | | MBW-2792 |
| 194 | CCV | CCV | | .V-357953 | 09/23/21 11:22 | 1 | | MBW-2792 |
| 195 | CCB | CCB | | .g | 09/23/21 11:49 | 1 | | MBW-2792 |
| 196 | MB | MBW-2793 | | .g | 09/23/21 12:16 | 1 | W-2793 | MBW-2793 |
| 197 | LCS | LCSW-2793 | | .V-357954 | 09/23/21 12:42 | 1 | W-2793 | MBW-2793 |
| 198 | SMP | AD26176-001,W-2793,MBW-2793 | Oc | .g, dil | 09/23/21 13:26 | 1 | W-2793 | MBW-2793 |
| 199 | MS | AD26176-001MS,W-2793,MBW-2793 | Mw,Oc | .g | 09/23/21 13:53 | 1 | W-2793 | MBW-2793 |
| 200 | MSD | AD26176-001MSD,W-2793,MBW-2793 | MW,Oc | .g | 09/23/21 14:20 | 1 | W-2793 | MBW-2793 |
| 201 | SMP | AD26176-001,W-2793,MBW-2793,10X | Uc | .g | 09/23/21 14:47 | 10 | W-2793 | MBW-2793 |
| 202 | SMP | AD26078-001,W-2793,MBW-2793 | | .g | 09/23/21 15:14 | 1 | W-2793 | MBW-2793 |
| 203 | SMP | AD26078-002,W-2793,MBW-2793 | | .g | 09/23/21 15:42 | 1 | W-2793 | MBW-2793 |
| 204 | SMP | AD26078-003,W-2793,MBW-2793 | | .g | 09/23/21 16:09 | 1 | W-2793 | MBW-2793 |
| 205 | SMP | AD26078-005,W-2793,MBW-2793 | | .g | 09/23/21 16:36 | 1 | W-2793 | MBW-2793 |
| 206 | CCV | CCV | | .V-357953 | 09/23/21 17:03 | 1 | | MBW-2793 |
| 207 | CCB | CCB | | .g | 09/23/21 17:30 | 1 | | MBW-2793 |

| Flag Code: | Flag Code Description | Flag Code: | Flag Code Description |
|---|---|---|---|
| Cs | CCV Out epa9056 | Cw | CCV out 300.0 rev2.1 |
| Ho | Hold Time Exceeded | I1 | Init Cal x and y value problem |
| I2 | Init Cal missing a data point | I3 | Init Cal missing a Compound |
| I4 | Init Cal Rsd < .995 | Is | ICV out epa 9056 |
| Iw | ICV Out 300.0 rev2.1 | Ls | LCS Out EPA 9056 |
| Lw | LCS Out 300.0 rev2.1 | Ms | Spike Out EPA 9056 |
| Mw | Spike Out EPA 300.0 REV2.1 | Oc | Over Calibration/Linear Range |

# RUN LOG

Instrument: IC2 BatchId: 202109141234 Analyzed By: Janee

| Run# | Qc Type | Sample ID | Flag summary: | Comments | An Date/Time: | Dil | Prep Batch | Method Blank |
|---|---|---|---|---|---|---|---|---|
| 208 | SMP | AD26002-001,W-2793,MBW-2793 | Cw,Oc | .dil | 09/23/21 17:58 | 1 | W-2793 | MBW-2793 |
| 209 | SMP | AD26002-002,W-2793,MBW-2793 | Cw,Oc | .dil | 09/23/21 18:25 | 1 | W-2793 | MBW-2793 |
| 210 | SMP | AD26002-003,W-2793,MBW-2793 | Cw | .g | 09/23/21 18:52 | 1 | W-2793 | MBW-2793 |
| 211 | SMP | AD26002-004,W-2793,MBW-2793 | CwOc | .dil | 09/23/21 19:19 | 1 | W-2793 | MBW-2793 |
| 212 | SMP | AD26002-005,W-2793,MBW-2793 | Cw,Oc | .dil | 09/23/21 19:46 | 1 | W-2793 | MBW-2793 |
| 213 | SMP | AD26002-006,W-2793,MBW-2793 | CwOc | .dil | 09/23/21 20:14 | 1 | W-2793 | MBW-2793 |
| 214 | SMP | AD26002-007,W-2793,MBW-2793 | Cw,Oc | .dil | 09/23/21 20:41 | 1 | W-2793 | MBW-2793 |
| 215 | SMP | AD26002-012,W-2793,MBW-2793 | CwOc | .dil | 09/23/21 21:08 | 1 | W-2793 | MBW-2793 |
| 216 | UNK | BLANK | | .g | 09/23/21 21:35 | 1 | | MBW-2793 |
| 217 | CCV | CCV | CsCw | .V-357953 | 09/23/21 22:02 | 1 | | MBW-2793 |
| 218 | CCB | CCB | CwCs | .g | 09/23/21 22:29 | 1 | | MBW-2793 |
| 219 | SMP | AD26083-046,W-2793,MBW-2793 | Cw,Ho | .g | 09/23/21 22:57 | 1 | W-2793 | MBW-2793 |
| 220 | SMP | AD26083-027,W-2793,MBW-2793,10X | CwUc,UcHo | .g | 09/23/21 23:24 | 10 | W-2793 | MBW-2793 |
| 221 | CCV | CCV | | .V-357953 | 09/23/21 23:51 | 1 | | MBW-2793 |
| 222 | CCB | CCB | | .g | 09/24/21 00:18 | 1 | | MBW-2793 |

| Flag Code: | Flag Code Description | Flag Code: | Flag Code Description |
|---|---|---|---|
| Cs | CCV Out epa9056 | Cw | CCV out 300.0 rev2.1 |
| Ho | Hold Time Exceeded | I1 | Init Cal x and y value problem |
| I2 | Init Cal missing a data point | I3 | Init Cal missing a Compound |
| I4 | Init Cal Rsd < .995 | Is | ICV out epa 9056 |
| Iw | ICV Out 300.0 rev2.1 | Ls | LCS Out EPA 9056 |
| Lw | LCS Out 300.0 rev2.1 | Ms | Spike Out EPA 9056 |
| Mw | Spike Out EPA 300.0 REV2.1 | Oc | Over Calibration/Linear Range |

1091738 3084

# Calibration Curve

Instrument: IC2
Analysis Date: 09/14/21
Analytical Methods: 300.0 rev2.1;EPA 9056;EPA 9056A

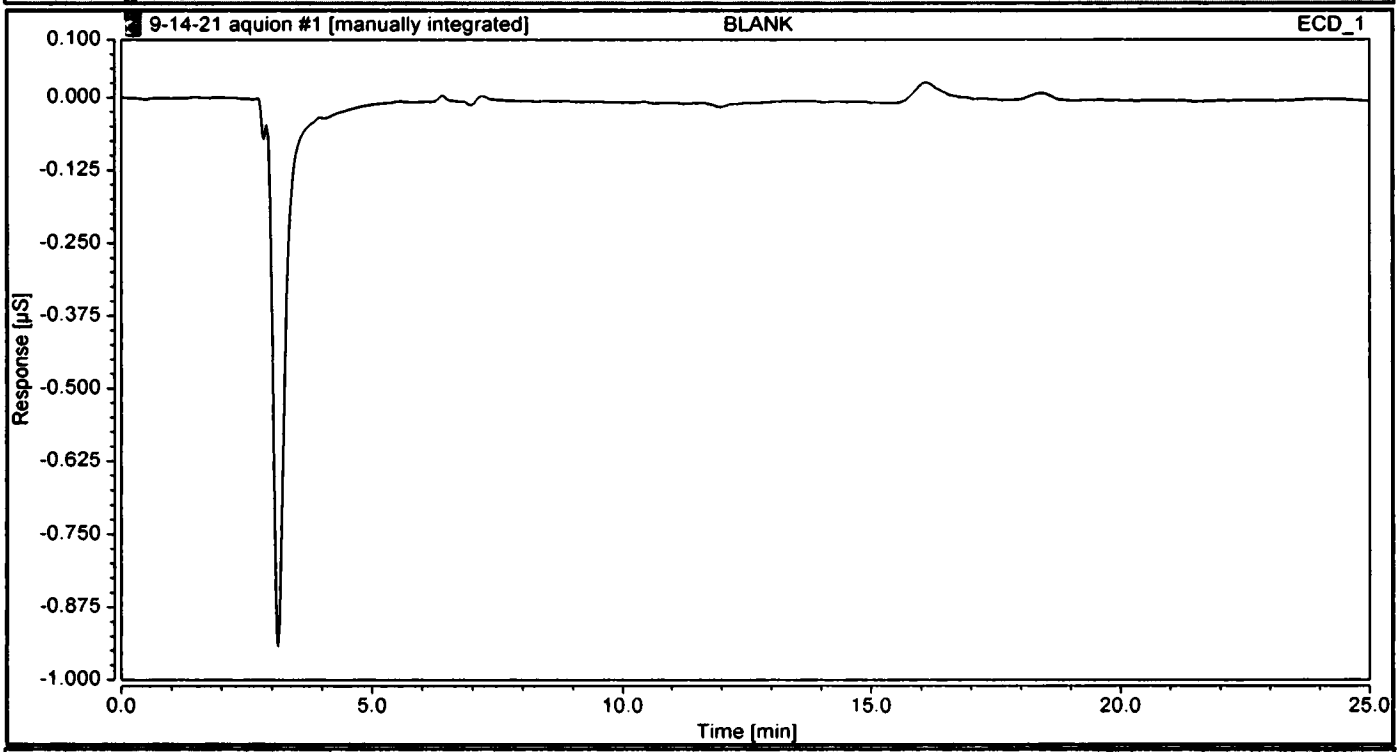
| | | Area Found | | | | | | Concentration Amount | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Batch ID: | Analyte: | Area1 | Area2 | Area3 | Area4 | Area5 | Area6 | Conc1 | Conc2 | Conc3 | Conc4 | Conc5 | Conc6 | rSq |
| 202109141234 | Bromide | 0 | 0.07 | 0.382 | 0.679 | 1.389 | | 0 | 1 | 5 | 10 | 20 | 50 | 99.871 |
| 202109141234 | Chloride | 0 | 0.165 | 0.859 | 1.558 | 3.355 | 9.652 | 0 | 1 | 5 | 10 | 20 | 50 | 99.668 |
| 202109141234 | Nitrate | 0 | 0.403 | 2.123 | 3.982 | 8.802 | | 0 | 1 | 5 | 10 | 20 | 50 | 99.717 |
| 202109141234 | Sulfate | 0 | 0.142 | 0.655 | 1.153 | 2.348 | 6.123 | 0 | 1 | 5 | 10 | 20 | 50 | 99.936 |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **BLANK** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Calibration Standard** | *Channel:* | **ECD_1** |
| *Calibration Level:* | **01** | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 12:34** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

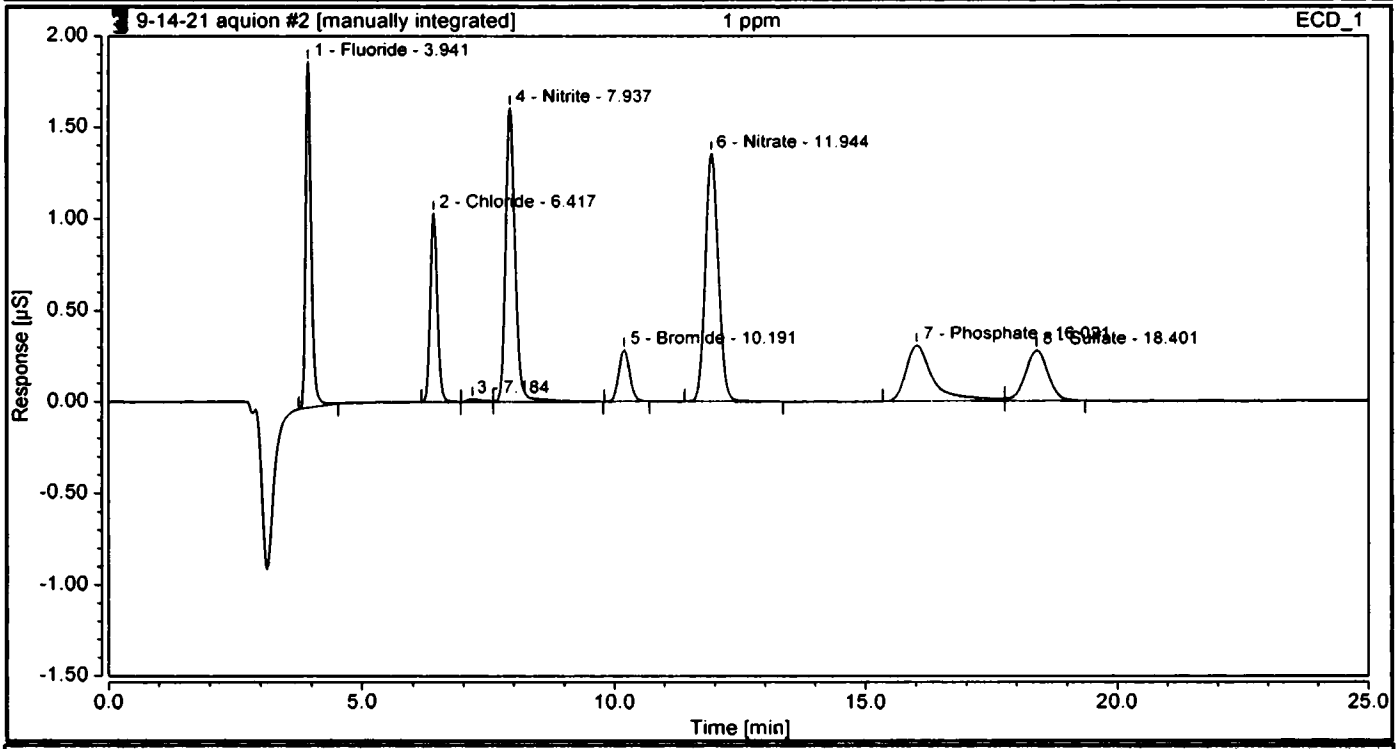
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| n.a. | Phosphate | n.a. | n.a. | n.a. | 99.819 | n.a. | n.a. |
| n.a. | Sulfate | n.a. | n.a. | n.a. | 99.936 | n.a. | n.a. |
| **Total:** | | | **0.000** | **0.000** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **1 ppm** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Calibration Standard** | *Channel:* | **ECD_1** |
| *Calibration Level:* | **02** | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 13:55** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

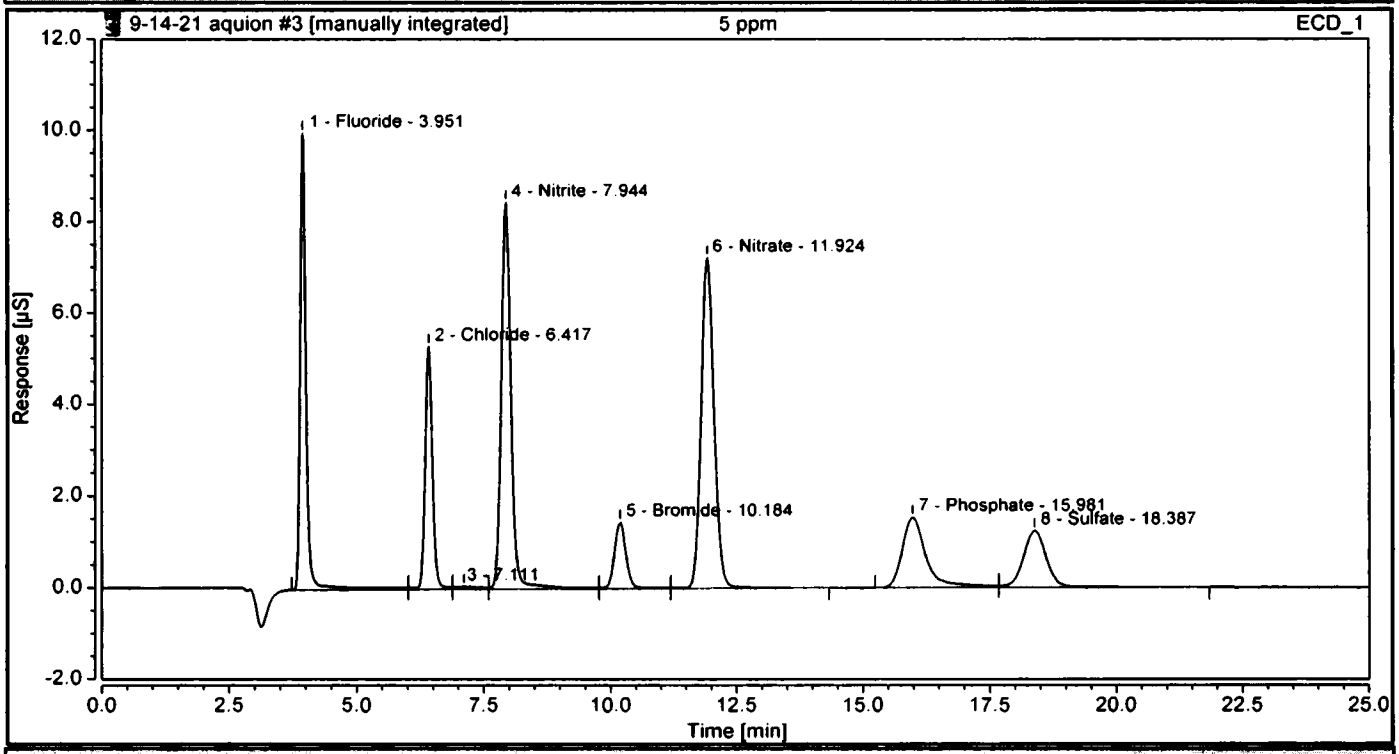
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.240 | 1.891 | 99.875 | TRUE | 0.9352 |
| 2 | Chloride | 6.417 | 0.165 | 1.030 | 99.668 | TRUE | 2.0589 |
| 3 | | 7.184 | 0.006 | 0.015 | n.a. | TRUE | n.a. |
| 4 | Nitrite | 7.937 | 0.351 | 1.605 | 99.877 | TRUE | 0.9929 |
| 5 | Bromide | 10.191 | 0.070 | 0.283 | 99.871 | TRUE | 0.8444 |
| 6 | Nitrate | 11.944 | 0.403 | 1.353 | 99.717 | FALSE | 1.2350 |
| 7 | Phosphate | 16.021 | 0.191 | 0.306 | 99.819 | FALSE | 0.8122 |
| 8 | Sulfate | 18.401 | 0.142 | 0.276 | 99.936 | FALSE | 1.2867 |
| **Total:** | | | **1.567** | **6.760** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **5 ppm** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Calibration Standard** | *Channel:* | **ECD_1** |
| *Calibration Level:* | **03** | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 14:23** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

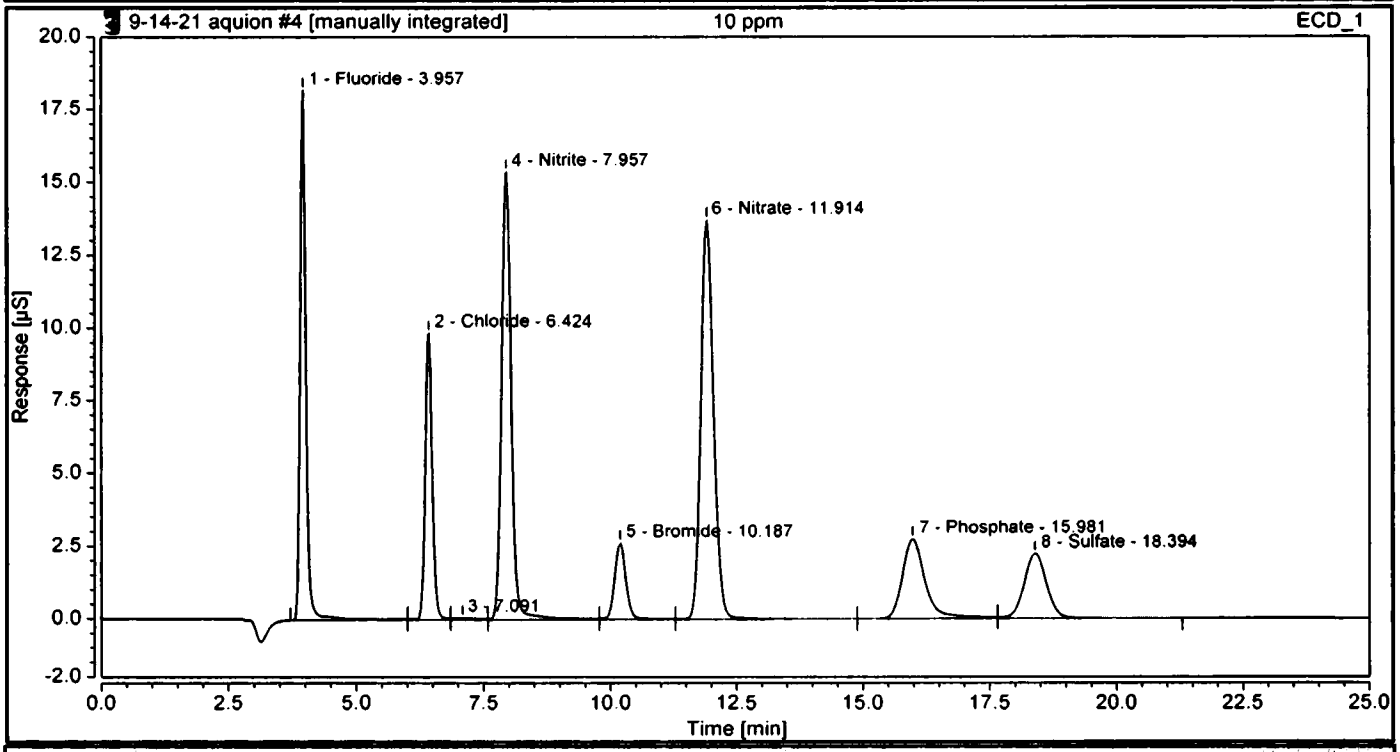
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.951 | 1.340 | 9.972 | 99.875 | TRUE | 5.3243 |
| 2 | Chloride | 6.417 | 0.859 | 5.302 | 99.668 | FALSE | 5.6151 |
| 3 | | 7.111 | 0.033 | 0.060 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.944 | 1.872 | 8.438 | 99.877 | TRUE | 5.2735 |
| 5 | Bromide | 10.184 | 0.382 | 1.451 | 99.871 | FALSE | 5.3887 |
| 6 | Nitrate | 11.924 | 2.123 | 7.224 | 99.717 | FALSE | 5.1352 |
| 7 | Phosphate | 15.981 | 0.843 | 1.535 | 99.819 | FALSE | 5.4623 |
| 8 | Sulfate | 18.387 | 0.655 | 1.238 | 99.936 | FALSE | 5.4902 |
| **Total:** | | | **8.107** | **35.218** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **10 ppm** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Calibration Standard** | *Channel:* | **ECD_1** |
| *Calibration Level:* | **04** | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 14:50** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

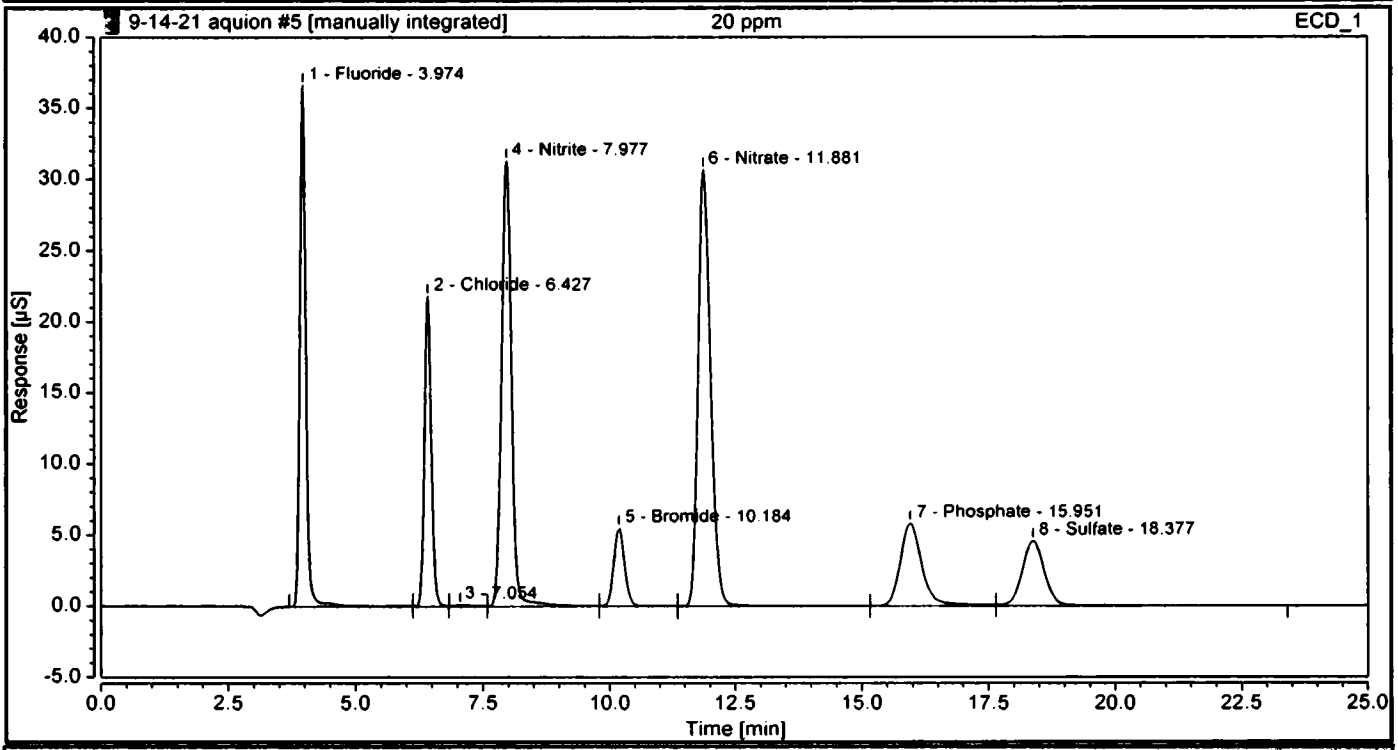
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.957 | 2.421 | 18.194 | 99.875 | TRUE | 9.6367 |
| 2 | Chloride | 6.424 | 1.558 | 9.866 | 99.668 | FALSE | 9.1995 |
| 3 | | 7.091 | 0.035 | 0.068 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.957 | 3.410 | 15.378 | 99.877 | TRUE | 9.6032 |
| 5 | Bromide | 10.187 | 0.679 | 2.627 | 99.871 | FALSE | 9.7126 |
| 6 | Nitrate | 11.914 | 3.982 | 13.719 | 99.717 | FALSE | 9.3506 |
| 7 | Phosphate | 15.981 | 1.433 | 2.742 | 99.819 | FALSE | 9.6634 |
| 8 | Sulfate | 18.394 | 1.153 | 2.236 | 99.936 | FALSE | 9.5750 |
| **Total:** | | | **14.671** | **64.829** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **20 ppm** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Calibration Standard** | *Channel:* | **ECD_1** |
| *Calibration Level:* | **05** | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 15:17** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

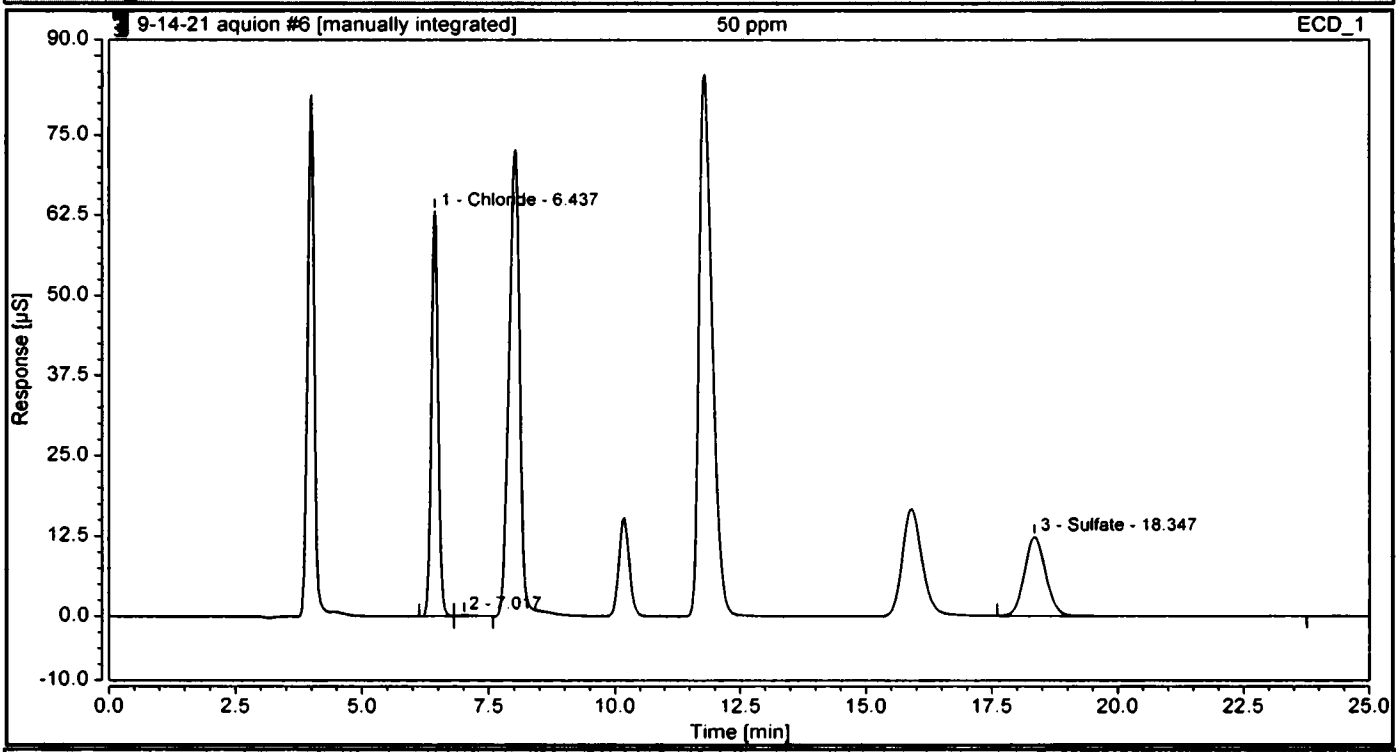
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.974 | 5.045 | 36.633 | 99.875 | TRUE | 20.1038 |
| 2 | Chloride | 6.427 | 3.355 | 21.814 | 99.668 | FALSE | 18.4152 |
| 3 | | 7.054 | 0.050 | 0.104 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.977 | 7.151 | 31.282 | 99.877 | TRUE | 20.1304 |
| 5 | Bromide | 10.184 | 1.389 | 5.514 | 99.871 | TRUE | 20.0543 |
| 6 | Nitrate | 11.881 | 8.802 | 30.656 | 99.717 | FALSE | 20.2791 |
| 7 | Phosphate | 15.951 | 2.892 | 5.812 | 99.819 | FALSE | 20.0621 |
| 8 | Sulfate | 18.377 | 2.348 | 4.574 | 99.936 | FALSE | 19.3631 |
| **Total:** | | | **31.032** | **136.389** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **50 ppm** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Calibration Standard** | *Channel:* | **ECD_1** |
| *Calibration Level:* | **06** | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 16:14** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

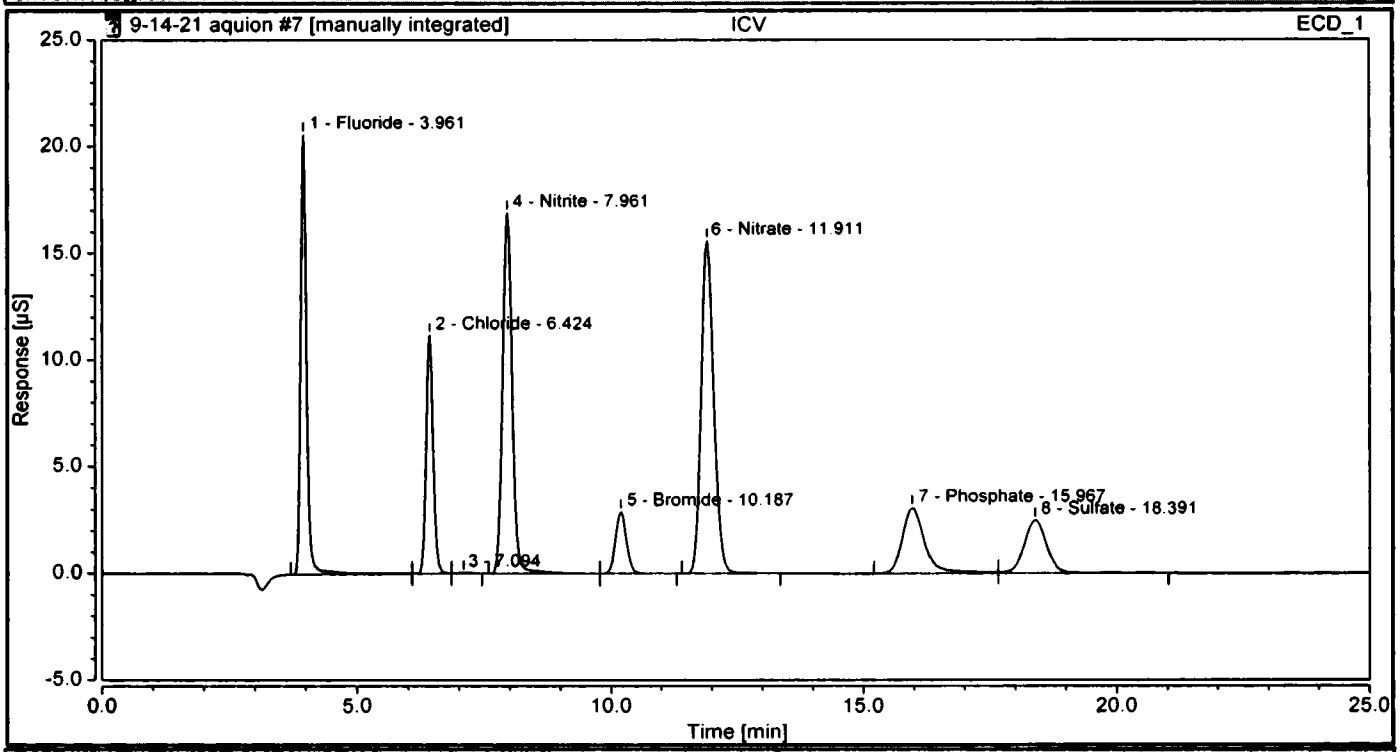
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| 1 | Chloride | 6.437 | 9.652 | 63.083 | 99.668 | FALSE | 50.7113 |
| 2 | | 7.017 | 0.061 | 0.162 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| n.a. | Phosphate | n.a. | n.a. | n.a. | 99.819 | n.a. | n.a. |
| 3 | Sulfate | 18.347 | 6.123 | 12.365 | 99.936 | FALSE | 50.2850 |
| **Total:** | | | **15.836** | **75.610** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **ICV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 16:53** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

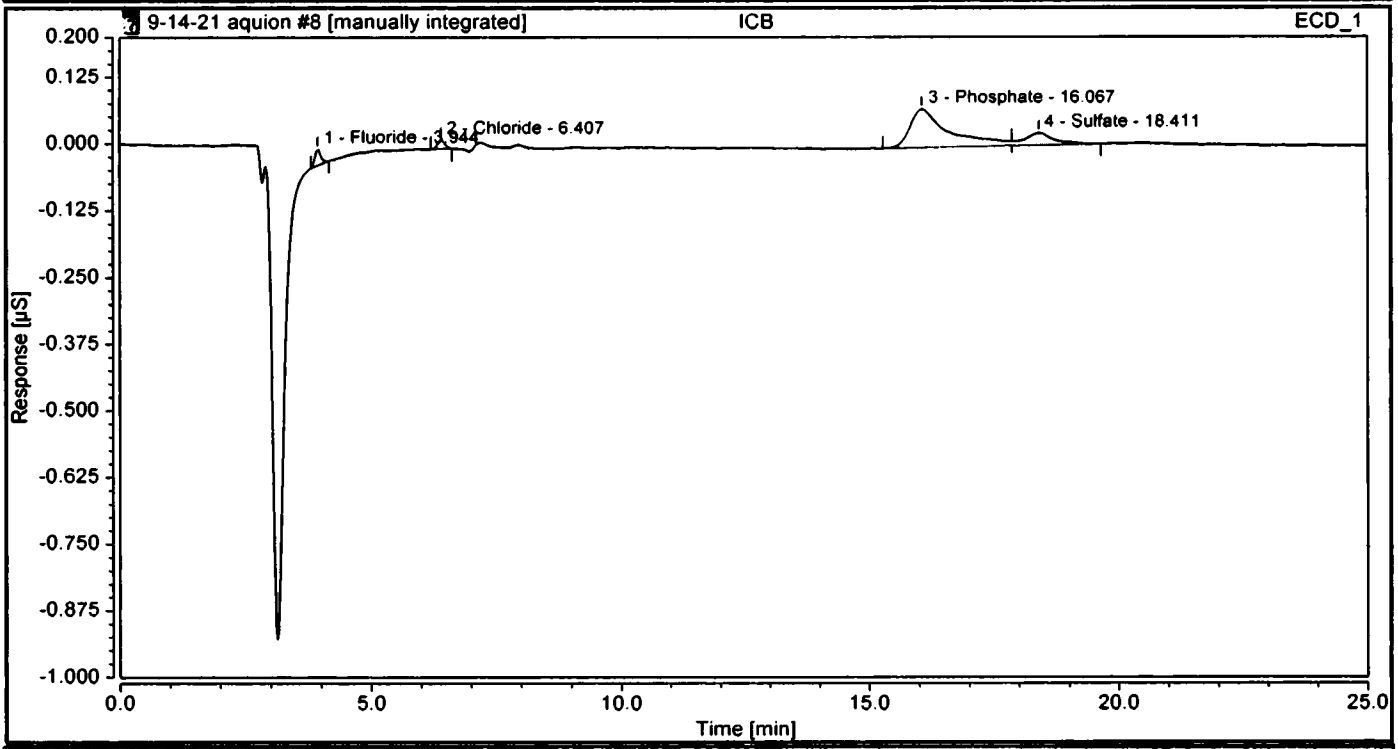
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.741 | 20.579 | 99.875 | TRUE | 10.9105 |
| 2 | Chloride | 6.424 | 1.739 | 11.173 | 99.668 | FALSE | 10.1312 |
| 3 | | 7.094 | 0.011 | 0.035 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.961 | 3.694 | 16.870 | 99.877 | TRUE | 10.4021 |
| 5 | Bromide | 10.187 | 0.716 | 2.889 | 99.871 | FALSE | 10.2514 |
| 6 | Nitrate | 11.911 | 4.475 | 15.589 | 99.717 | FALSE | 10.4677 |
| 7 | Phosphate | 15.967 | 1.581 | 3.065 | 99.819 | FALSE | 10.7201 |
| 8 | Sulfate | 18.391 | 1.269 | 2.483 | 99.936 | FALSE | 10.5239 |
| **Total:** | | | **16.227** | **72.683** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **ICB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 17:20** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

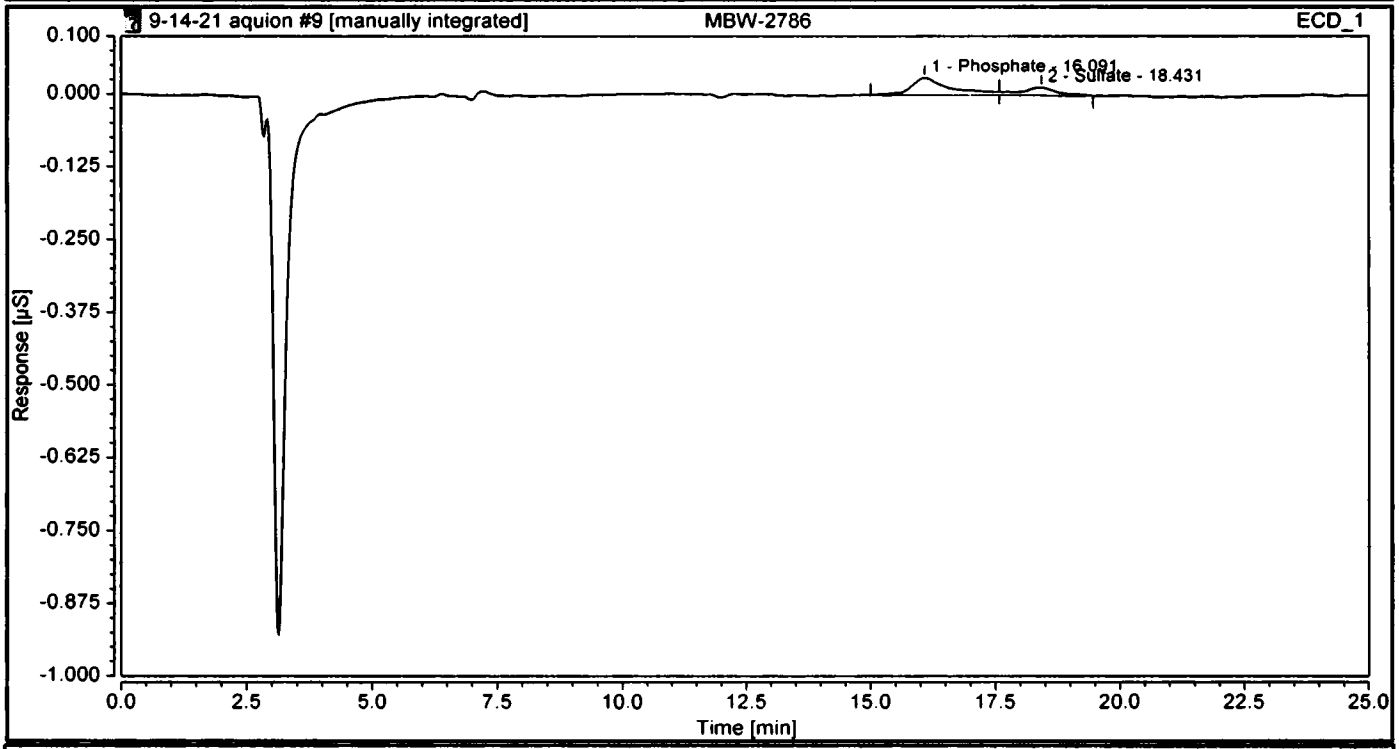
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.004 | 0.030 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.407 | 0.003 | 0.017 | 99.668 | TRUE | 1.2241 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 3 | Phosphate | 16.067 | 0.065 | 0.072 | 99.819 | FALSE | n.a. |
| 4 | Sulfate | 18.411 | 0.016 | 0.023 | 99.936 | FALSE | 0.2557 |
| **Total:** | | | **0.088** | **0.141** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **MBW-2786** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 17:48** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

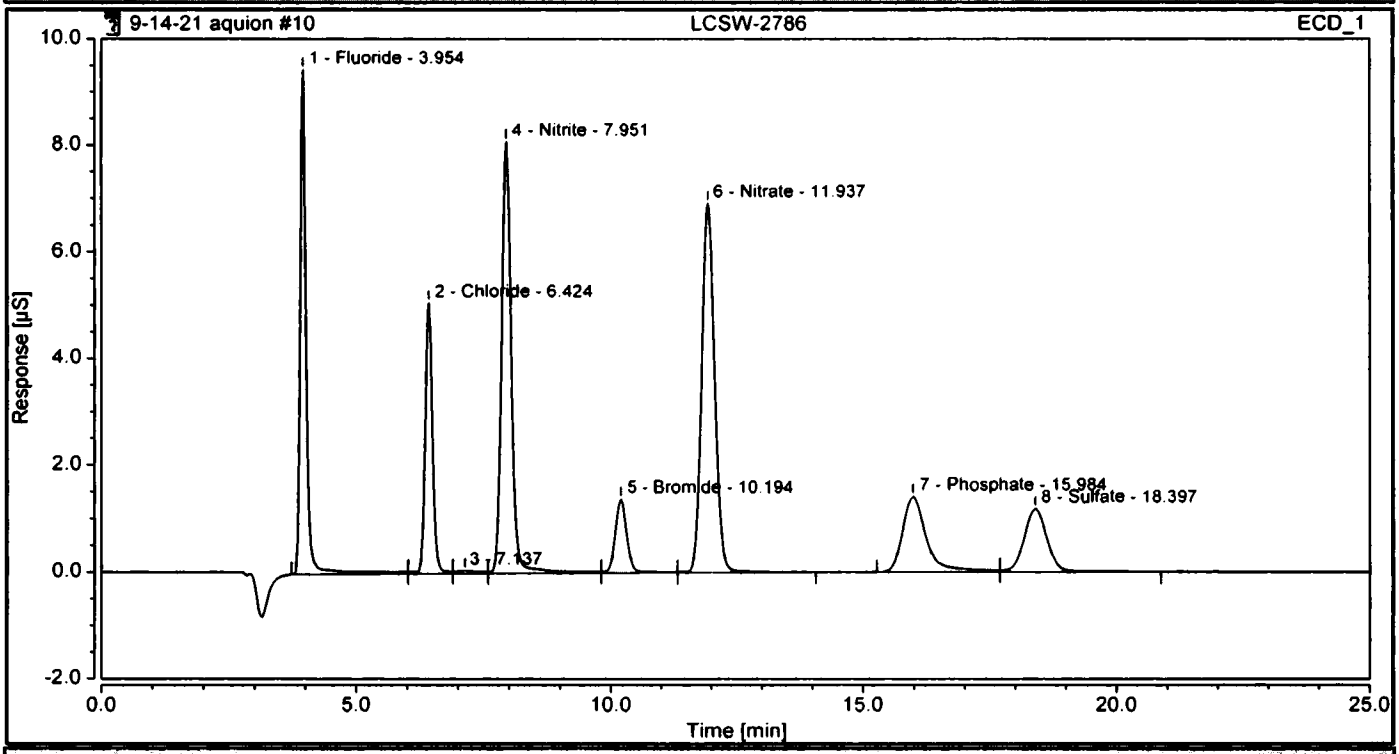
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 1 | Phosphate | 16.091 | 0.028 | 0.030 | 99.819 | FALSE | n.a. |
| 2 | Sulfate | 18.431 | 0.012 | 0.014 | 99.936 | FALSE | 0.2243 |
| **Total:** | | | **0.040** | **0.043** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LCSW-2786** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 18:15** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

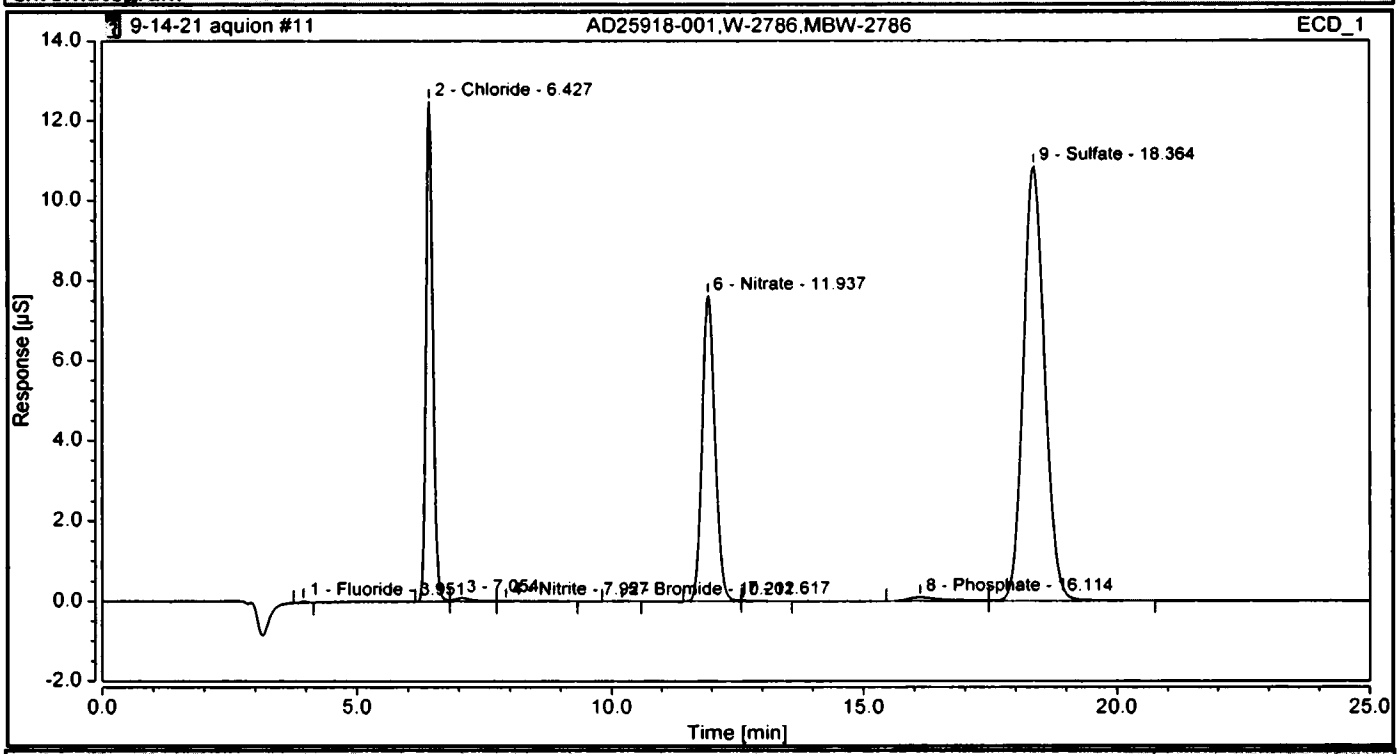
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.954 | 1.290 | 9.462 | 99.875 | FALSE | 5.1231 |
| 2 | Chloride | 6.424 | 0.825 | 5.069 | 99.668 | FALSE | 5.4438 |
| 3 | | 7.137 | 0.029 | 0.054 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.951 | 1.799 | 8.086 | 99.877 | FALSE | 5.0685 |
| 5 | Bromide | 10.194 | 0.368 | 1.377 | 99.871 | FALSE | 5.1773 |
| 6 | Nitrate | 11.937 | 2.042 | 6.915 | 99.717 | FALSE | 4.9517 |
| 7 | Phosphate | 15.984 | 0.768 | 1.410 | 99.819 | FALSE | 4.9282 |
| 8 | Sulfate | 18.397 | 0.613 | 1.180 | 99.936 | FALSE | 5.1513 |
| **Total:** | | | **7.735** | **33.552** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD25918-001,W-2786,MBW-2786** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 18:42** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

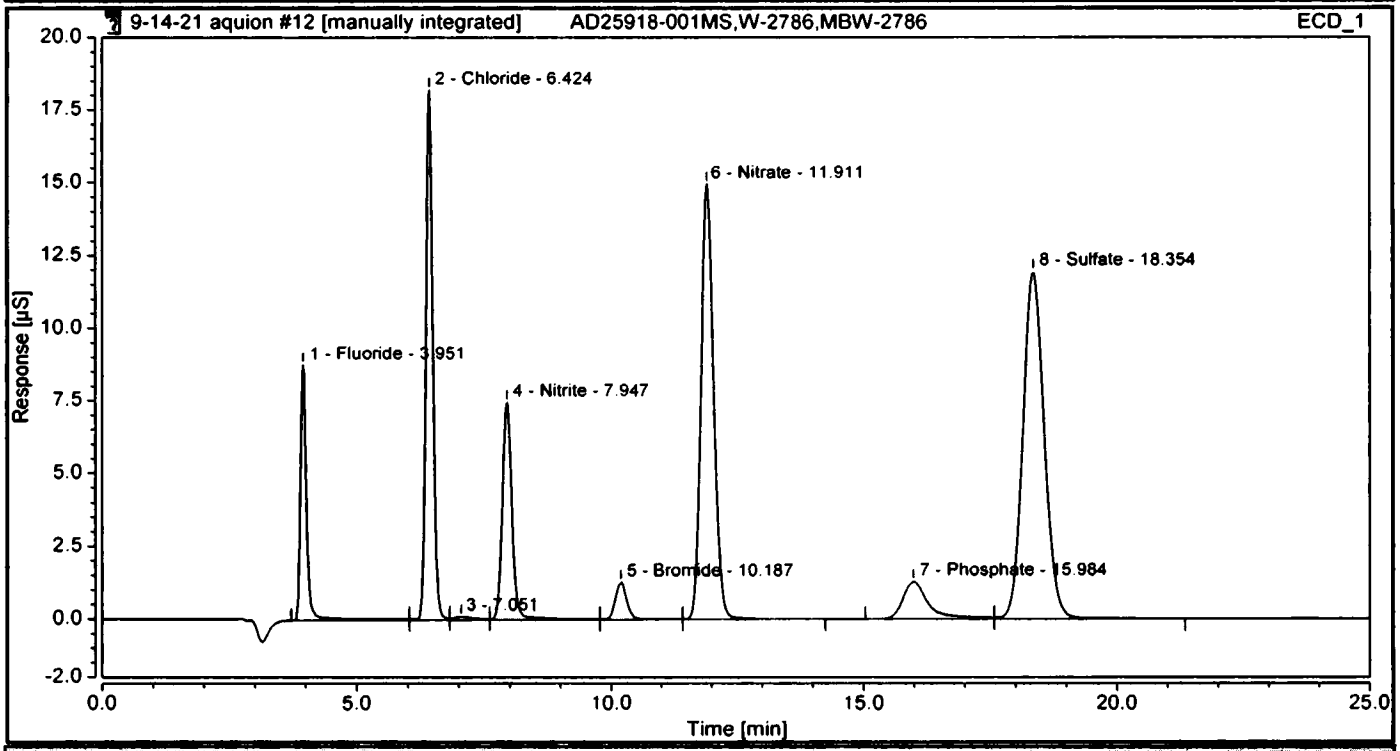
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.951 | 0.005 | 0.036 | 99.875 | FALSE | n.a. |
| 2 | Chloride | 6.427 | 1.944 | 12.481 | 99.668 | FALSE | 11.1798 |
| 3 | | 7.054 | 0.032 | 0.083 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.927 | 0.005 | 0.009 | 99.877 | FALSE | 0.0188 |
| 5 | Bromide | 10.201 | 0.003 | 0.009 | 99.871 | FALSE | n.a. |
| 6 | Nitrate | 11.937 | 2.217 | 7.628 | 99.717 | FALSE | 5.3481 |
| 7 | | 12.617 | 0.006 | 0.022 | n.a. | FALSE | n.a. |
| 8 | Phosphate | 16.114 | 0.082 | 0.097 | 99.819 | FALSE | 0.0359 |
| 9 | Sulfate | 18.364 | 5.264 | 10.858 | 99.936 | FALSE | 43.2513 |
| **Total:** | | | **9.557** | **31.223** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD25918-001MS,W-2786,MBW-2786** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 19:09** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

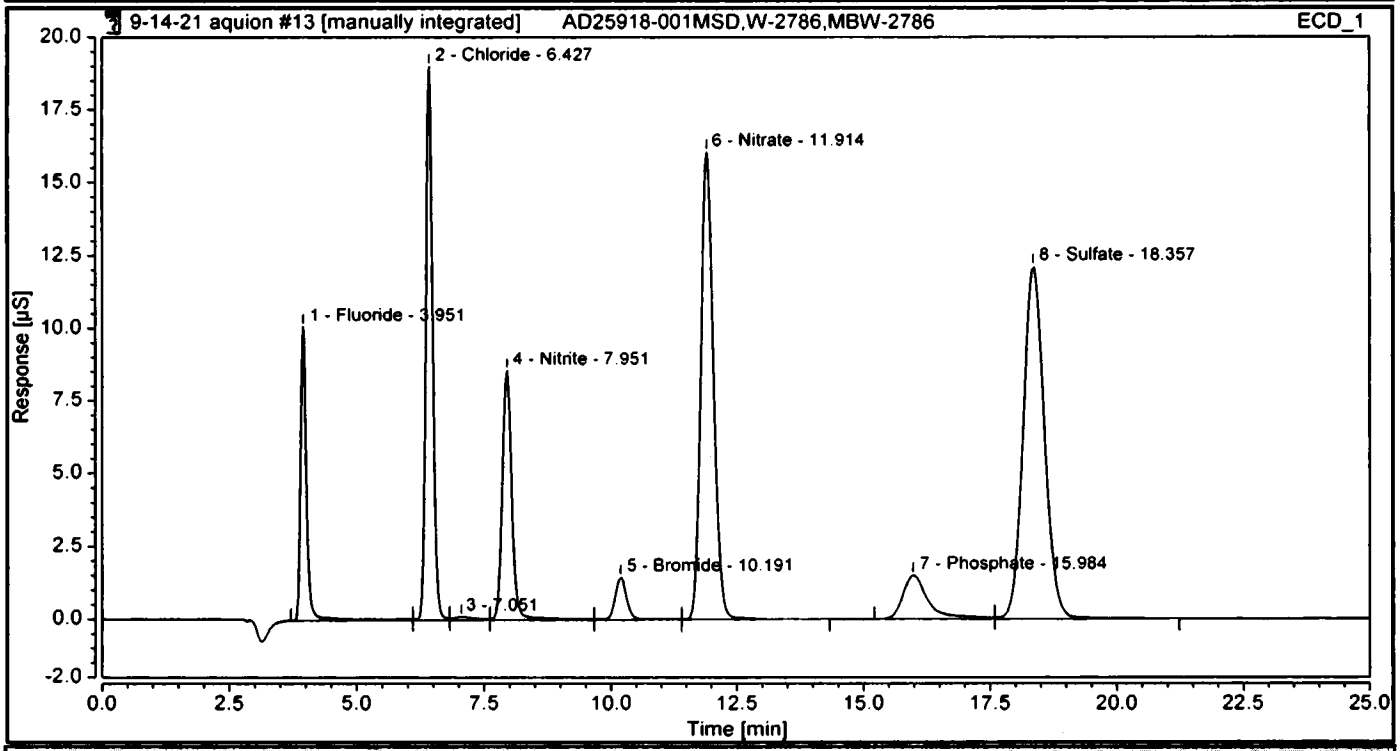
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.951 | 1.205 | 8.763 | 99.875 | TRUE | 4.7836 |
| 2 | Chloride | 6.424 | 2.818 | 18.203 | 99.668 | FALSE | 15.6617 |
| 3 | | 7.051 | 0.051 | 0.108 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.947 | 1.655 | 7.462 | 99.877 | TRUE | 4.6624 |
| 5 | Bromide | 10.187 | 0.339 | 1.276 | 99.871 | FALSE | 4.7598 |
| 6 | Nitrate | 11.911 | 4.307 | 14.946 | 99.717 | FALSE | 10.0867 |
| 7 | Phosphate | 15.984 | 0.751 | 1.280 | 99.819 | FALSE | 4.8045 |
| 8 | Sulfate | 18.354 | 5.801 | 11.934 | 99.936 | FALSE | 47.6471 |
| **Total:** | | | **16.925** | **63.972** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD25918-001MSD,W-2786,MBW-2786** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 19:36** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

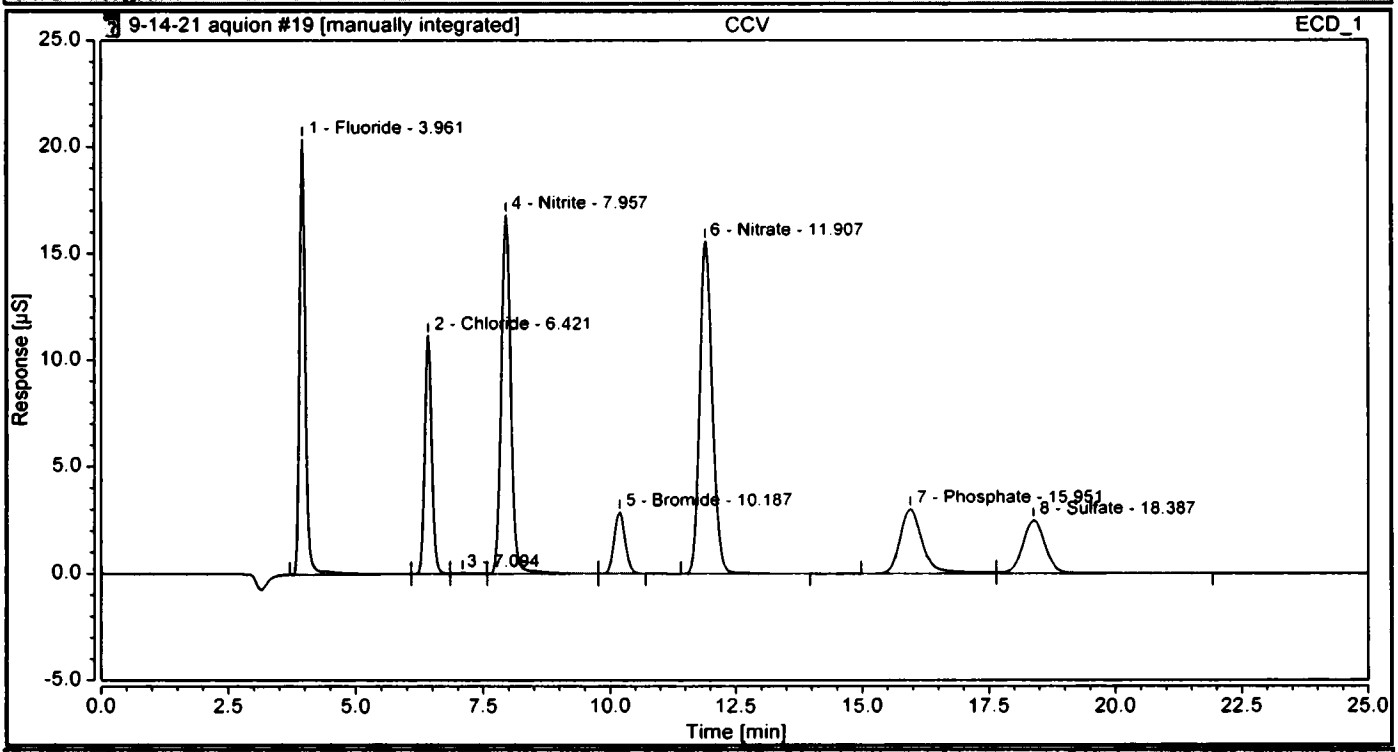
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.951 | 1.378 | 10.092 | 99.875 | TRUE | 5.4752 |
| 2 | Chloride | 6.427 | 2.936 | 19.024 | 99.668 | FALSE | 16.2675 |
| 3 | | 7.051 | 0.053 | 0.111 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.951 | 1.891 | 8.558 | 99.877 | TRUE | 5.3285 |
| 5 | Bromide | 10.191 | 0.390 | 1.457 | 99.871 | FALSE | 5.4965 |
| 6 | Nitrate | 11.914 | 4.620 | 16.044 | 99.717 | FALSE | 10.7967 |
| 7 | Phosphate | 15.984 | 0.875 | 1.507 | 99.819 | FALSE | 5.6891 |
| 8 | Sulfate | 18.357 | 5.890 | 12.113 | 99.936 | FALSE | 48.3793 |
| **Total:** | | | **18.033** | **68.905** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 22:19** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

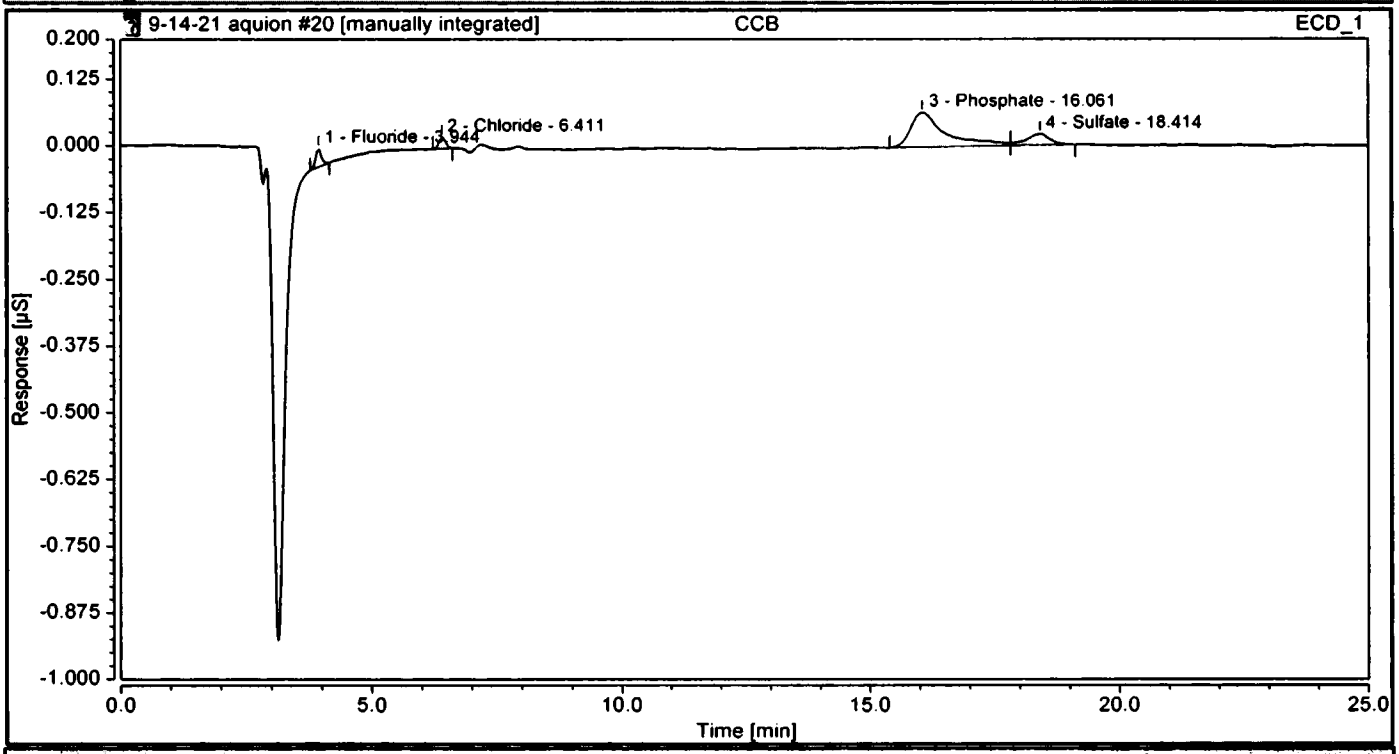
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.709 | 20.377 | 99.875 | TRUE | 10.7842 |
| 2 | Chloride | 6.421 | 1.747 | 11.182 | 99.668 | FALSE | 10.1713 |
| 3 | | 7.094 | 0.024 | 0.052 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.957 | 3.689 | 16.807 | 99.877 | TRUE | 10.3889 |
| 5 | Bromide | 10.187 | 0.708 | 2.883 | 99.871 | FALSE | 10.1370 |
| 6 | Nitrate | 11.907 | 4.471 | 15.571 | 99.717 | FALSE | 10.4580 |
| 7 | Phosphate | 15.951 | 1.544 | 3.014 | 99.819 | FALSE | 10.4585 |
| 8 | Sulfate | 18.387 | 1.283 | 2.490 | 99.936 | FALSE | 10.6334 |
| **Total:** | | | **16.175** | **72.377** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 22:47** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

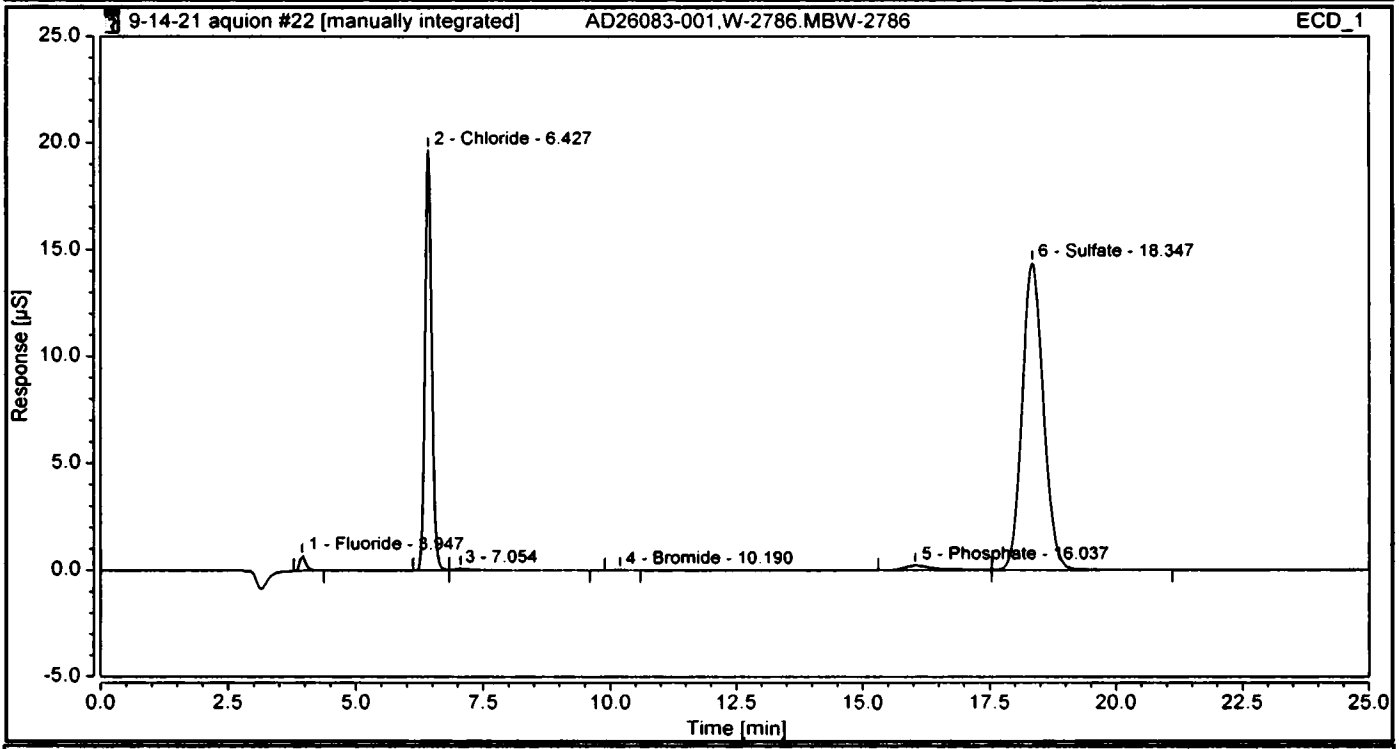
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.004 | 0.034 | 99.875 | FALSE | n.a. |
| 2 | Chloride | 6.411 | 0.003 | 0.021 | 99.668 | TRUE | 1.2268 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 3 | Phosphate | 16.061 | 0.053 | 0.065 | 99.819 | FALSE | n.a. |
| 4 | Sulfate | 18.414 | 0.012 | 0.021 | 99.936 | FALSE | 0.2218 |
| **Total:** | | | **0.072** | **0.140** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-001,W-2786.MBW-2786** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **14/Sep/21 23:41** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

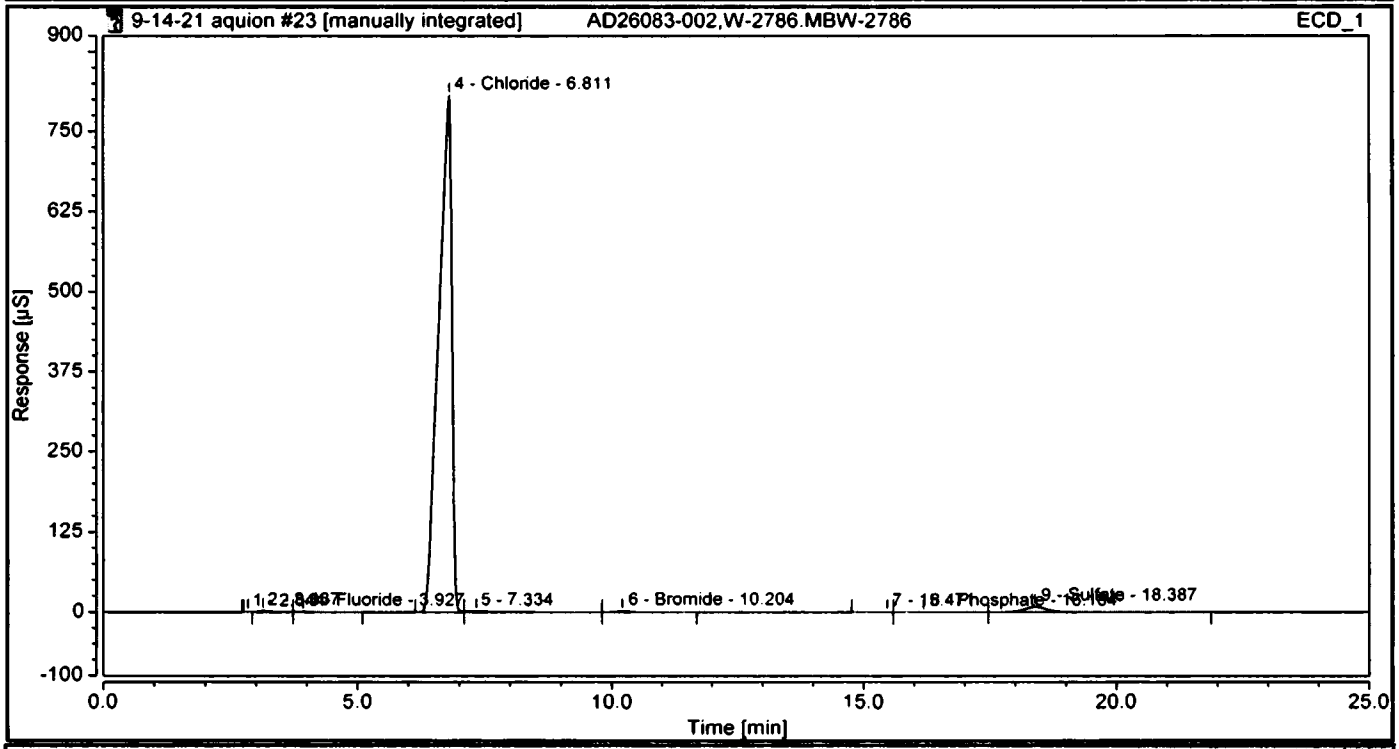
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 0.094 | 0.697 | 99.875 | TRUE | 0.3547 |
| 2 | Chloride | 6.427 | 3.006 | 19.653 | 99.668 | TRUE | 16.6298 |
| 3 | | 7.054 | 0.042 | 0.084 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.190 | 0.004 | 0.018 | 99.871 | TRUE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 16.037 | 0.163 | 0.218 | 99.819 | FALSE | 0.6115 |
| 6 | Sulfate | 18.347 | 6.929 | 14.380 | 99.936 | FALSE | 56.8865 |
| **Total:** | | | **10.239** | **35.050** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-002,W-2786.MBW-2786** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 00:08** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

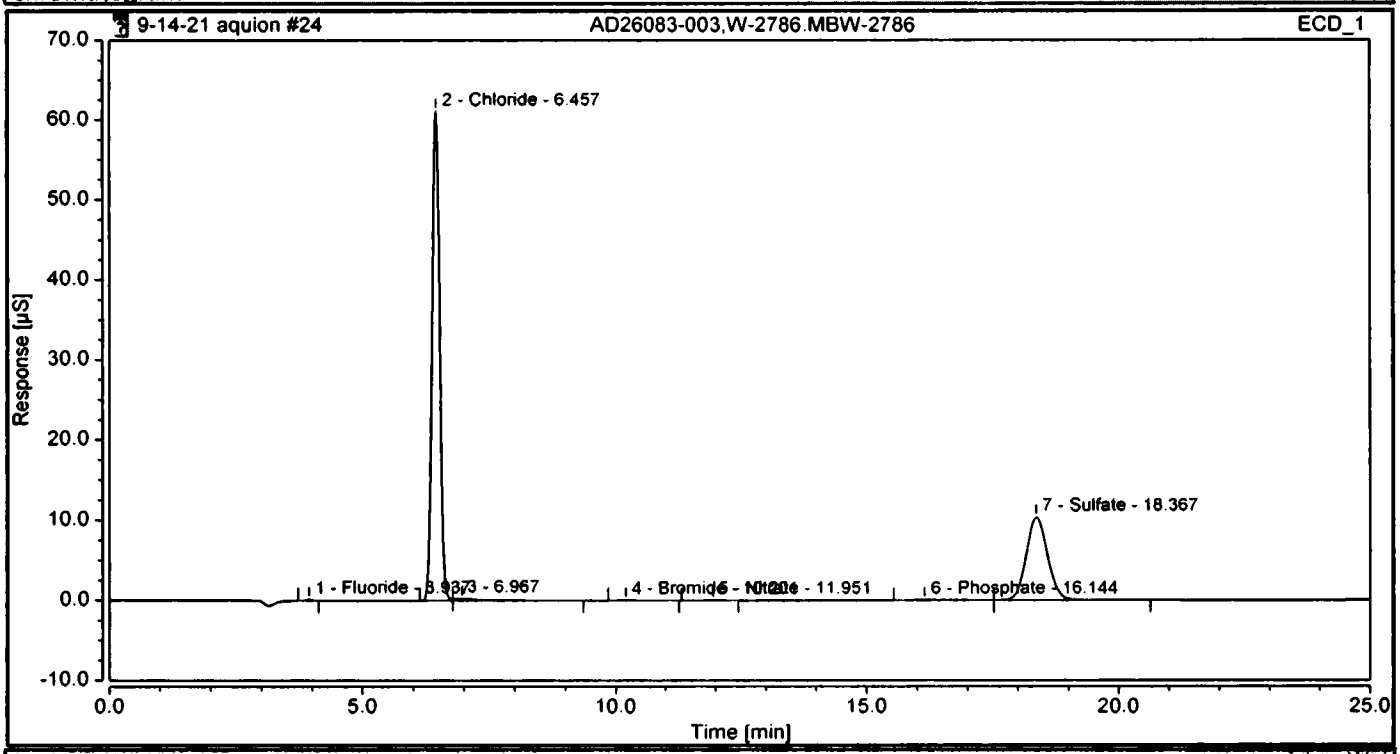
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.844 | 0.010 | 0.129 | n.a. | FALSE | n.a. |
| 2 | | 3.137 | 0.465 | 1.611 | n.a. | TRUE | n.a. |
| 3 | Fluoride | 3.927 | 0.103 | 0.475 | 99.875 | TRUE | 0.3889 |
| 4 | Chloride | 6.811 | 240.129 | 806.537 | 99.668 | TRUE | 1232.7852 |
| 5 | | 7.334 | 0.717 | 1.167 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 6 | Bromide | 10.204 | 0.400 | 1.555 | 99.871 | TRUE | 5.6452 |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 7 | | 15.471 | 0.004 | 0.013 | n.a. | FALSE | n.a. |
| 8 | Phosphate | 16.184 | 0.055 | 0.053 | 99.819 | FALSE | n.a. |
| 9 | Sulfate | 18.387 | 3.874 | 7.878 | 99.936 | TRUE | 31.8610 |
| **Total:** | | | **245.757** | **819.418** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-003,W-2786.MBW-2786** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 00:35** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

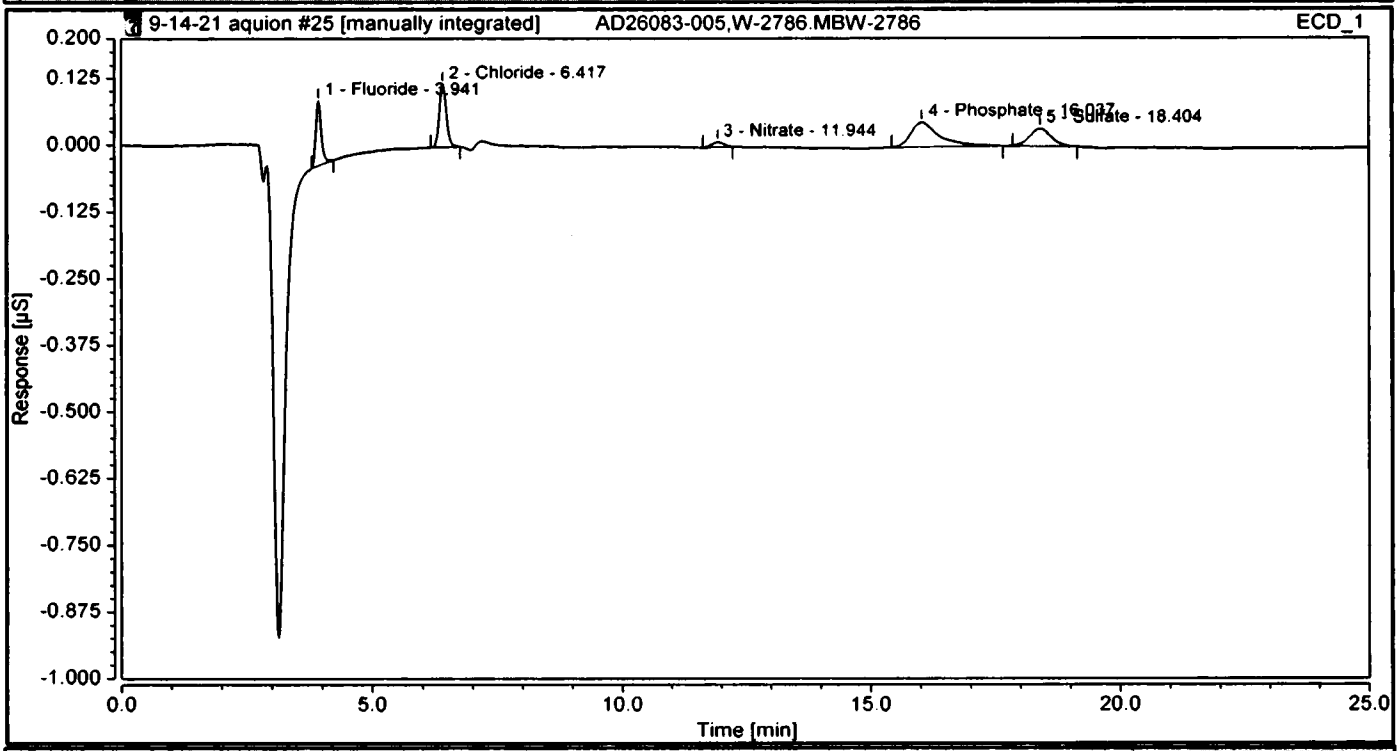
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.016 | 0.128 | 99.875 | FALSE | 0.0402 |
| 2 | Chloride | 6.457 | 10.578 | 61.068 | 99.668 | FALSE | 55.4646 |
| 3 | | 6.967 | 0.110 | 0.234 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.201 | 0.008 | 0.026 | 99.871 | FALSE | n.a. |
| 5 | Nitrate | 11.951 | 0.010 | 0.034 | 99.717 | FALSE | 0.3456 |
| 6 | Phosphate | 16.144 | 0.029 | 0.037 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.367 | 4.986 | 10.335 | 99.936 | FALSE | 40.9733 |
| **Total:** | | | **15.737** | **71.862** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-005,W-2786.MBW-2786** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 01:03** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

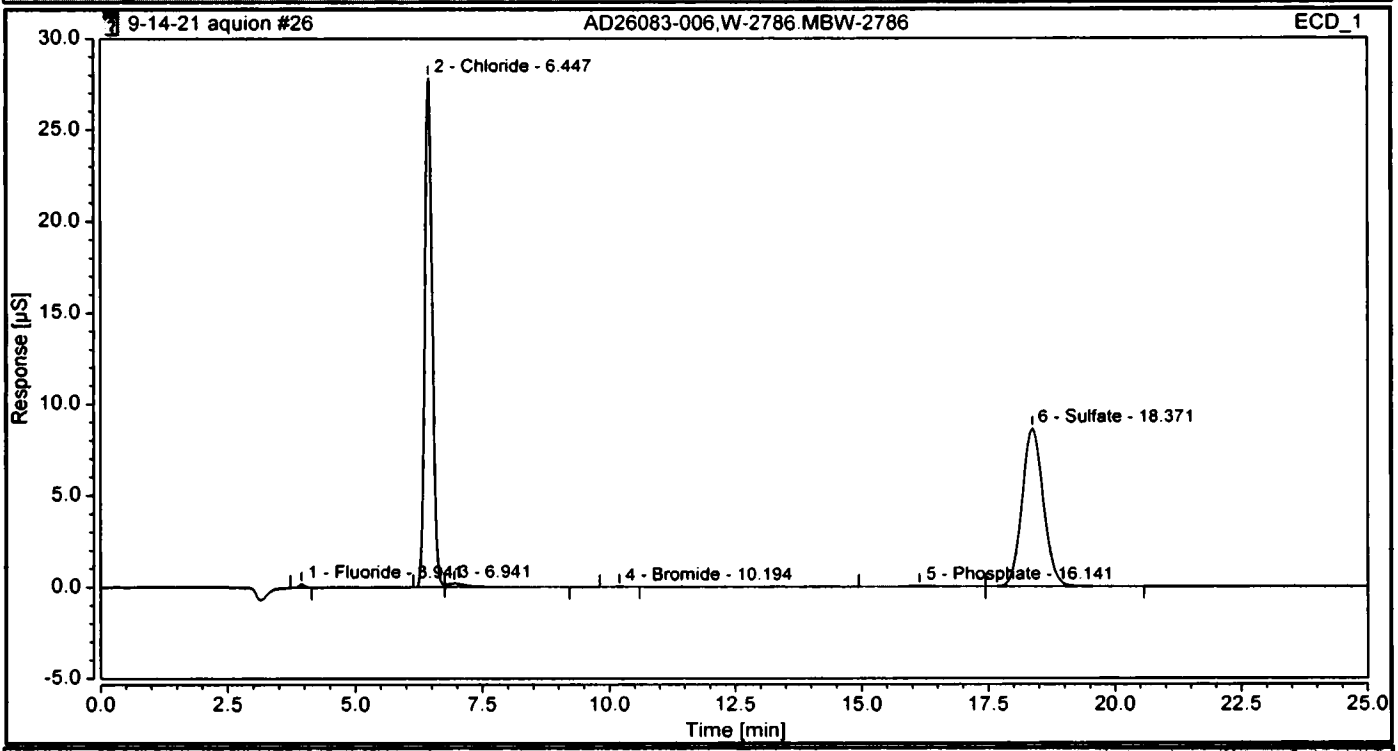
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.015 | 0.120 | 99.875 | TRUE | 0.0376 |
| 2 | Chloride | 6.417 | 0.019 | 0.118 | 99.668 | TRUE | 1.3081 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| 3 | Nitrate | 11.944 | 0.003 | 0.009 | 99.717 | TRUE | 0.3276 |
| 4 | Phosphate | 16.037 | 0.031 | 0.046 | 99.819 | TRUE | n.a. |
| 5 | Sulfate | 18.404 | 0.016 | 0.033 | 99.936 | TRUE | 0.2611 |
| **Total:** | | | **0.084** | **0.326** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-006,W-2786.MBW-2786** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 01:30** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

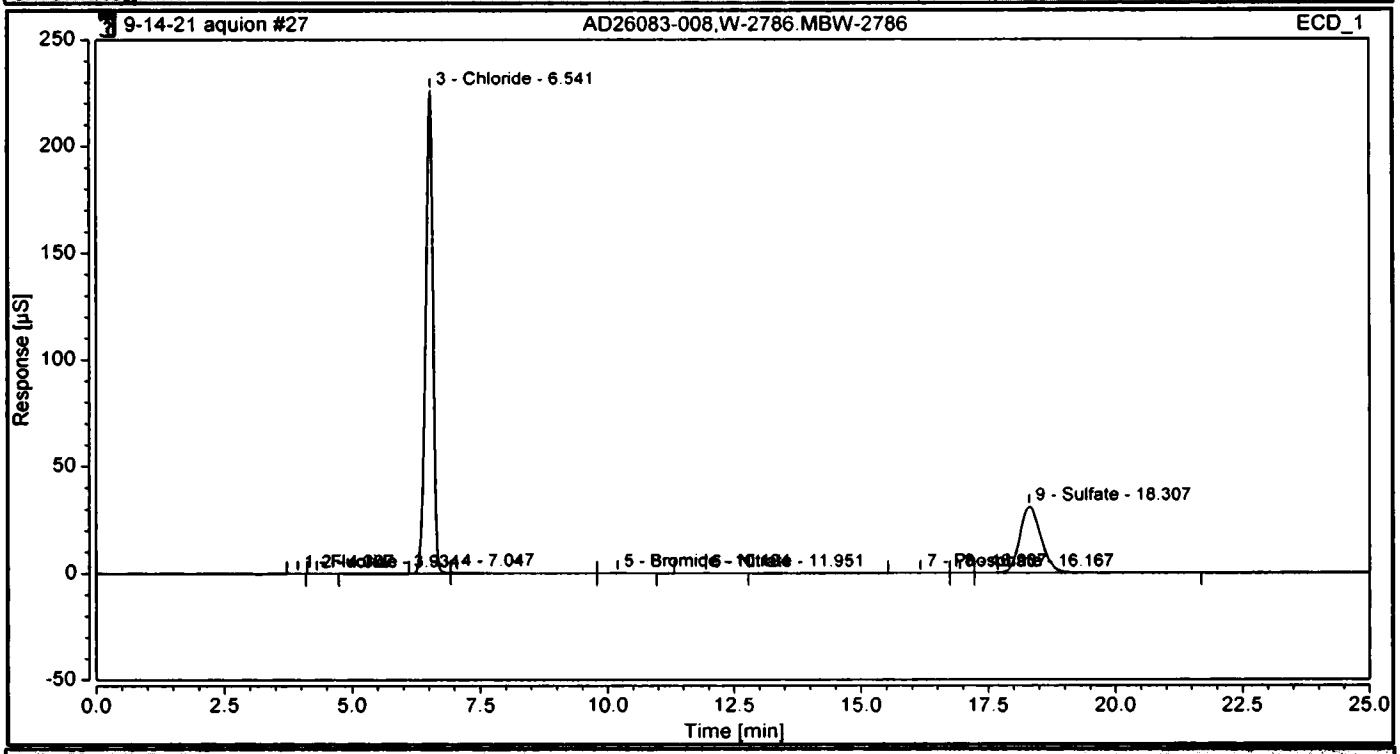
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.022 | 0.185 | 99.875 | FALSE | 0.0679 |
| 2 | Chloride | 6.447 | 4.746 | 27.840 | 99.668 | FALSE | 25.5516 |
| 3 | | 6.941 | 0.094 | 0.196 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.194 | 0.006 | 0.022 | 99.871 | FALSE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 16.141 | 0.040 | 0.043 | 99.819 | FALSE | n.a. |
| 6 | Sulfate | 18.371 | 4.185 | 8.623 | 99.936 | FALSE | 34.4111 |
| **Total:** | | | **9.094** | **36.908** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-008,W-2786.MBW-2786** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 01:57** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

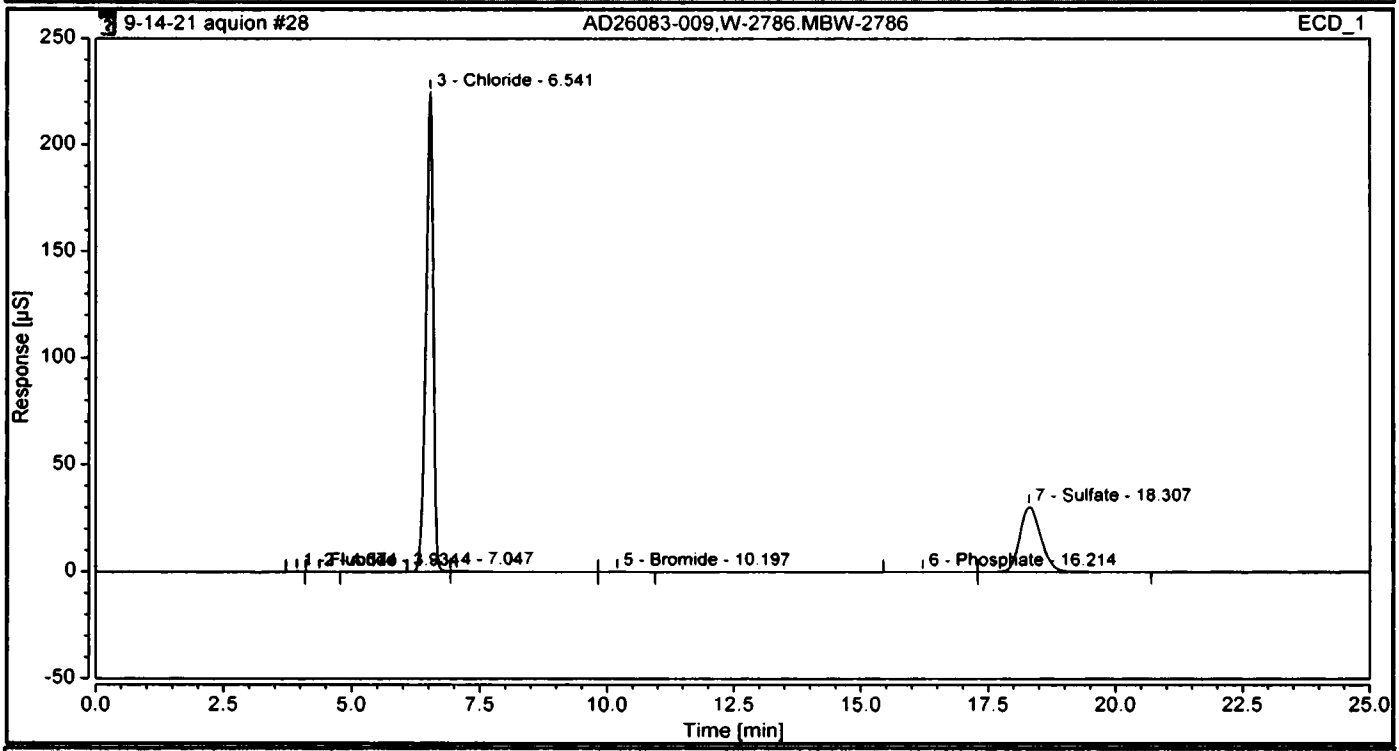
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.934 | 0.009 | 0.075 | 99.875 | FALSE | 0.0154 |
| 2 | | 4.307 | 0.002 | 0.006 | n.a. | FALSE | n.a. |
| 3 | Chloride | 6.541 | 37.255 | 225.982 | 99.668 | FALSE | 192.2852 |
| 4 | | 7.047 | 0.188 | 0.404 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 5 | Bromide | 10.194 | 0.036 | 0.134 | 99.871 | FALSE | 0.3395 |
| 6 | Nitrate | 11.951 | 0.013 | 0.037 | 99.717 | FALSE | 0.3514 |
| 7 | Phosphate | 16.167 | 0.017 | 0.024 | 99.819 | FALSE | n.a. |
| 8 | | 16.937 | 0.006 | 0.015 | n.a. | FALSE | n.a. |
| 9 | Sulfate | 18.307 | 14.639 | 30.876 | 99.936 | FALSE | 120.0504 |
| **Total:** | | | **52.165** | **257.553** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-009,W-2786.MBW-2786** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 02:24** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

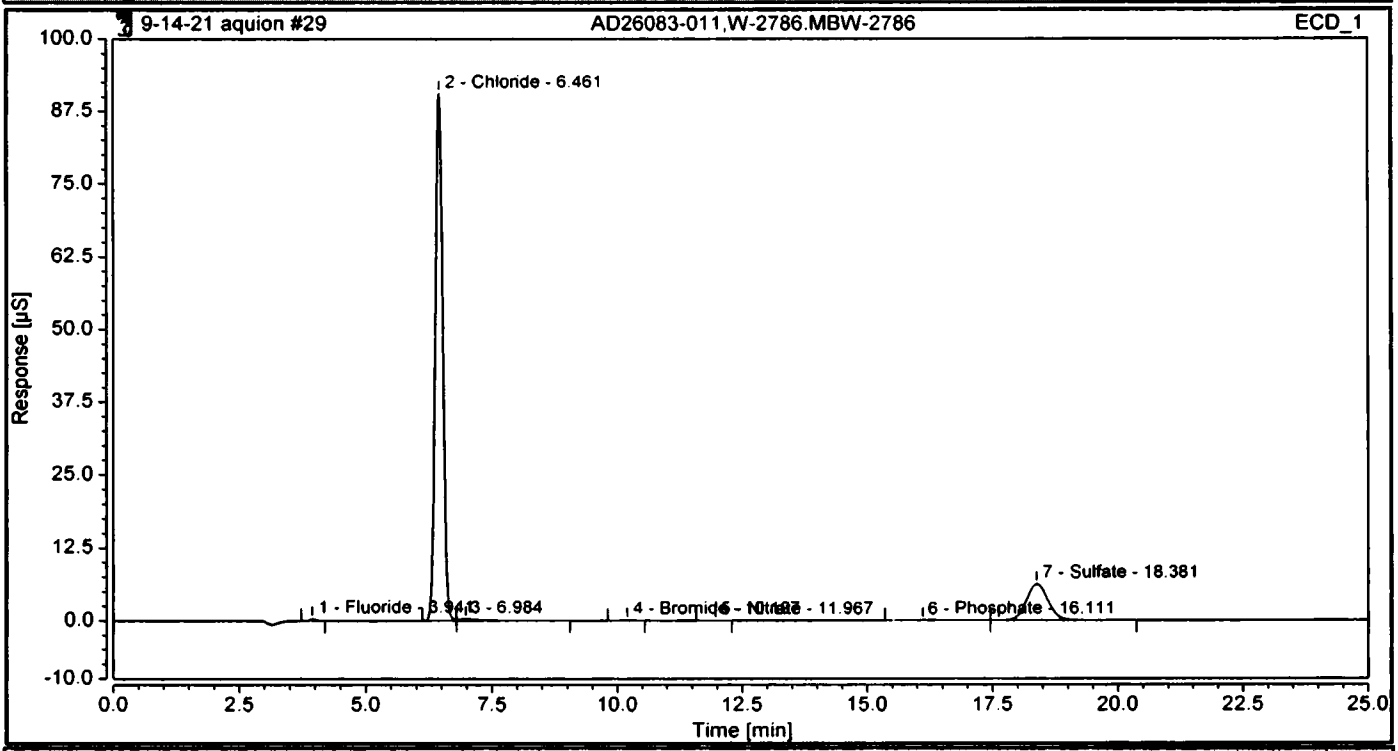
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.934 | 0.009 | 0.075 | 99.875 | FALSE | 0.0146 |
| 2 | | 4.374 | 0.002 | 0.006 | n.a. | FALSE | n.a. |
| 3 | Chloride | 6.541 | 37.081 | 224.776 | 99.668 | FALSE | 191.3931 |
| 4 | | 7.047 | 0.182 | 0.395 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 5 | Bromide | 10.197 | 0.034 | 0.129 | 99.871 | FALSE | 0.3073 |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 6 | Phosphate | 16.214 | 0.022 | 0.023 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.307 | 14.388 | 30.364 | 99.936 | FALSE | 117.9924 |
| **Total:** | | | **51.719** | **255.768** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-011,W-2786.MBW-2786** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 02:51** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

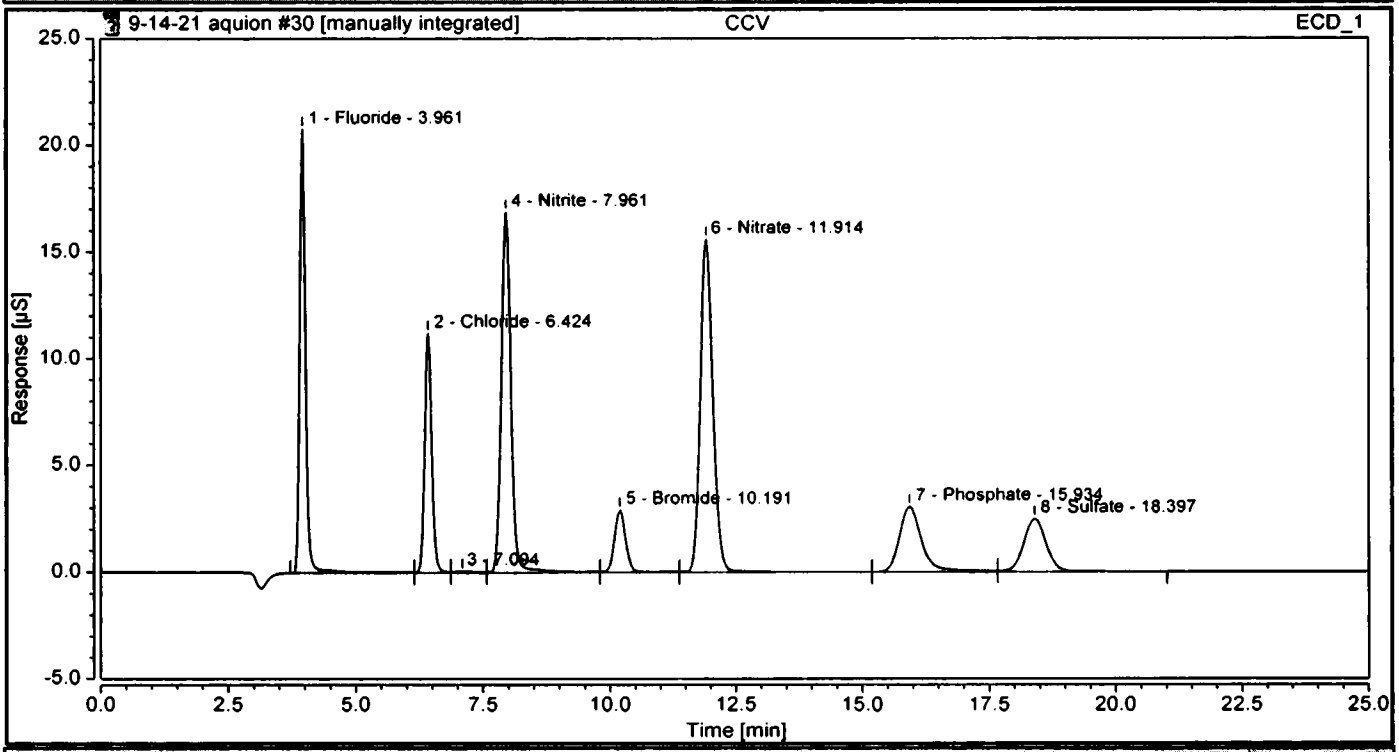
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.040 | 0.328 | 99.875 | FALSE | 0.1378 |
| 2 | Chloride | 6.461 | 15.581 | 90.559 | 99.668 | FALSE | 81.1239 |
| 3 | | 6.984 | 0.118 | 0.256 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.197 | 0.018 | 0.074 | 99.871 | FALSE | 0.0848 |
| 5 | Nitrate | 11.967 | 0.002 | 0.008 | 99.717 | FALSE | 0.3273 |
| 6 | Phosphate | 16.111 | 0.023 | 0.029 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.381 | 3.025 | 6.207 | 99.936 | FALSE | 24.9100 |
| **Total:** | | | **18.808** | **97.462** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 03:18** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

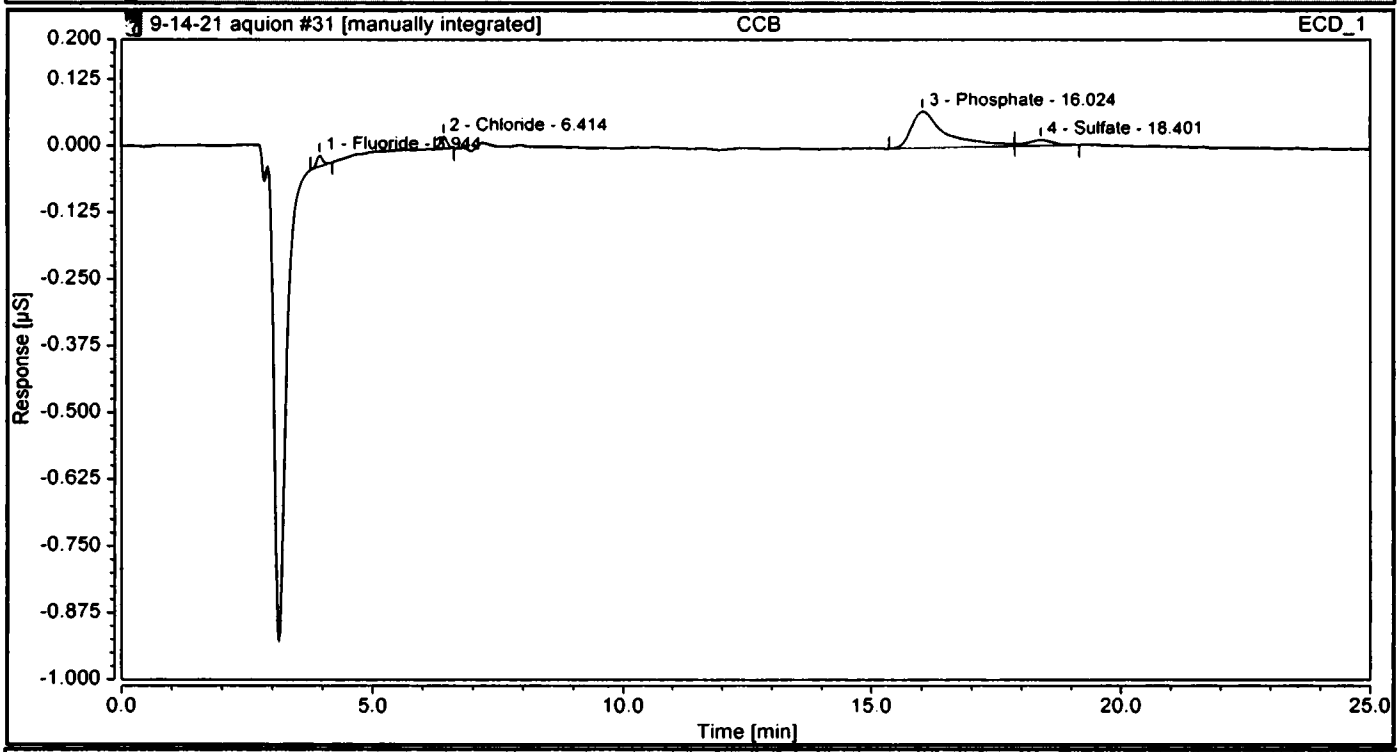
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.735 | 20.763 | 99.875 | TRUE | 10.8882 |
| 2 | Chloride | 6.424 | 1.758 | 11.222 | 99.668 | FALSE | 10.2281 |
| 3 | | 7.094 | 0.032 | 0.062 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.961 | 3.741 | 16.864 | 99.877 | TRUE | 10.5329 |
| 5 | Bromide | 10.191 | 0.753 | 2.917 | 99.871 | FALSE | 10.7845 |
| 6 | Nitrate | 11.914 | 4.508 | 15.598 | 99.717 | FALSE | 10.5427 |
| 7 | Phosphate | 15.934 | 1.565 | 3.055 | 99.819 | FALSE | 10.6025 |
| 8 | Sulfate | 18.397 | 1.263 | 2.481 | 99.936 | FALSE | 10.4777 |
| **Total:** | | | **16.355** | **72.960** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 03:46** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

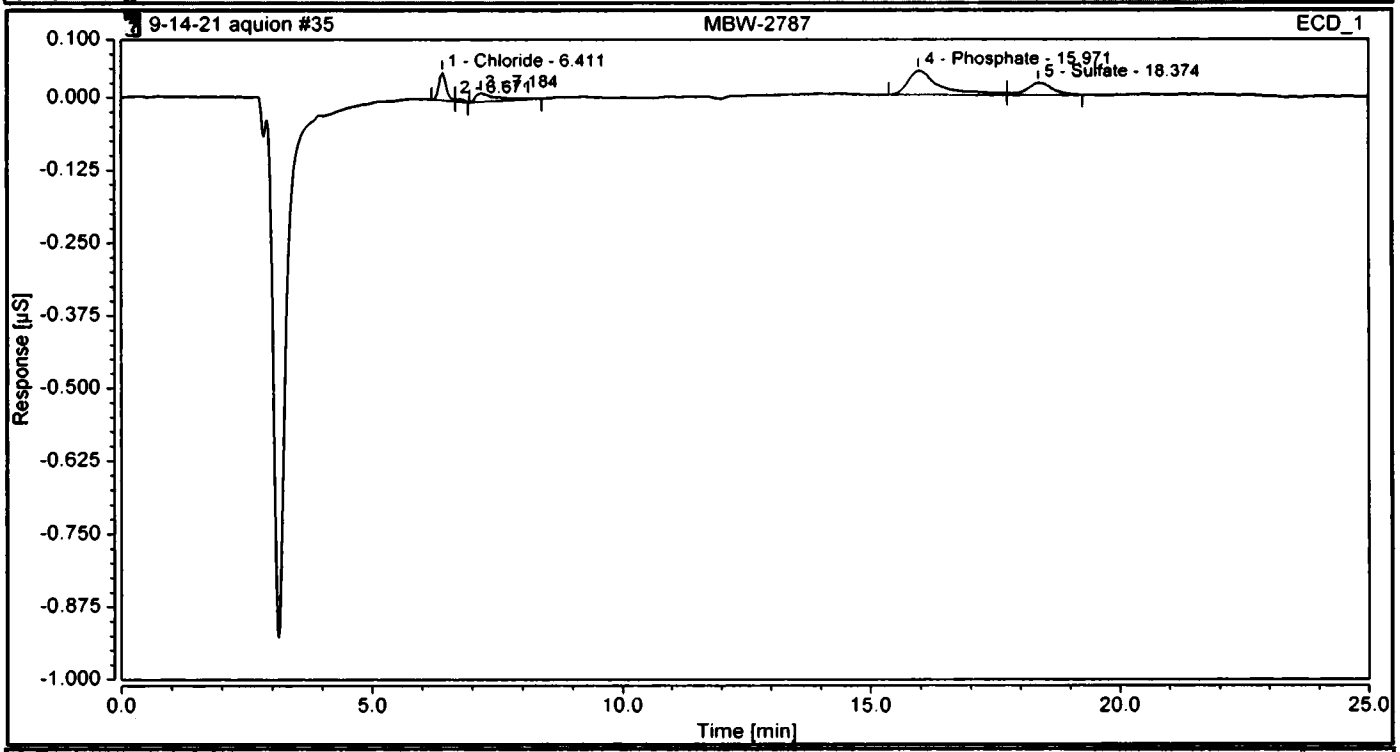
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.003 | 0.021 | 99.875 | FALSE | n.a. |
| 2 | Chloride | 6.414 | 0.003 | 0.023 | 99.668 | TRUE | 1.2281 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 3 | Phosphate | 16.024 | 0.055 | 0.069 | 99.819 | FALSE | n.a. |
| 4 | Sulfate | 18.401 | 0.007 | 0.011 | 99.936 | FALSE | 0.1809 |
| **Total:** | | | **0.068** | **0.123** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **MBW-2787** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 08:58** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

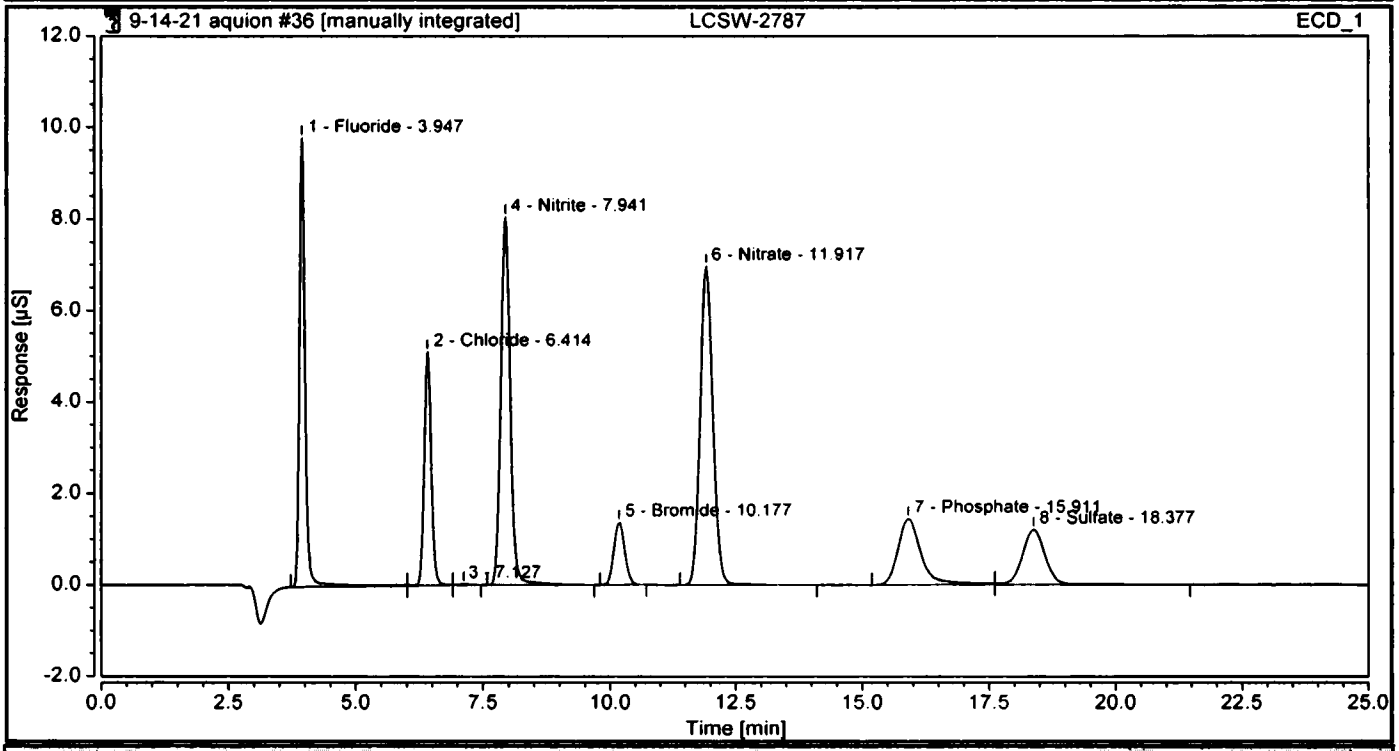
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| 1 | Chloride | 6.411 | 0.008 | 0.048 | 99.668 | FALSE | 1.2521 |
| 2 | | 6.671 | 0.001 | 0.004 | n.a. | FALSE | n.a. |
| 3 | | 7.184 | 0.007 | 0.014 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 4 | Phosphate | 15.971 | 0.031 | 0.042 | 99.819 | FALSE | n.a. |
| 5 | Sulfate | 18.374 | 0.013 | 0.021 | 99.936 | FALSE | 0.2306 |
| **Total:** | | | **0.060** | **0.129** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LCSW-2787** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 09:24** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

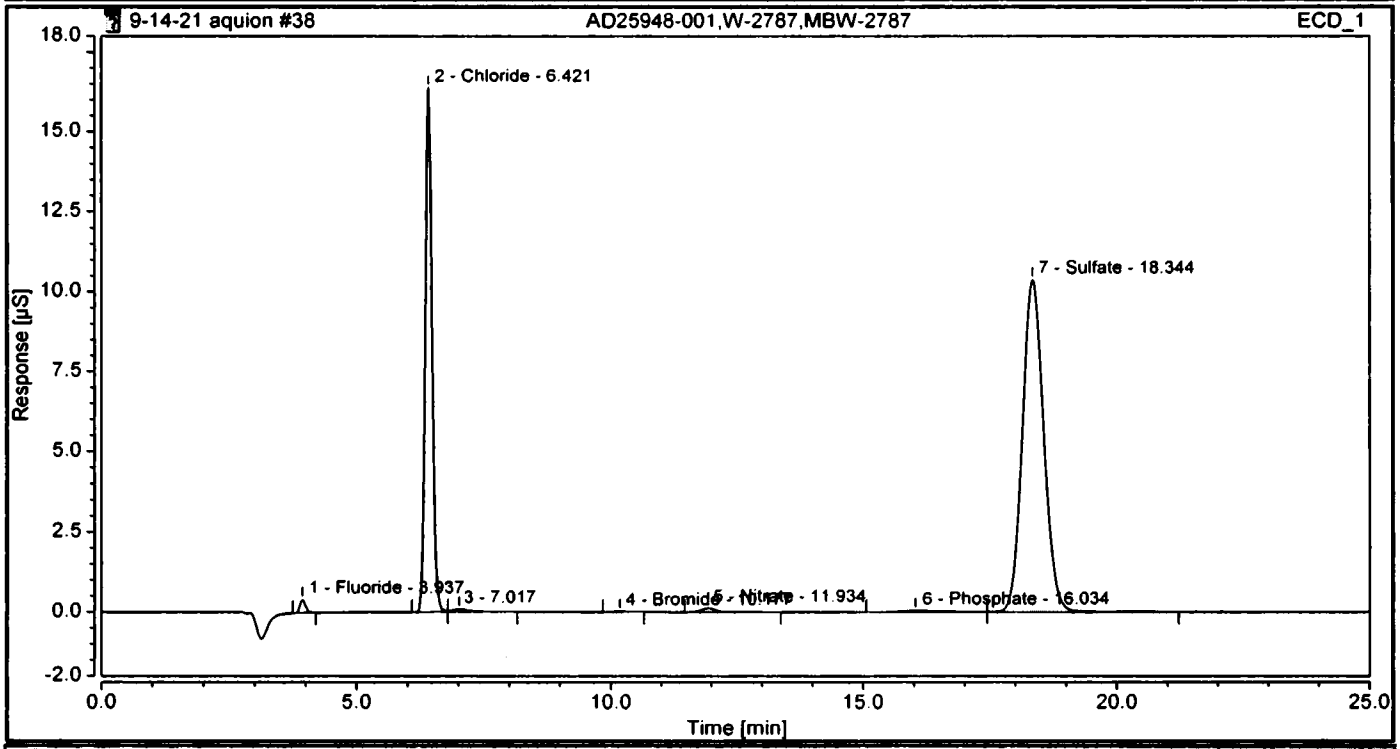
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 1.270 | 9.802 | 99.875 | TRUE | 5.0451 |
| 2 | Chloride | 6.414 | 0.808 | 5.104 | 99.668 | FALSE | 5.3533 |
| 3 | | 7.127 | 0.005 | 0.018 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.941 | 1.724 | 8.035 | 99.877 | TRUE | 4.8568 |
| 5 | Bromide | 10.177 | 0.337 | 1.366 | 99.871 | FALSE | 4.7263 |
| 6 | Nitrate | 11.917 | 2.025 | 6.965 | 99.717 | FALSE | 4.9142 |
| 7 | Phosphate | 15.911 | 0.767 | 1.441 | 99.819 | FALSE | 4.9153 |
| 8 | Sulfate | 18.377 | 0.626 | 1.201 | 99.936 | FALSE | 5.2533 |
| **Total:** | | | **7.562** | **33.933** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD25948-001,W-2787,MBW-2787** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 10:38** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

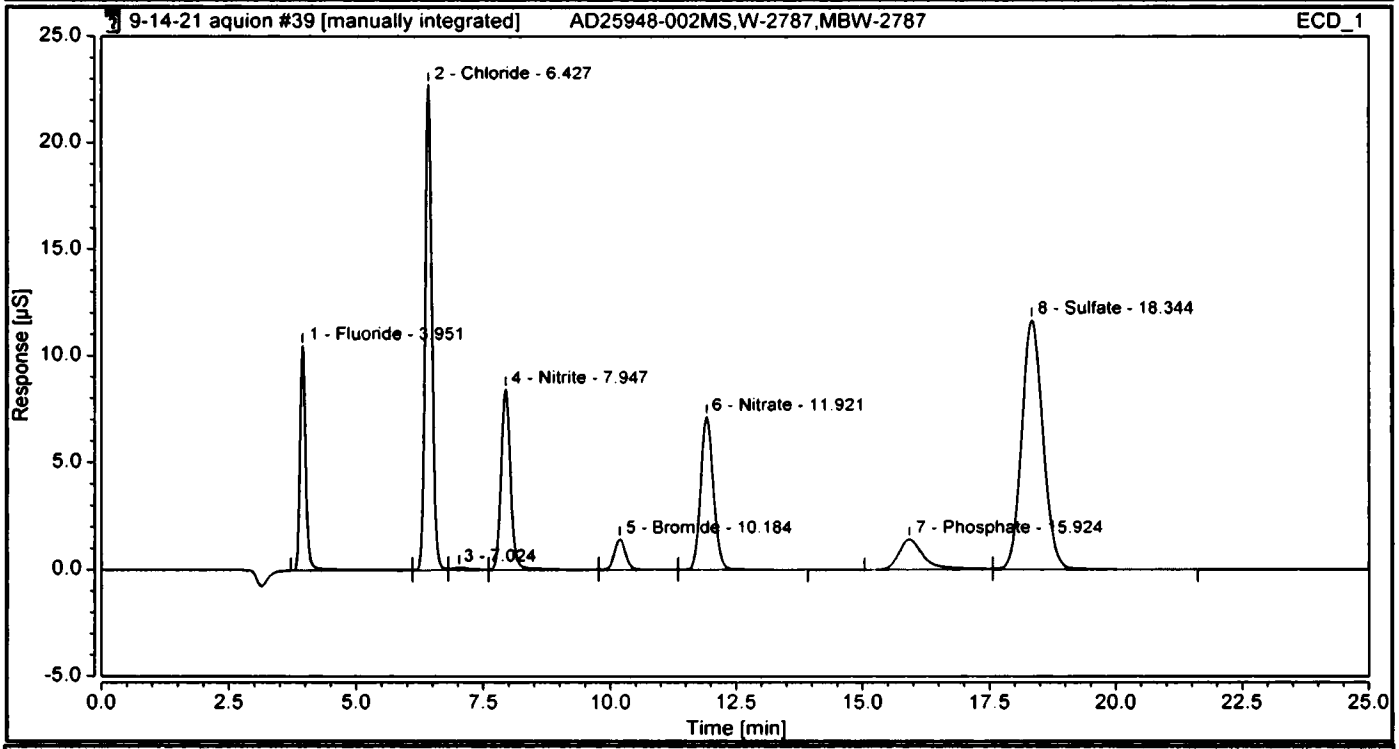
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.050 | 0.417 | 99.875 | FALSE | 0.1781 |
| 2 | Chloride | 6.421 | 2.518 | 16.375 | 99.668 | FALSE | 14.1228 |
| 3 | | 7.017 | 0.034 | 0.086 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.177 | 0.005 | 0.019 | 99.871 | FALSE | n.a. |
| 5 | Nitrate | 11.934 | 0.036 | 0.116 | 99.717 | FALSE | 0.4040 |
| 6 | Phosphate | 16.034 | 0.039 | 0.045 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.344 | 5.017 | 10.386 | 99.936 | FALSE | 41.2240 |
| **Total:** | | | **7.698** | **27.443** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD25948-002MS,W-2787,MBW-2787** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 11:05** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

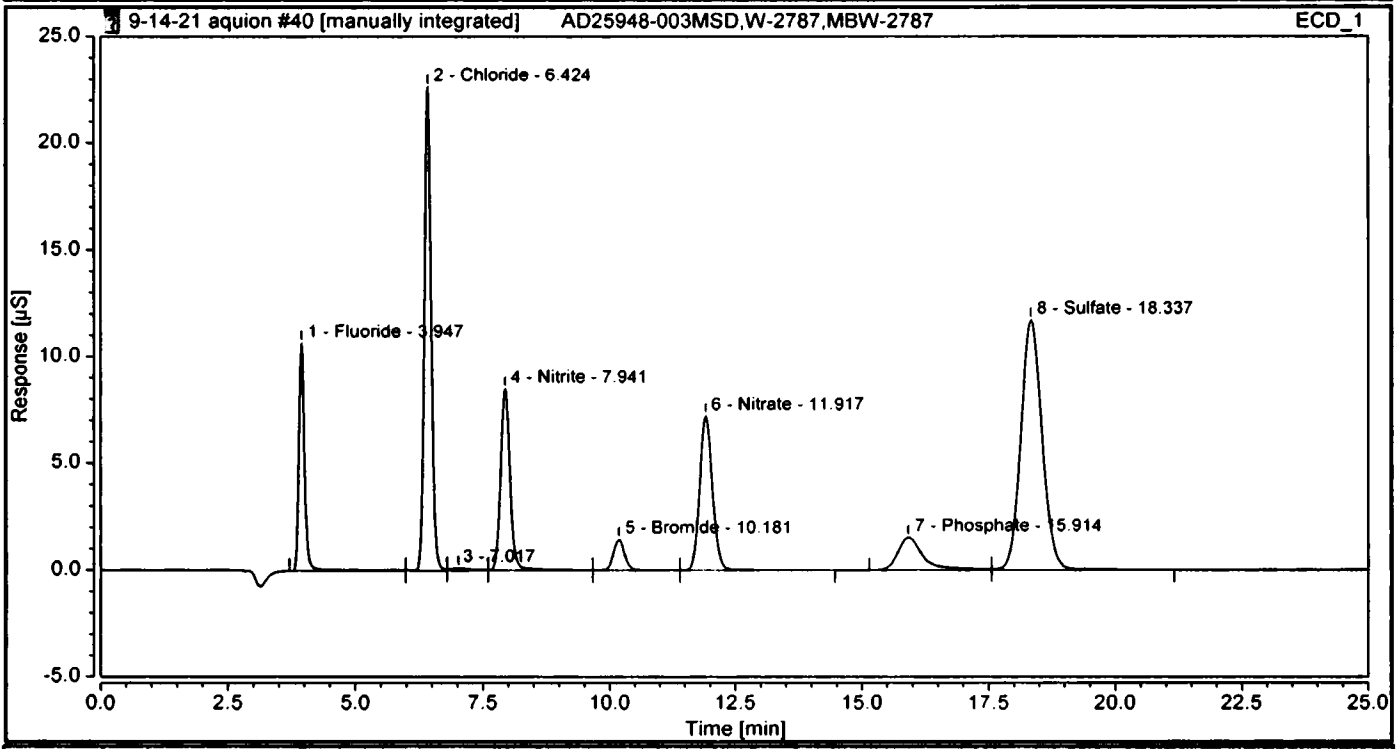
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.951 | 1.378 | 10.505 | 99.875 | TRUE | 5.4732 |
| 2 | Chloride | 6.427 | 3.489 | 22.738 | 99.668 | FALSE | 19.1049 |
| 3 | | 7.024 | 0.057 | 0.123 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.947 | 1.860 | 8.435 | 99.877 | TRUE | 5.2415 |
| 5 | Bromide | 10.184 | 0.380 | 1.438 | 99.871 | FALSE | 5.3604 |
| 6 | Nitrate | 11.921 | 2.093 | 7.150 | 99.717 | FALSE | 5.0683 |
| 7 | Phosphate | 15.924 | 0.825 | 1.416 | 99.819 | TRUE | 5.3302 |
| 8 | Sulfate | 18.344 | 5.674 | 11.690 | 99.936 | FALSE | 46.6073 |
| **Total:** | | | **15.757** | **63.495** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD25948-003MSD,W-2787,MBW-2787** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 11:33** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

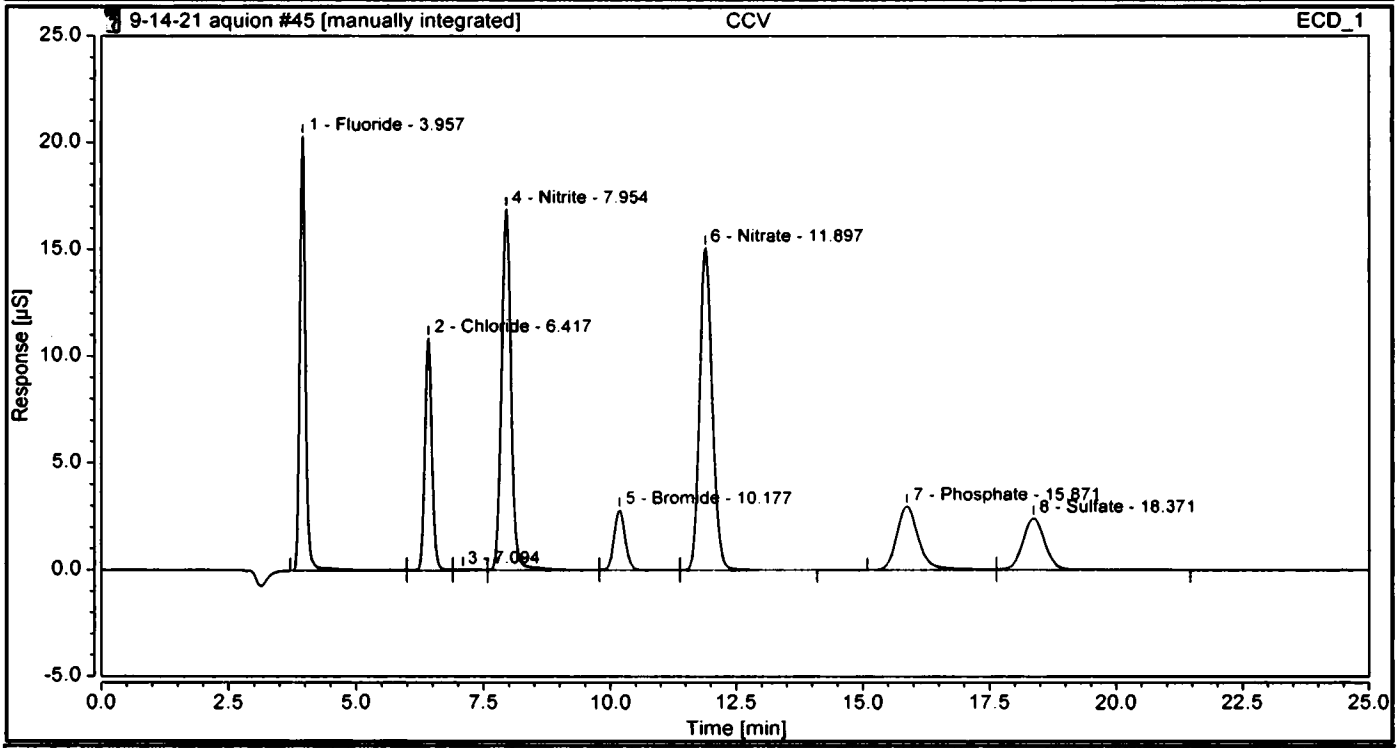
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 1.386 | 10.663 | 99.875 | TRUE | 5.5081 |
| 2 | Chloride | 6.424 | 3.481 | 22.661 | 99.668 | FALSE | 19.0643 |
| 3 | | 7.017 | 0.055 | 0.119 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.941 | 1.867 | 8.506 | 99.877 | TRUE | 5.2592 |
| 5 | Bromide | 10.181 | 0.380 | 1.447 | 99.871 | FALSE | 5.3536 |
| 6 | Nitrate | 11.917 | 2.112 | 7.218 | 99.717 | FALSE | 5.1103 |
| 7 | Phosphate | 15.914 | 0.893 | 1.528 | 99.819 | FALSE | 5.8187 |
| 8 | Sulfate | 18.337 | 5.684 | 11.707 | 99.936 | FALSE | 46.6926 |
| **Total:** | | | **15.859** | **63.850** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 13:48** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

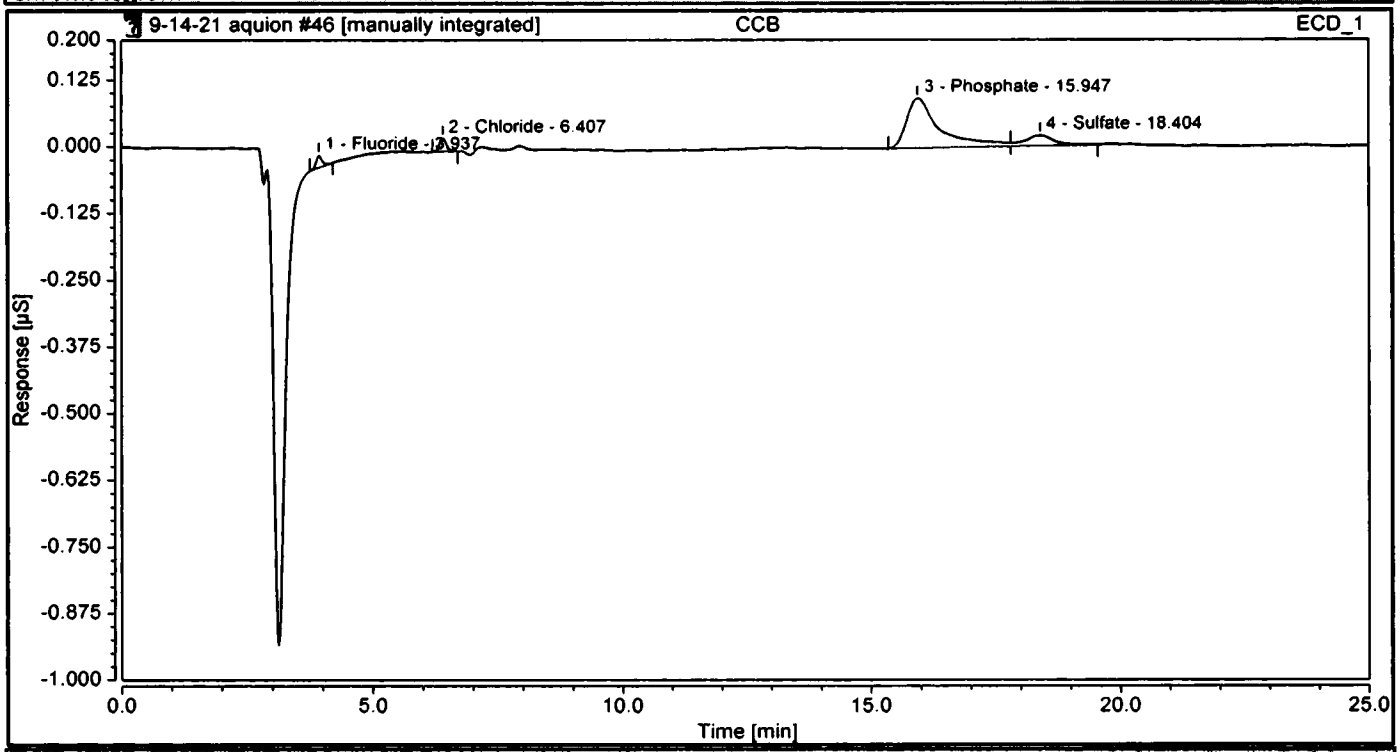
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.957 | 2.638 | 20.306 | 99.875 | TRUE | 10.4995 |
| 2 | Chloride | 6.417 | 1.705 | 10.874 | 99.668 | FALSE | 9.9574 |
| 3 | | 7.094 | 0.026 | 0.047 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.954 | 3.729 | 16.885 | 99.877 | TRUE | 10.4992 |
| 5 | Bromide | 10.177 | 0.718 | 2.820 | 99.871 | FALSE | 10.2813 |
| 6 | Nitrate | 11.897 | 4.338 | 15.076 | 99.717 | FALSE | 10.1565 |
| 7 | Phosphate | 15.871 | 1.506 | 2.978 | 99.819 | FALSE | 10.1864 |
| 8 | Sulfate | 18.371 | 1.227 | 2.411 | 99.936 | FALSE | 10.1780 |
| **Total:** | | | **15.886** | **71.398** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 14:16** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

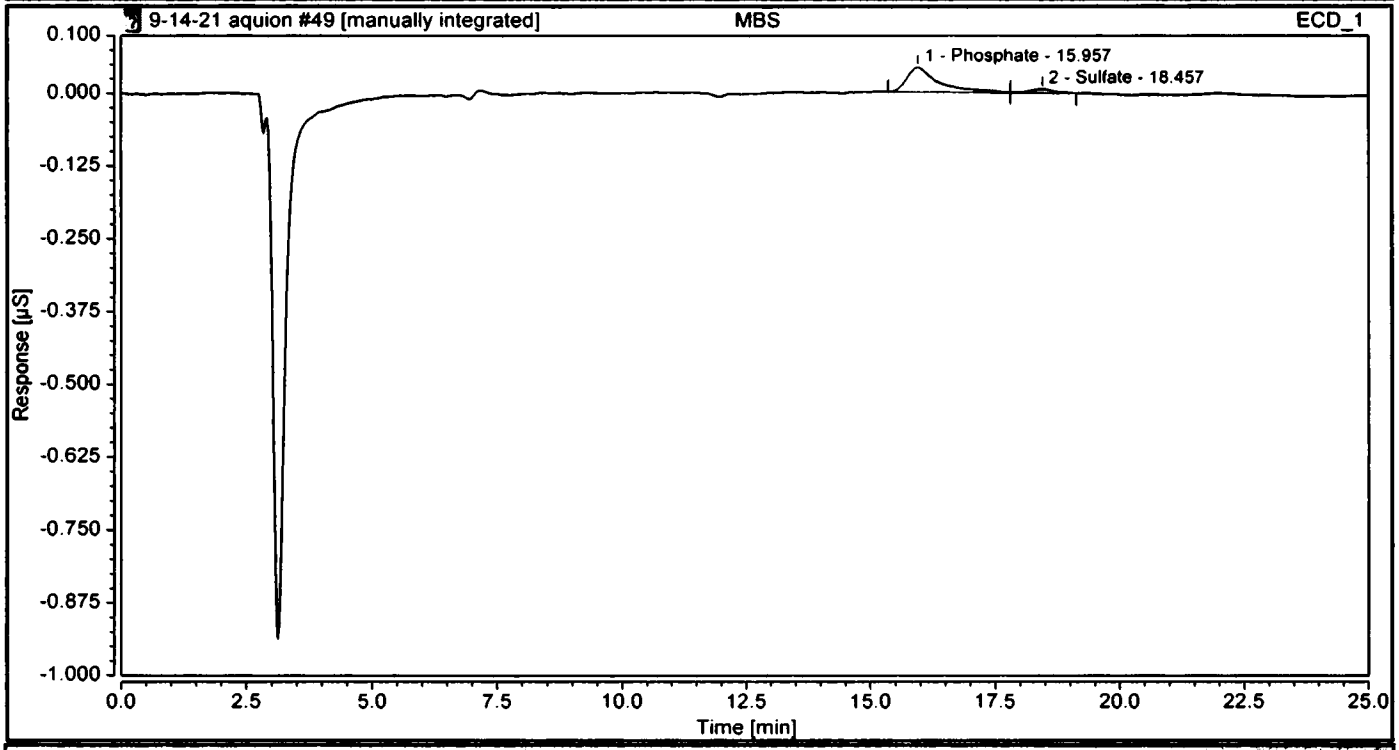
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.003 | 0.023 | 99.875 | FALSE | n.a. |
| 2 | Chloride | 6.407 | 0.004 | 0.025 | 99.668 | TRUE | 1.2314 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 3 | Phosphate | 15.947 | 0.072 | 0.093 | 99.819 | FALSE | n.a. |
| 4 | Sulfate | 18.404 | 0.013 | 0.020 | 99.936 | FALSE | 0.2351 |
| **Total:** | | | **0.092** | **0.161** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **MBS** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 15:37** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

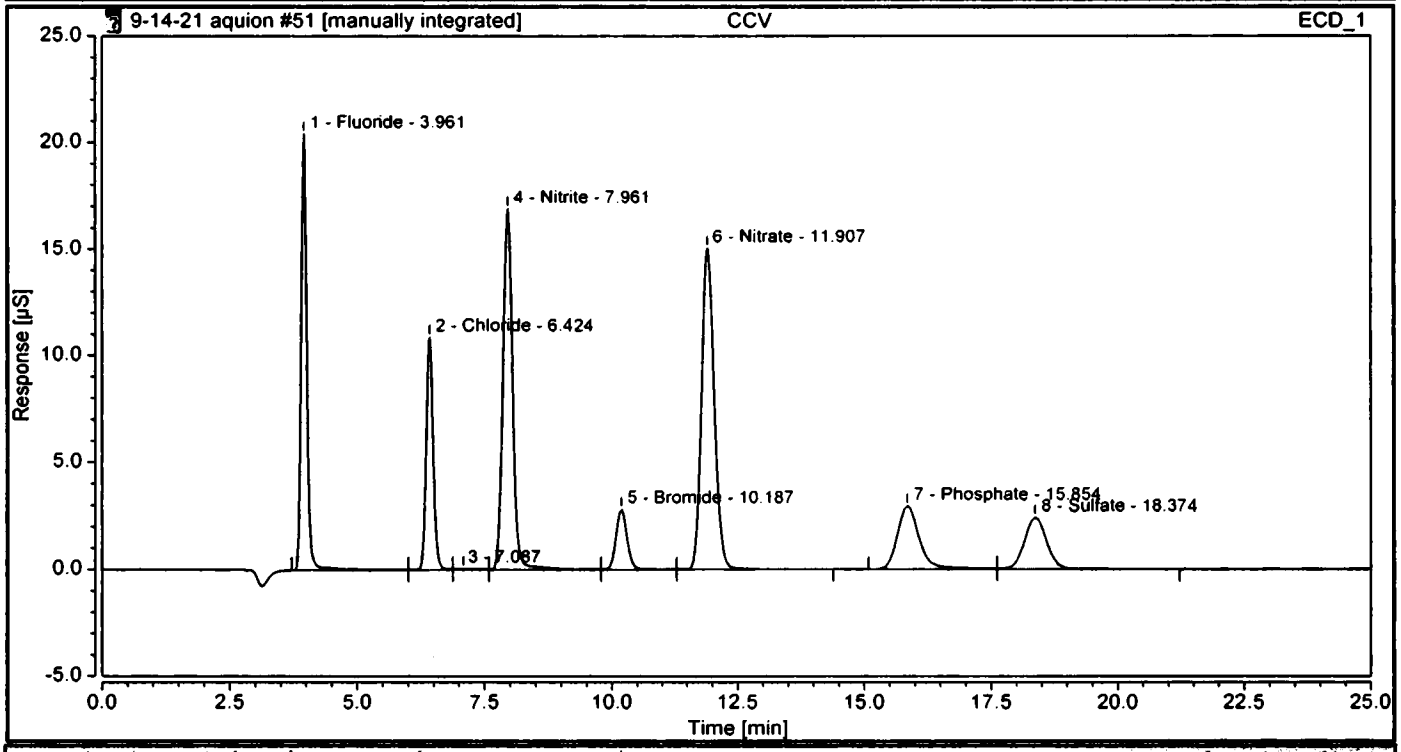
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 1 | Phosphate | 15.957 | 0.031 | 0.043 | 99.819 | FALSE | n.a. |
| 2 | Sulfate | 18.457 | 0.004 | 0.006 | 99.936 | FALSE | 0.1560 |
| **Total:** | | | **0.035** | **0.049** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 16:32** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

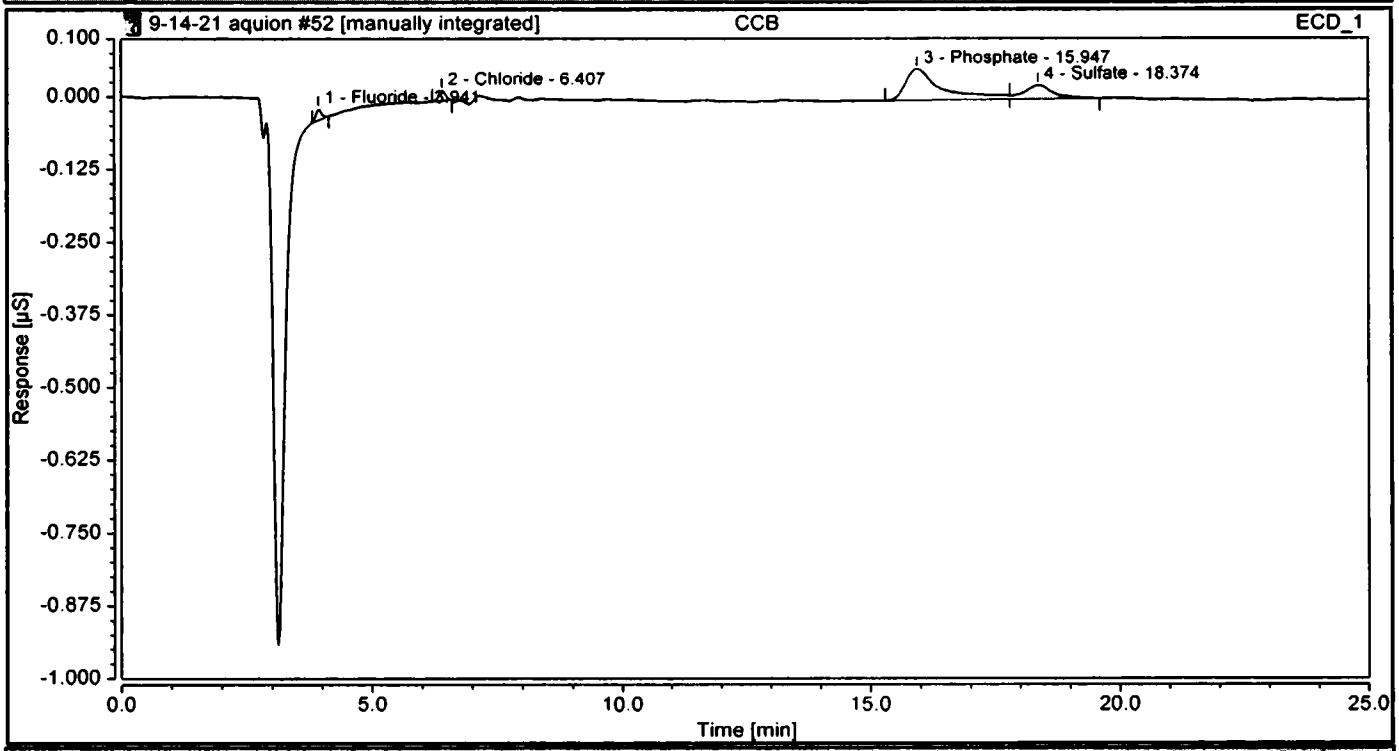
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.643 | 20.421 | 99.875 | TRUE | 10.5222 |
| 2 | Chloride | 6.424 | 1.710 | 10.891 | 99.668 | FALSE | 9.9812 |
| 3 | | 7.087 | 0.028 | 0.053 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.961 | 3.734 | 16.889 | 99.877 | TRUE | 10.5130 |
| 5 | Bromide | 10.187 | 0.718 | 2.816 | 99.871 | TRUE | 10.2843 |
| 6 | Nitrate | 11.907 | 4.348 | 15.044 | 99.717 | FALSE | 10.1804 |
| 7 | Phosphate | 15.854 | 1.489 | 2.953 | 99.819 | FALSE | 10.0638 |
| 8 | Sulfate | 18.374 | 1.227 | 2.416 | 99.936 | FALSE | 10.1815 |
| **Total:** | | | **15.898** | **71.481** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 16:59** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

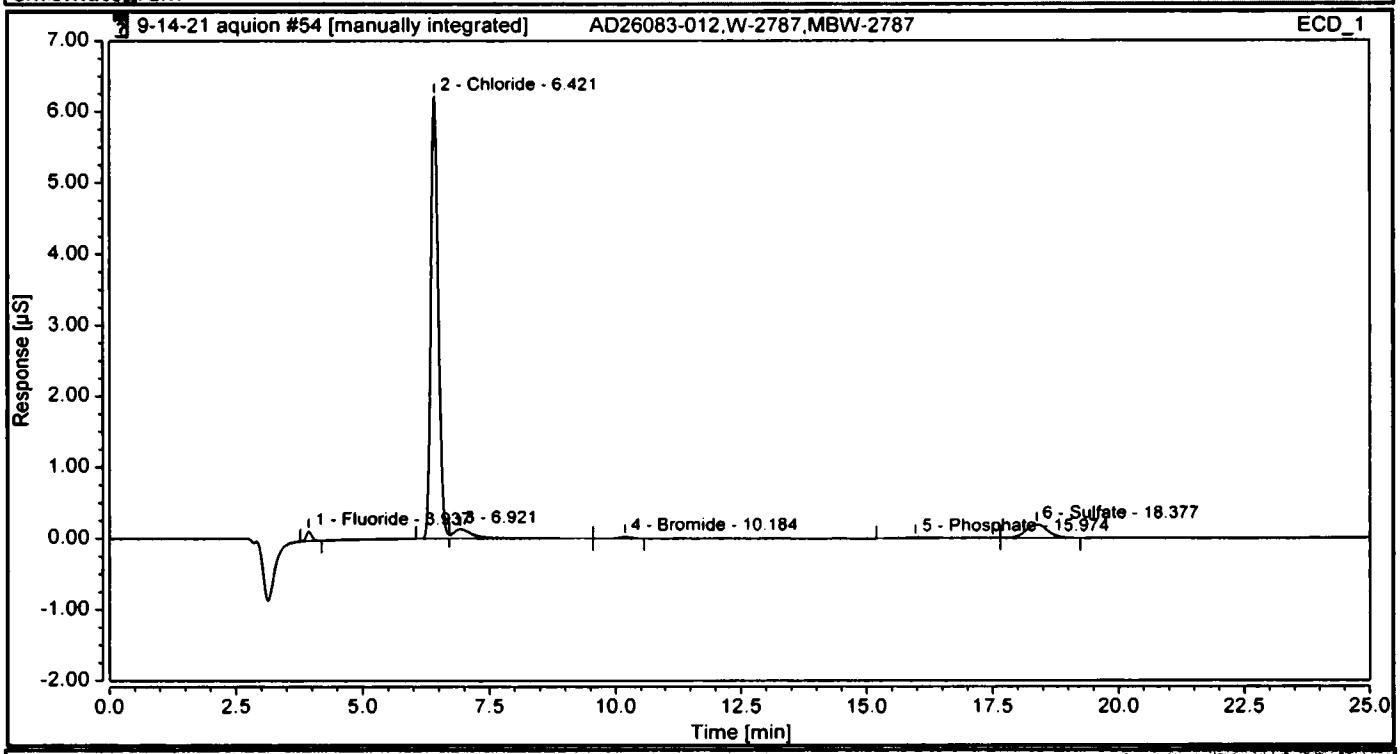
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.002 | 0.020 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.407 | 0.003 | 0.017 | 99.668 | TRUE | 1.2240 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 3 | Phosphate | 15.947 | 0.046 | 0.054 | 99.819 | FALSE | n.a. |
| 4 | Sulfate | 18.374 | 0.016 | 0.023 | 99.936 | FALSE | 0.2568 |
| **Total:** | | | **0.067** | **0.114** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-012,W-2787,MBW-2787** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 19:17** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

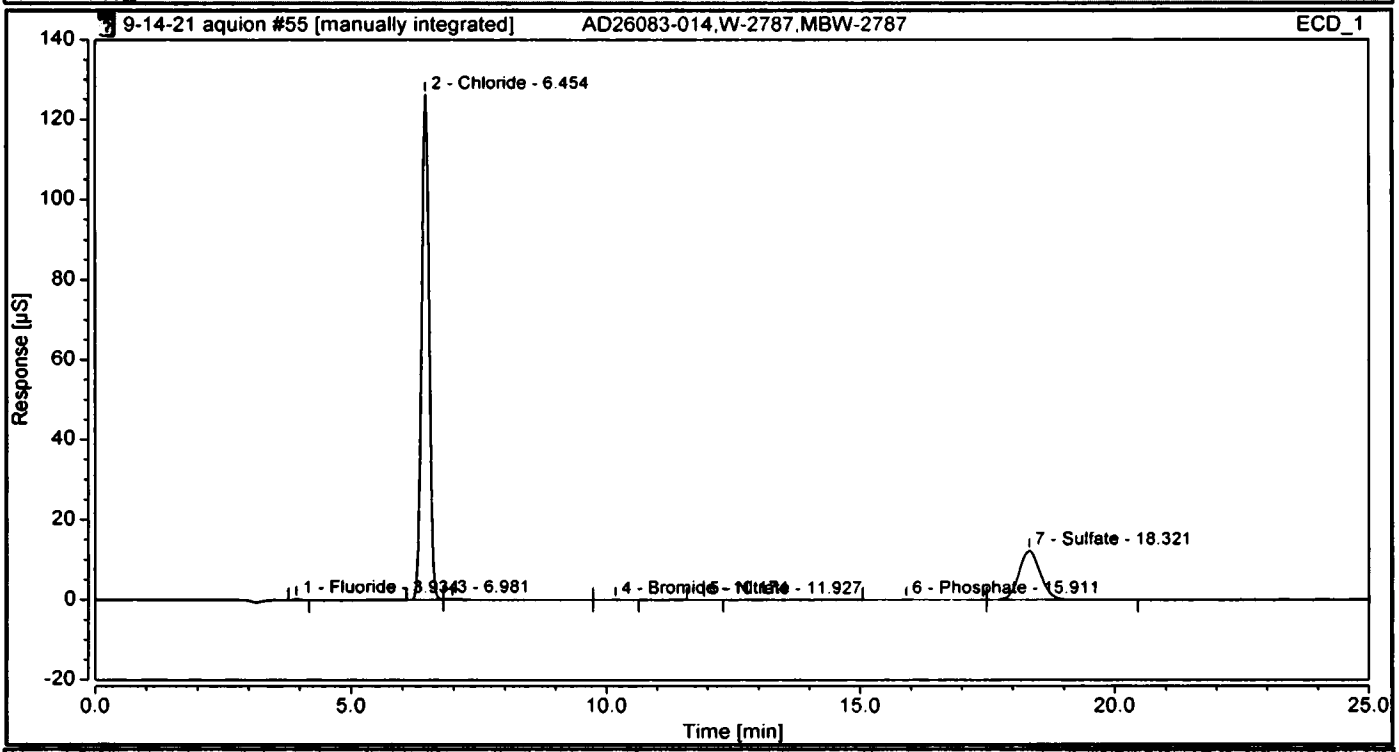
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.017 | 0.139 | 99.875 | TRUE | 0.0459 |
| 2 | Chloride | 6.421 | 1.051 | 6.217 | 99.668 | TRUE | 6.6005 |
| 3 | | 6.921 | 0.065 | 0.134 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.184 | 0.006 | 0.023 | 99.871 | TRUE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 15.974 | 0.016 | 0.014 | 99.819 | FALSE | n.a. |
| 6 | Sulfate | 18.377 | 0.095 | 0.189 | 99.936 | FALSE | 0.9069 |
| **Total:** | | | **1.250** | **6.716** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-014,W-2787,MBW-2787** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 19:44** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

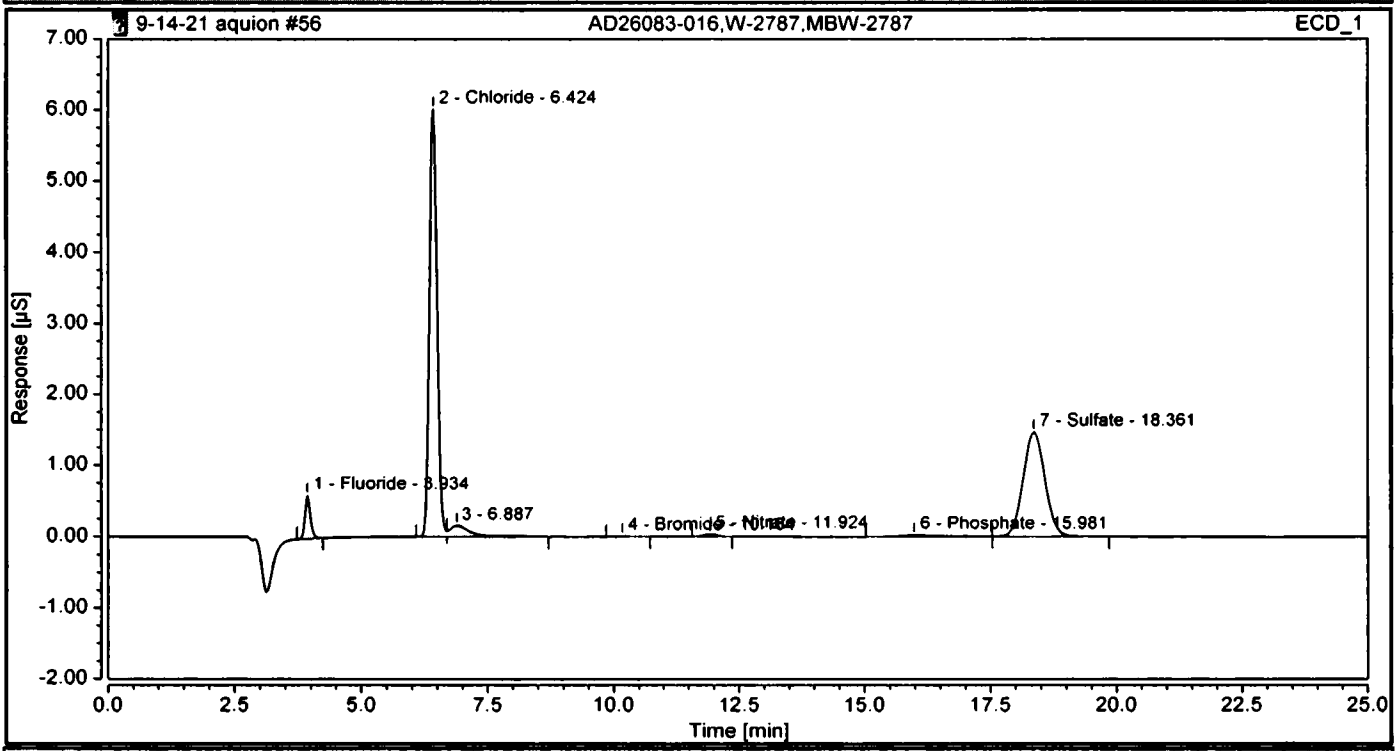
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.934 | 0.034 | 0.284 | 99.875 | TRUE | 0.1151 |
| 2 | Chloride | 6.454 | 21.511 | 126.204 | 99.668 | TRUE | 111.5375 |
| 3 | | 6.981 | 0.130 | 0.274 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.174 | 0.024 | 0.094 | 99.871 | TRUE | 0.1674 |
| 5 | Nitrate | 11.927 | 0.005 | 0.017 | 99.717 | FALSE | 0.3328 |
| 6 | Phosphate | 15.911 | 0.063 | 0.081 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.321 | 5.899 | 12.254 | 99.936 | FALSE | 48.4512 |
| **Total:** | | | **27.667** | **139.209** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-016,W-2787,MBW-2787** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 20:11** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

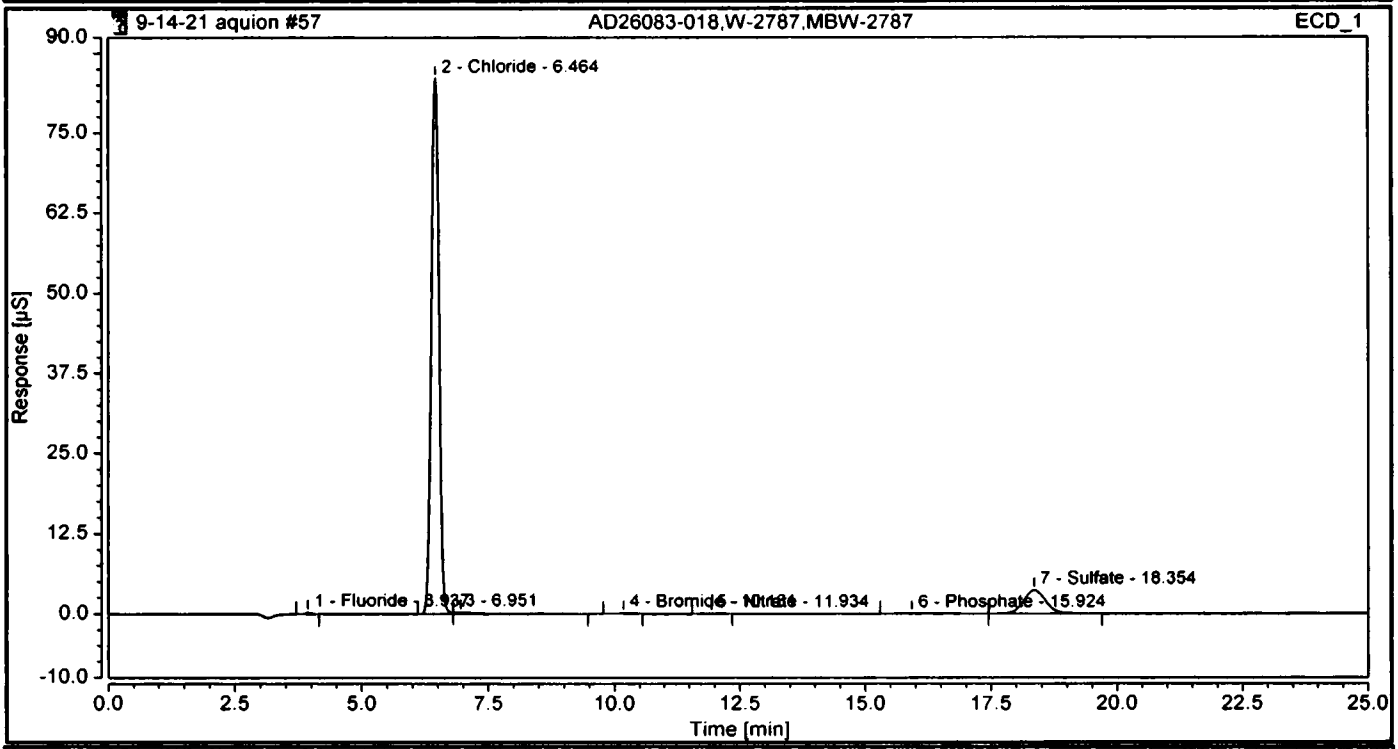
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.934 | 0.073 | 0.603 | 99.875 | FALSE | 0.2701 |
| 2 | Chloride | 6.424 | 1.055 | 6.008 | 99.668 | FALSE | 6.6213 |
| 3 | | 6.887 | 0.074 | 0.154 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.164 | 0.002 | 0.008 | 99.871 | FALSE | n.a. |
| 5 | Nitrate | 11.924 | 0.010 | 0.035 | 99.717 | FALSE | 0.3452 |
| 6 | Phosphate | 15.981 | 0.023 | 0.023 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.361 | 0.727 | 1.464 | 99.936 | FALSE | 6.0821 |
| **Total:** | | | **1.964** | **8.295** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-018,W-2787,MBW-2787** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 20:38** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

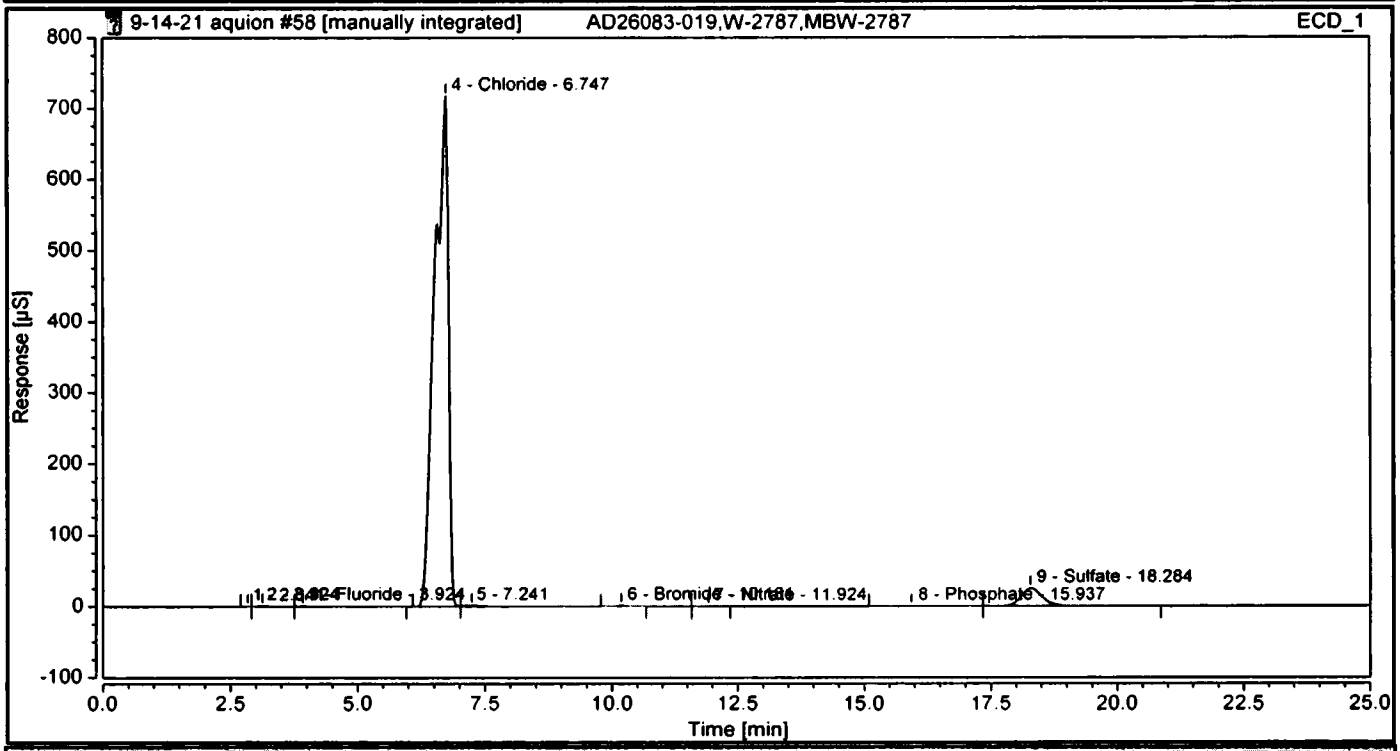
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.025 | 0.204 | 99.875 | FALSE | 0.0770 |
| 2 | Chloride | 6.464 | 14.889 | 83.568 | 99.668 | FALSE | 77.5752 |
| 3 | | 6.951 | 0.118 | 0.248 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.181 | 0.020 | 0.080 | 99.871 | FALSE | 0.1080 |
| 5 | Nitrate | 11.934 | 0.011 | 0.037 | 99.717 | FALSE | 0.3465 |
| 6 | Phosphate | 15.924 | 0.019 | 0.023 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.354 | 1.780 | 3.626 | 99.936 | FALSE | 14.7120 |
| **Total:** | | | **16.862** | **87.786** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-019,W-2787,MBW-2787** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 21:05** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

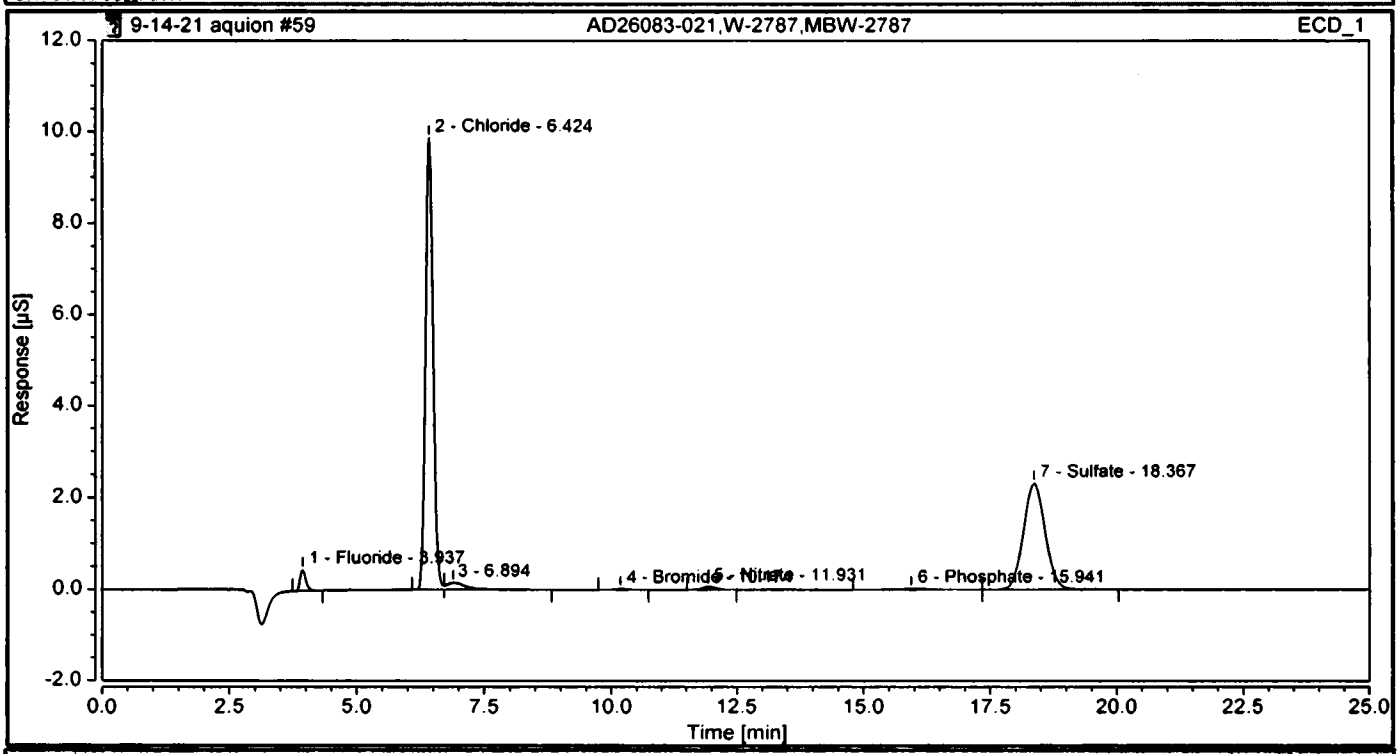
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.841 | 0.005 | 0.054 | n.a. | FALSE | n.a. |
| 2 | | 3.124 | 0.185 | 0.651 | n.a. | FALSE | n.a. |
| 3 | Fluoride | 3.924 | 0.093 | 0.529 | 99.875 | FALSE | 0.3485 |
| 4 | Chloride | 6.747 | 224.000 | 717.252 | 99.668 | TRUE | 1150.0639 |
| 5 | | 7.241 | 0.545 | 0.963 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 6 | Bromide | 10.181 | 0.208 | 0.845 | 99.871 | TRUE | 2.8547 |
| 7 | Nitrate | 11.924 | 0.004 | 0.010 | 99.717 | FALSE | 0.3299 |
| 8 | Phosphate | 15.937 | 0.021 | 0.027 | 99.819 | FALSE | n.a. |
| 9 | Sulfate | 18.284 | 11.753 | 24.704 | 99.936 | FALSE | 96.4098 |
| **Total:** | | | **236.815** | **745.035** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-021,W-2787,MBW-2787** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 21:33** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

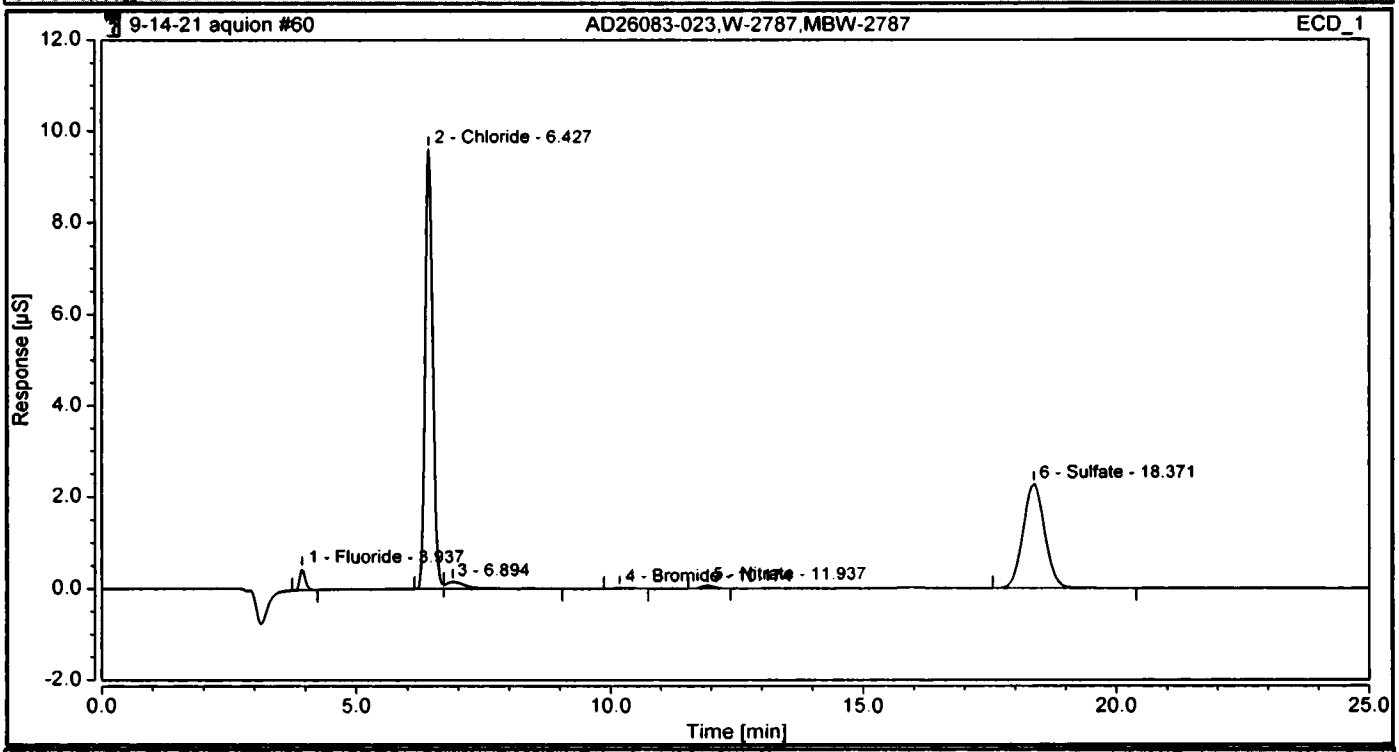
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.056 | 0.461 | 99.875 | FALSE | 0.2020 |
| 2 | Chloride | 6.424 | 1.707 | 9.873 | 99.668 | FALSE | 9.9655 |
| 3 | | 6.894 | 0.071 | 0.152 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.174 | 0.005 | 0.020 | 99.871 | FALSE | n.a. |
| 5 | Nitrate | 11.931 | 0.020 | 0.065 | 99.717 | FALSE | 0.3661 |
| 6 | Phosphate | 15.941 | 0.017 | 0.020 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.367 | 1.146 | 2.309 | 99.936 | FALSE | 9.5112 |
| **Total:** | | | **3.021** | **12.901** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-023,W-2787,MBW-2787** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 22:00** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

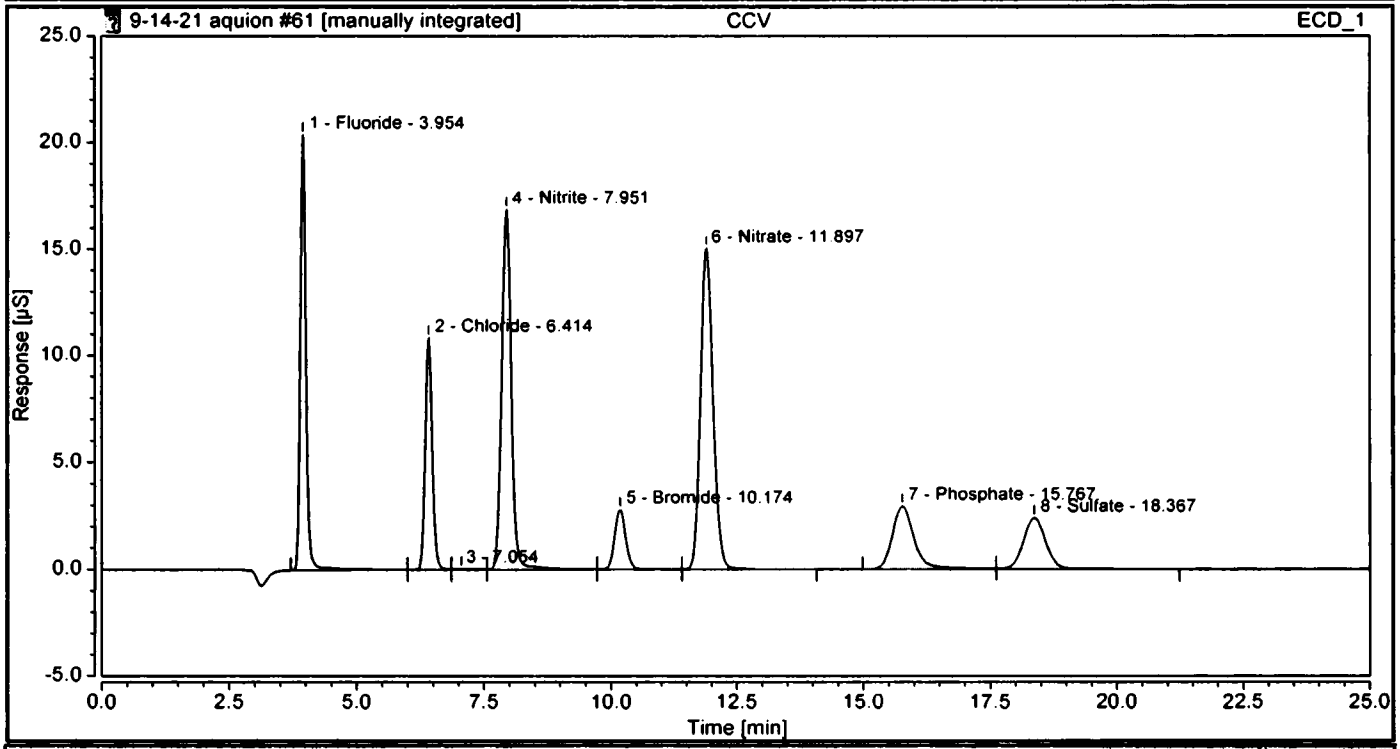
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.056 | 0.464 | 99.875 | FALSE | 0.2019 |
| 2 | Chloride | 6.427 | 1.665 | 9.613 | 99.668 | FALSE | 9.7484 |
| 3 | | 6.894 | 0.072 | 0.152 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.174 | 0.005 | 0.019 | 99.871 | FALSE | n.a. |
| 5 | Nitrate | 11.937 | 0.018 | 0.061 | 99.717 | FALSE | 0.3626 |
| n.a. | Phosphate | n.a. | n.a. | n.a. | 99.819 | n.a. | n.a. |
| 6 | Sulfate | 18.371 | 1.124 | 2.270 | 99.936 | FALSE | 9.3370 |
| **Total:** | | | **2.940** | **12.579** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 22:27** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

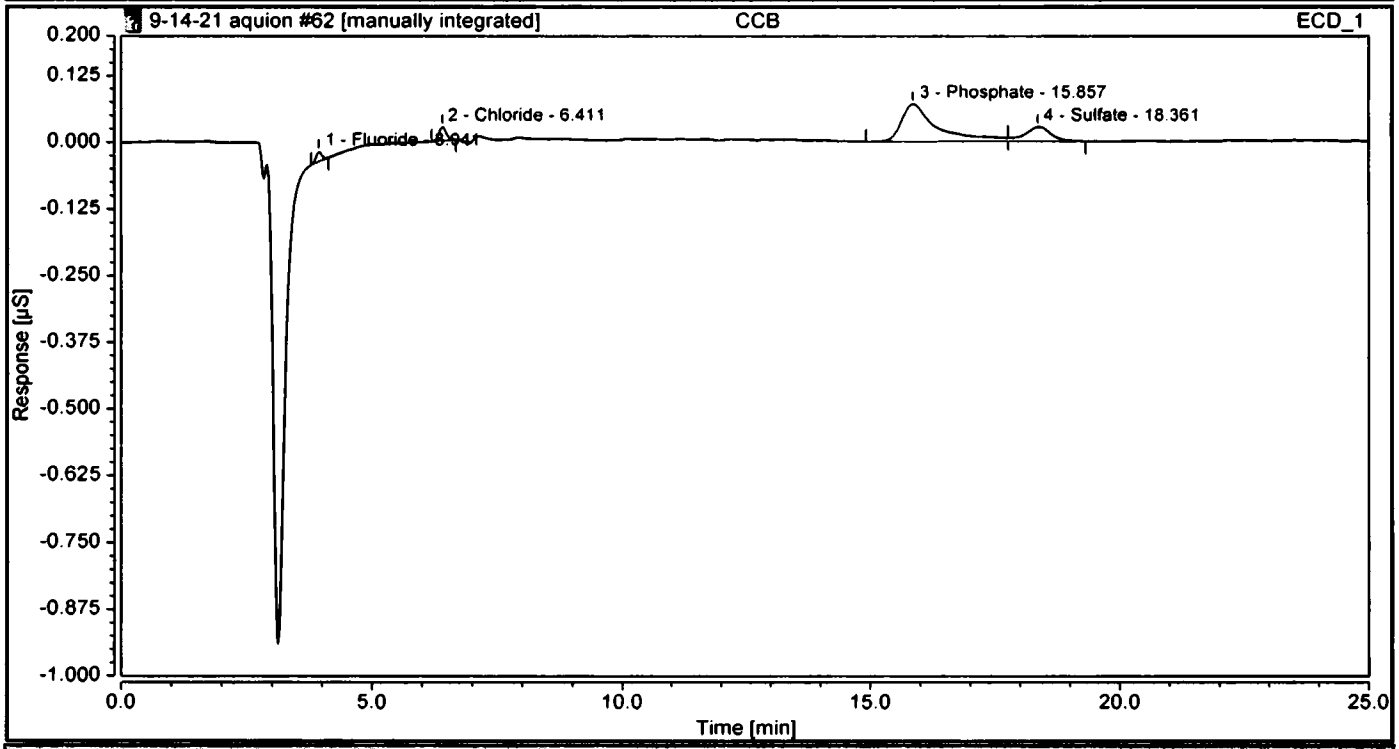
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.954 | 2.636 | 20.391 | 99.875 | TRUE | 10.4937 |
| 2 | Chloride | 6.414 | 1.701 | 10.867 | 99.668 | FALSE | 9.9368 |
| 3 | | 7.054 | 0.026 | 0.052 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.951 | 3.721 | 16.866 | 99.877 | TRUE | 10.4787 |
| 5 | Bromide | 10.174 | 0.723 | 2.819 | 99.871 | FALSE | 10.3537 |
| 6 | Nitrate | 11.897 | 4.331 | 15.046 | 99.717 | FALSE | 10.1423 |
| 7 | Phosphate | 15.767 | 1.485 | 2.951 | 99.819 | FALSE | 10.0315 |
| 8 | Sulfate | 18.367 | 1.221 | 2.402 | 99.936 | FALSE | 10.1324 |
| **Total:** | | | **15.845** | **71.394** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **15/Sep/21 22:54** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

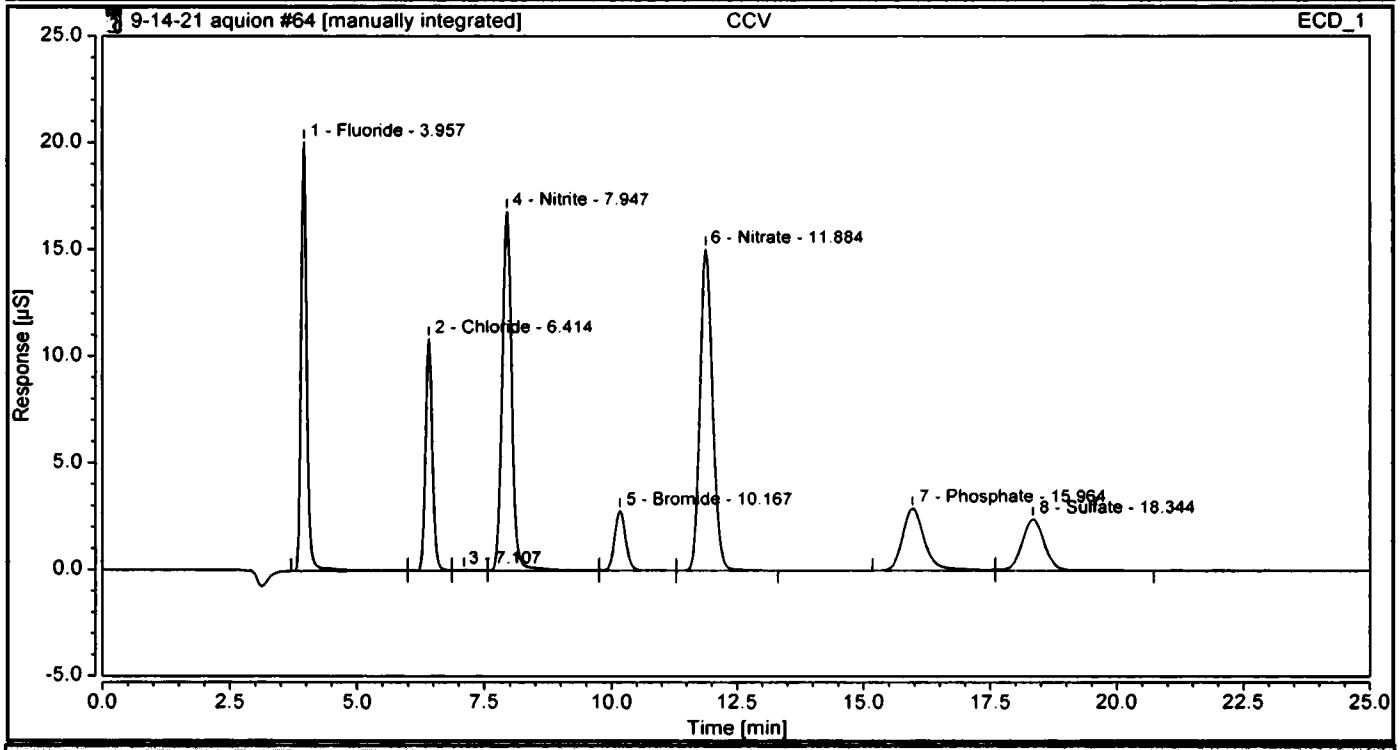
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.002 | 0.018 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.411 | 0.004 | 0.026 | 99.668 | TRUE | 1.2322 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 3 | Phosphate | 15.857 | 0.059 | 0.071 | 99.819 | FALSE | n.a. |
| 4 | Sulfate | 18.361 | 0.017 | 0.027 | 99.936 | FALSE | 0.2671 |
| **Total:** | | | **0.082** | **0.142** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 11:10** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

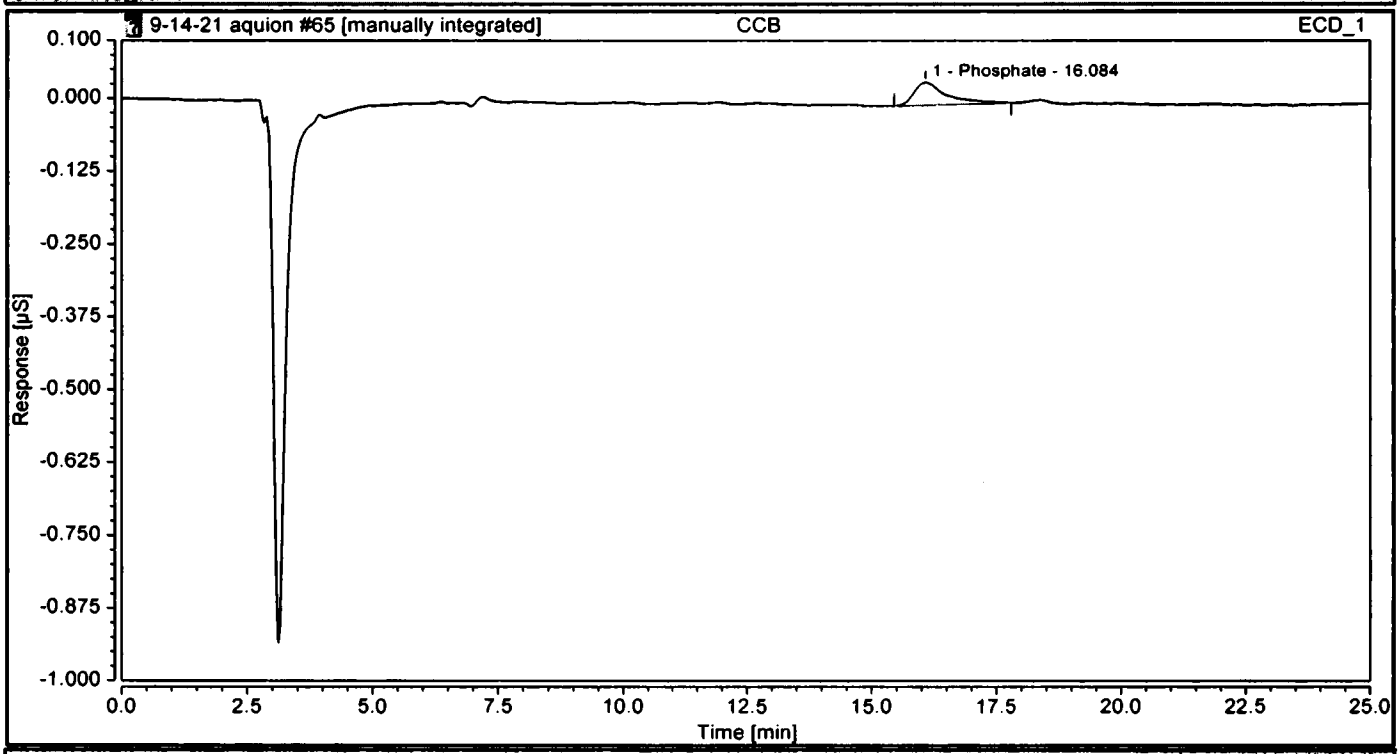
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.957 | 2.622 | 20.066 | 99.875 | TRUE | 10.4364 |
| 2 | Chloride | 6.414 | 1.695 | 10.868 | 99.668 | FALSE | 9.9030 |
| 3 | | 7.107 | 0.026 | 0.050 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.947 | 3.696 | 16.824 | 99.877 | TRUE | 10.4060 |
| 5 | Bromide | 10.167 | 0.710 | 2.812 | 99.871 | FALSE | 10.1646 |
| 6 | Nitrate | 11.884 | 4.306 | 15.053 | 99.717 | FALSE | 10.0854 |
| 7 | Phosphate | 15.964 | 1.471 | 2.915 | 99.819 | FALSE | 9.9384 |
| 8 | Sulfate | 18.344 | 1.214 | 2.402 | 99.936 | FALSE | 10.0727 |
| **Total:** | | | **15.740** | **70.989** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 11:37** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

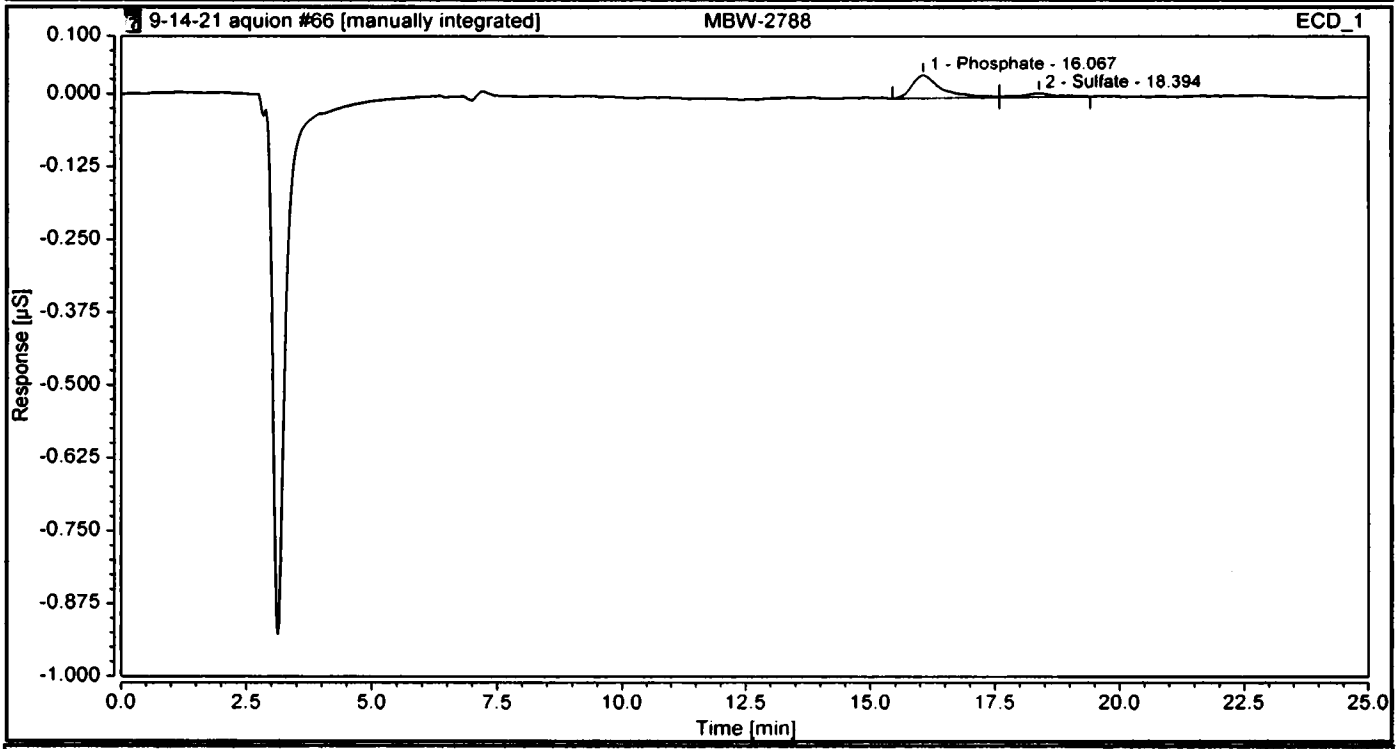
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 1 | Phosphate | 16.084 | 0.031 | 0.039 | 99.819 | FALSE | n.a. |
| n.a. | Sulfate | n.a. | n.a. | n.a. | 99.936 | n.a. | n.a. |
| **Total:** | | | **0.031** | **0.039** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **MBW-2788** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 12:04** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

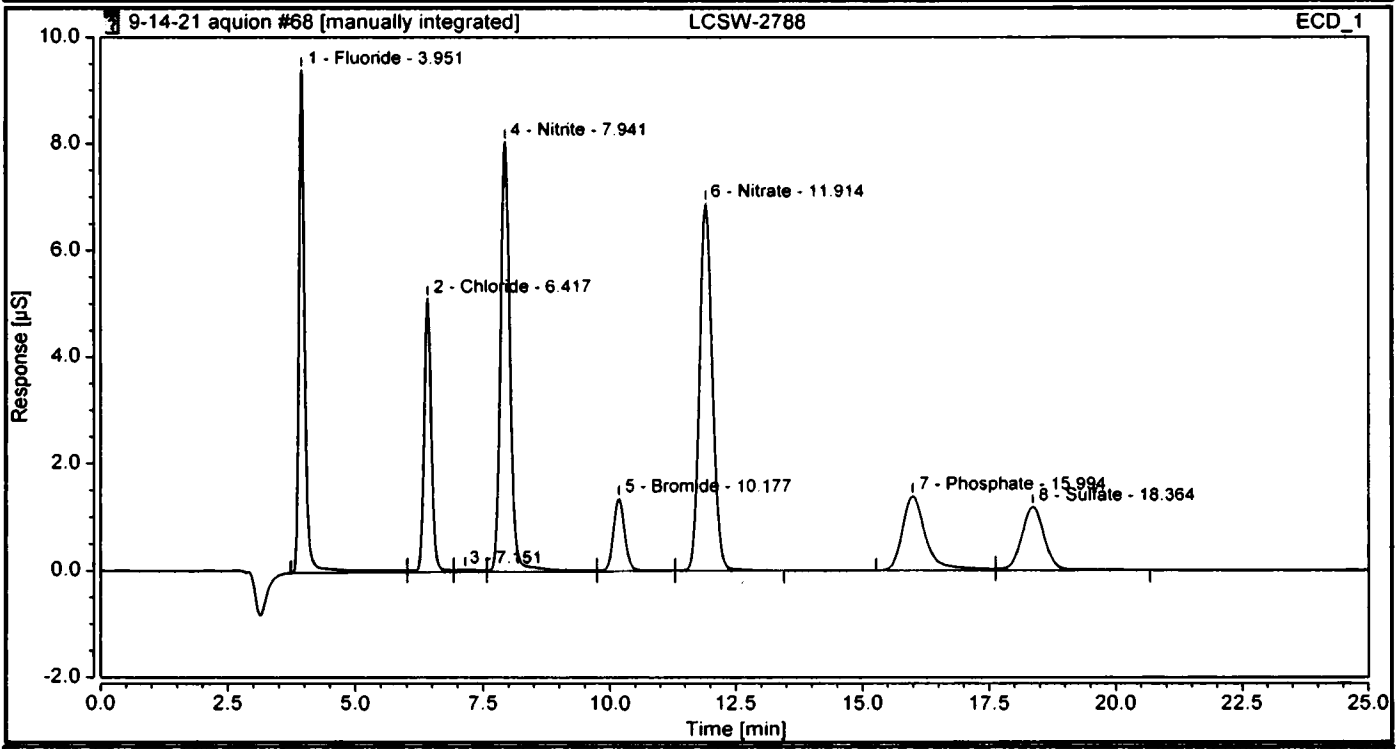
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 1 | Phosphate | 16.067 | 0.028 | 0.040 | 99.819 | FALSE | n.a. |
| 2 | Sulfate | 18.394 | 0.005 | 0.006 | 99.936 | FALSE | 0.1706 |
| **Total:** | | | **0.033** | **0.046** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LCSW-2788** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 13:24** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

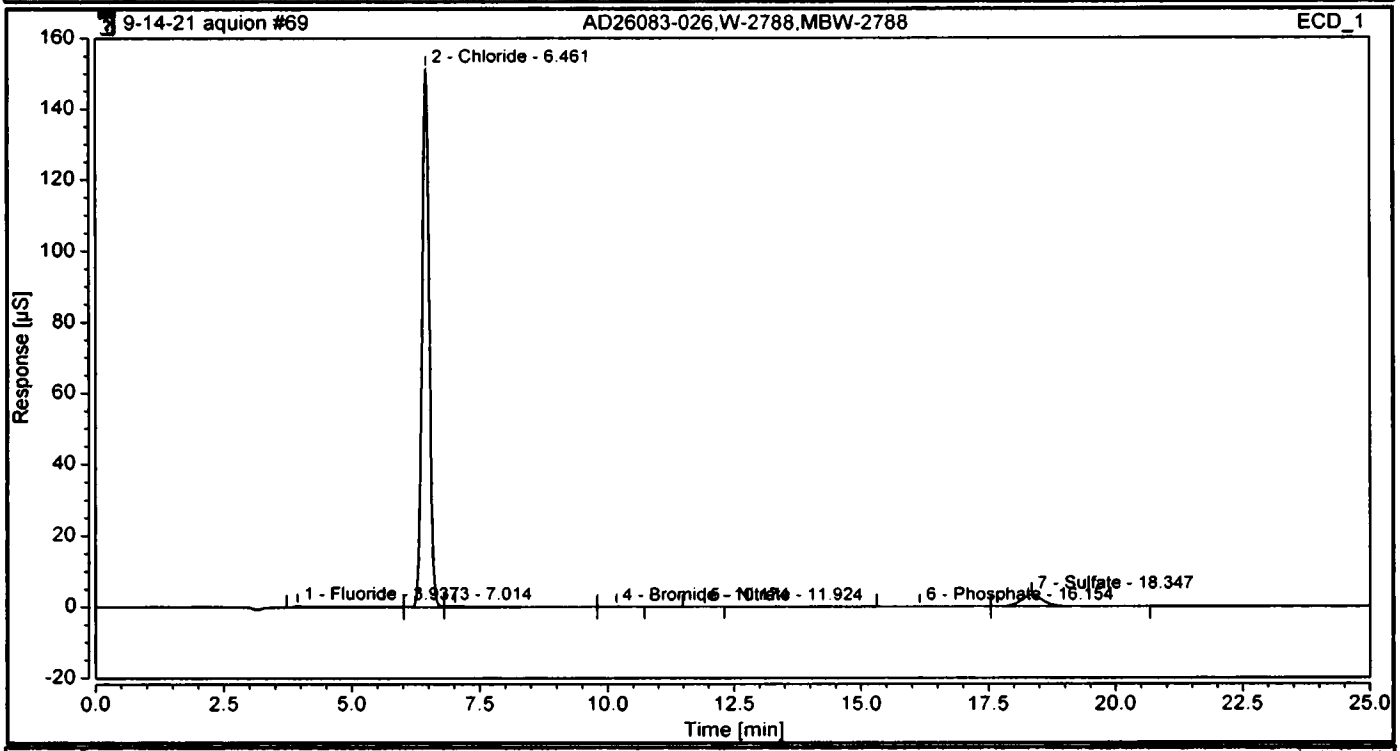
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.951 | 1.276 | 9.424 | 99.875 | TRUE | 5.0680 |
| 2 | Chloride | 6.417 | 0.833 | 5.130 | 99.668 | TRUE | 5.4836 |
| 3 | | 7.151 | 0.026 | 0.049 | n.a. | TRUE | n.a. |
| 4 | Nitrite | 7.941 | 1.778 | 8.054 | 99.877 | TRUE | 5.0107 |
| 5 | Bromide | 10.177 | 0.360 | 1.367 | 99.871 | TRUE | 5.0619 |
| 6 | Nitrate | 11.914 | 2.014 | 6.883 | 99.717 | TRUE | 4.8873 |
| 7 | Phosphate | 15.994 | 0.745 | 1.393 | 99.819 | TRUE | 4.7626 |
| 8 | Sulfate | 18.364 | 0.614 | 1.188 | 99.936 | TRUE | 5.1541 |
| **Total:** | | | **7.646** | **33.487** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-026,W-2788,MBW-2788** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 13:51** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

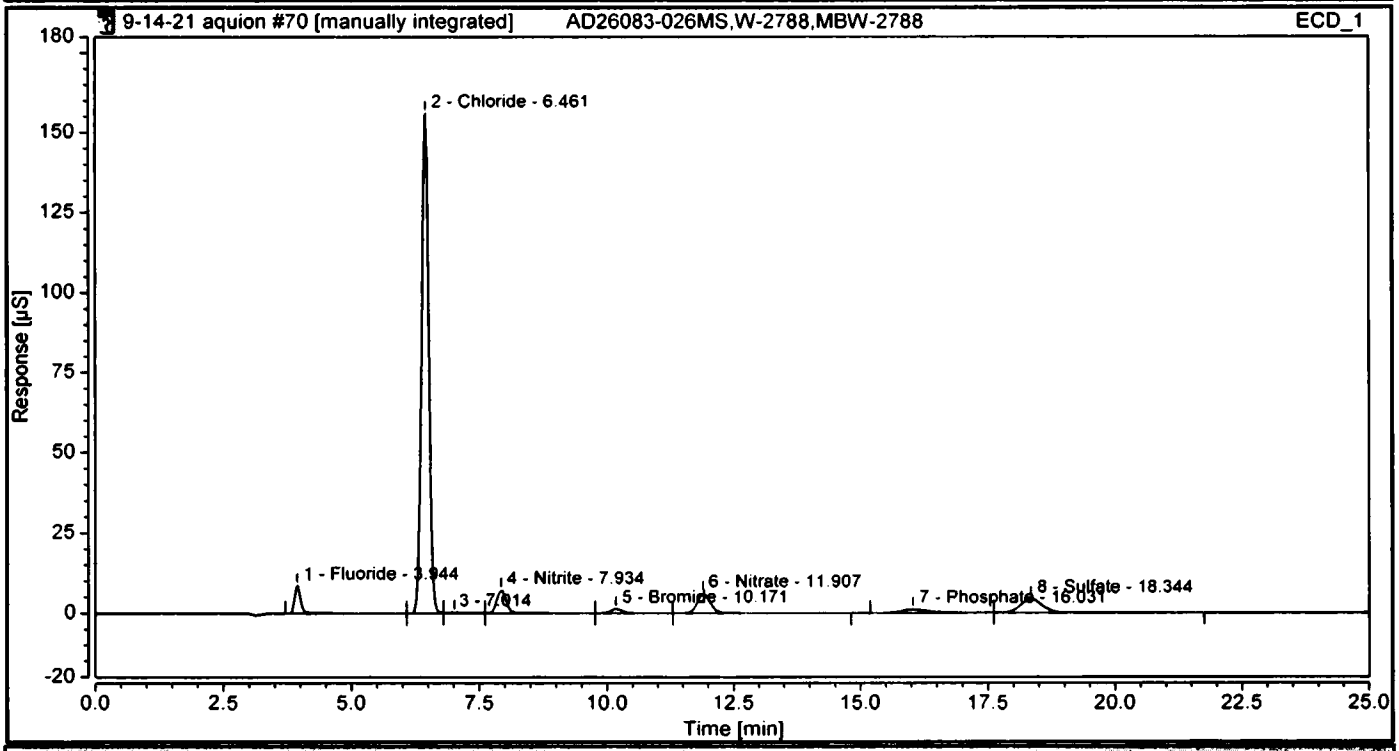
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.084 | 0.376 | 99.875 | FALSE | 0.3129 |
| 2 | Chloride | 6.461 | 24.501 | 151.496 | 99.668 | FALSE | 126.8704 |
| 3 | | 7.014 | 0.162 | 0.315 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.174 | 0.028 | 0.109 | 99.871 | FALSE | 0.2322 |
| 5 | Nitrate | 11.924 | 0.008 | 0.027 | 99.717 | FALSE | 0.3406 |
| 6 | Phosphate | 16.154 | 0.050 | 0.057 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.347 | 1.564 | 3.160 | 99.936 | FALSE | 12.9357 |
| **Total:** | | | **26.397** | **155.540** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-026MS,W-2788,MBW-2788** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 14:19** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

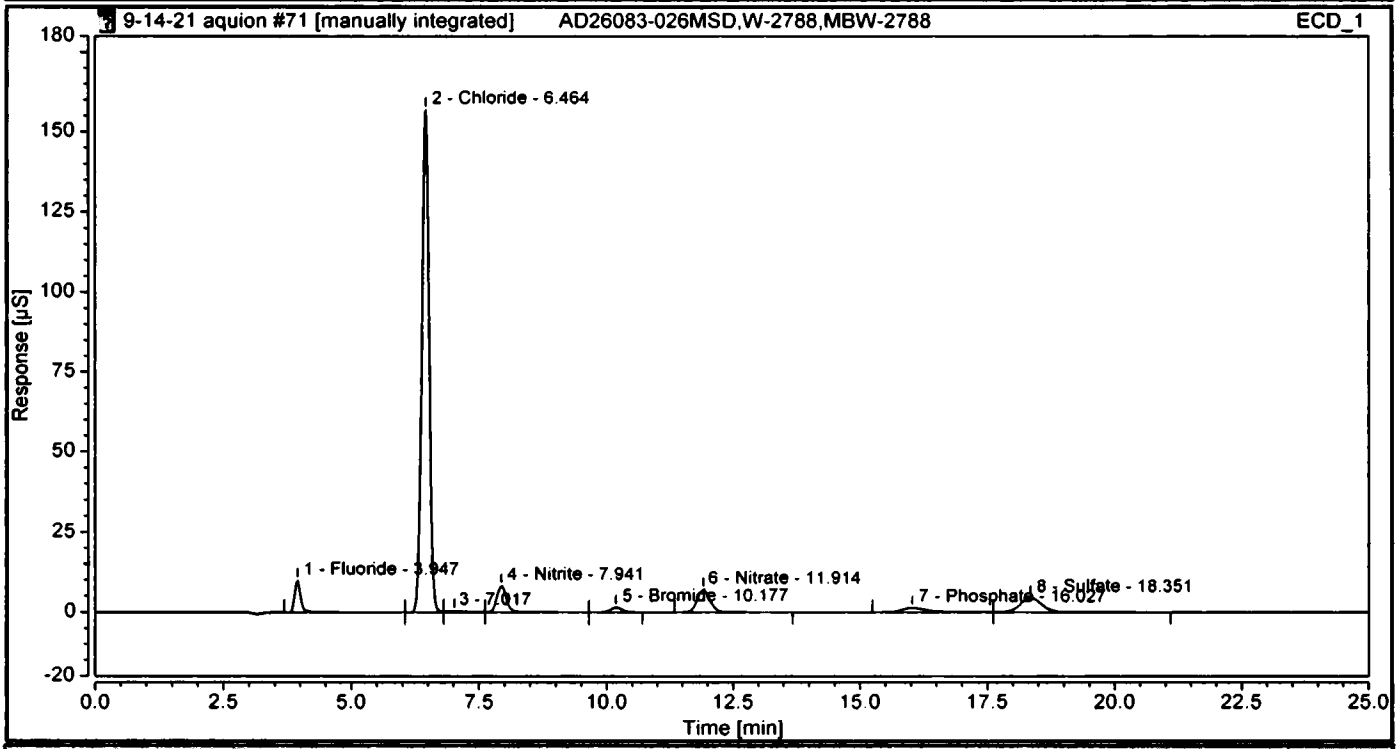
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 1.157 | 8.570 | 99.875 | TRUE | 4.5918 |
| 2 | Chloride | 6.461 | 25.344 | 156.060 | 99.668 | FALSE | 131.1952 |
| 3 | | 7.014 | 0.143 | 0.331 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.934 | 1.566 | 7.159 | 99.877 | FALSE | 4.4137 |
| 5 | Bromide | 10.171 | 0.340 | 1.311 | 99.871 | FALSE | 4.7750 |
| 6 | Nitrate | 11.907 | 1.782 | 6.048 | 99.717 | FALSE | 4.3624 |
| 7 | Phosphate | 16.031 | 0.710 | 1.094 | 99.819 | FALSE | 4.5106 |
| 8 | Sulfate | 18.344 | 2.130 | 4.229 | 99.936 | FALSE | 17.5736 |
| **Total:** | | | **33.171** | **184.804** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-026MSD,W-2788,MBW-2788** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 14:46** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

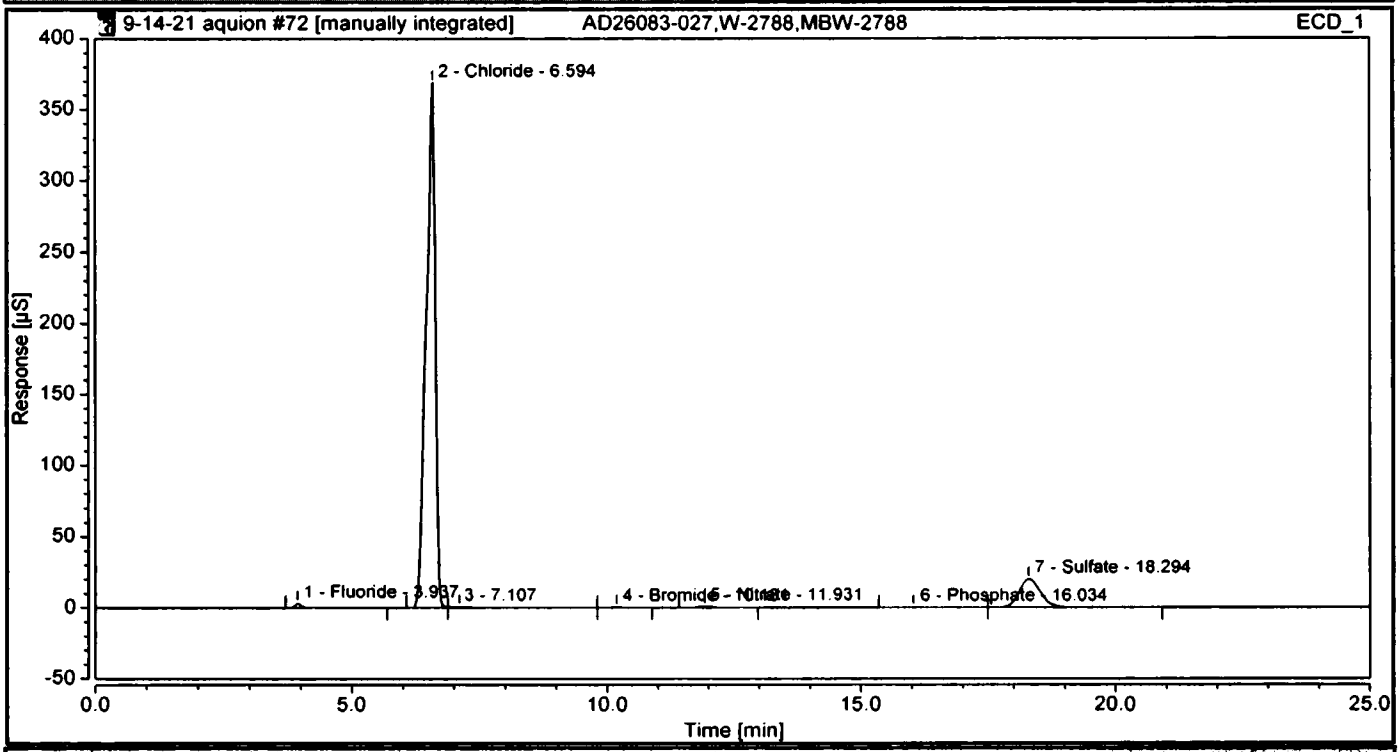
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 1.313 | 9.832 | 99.875 | TRUE | 5.2176 |
| 2 | Chloride | 6.464 | 25.490 | 156.933 | 99.668 | FALSE | 131.9426 |
| 3 | | 7.017 | 0.130 | 0.312 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.941 | 1.770 | 8.188 | 99.877 | FALSE | 4.9883 |
| 5 | Bromide | 10.177 | 0.361 | 1.466 | 99.871 | FALSE | 5.0855 |
| 6 | Nitrate | 11.914 | 2.026 | 6.956 | 99.717 | FALSE | 4.9150 |
| 7 | Phosphate | 16.027 | 0.832 | 1.303 | 99.819 | FALSE | 5.3789 |
| 8 | Sulfate | 18.351 | 2.200 | 4.391 | 99.936 | FALSE | 18.1510 |
| **Total:** | | | **34.123** | **189.381** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-027,W-2788,MBW-2788** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 15:13** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

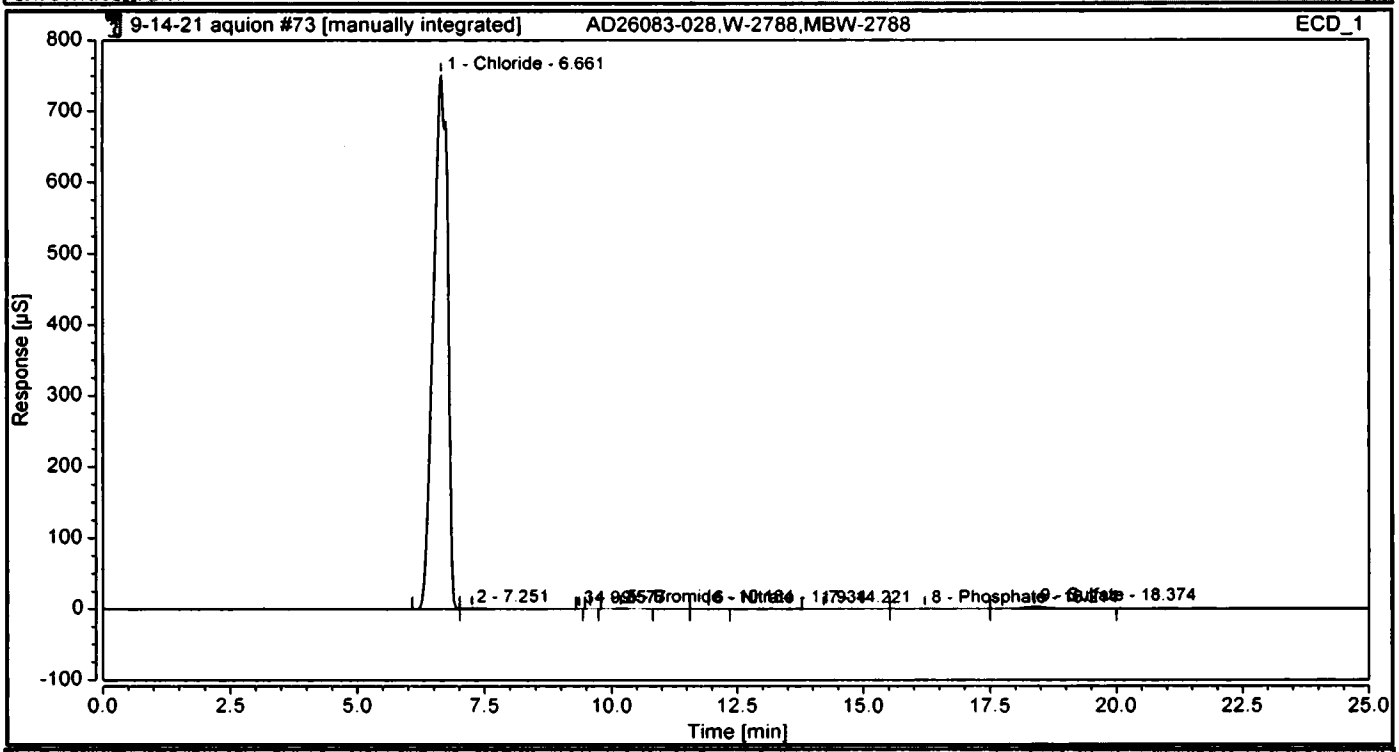
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.393 | 2.920 | 99.875 | FALSE | 1.5474 |
| 2 | Chloride | 6.594 | 76.093 | 368.899 | 99.668 | TRUE | 391.4776 |
| 3 | | 7.107 | 0.294 | 0.549 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.181 | 0.080 | 0.317 | 99.871 | FALSE | 0.9764 |
| 5 | Nitrate | 11.931 | 0.251 | 0.845 | 99.717 | FALSE | 0.8912 |
| 6 | Phosphate | 16.034 | 0.144 | 0.189 | 99.819 | FALSE | 0.4799 |
| 7 | Sulfate | 18.294 | 9.451 | 19.822 | 99.936 | FALSE | 77.5491 |
| **Total:** | | | **86.707** | **393.540** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-028,W-2788,MBW-2788** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 15:40** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

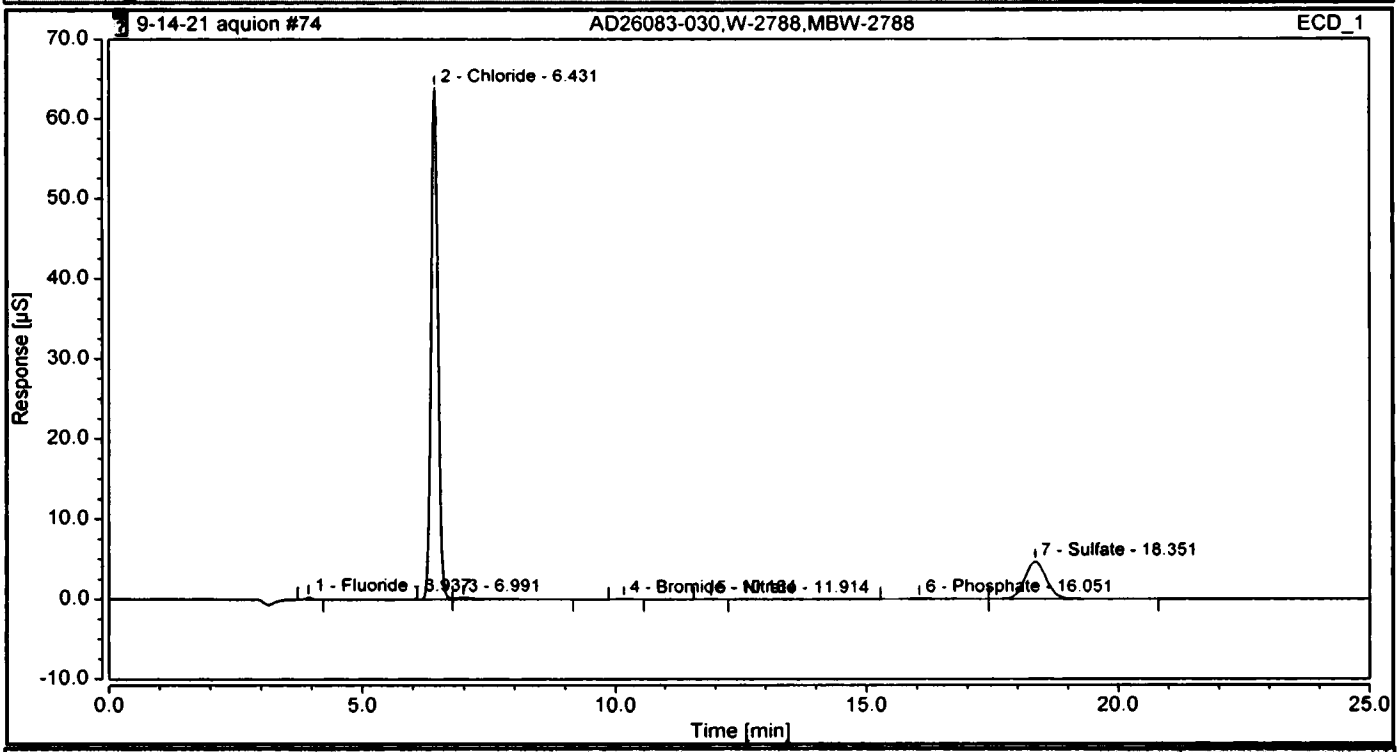
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| 1 | Chloride | 6.661 | 246.044 | 750.616 | 99.668 | TRUE | 1263.1230 |
| 2 | | 7.251 | 0.582 | 1.069 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 3 | | 9.357 | 0.000 | 0.006 | n.a. | TRUE | n.a. |
| 4 | | 9.577 | 0.000 | 0.003 | n.a. | TRUE | n.a. |
| 5 | Bromide | 10.184 | 0.233 | 0.949 | 99.871 | TRUE | 3.2176 |
| 6 | Nitrate | 11.934 | 0.013 | 0.045 | 99.717 | FALSE | 0.3516 |
| 7 | | 14.221 | 0.014 | 0.013 | n.a. | FALSE | n.a. |
| 8 | Phosphate | 16.214 | 0.068 | 0.072 | 99.819 | FALSE | n.a. |
| 9 | Sulfate | 18.374 | 1.274 | 2.555 | 99.936 | FALSE | 10.5610 |
| **Total:** | | | **248.229** | **755.327** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-030,W-2788,MBW-2788** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 16:07** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

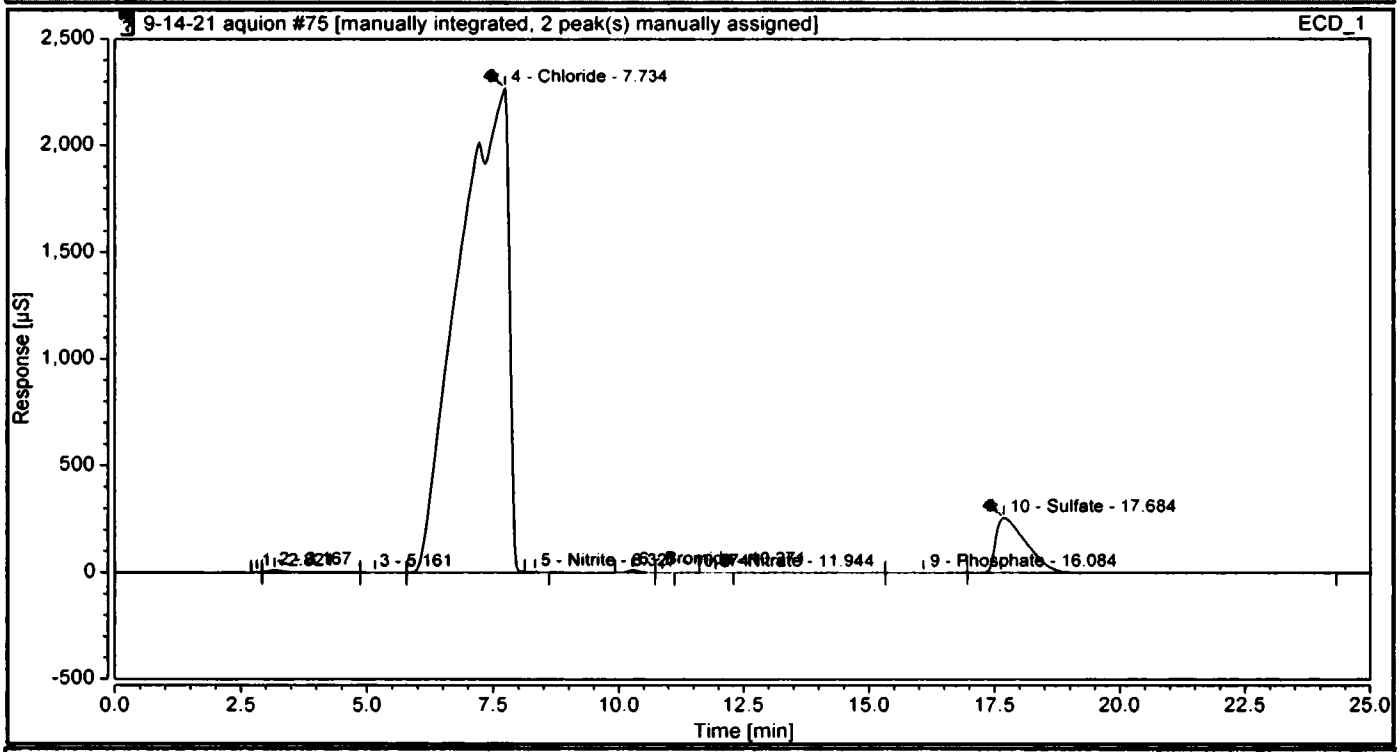
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.032 | 0.263 | 99.875 | FALSE | 0.1073 |
| 2 | Chloride | 6.431 | 9.920 | 63.887 | 99.668 | FALSE | 52.0880 |
| 3 | | 6.991 | 0.091 | 0.203 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.164 | 0.012 | 0.050 | 99.871 | FALSE | n.a. |
| 5 | Nitrate | 11.914 | 0.007 | 0.025 | 99.717 | FALSE | 0.3374 |
| 6 | Phosphate | 16.051 | 0.058 | 0.077 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.351 | 2.268 | 4.629 | 99.936 | FALSE | 18.7062 |
| **Total:** | | | **12.389** | **69.133** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-032,W-2788,MBW-2788** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 16:35** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

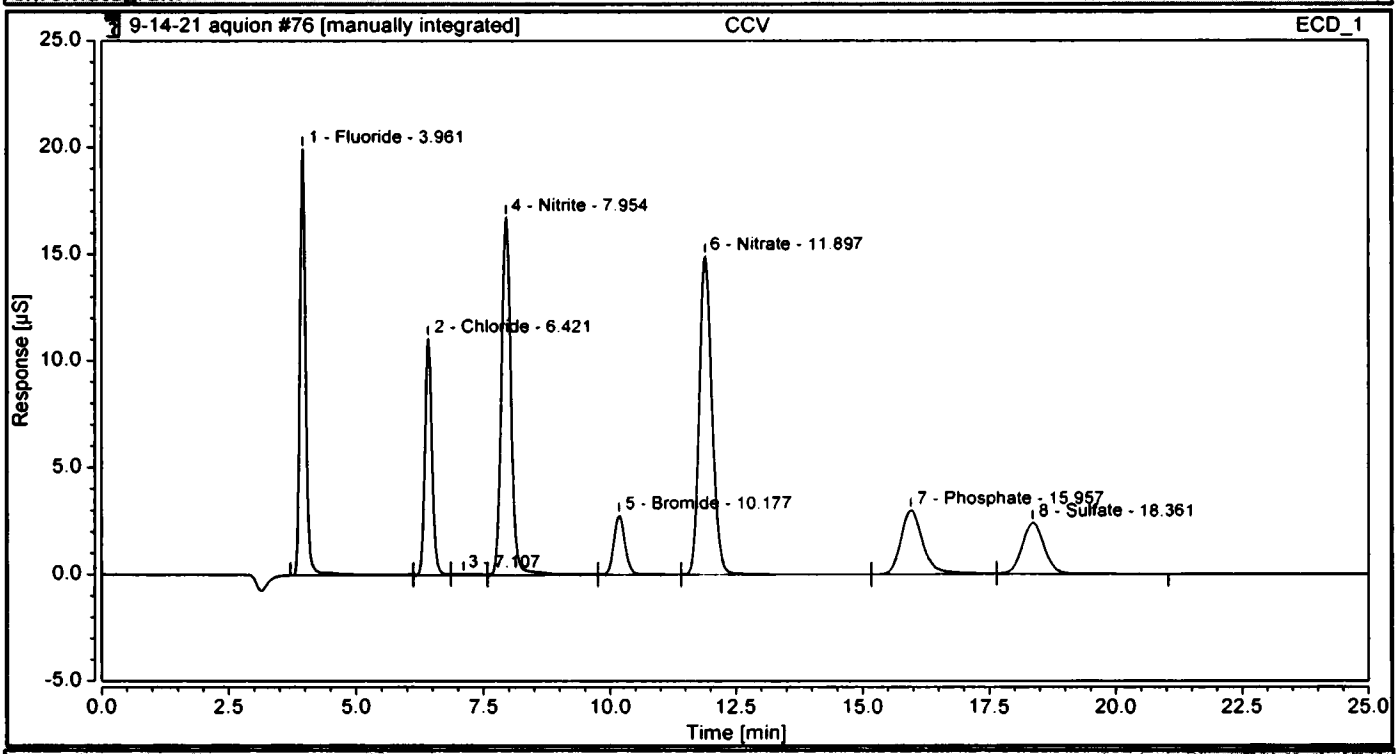
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.821 | 0.373 | 2.547 | n.a. | FALSE | n.a. |
| 2 | | 3.167 | 4.146 | 9.593 | n.a. | FALSE | n.a. |
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| 3 | | 5.161 | 0.265 | 0.326 | n.a. | FALSE | n.a. |
| 4 | Chloride | 7.734 | 2562.827 | 2268.509 | 99.668 | TRUE | 13145.4688 |
| 5 | Nitrite | 8.327 | 0.219 | 0.869 | 99.877 | TRUE | 0.6212 |
| 6 | Bromide | 10.271 | 2.478 | 11.038 | 99.871 | TRUE | 35.9271 |
| 7 | | 10.874 | 0.001 | 0.006 | n.a. | TRUE | n.a. |
| 8 | Nitrate | 11.944 | 0.007 | 0.024 | 99.717 | TRUE | 0.3376 |
| 9 | Phosphate | 16.084 | 0.069 | 0.065 | 99.819 | FALSE | n.a. |
| 10 | Sulfate | 17.684 | 178.230 | 256.175 | 99.936 | TRUE | 1460.1602 |
| **Total:** | | | **2748.614** | **2549.150** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 17:29** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

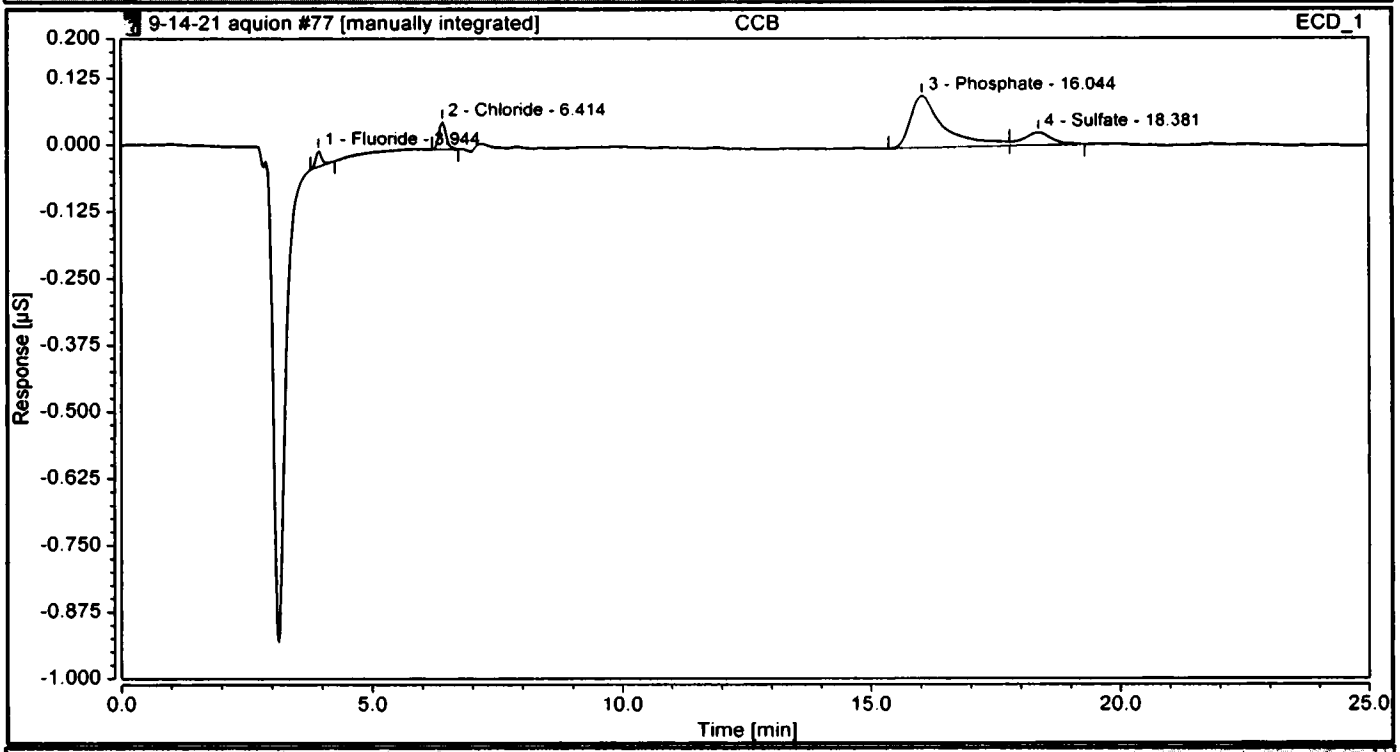
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.640 | 19.950 | 99.875 | TRUE | 10.5099 |
| 2 | Chloride | 6.421 | 1.752 | 11.084 | 99.668 | FALSE | 10.1968 |
| 3 | | 7.107 | 0.032 | 0.059 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.954 | 3.719 | 16.735 | 99.877 | TRUE | 10.4709 |
| 5 | Bromide | 10.177 | 0.724 | 2.793 | 99.871 | FALSE | 10.3641 |
| 6 | Nitrate | 11.897 | 4.338 | 14.930 | 99.717 | TRUE | 10.1566 |
| 7 | Phosphate | 15.957 | 1.537 | 3.002 | 99.819 | FALSE | 10.4043 |
| 8 | Sulfate | 18.361 | 1.231 | 2.409 | 99.936 | FALSE | 10.2131 |
| **Total:** | | | **15.972** | **70.963** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 17:56** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

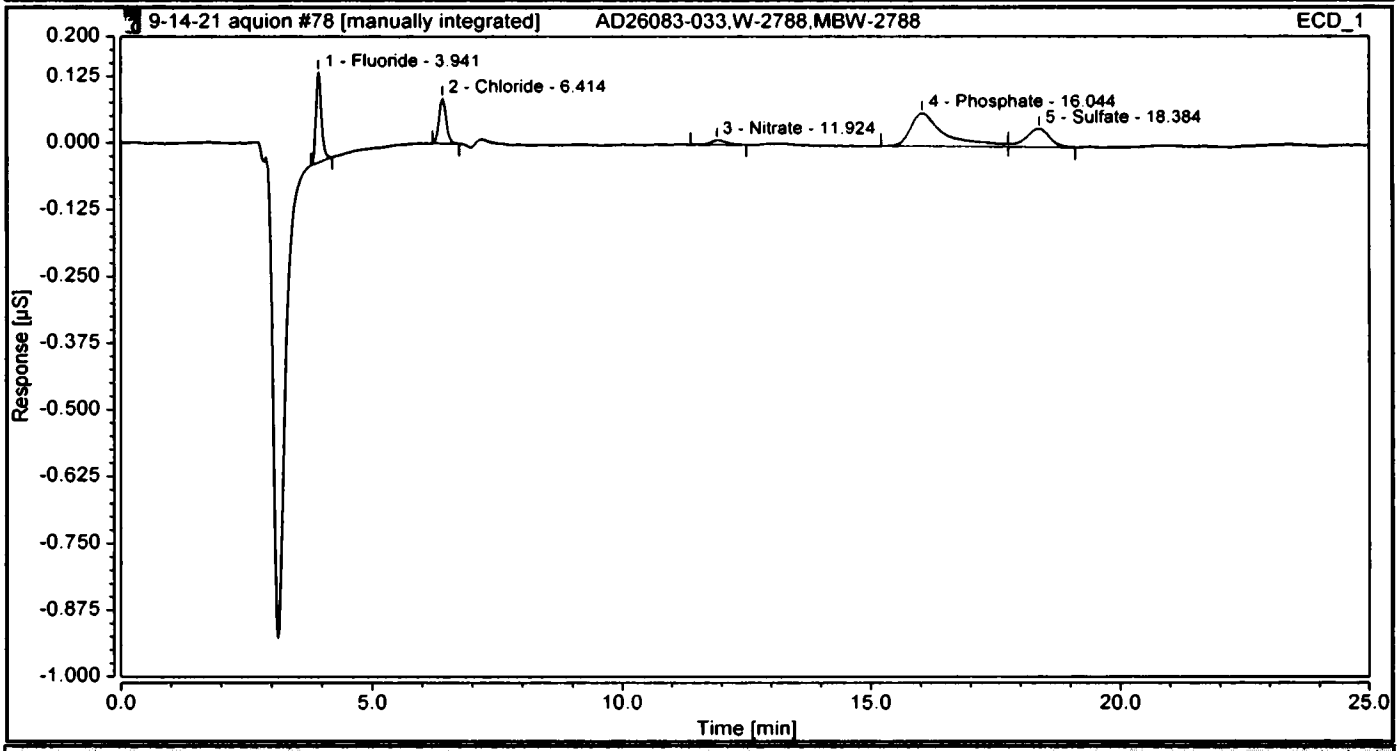
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.004 | 0.030 | 99.875 | FALSE | n.a. |
| 2 | Chloride | 6.414 | 0.008 | 0.051 | 99.668 | TRUE | 1.2538 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 3 | Phosphate | 16.044 | 0.075 | 0.097 | 99.819 | FALSE | n.a. |
| 4 | Sulfate | 18.381 | 0.016 | 0.024 | 99.936 | FALSE | 0.2555 |
| **Total:** | | | **0.103** | **0.203** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-033,W-2788,MBW-2788** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 18:23** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

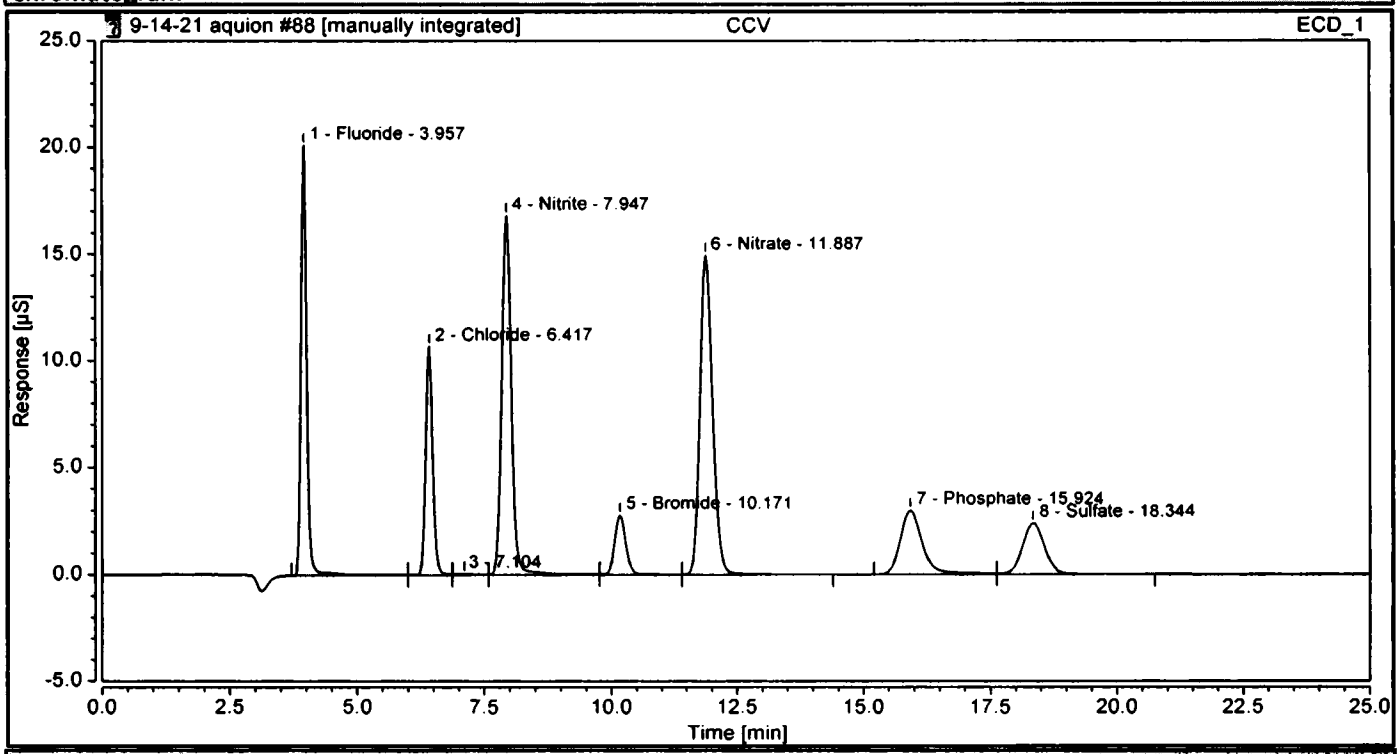
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.021 | 0.169 | 99.875 | TRUE | 0.0620 |
| 2 | Chloride | 6.414 | 0.014 | 0.084 | 99.668 | TRUE | 1.2801 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| 3 | Nitrate | 11.924 | 0.003 | 0.009 | 99.717 | FALSE | 0.3288 |
| 4 | Phosphate | 16.044 | 0.049 | 0.062 | 99.819 | FALSE | n.a. |
| 5 | Sulfate | 18.384 | 0.019 | 0.034 | 99.936 | FALSE | 0.2824 |
| **Total:** | | | **0.106** | **0.357** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 22:55** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

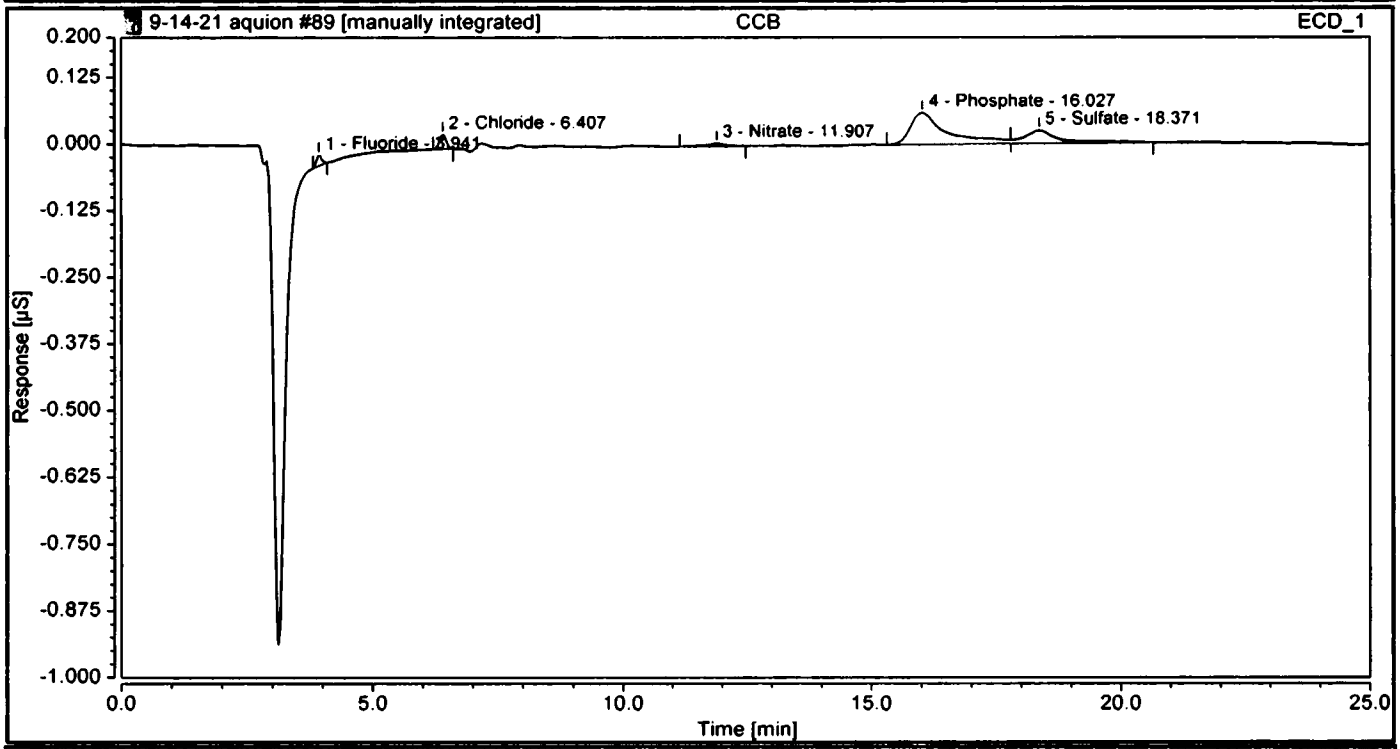
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.957 | 2.633 | 20.110 | 99.875 | TRUE | 10.4798 |
| 2 | Chloride | 6.417 | 1.691 | 10.701 | 99.668 | FALSE | 9.8823 |
| 3 | | 7.104 | 0.029 | 0.055 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.947 | 3.712 | 16.804 | 99.877 | TRUE | 10.4516 |
| 5 | Bromide | 10.171 | 0.713 | 2.795 | 99.871 | FALSE | 10.2118 |
| 6 | Nitrate | 11.887 | 4.307 | 14.937 | 99.717 | FALSE | 10.0862 |
| 7 | Phosphate | 15.924 | 1.508 | 2.984 | 99.819 | FALSE | 10.2013 |
| 8 | Sulfate | 18.344 | 1.202 | 2.383 | 99.936 | FALSE | 9.9732 |
| **Total:** | | | **15.795** | **70.769** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **16/Sep/21 23:23** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

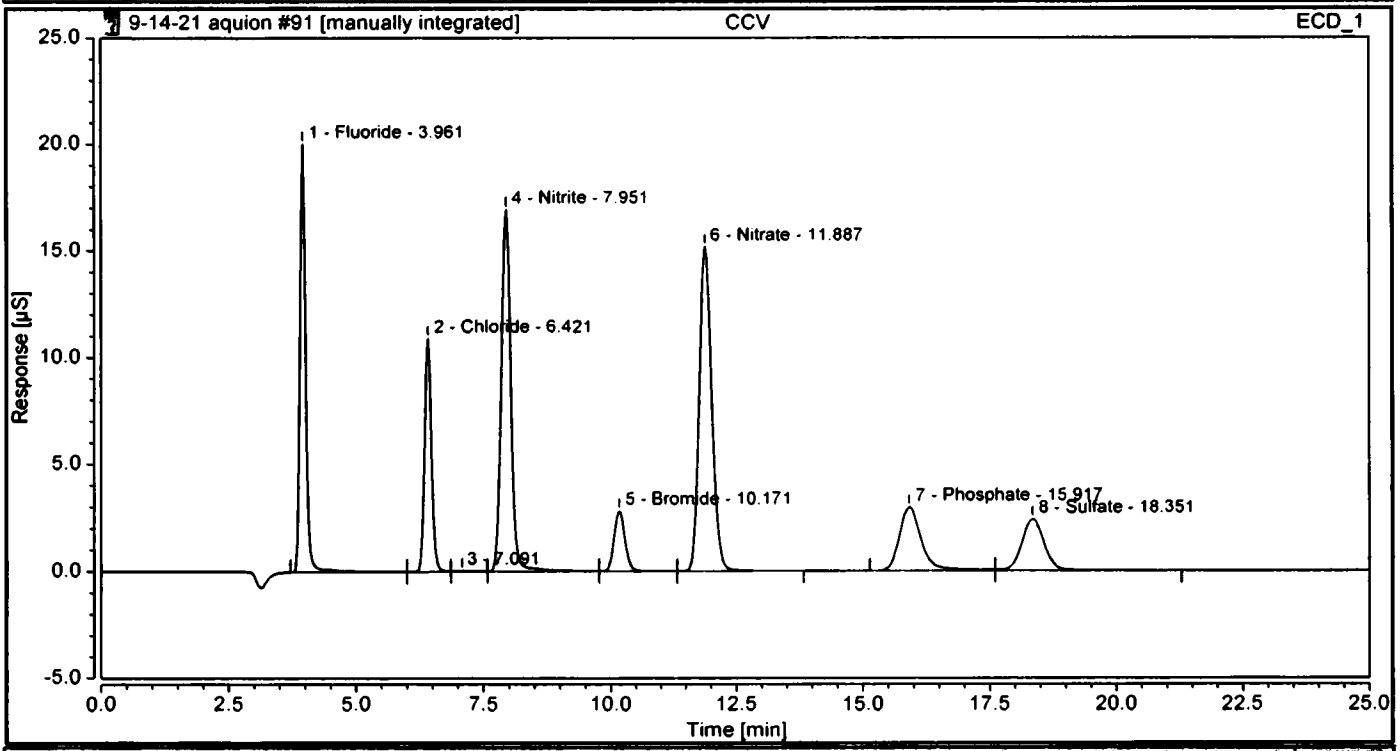
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.002 | 0.020 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.407 | 0.004 | 0.027 | 99.668 | TRUE | 1.2315 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| 3 | Nitrate | 11.907 | 0.003 | 0.005 | 99.717 | FALSE | 0.3279 |
| 4 | Phosphate | 16.027 | 0.051 | 0.059 | 99.819 | FALSE | n.a. |
| 5 | Sulfate | 18.371 | 0.020 | 0.024 | 99.936 | FALSE | 0.2936 |
| **Total:** | | | **0.080** | **0.135** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 10:34** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

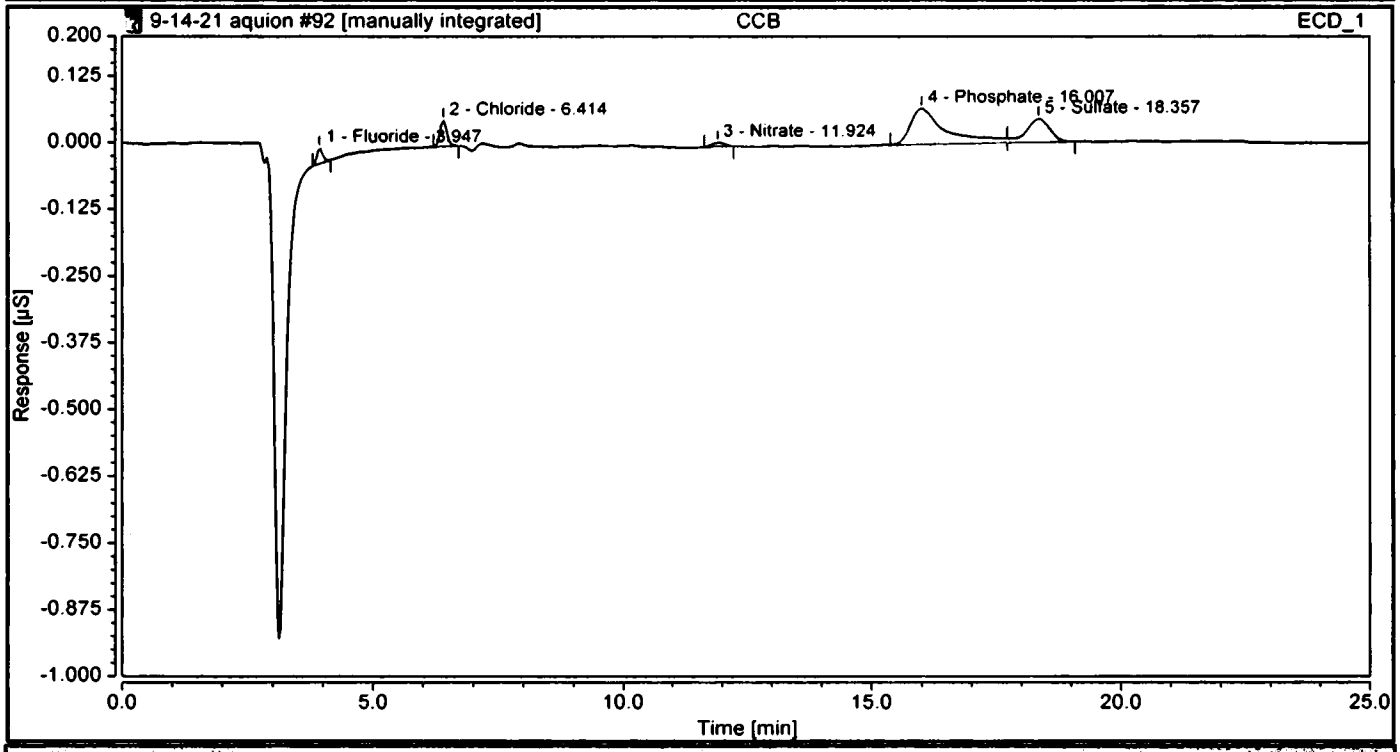
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.625 | 20.032 | 99.875 | TRUE | 10.4500 |
| 2 | Chloride | 6.421 | 1.696 | 10.923 | 99.668 | FALSE | 9.9104 |
| 3 | | 7.091 | 0.029 | 0.056 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.951 | 3.705 | 16.939 | 99.877 | TRUE | 10.4314 |
| 5 | Bromide | 10.171 | 0.710 | 2.831 | 99.871 | FALSE | 10.1585 |
| 6 | Nitrate | 11.887 | 4.320 | 15.187 | 99.717 | FALSE | 10.1175 |
| 7 | Phosphate | 15.917 | 1.496 | 2.979 | 99.819 | FALSE | 10.1147 |
| 8 | Sulfate | 18.351 | 1.223 | 2.413 | 99.936 | FALSE | 10.1435 |
| **Total:** | | | **15.804** | **71.359** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 11:01** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

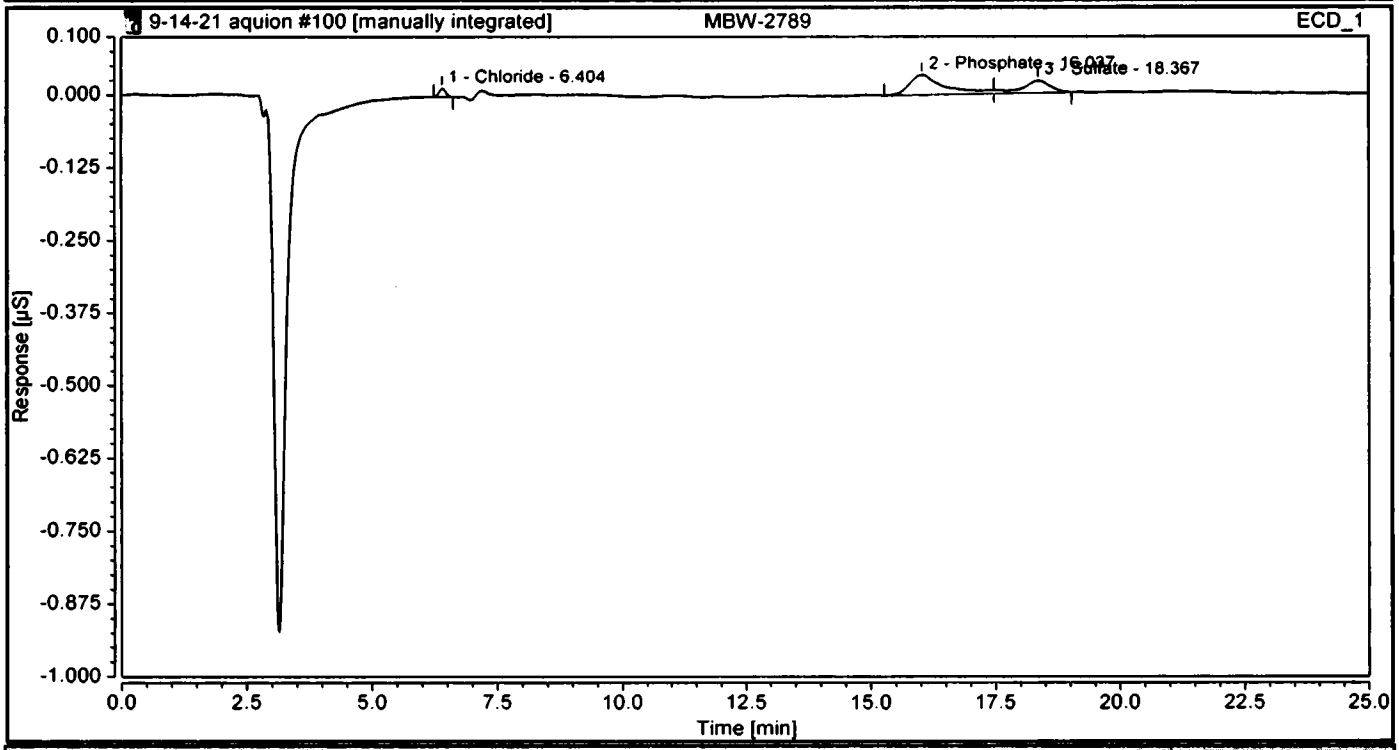
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 0.004 | 0.029 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.414 | 0.008 | 0.048 | 99.668 | TRUE | 1.2501 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| 3 | Nitrate | 11.924 | 0.002 | 0.008 | 99.717 | TRUE | 0.3268 |
| 4 | Phosphate | 16.007 | 0.055 | 0.067 | 99.819 | FALSE | n.a. |
| 5 | Sulfate | 18.357 | 0.024 | 0.044 | 99.936 | FALSE | 0.3245 |
| **Total:** | | | **0.093** | **0.196** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **MBW-2789** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 14:42** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

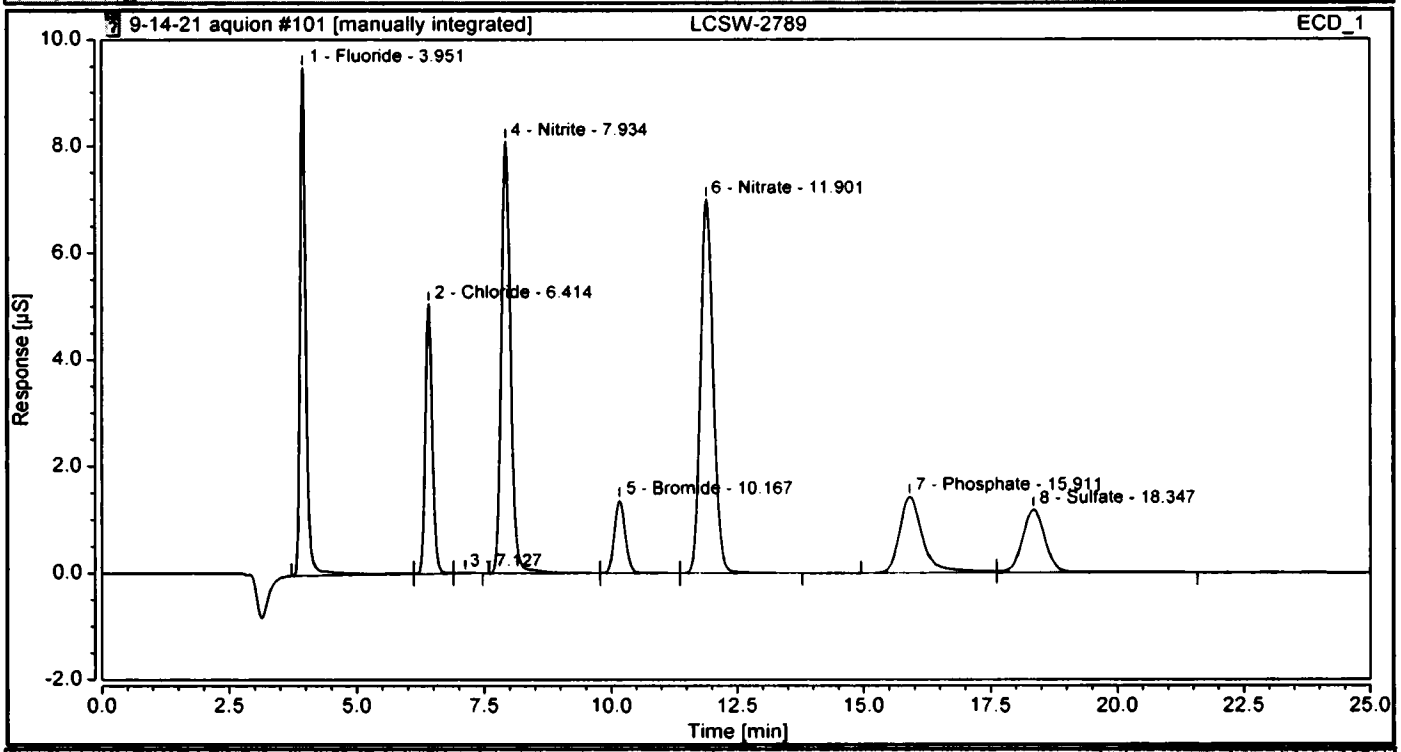
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| 1 | Chloride | 6.404 | 0.002 | 0.014 | 99.668 | TRUE | 1.2214 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 2 | Phosphate | 16.037 | 0.028 | 0.035 | 99.819 | FALSE | n.a. |
| 3 | Sulfate | 18.367 | 0.014 | 0.021 | 99.936 | FALSE | 0.2417 |
| **Total:** | | | **0.045** | **0.070** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LCSW-2789** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 15:09** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

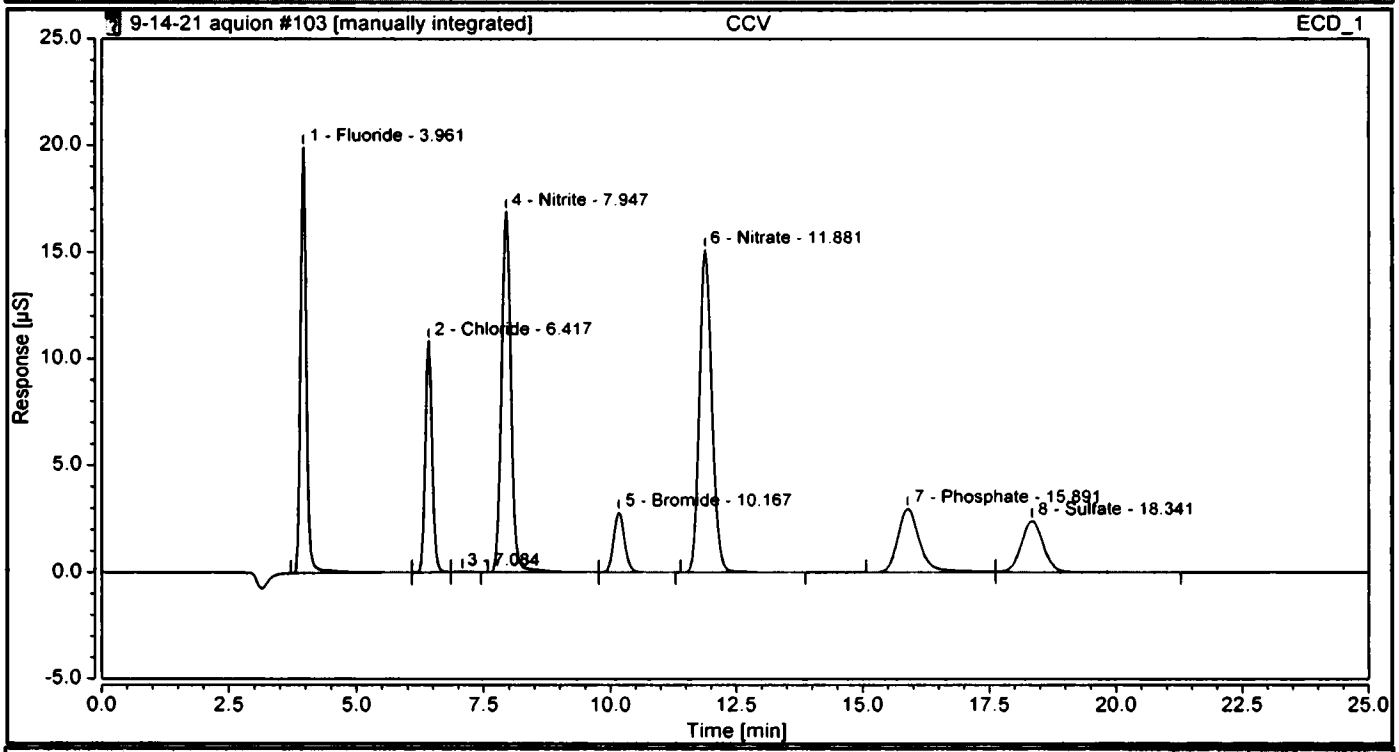
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.951 | 1.253 | 9.512 | 99.875 | TRUE | 4.9759 |
| 2 | Chloride | 6.414 | 0.797 | 5.058 | 99.668 | FALSE | 5.2961 |
| 3 | | 7.127 | 0.006 | 0.021 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.934 | 1.726 | 8.080 | 99.877 | TRUE | 4.8628 |
| 5 | Bromide | 10.167 | 0.339 | 1.362 | 99.871 | FALSE | 4.7627 |
| 6 | Nitrate | 11.901 | 2.023 | 6.992 | 99.717 | FALSE | 4.9081 |
| 7 | Phosphate | 15.911 | 0.763 | 1.427 | 99.819 | FALSE | 4.8922 |
| 8 | Sulfate | 18.347 | 0.618 | 1.184 | 99.936 | FALSE | 5.1926 |
| **Total:** | | | **7.526** | **33.636** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 16:03** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

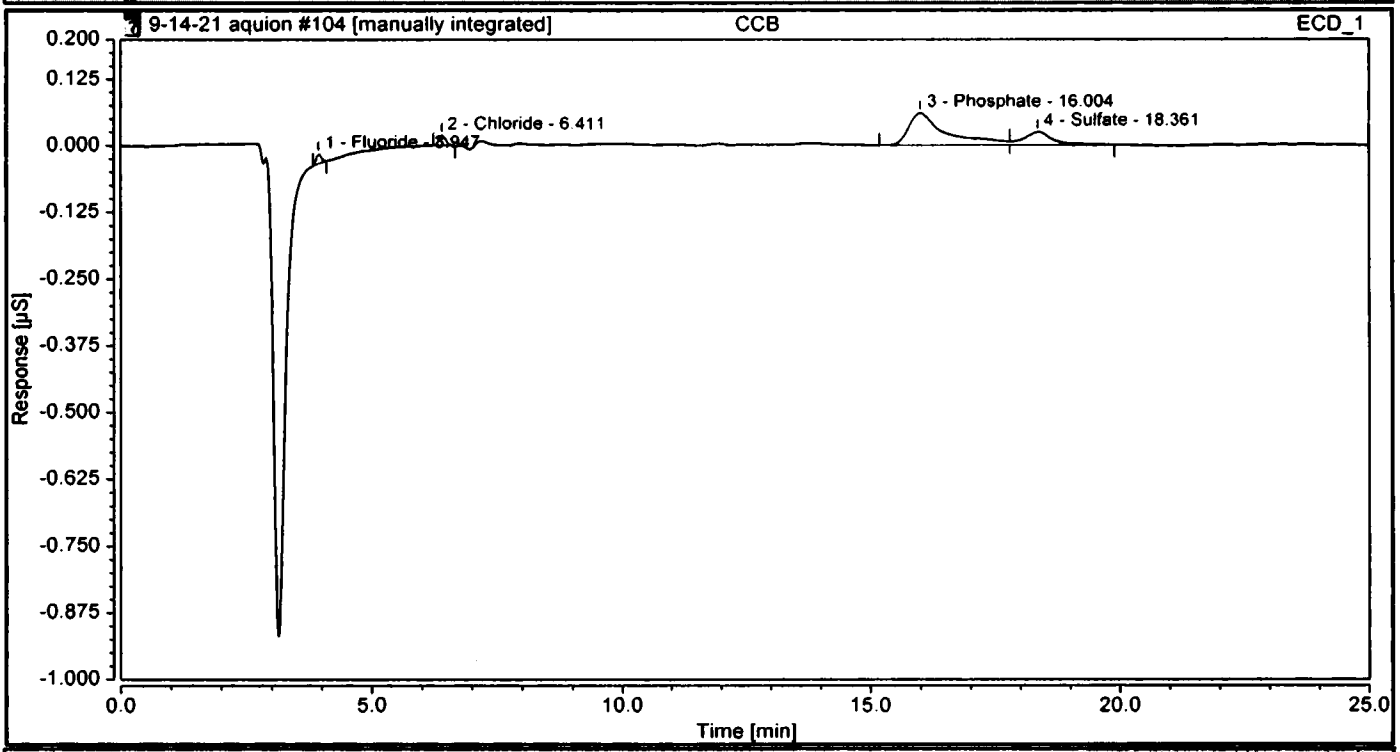
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.610 | 19.935 | 99.875 | TRUE | 10.3898 |
| 2 | Chloride | 6.417 | 1.676 | 10.846 | 99.668 | FALSE | 9.8069 |
| 3 | | 7.084 | 0.010 | 0.031 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.947 | 3.663 | 16.873 | 99.877 | TRUE | 10.3145 |
| 5 | Bromide | 10.167 | 0.691 | 2.809 | 99.871 | FALSE | 9.8871 |
| 6 | Nitrate | 11.881 | 4.304 | 15.125 | 99.717 | TRUE | 10.0796 |
| 7 | Phosphate | 15.891 | 1.513 | 2.984 | 99.819 | FALSE | 10.2353 |
| 8 | Sulfate | 18.341 | 1.219 | 2.408 | 99.936 | FALSE | 10.1101 |
| **Total:** | | | **15.686** | **71.011** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 16:31** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

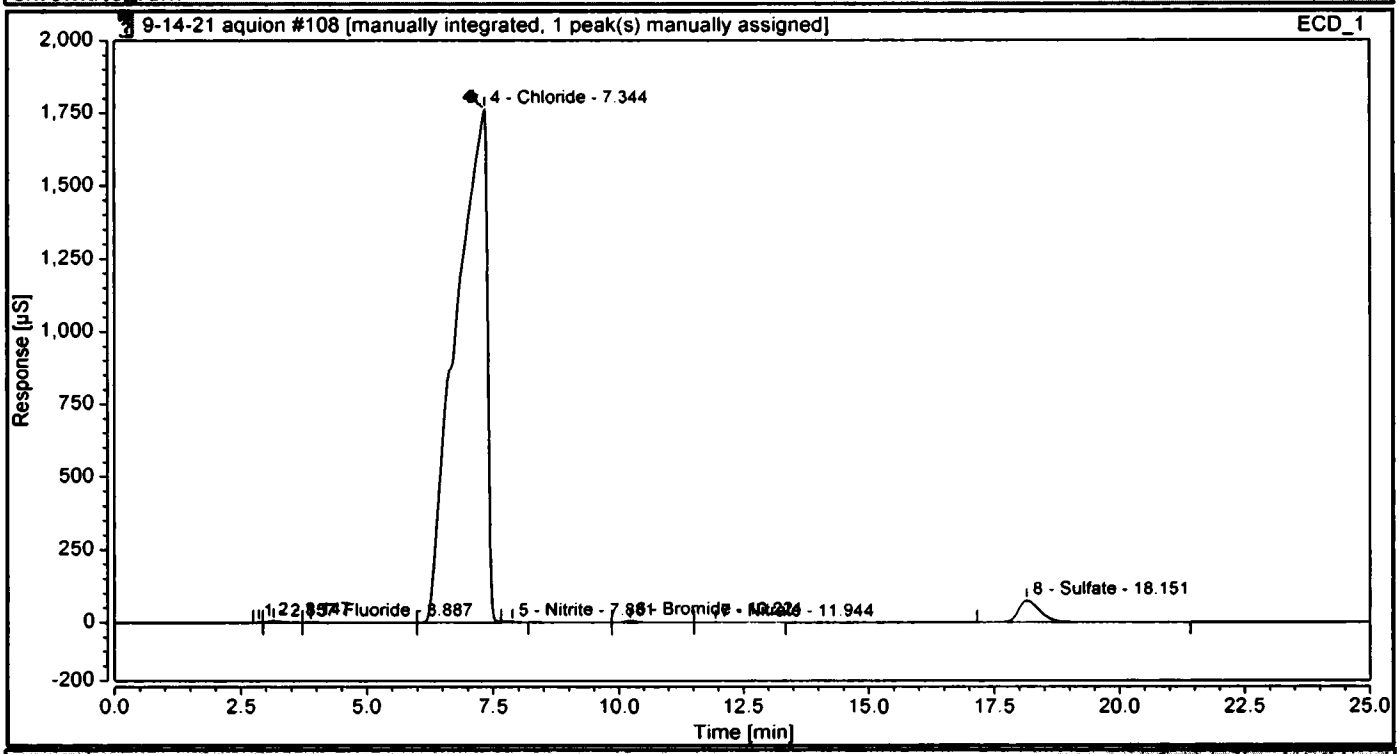
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 0.002 | 0.018 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.411 | 0.003 | 0.019 | 99.668 | TRUE | 1.2258 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 3 | Phosphate | 16.004 | 0.053 | 0.060 | 99.819 | FALSE | n.a. |
| 4 | Sulfate | 18.361 | 0.017 | 0.025 | 99.936 | FALSE | 0.2661 |
| **Total:** | | | **0.075** | **0.122** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-048,W-2789,MBW-2789** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 18:47** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

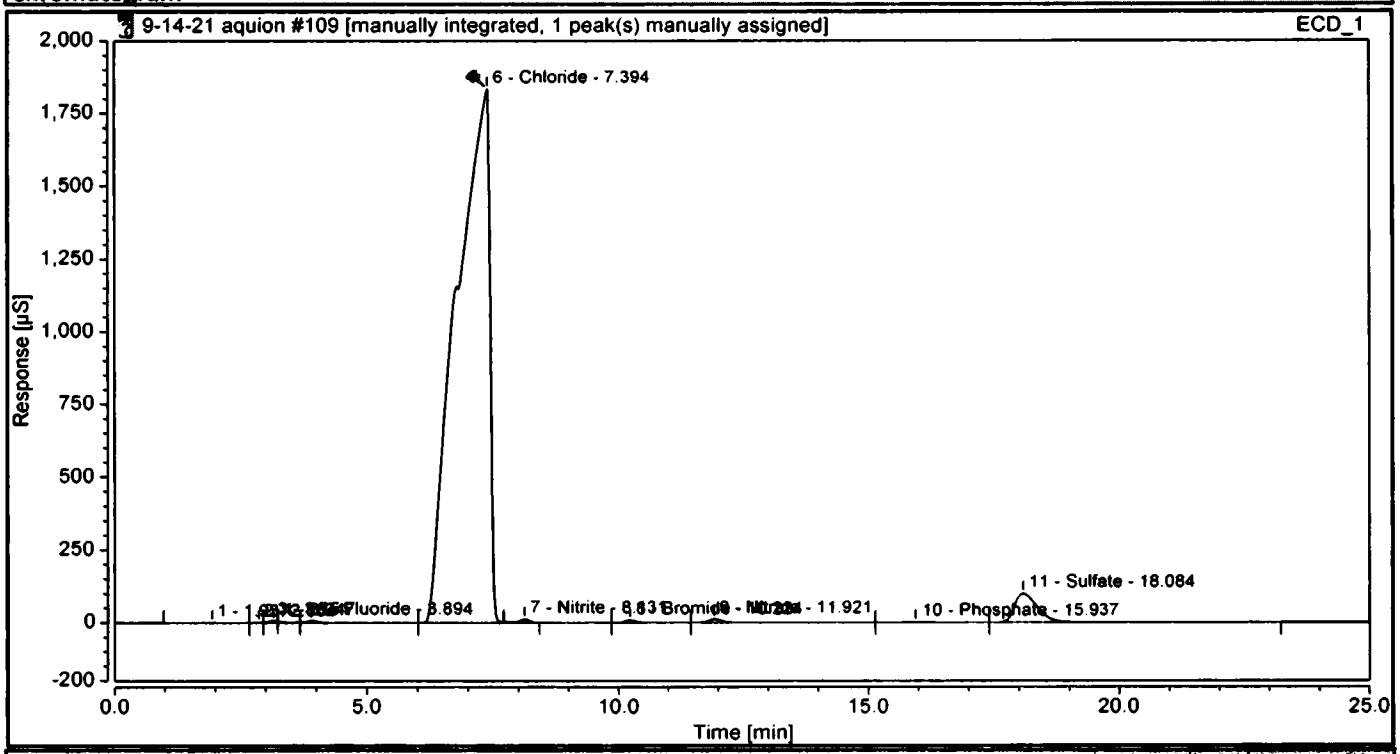
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.857 | 0.100 | 1.030 | n.a. | FALSE | n.a. |
| 2 | | 3.147 | 1.714 | 5.875 | n.a. | FALSE | n.a. |
| 3 | Fluoride | 3.887 | 0.410 | 0.838 | 99.875 | FALSE | 1.6139 |
| 4 | Chloride | 7.344 | 1244.955 | 1762.359 | 99.668 | TRUE | 6386.3513 |
| 5 | Nitrite | 7.881 | 0.230 | 0.868 | 99.877 | TRUE | 0.6529 |
| 6 | Bromide | 10.221 | 1.302 | 5.430 | 99.871 | FALSE | 18.7923 |
| 7 | Nitrate | 11.944 | 0.131 | 0.426 | 99.717 | FALSE | 0.6198 |
| n.a. | Phosphate | n.a. | n.a. | n.a. | 99.819 | n.a. | n.a. |
| 8 | Sulfate | 18.151 | 36.142 | 73.362 | 99.936 | FALSE | 296.1977 |
| **Total:** | | | **1284.985** | **1850.188** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-049MS,W-2789,MBW-2789** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 19:12** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

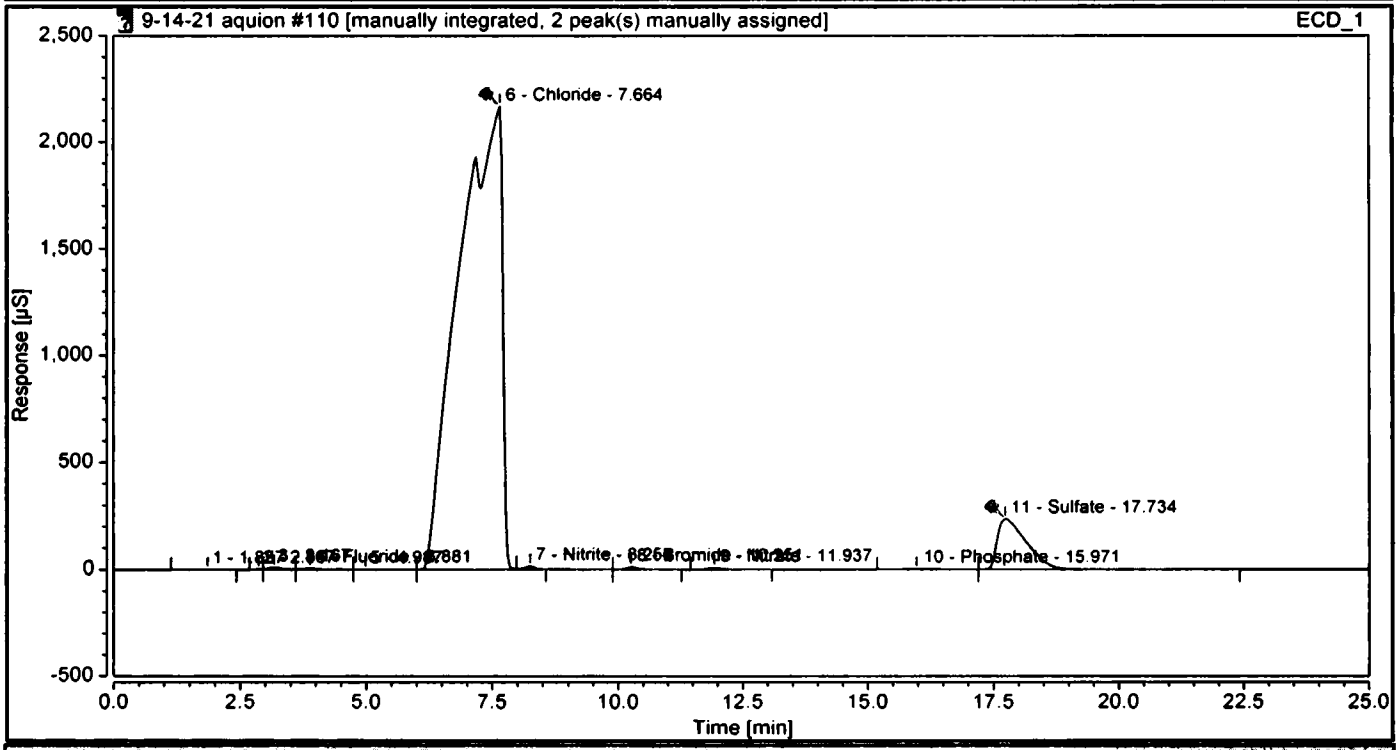
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 1.937 | 0.014 | 0.019 | n.a. | FALSE | n.a. |
| 2 | | 2.864 | 0.140 | 1.388 | n.a. | FALSE | n.a. |
| 3 | | 3.151 | 1.235 | 6.442 | n.a. | FALSE | n.a. |
| 4 | | 3.247 | 0.649 | 4.609 | n.a. | FALSE | n.a. |
| 5 | Fluoride | 3.894 | 1.752 | 6.575 | 99.875 | FALSE | 6.9665 |
| 6 | Chloride | 7.394 | 1376.238 | 1833.747 | 99.668 | TRUE | 7059.6760 |
| 7 | Nitrite | 8.131 | 2.026 | 9.960 | 99.877 | TRUE | 5.7069 |
| 8 | Bromide | 10.224 | 1.918 | 7.768 | 99.871 | TRUE | 27.7724 |
| 9 | Nitrate | 11.921 | 3.430 | 11.586 | 99.717 | FALSE | 8.0991 |
| 10 | Phosphate | 15.937 | 0.692 | 0.901 | 99.819 | FALSE | 4.3821 |
| 11 | Sulfate | 18.084 | 50.689 | 98.679 | 99.936 | FALSE | 415.3627 |
| **Total:** | | | **1438.783** | **1981.673** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-050MSD,W-2789,MBW-2789** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 19:39** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

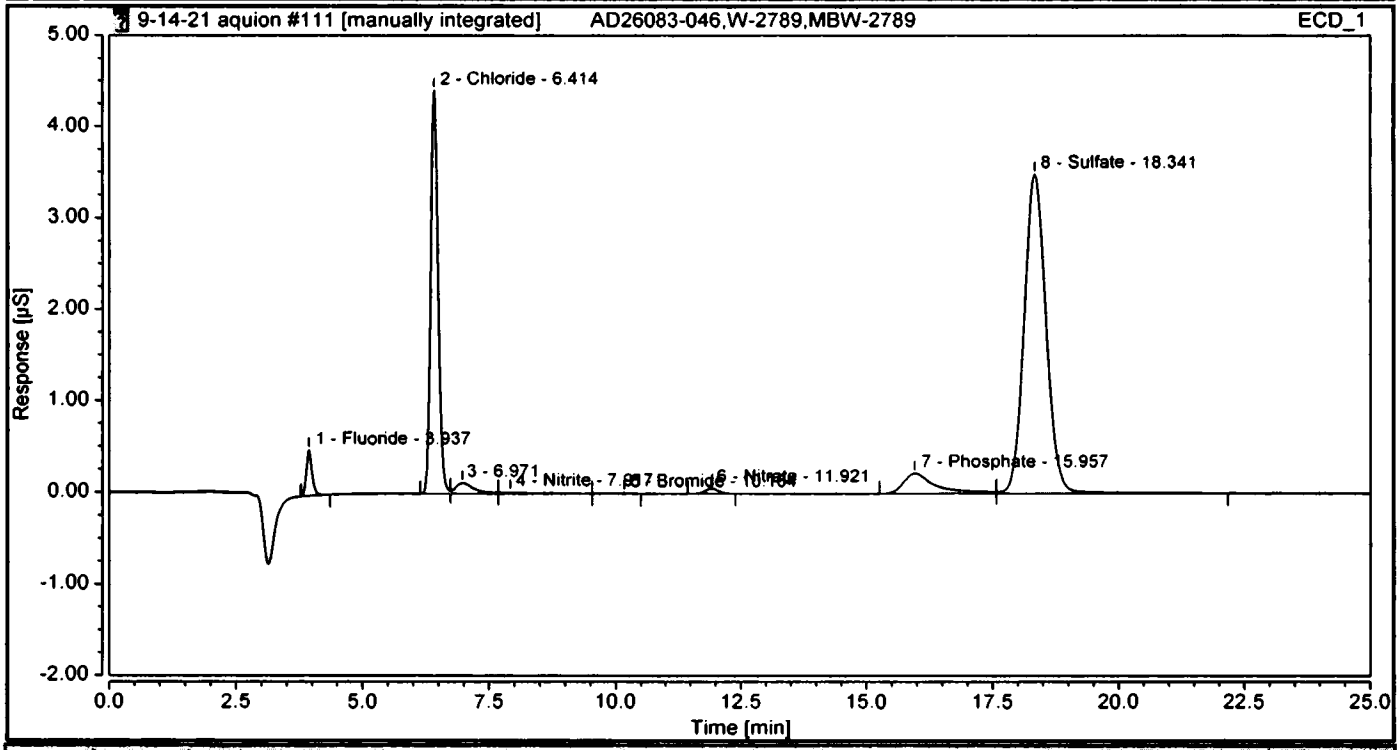
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 1.857 | 0.012 | 0.019 | n.a. | FALSE | n.a. |
| 2 | | 2.867 | 0.242 | 1.830 | n.a. | FALSE | n.a. |
| 3 | | 3.167 | 2.764 | 8.715 | n.a. | FALSE | n.a. |
| 4 | Fluoride | 3.881 | 1.853 | 5.249 | 99.875 | FALSE | 7.3702 |
| 5 | | 4.987 | 0.307 | 0.304 | n.a. | FALSE | n.a. |
| 6 | Chloride | 7.664 | 2136.814 | 2166.571 | 99.668 | TRUE | 10960.5294 |
| 7 | Nitrite | 8.254 | 2.194 | 11.428 | 99.877 | TRUE | 6.1790 |
| 8 | Bromide | 10.251 | 2.519 | 10.796 | 99.871 | TRUE | 36.5259 |
| 9 | Nitrate | 11.937 | 2.118 | 7.337 | 99.717 | FALSE | 5.1245 |
| 10 | Phosphate | 15.971 | 0.705 | 1.026 | 99.819 | FALSE | 4.4753 |
| 11 | Sulfate | 17.734 | 154.350 | 234.464 | 99.936 | TRUE | 1264.5371 |
| **Total:** | | | **2303.877** | **2447.741** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-046,W-2789,MBW-2789** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 20:06** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

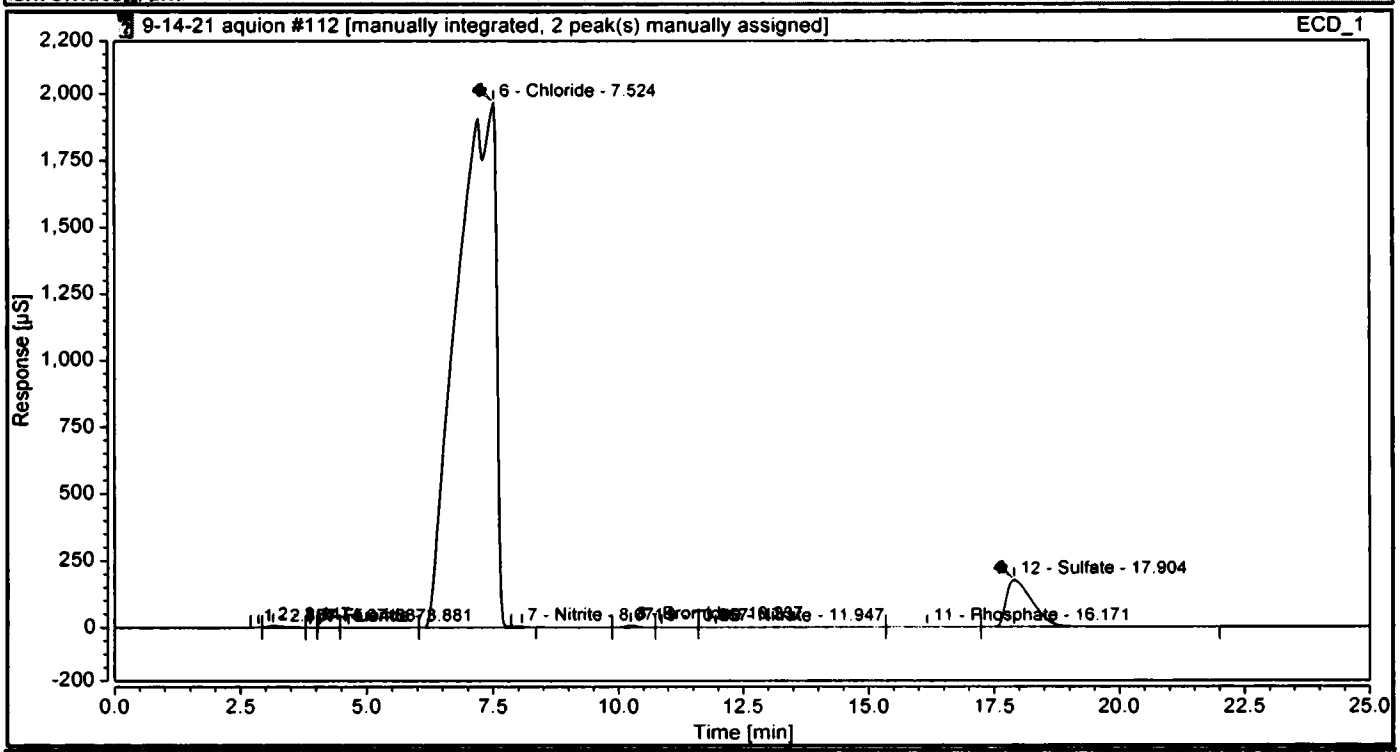
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.062 | 0.492 | 99.875 | TRUE | 0.2271 |
| 2 | Chloride | 6.414 | 0.738 | 4.408 | 99.668 | TRUE | 4.9958 |
| 3 | | 6.971 | 0.048 | 0.111 | n.a. | TRUE | n.a. |
| 4 | Nitrite | 7.917 | 0.012 | 0.013 | 99.877 | TRUE | 0.0410 |
| 5 | Bromide | 10.164 | 0.003 | 0.008 | 99.871 | TRUE | n.a. |
| 6 | Nitrate | 11.921 | 0.017 | 0.056 | 99.717 | FALSE | 0.3593 |
| 7 | Phosphate | 15.957 | 0.164 | 0.217 | 99.819 | FALSE | 0.6178 |
| 8 | Sulfate | 18.341 | 1.761 | 3.490 | 99.936 | FALSE | 14.5538 |
| **Total:** | | | **2.805** | **8.796** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-036,W-2789,MBW-2789** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 20:34** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

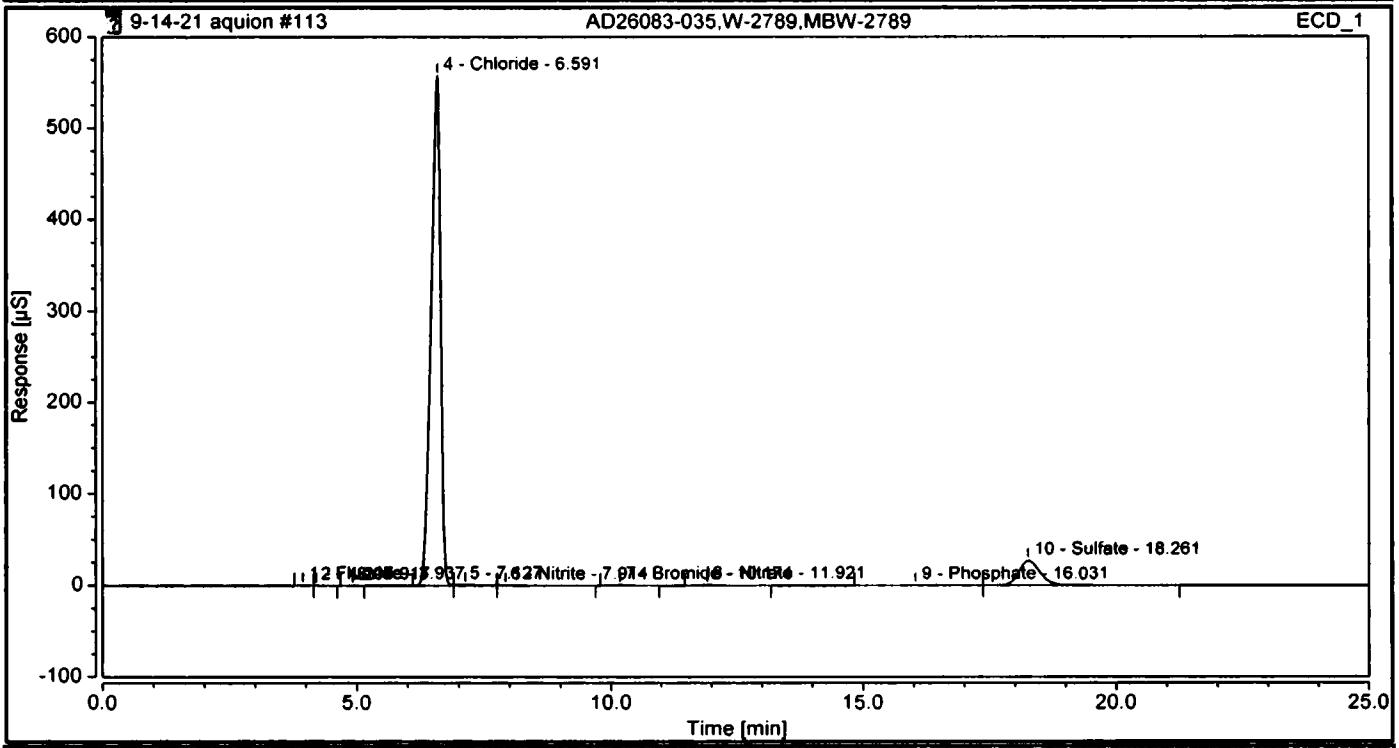
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.857 | 0.086 | 0.868 | n.a. | FALSE | n.a. |
| 2 | | 3.147 | 2.243 | 6.770 | n.a. | FALSE | n.a. |
| 3 | Fluoride | 3.881 | 0.135 | 0.611 | 99.875 | FALSE | 0.5173 |
| 4 | | 4.071 | 0.156 | 0.448 | n.a. | FALSE | n.a. |
| 5 | | 4.637 | 0.370 | 0.358 | n.a. | FALSE | n.a. |
| 6 | Chloride | 7.524 | 1756.865 | 1966.956 | 99.668 | TRUE | 9011.8379 |
| 7 | Nitrite | 8.071 | 0.214 | 0.835 | 99.877 | TRUE | 0.6095 |
| 8 | Bromide | 10.237 | 1.723 | 7.187 | 99.871 | FALSE | 24.9295 |
| 9 | | 10.867 | 0.040 | 0.059 | n.a. | FALSE | n.a. |
| 10 | Nitrate | 11.947 | 0.084 | 0.061 | 99.717 | FALSE | 0.5131 |
| 11 | Phosphate | 16.171 | 0.073 | 0.078 | 99.819 | FALSE | n.a. |
| 12 | Sulfate | 17.904 | 104.103 | 176.104 | 99.936 | FALSE | 852.9192 |
| **Total:** | | | **1866.092** | **2160.333** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-035,W-2789,MBW-2789** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 21:01** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

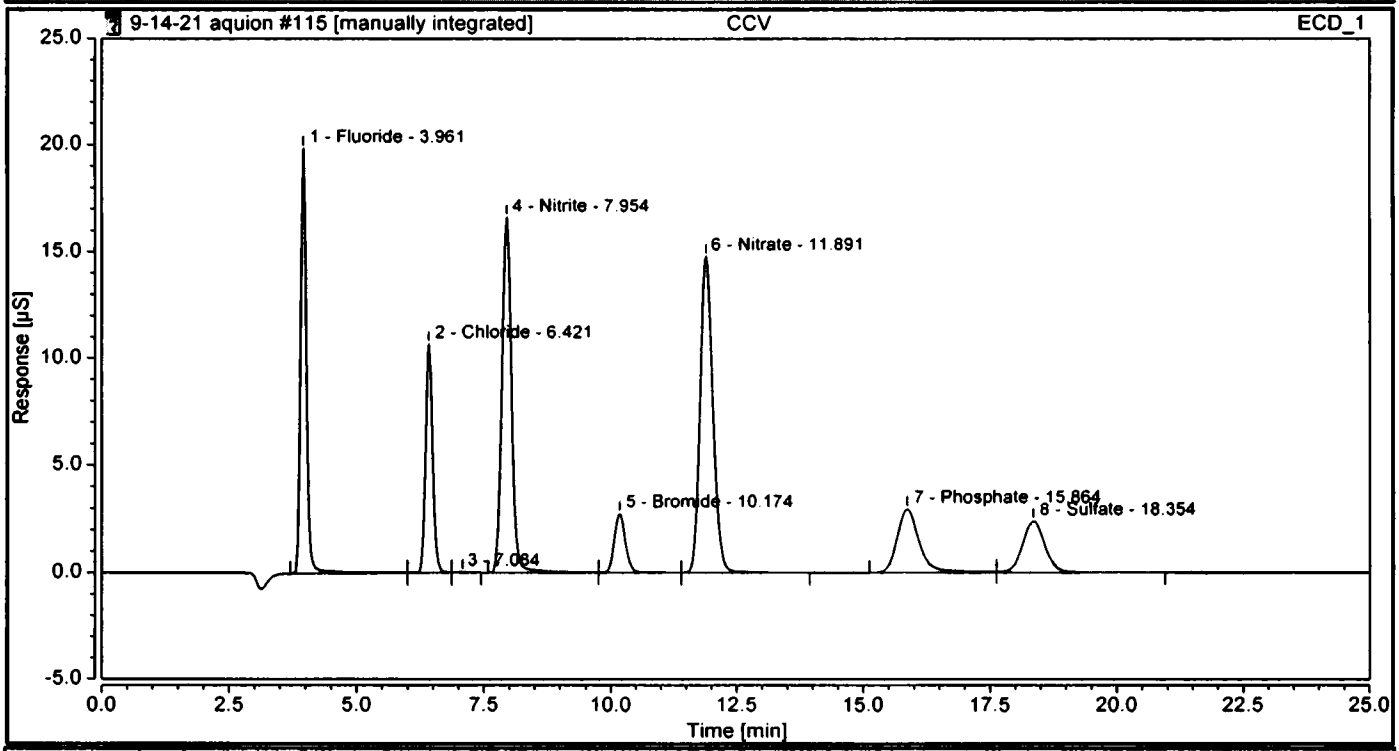
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.034 | 0.251 | 99.875 | FALSE | 0.1130 |
| 2 | | 4.207 | 0.002 | 0.010 | n.a. | FALSE | n.a. |
| 3 | | 4.917 | 0.001 | 0.007 | n.a. | FALSE | n.a. |
| 4 | Chloride | 6.591 | 119.425 | 557.561 | 99.668 | FALSE | 613.7195 |
| 5 | | 7.127 | 0.294 | 0.687 | n.a. | FALSE | n.a. |
| 6 | Nitrite | 7.914 | 0.036 | 0.084 | 99.877 | FALSE | 0.1072 |
| 7 | Bromide | 10.174 | 0.108 | 0.426 | 99.871 | FALSE | 1.3915 |
| 8 | Nitrate | 11.921 | 0.151 | 0.499 | 99.717 | FALSE | 0.6637 |
| 9 | Phosphate | 16.031 | 0.043 | 0.050 | 99.819 | FALSE | n.a. |
| 10 | Sulfate | 18.261 | 12.865 | 26.830 | 99.936 | FALSE | 105.5165 |
| **Total:** | | | **132.959** | **586.406** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 21:55** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

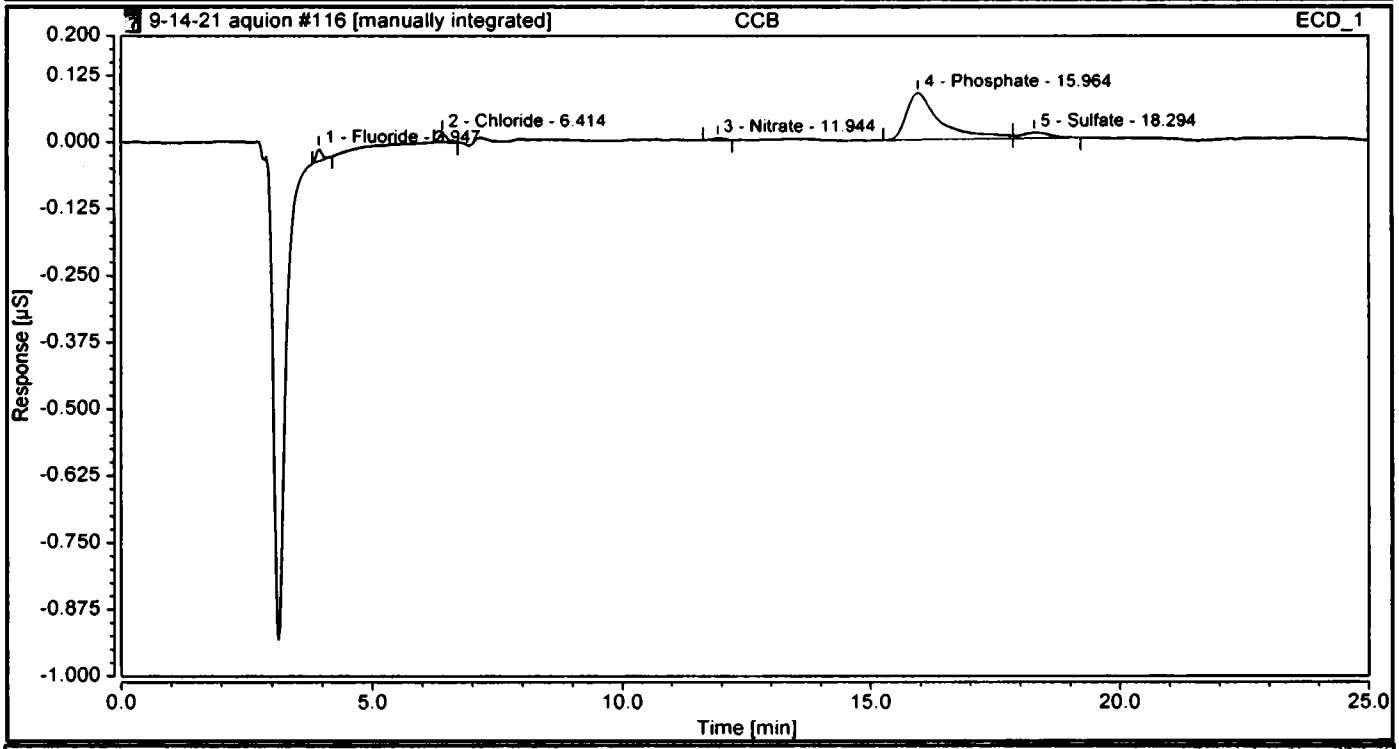
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.609 | 19.860 | 99.875 | TRUE | 10.3852 |
| 2 | Chloride | 6.421 | 1.694 | 10.688 | 99.668 | FALSE | 9.8992 |
| 3 | | 7.084 | 0.010 | 0.030 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.954 | 3.662 | 16.585 | 99.877 | TRUE | 10.3109 |
| 5 | Bromide | 10.174 | 0.696 | 2.751 | 99.871 | FALSE | 9.9570 |
| 6 | Nitrate | 11.891 | 4.303 | 14.785 | 99.717 | FALSE | 10.0779 |
| 7 | Phosphate | 15.864 | 1.507 | 2.952 | 99.819 | FALSE | 10.1884 |
| 8 | Sulfate | 18.354 | 1.221 | 2.398 | 99.936 | FALSE | 10.1265 |
| **Total:** | | | **15.700** | **70.049** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 22:22** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

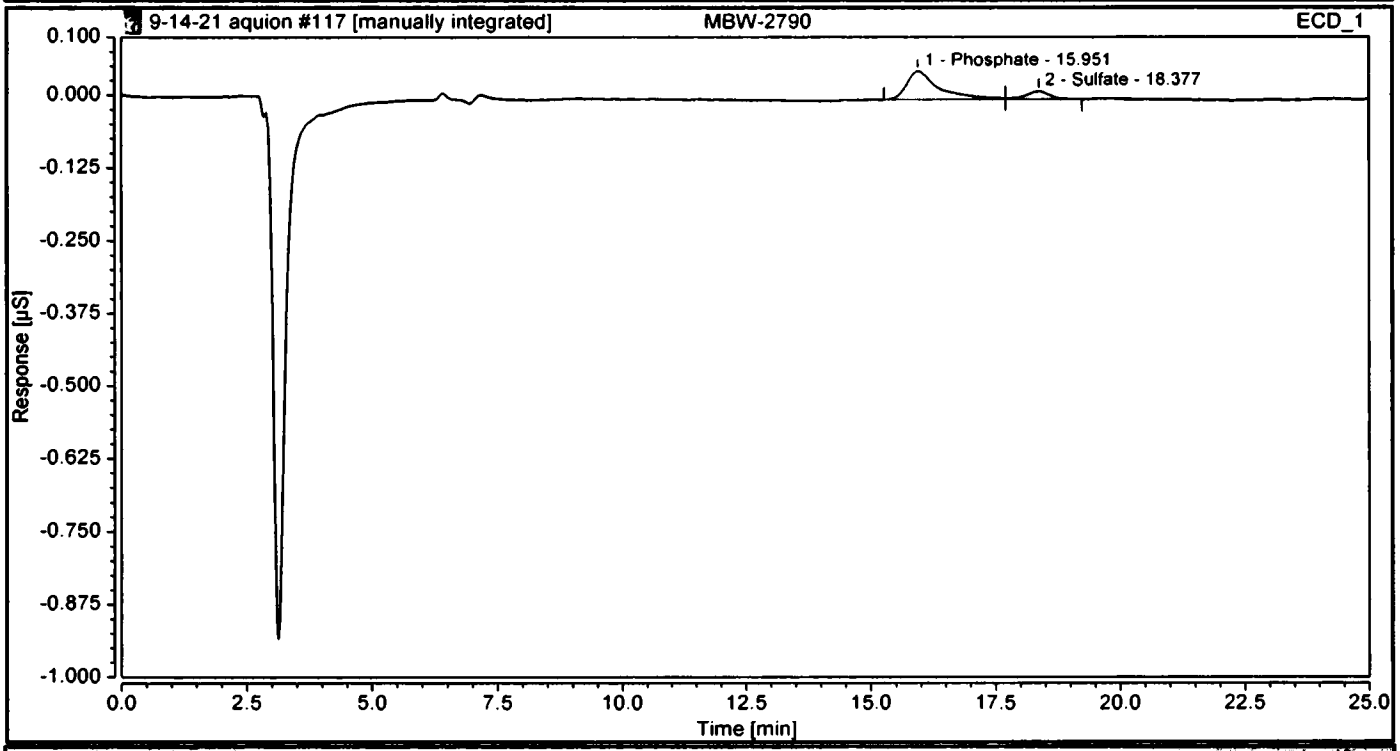
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 0.003 | 0.023 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.414 | 0.003 | 0.017 | 99.668 | TRUE | 1.2255 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| 3 | Nitrate | 11.944 | 0.001 | 0.004 | 99.717 | FALSE | 0.3240 |
| 4 | Phosphate | 15.964 | 0.069 | 0.088 | 99.819 | FALSE | n.a. |
| 5 | Sulfate | 18.294 | 0.007 | 0.011 | 99.936 | FALSE | 0.1857 |
| **Total:** | | | **0.083** | **0.143** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **MBW-2790** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 22:49** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

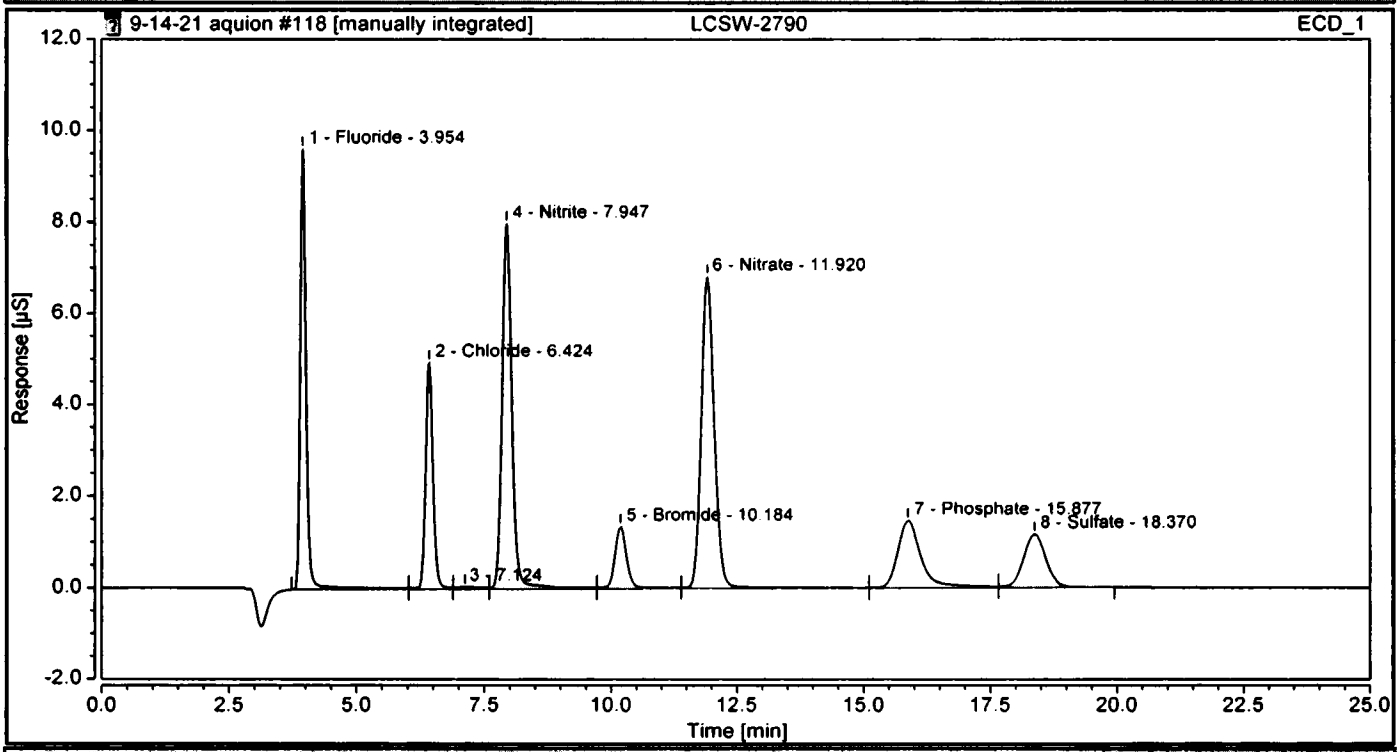
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 1 | Phosphate | 15.951 | 0.036 | 0.048 | 99.819 | FALSE | n.a. |
| 2 | Sulfate | 18.377 | 0.007 | 0.014 | 99.936 | FALSE | 0.1881 |
| **Total:** | | | **0.044** | **0.062** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LCSW-2790** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 23:17** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

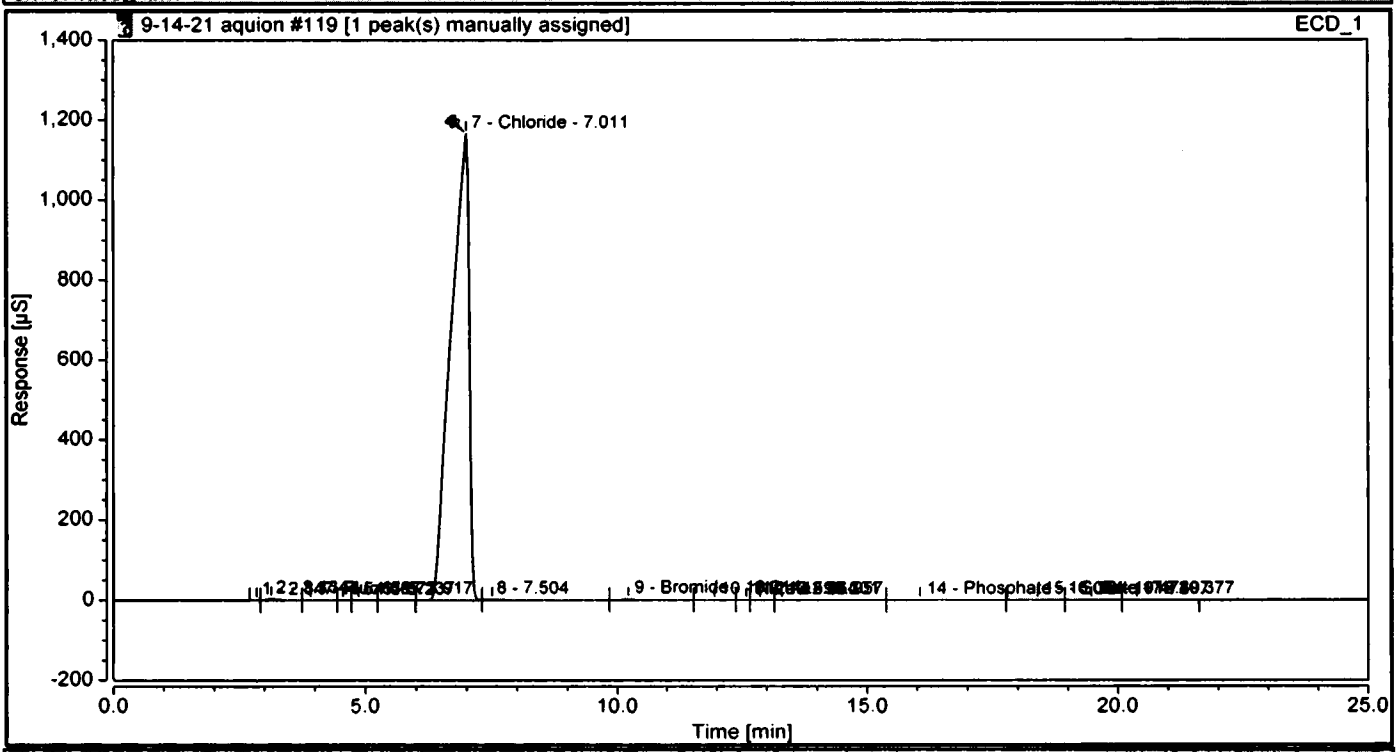
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.954 | 1.284 | 9.628 | 99.875 | TRUE | 5.0994 |
| 2 | Chloride | 6.424 | 0.816 | 4.949 | 99.668 | FALSE | 5.3957 |
| 3 | | 7.124 | 0.028 | 0.049 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.947 | 1.793 | 7.987 | 99.877 | FALSE | 5.0507 |
| 5 | Bromide | 10.184 | 0.376 | 1.357 | 99.871 | FALSE | 5.2977 |
| 6 | Nitrate | 11.920 | 2.058 | 6.819 | 99.717 | FALSE | 4.9883 |
| 7 | Phosphate | 15.877 | 0.792 | 1.468 | 99.819 | FALSE | 5.0930 |
| 8 | Sulfate | 18.370 | 0.596 | 1.164 | 99.936 | FALSE | 5.0134 |
| **Total:** | | | **7.743** | **33.422** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-040,W-2790,MBW-2790** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **17/Sep/21 23:44** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

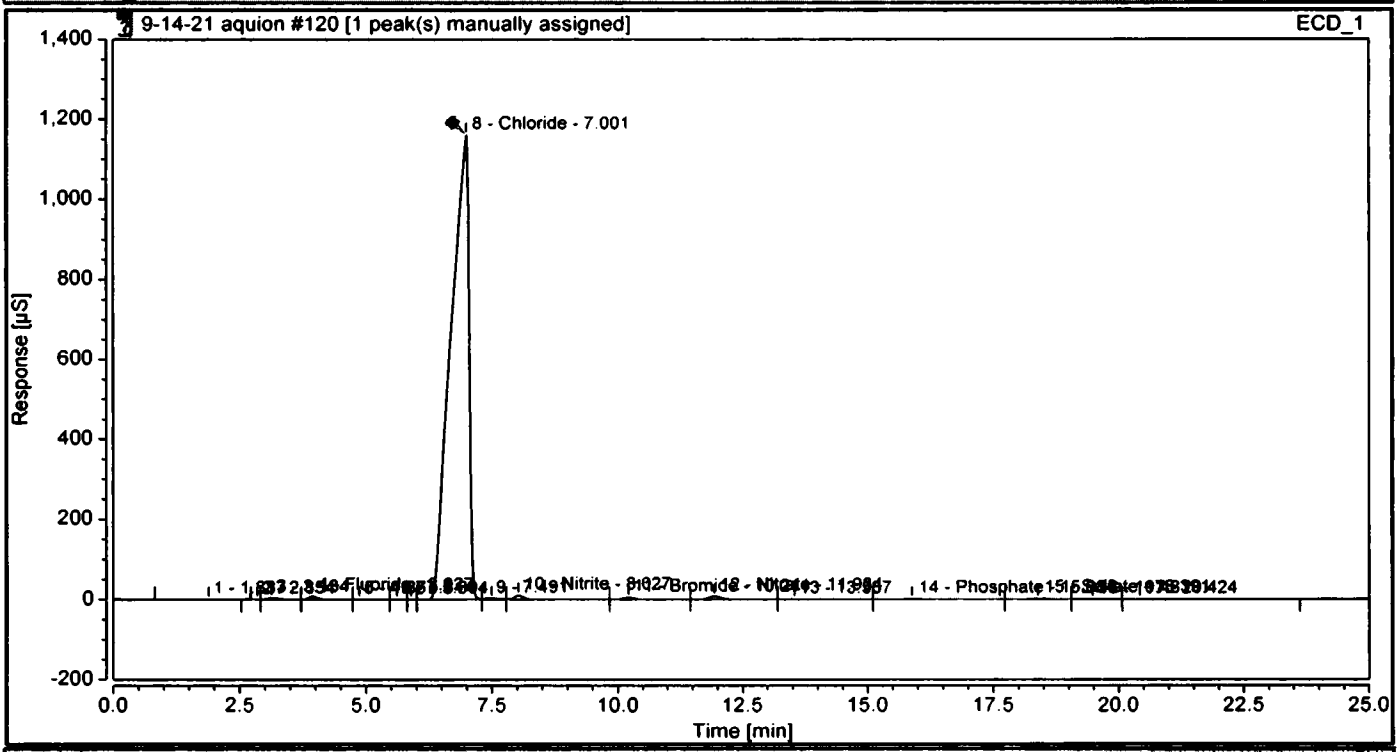
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.847 | 0.018 | 0.178 | n.a. | FALSE | n.a. |
| 2 | | 3.134 | 0.916 | 3.226 | n.a. | FALSE | n.a. |
| 3 | Fluoride | 3.917 | 0.170 | 0.520 | 99.875 | FALSE | 0.6566 |
| 4 | | 4.557 | 0.032 | 0.117 | n.a. | FALSE | n.a. |
| 5 | | 4.871 | 0.045 | 0.110 | n.a. | FALSE | n.a. |
| 6 | | 5.237 | 0.031 | 0.061 | n.a. | FALSE | n.a. |
| 7 | Chloride | 7.011 | 480.128 | 1164.635 | 99.668 | FALSE | 2463.6965 |
| 8 | | 7.504 | 1.019 | 1.806 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 9 | Bromide | 10.214 | 0.728 | 2.867 | 99.871 | FALSE | 10.4336 |
| 10 | Nitrate | 11.957 | 0.020 | 0.037 | 99.717 | FALSE | 0.3667 |
| 11 | | 12.594 | 0.006 | 0.033 | n.a. | FALSE | n.a. |
| 12 | | 12.864 | 0.018 | 0.049 | n.a. | FALSE | n.a. |
| 13 | | 13.301 | 0.064 | 0.037 | n.a. | FALSE | n.a. |
| 14 | Phosphate | 16.054 | 0.094 | 0.069 | 99.819 | FALSE | 0.1238 |
| 15 | Sulfate | 18.397 | 0.086 | 0.146 | 99.936 | FALSE | 0.8337 |
| 16 | | 19.474 | 0.082 | 0.123 | n.a. | FALSE | n.a. |
| 17 | | 20.377 | 0.024 | 0.035 | n.a. | FALSE | n.a. |
| **Total:** | | | **483.483** | **1174.051** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-042MS,W-2790,MBW-2790** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **18/Sep/21 00:11** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

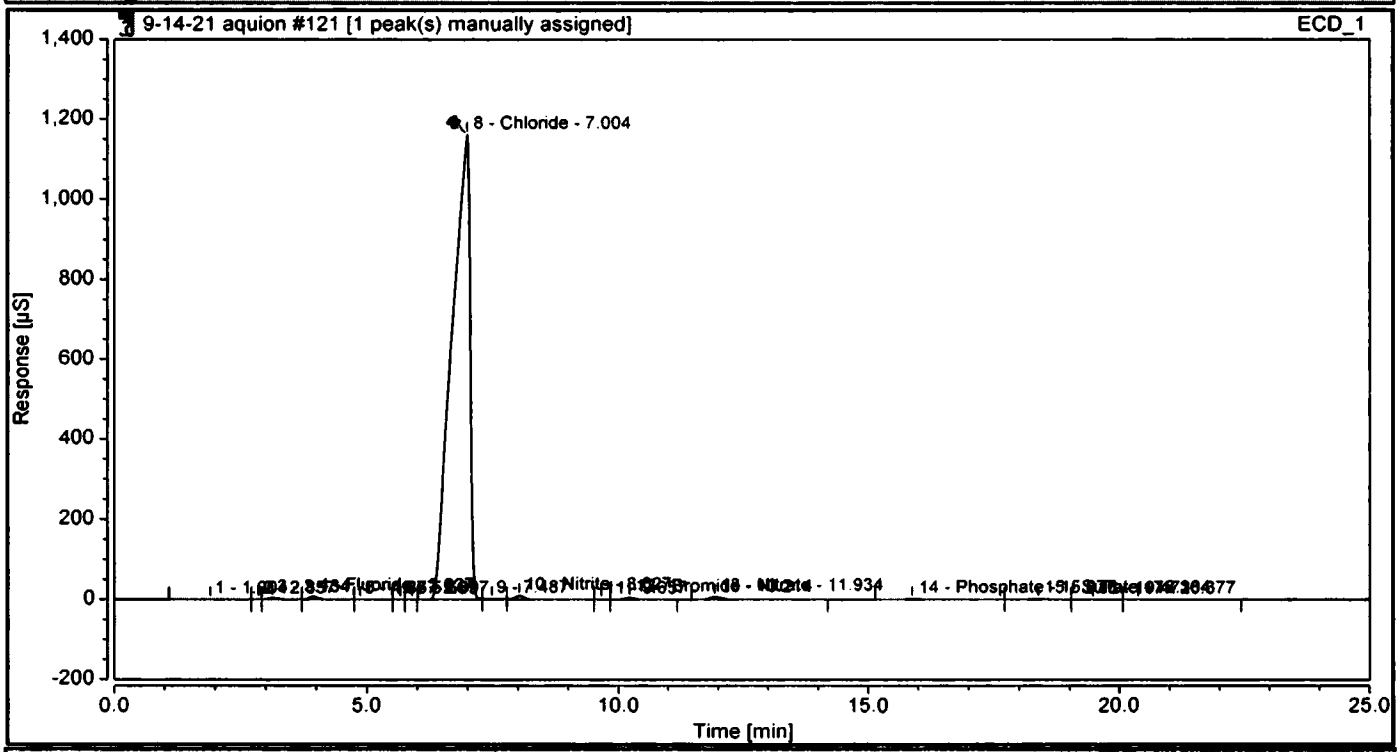
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 1.887 | 0.030 | 0.044 | n.a. | FALSE | n.a. |
| 2 | | 2.854 | 0.018 | 0.182 | n.a. | FALSE | n.a. |
| 3 | | 3.134 | 0.911 | 3.229 | n.a. | FALSE | n.a. |
| 4 | Fluoride | 3.927 | 1.488 | 7.674 | 99.875 | FALSE | 5.9138 |
| 5 | | 4.867 | 0.058 | 0.114 | n.a. | FALSE | n.a. |
| 6 | | 5.614 | 0.014 | 0.039 | n.a. | FALSE | n.a. |
| 7 | | 5.894 | 0.005 | 0.042 | n.a. | FALSE | n.a. |
| 8 | Chloride | 7.001 | 476.949 | 1159.727 | 99.668 | FALSE | 2447.3897 |
| 9 | | 7.491 | 0.697 | 1.768 | n.a. | FALSE | n.a. |
| 10 | Nitrite | 8.027 | 2.188 | 9.641 | 99.877 | FALSE | 6.1626 |
| 11 | Bromide | 10.211 | 1.103 | 4.435 | 99.871 | FALSE | 15.8876 |
| 12 | Nitrate | 11.934 | 2.212 | 7.491 | 99.717 | FALSE | 5.3361 |
| 13 | | 13.537 | 0.056 | 0.037 | n.a. | FALSE | n.a. |
| 14 | Phosphate | 15.884 | 0.748 | 1.013 | 99.819 | FALSE | 4.7811 |
| 15 | Sulfate | 18.391 | 0.711 | 1.359 | 99.936 | FALSE | 5.9551 |
| 16 | | 19.481 | 0.097 | 0.140 | n.a. | FALSE | n.a. |
| 17 | | 20.424 | 0.058 | 0.049 | n.a. | FALSE | n.a. |
| **Total:** | | | **487.340** | **1196.985** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-044MSD,W-2790,MBW-2790** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **18/Sep/21 00:38** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

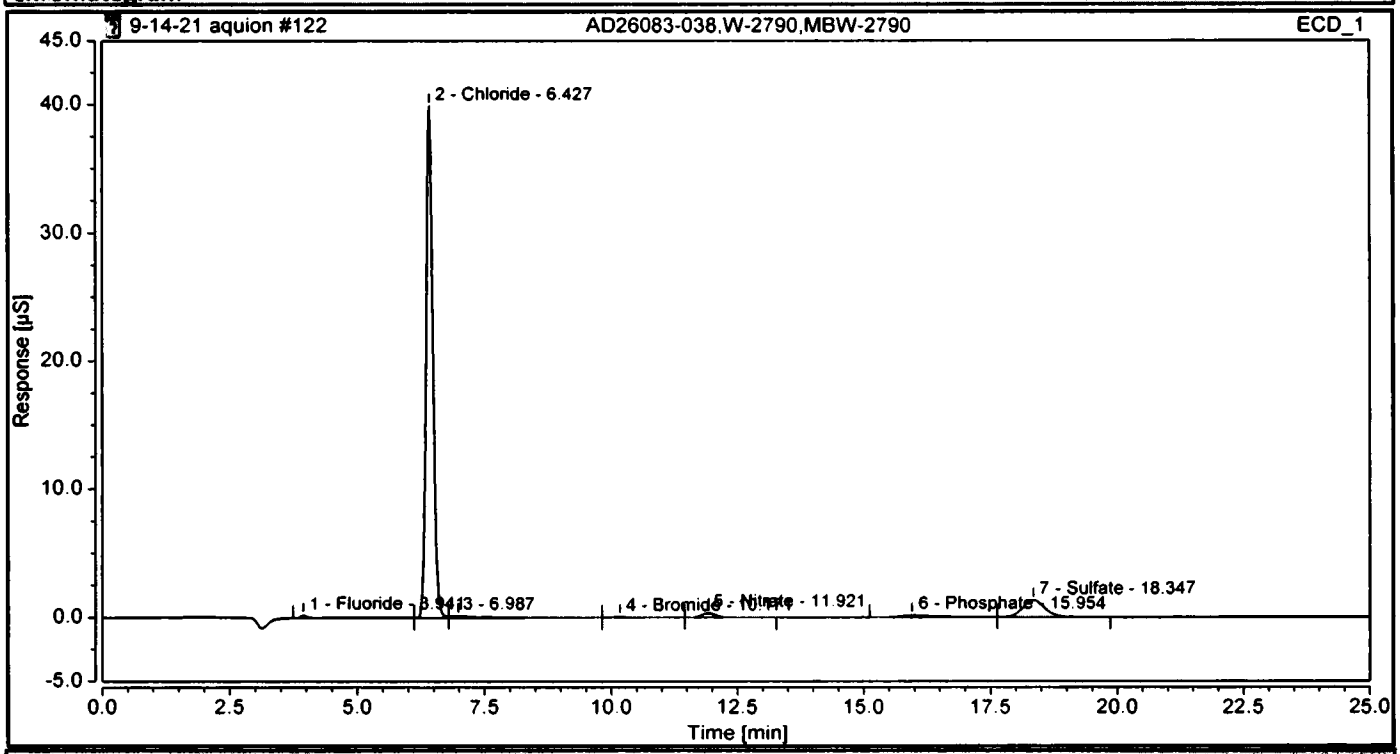
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 1.904 | 0.041 | 0.051 | n.a. | FALSE | n.a. |
| 2 | | 2.857 | 0.020 | 0.194 | n.a. | FALSE | n.a. |
| 3 | | 3.134 | 0.917 | 3.238 | n.a. | FALSE | n.a. |
| 4 | Fluoride | 3.927 | 1.433 | 7.322 | 99.875 | FALSE | 5.6950 |
| 5 | | 4.867 | 0.059 | 0.114 | n.a. | FALSE | n.a. |
| 6 | | 5.667 | 0.010 | 0.038 | n.a. | FALSE | n.a. |
| 7 | | 5.897 | 0.007 | 0.040 | n.a. | FALSE | n.a. |
| 8 | Chloride | 7.004 | 477.543 | 1160.710 | 99.668 | FALSE | 2450.4362 |
| 9 | | 7.487 | 0.691 | 1.763 | n.a. | FALSE | n.a. |
| 10 | Nitrite | 8.027 | 2.067 | 9.192 | 99.877 | FALSE | 5.8243 |
| 11 | | 9.657 | 0.008 | 0.027 | n.a. | FALSE | n.a. |
| 12 | Bromide | 10.214 | 1.053 | 4.337 | 99.871 | FALSE | 15.1650 |
| 13 | Nitrate | 11.934 | 2.056 | 7.038 | 99.717 | FALSE | 4.9840 |
| 14 | Phosphate | 15.877 | 0.722 | 1.001 | 99.819 | FALSE | 4.5939 |
| 15 | Sulfate | 18.384 | 0.669 | 1.288 | 99.936 | FALSE | 5.6092 |
| 16 | | 19.471 | 0.089 | 0.133 | n.a. | FALSE | n.a. |
| 17 | | 20.377 | 0.033 | 0.041 | n.a. | FALSE | n.a. |
| **Total:** | | | **487.418** | **1196.528** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-038,W-2790,MBW-2790** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **18/Sep/21 01:05** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

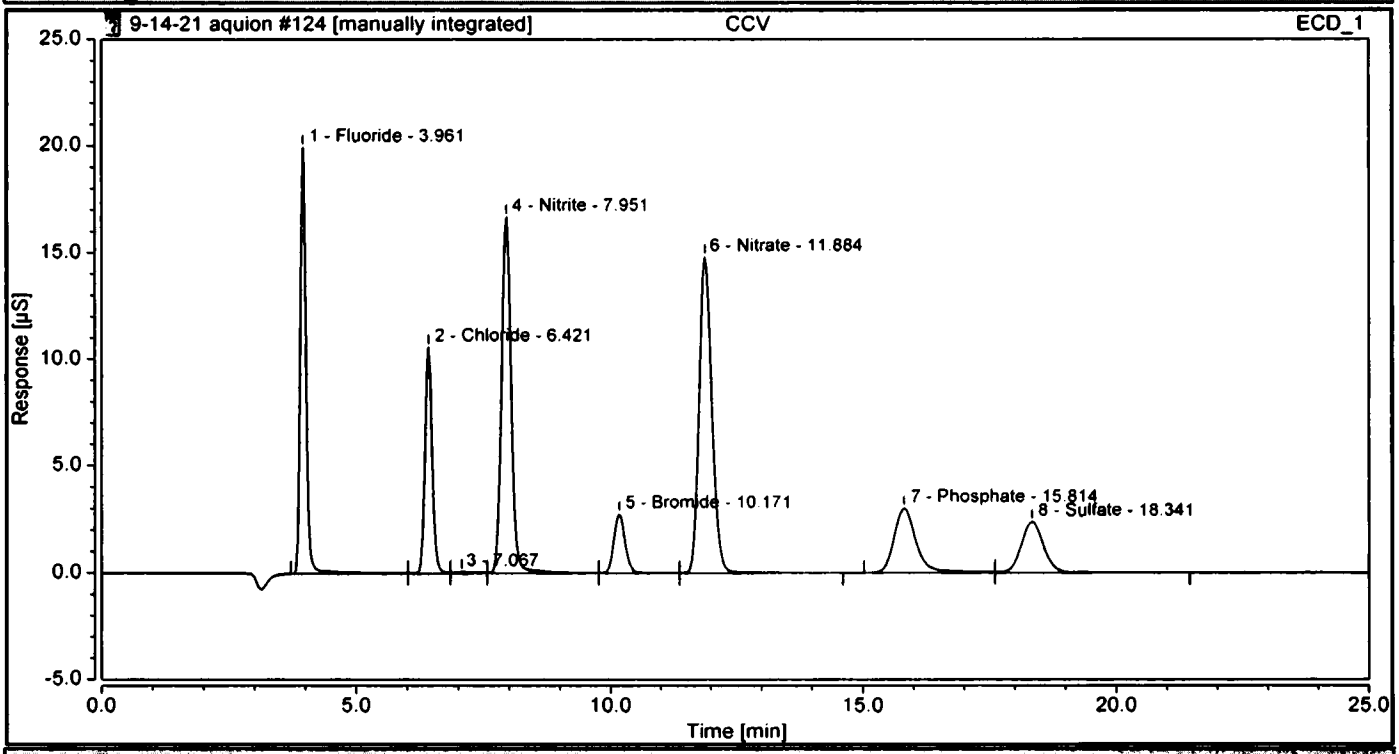
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.072 | 0.193 | 99.875 | FALSE | 0.2655 |
| 2 | Chloride | 6.427 | 6.142 | 39.915 | 99.668 | FALSE | 32.7112 |
| 3 | | 6.987 | 0.113 | 0.150 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.171 | 0.025 | 0.048 | 99.871 | FALSE | 0.1865 |
| 5 | Nitrate | 11.921 | 0.104 | 0.332 | 99.717 | FALSE | 0.5586 |
| 6 | Phosphate | 15.954 | 0.123 | 0.150 | 99.819 | FALSE | 0.3286 |
| 7 | Sulfate | 18.347 | 0.654 | 1.302 | 99.936 | FALSE | 5.4843 |
| **Total:** | | | **7.234** | **42.091** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **18/Sep/21 02:00** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

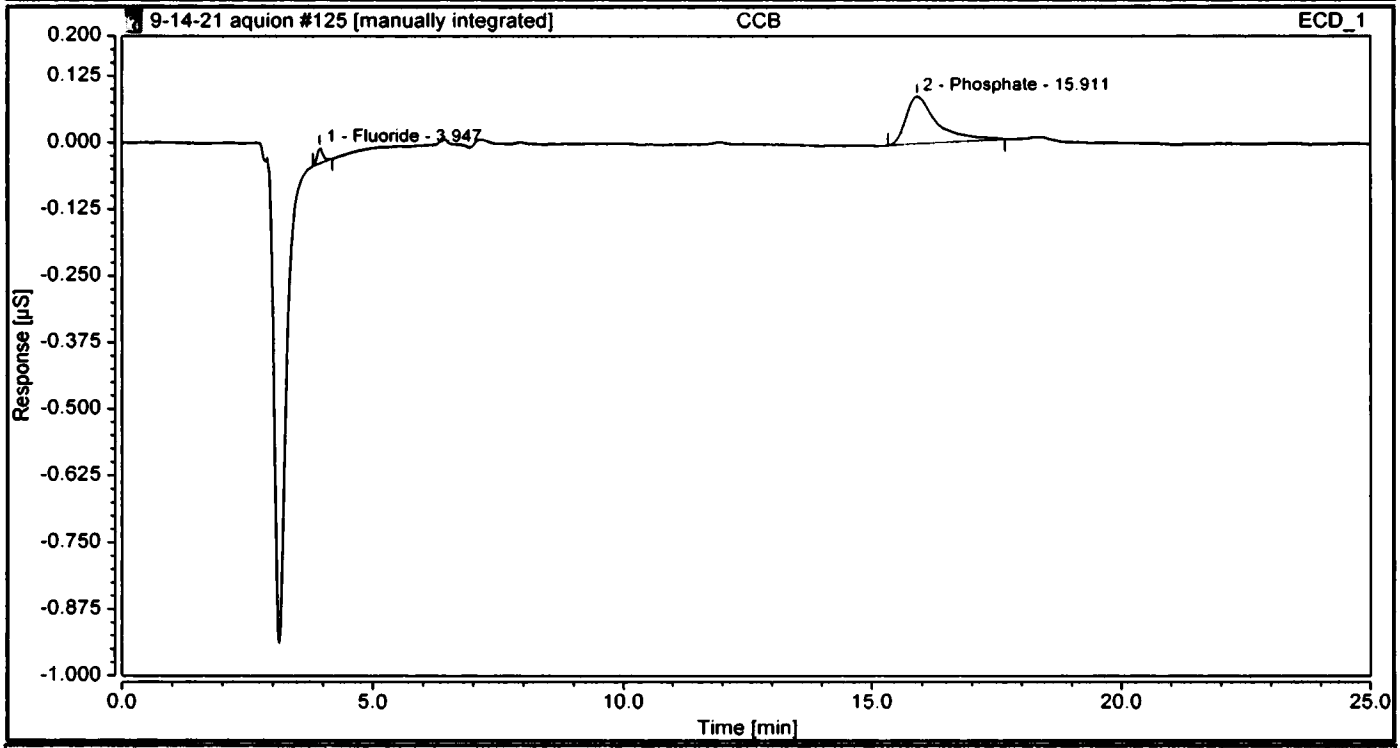
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.639 | 19.951 | 99.875 | TRUE | 10.5066 |
| 2 | Chloride | 6.421 | 1.695 | 10.607 | 99.668 | FALSE | 9.9052 |
| 3 | | 7.067 | 0.033 | 0.063 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.951 | 3.712 | 16.674 | 99.877 | TRUE | 10.4532 |
| 5 | Bromide | 10.171 | 0.716 | 2.772 | 99.871 | FALSE | 10.2548 |
| 6 | Nitrate | 11.884 | 4.312 | 14.804 | 99.717 | FALSE | 10.0981 |
| 7 | Phosphate | 15.814 | 1.531 | 3.011 | 99.819 | FALSE | 10.3630 |
| 8 | Sulfate | 18.341 | 1.221 | 2.381 | 99.936 | FALSE | 10.1272 |
| **Total:** | | | **15.859** | **70.261** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **18/Sep/21 02:27** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

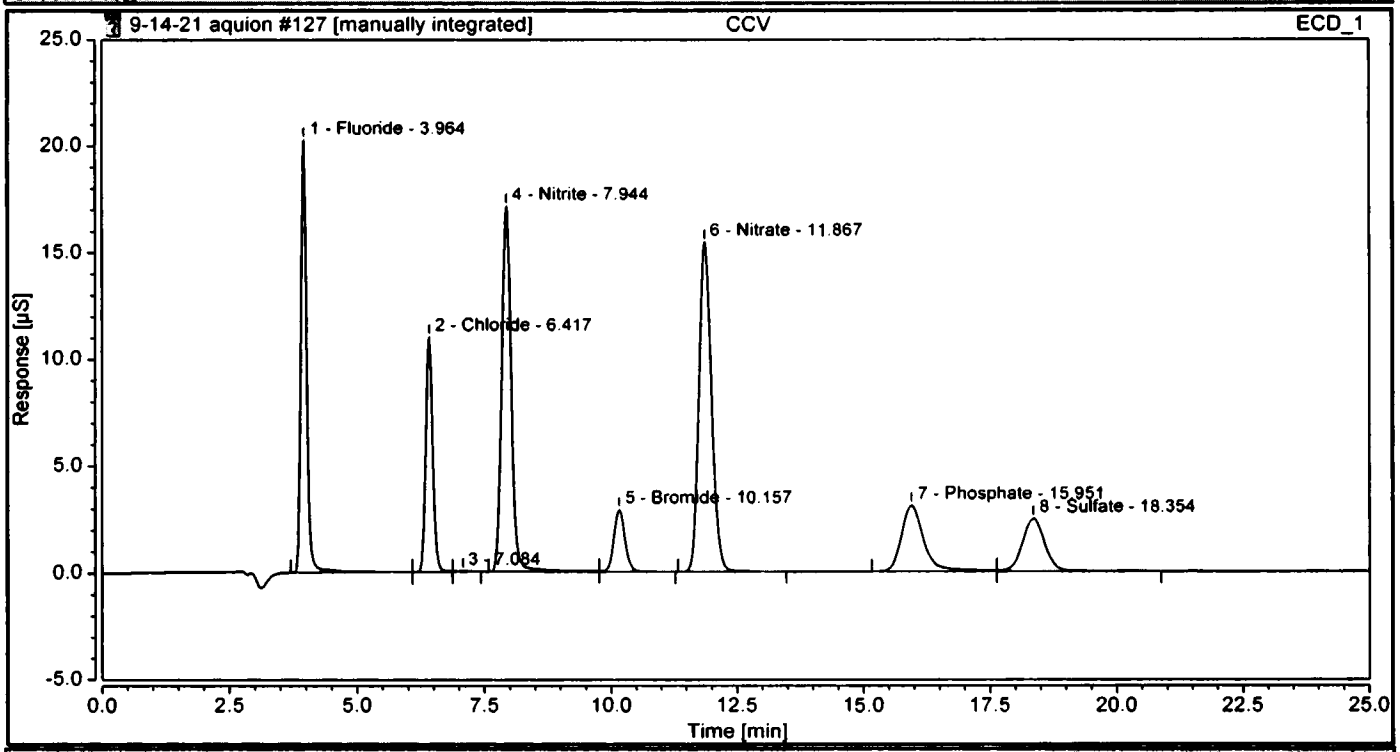
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 0.004 | 0.028 | 99.875 | TRUE | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 2 | Phosphate | 15.911 | 0.064 | 0.089 | 99.819 | TRUE | n.a. |
| n.a. | Sulfate | n.a. | n.a. | n.a. | 99.936 | n.a. | n.a. |
| **Total:** | | | **0.068** | **0.117** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 11:41** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

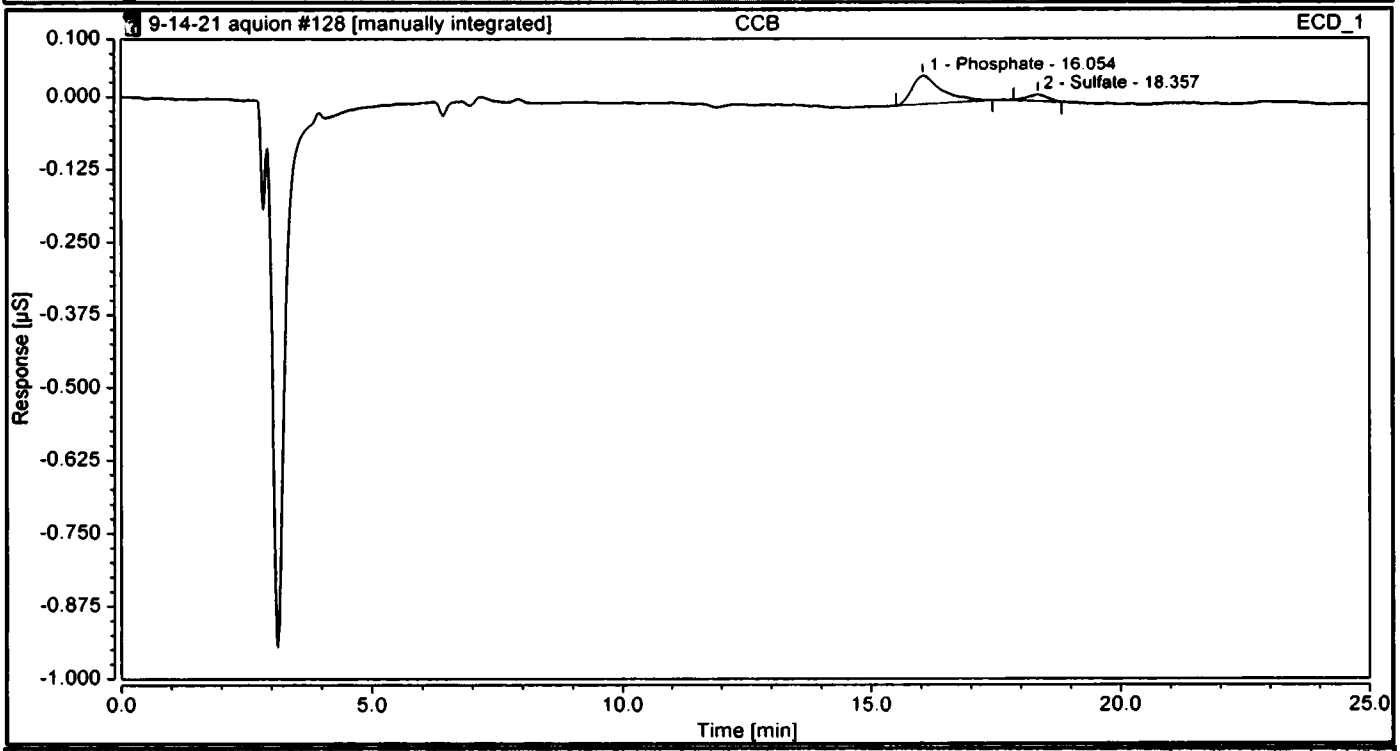
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.964 | 2.657 | 20.226 | 99.875 | TRUE | 10.5748 |
| 2 | Chloride | 6.417 | 1.708 | 10.993 | 99.668 | FALSE | 9.9701 |
| 3 | | 7.084 | 0.010 | 0.033 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.944 | 3.755 | 17.095 | 99.877 | TRUE | 10.5741 |
| 5 | Bromide | 10.157 | 0.726 | 2.900 | 99.871 | FALSE | 10.4001 |
| 6 | Nitrate | 11.867 | 4.404 | 15.428 | 99.717 | FALSE | 10.3065 |
| 7 | Phosphate | 15.951 | 1.577 | 3.087 | 99.819 | FALSE | 10.6922 |
| 8 | Sulfate | 18.354 | 1.251 | 2.462 | 99.936 | FALSE | 10.3741 |
| **Total:** | | | **16.088** | **72.224** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 12:08** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

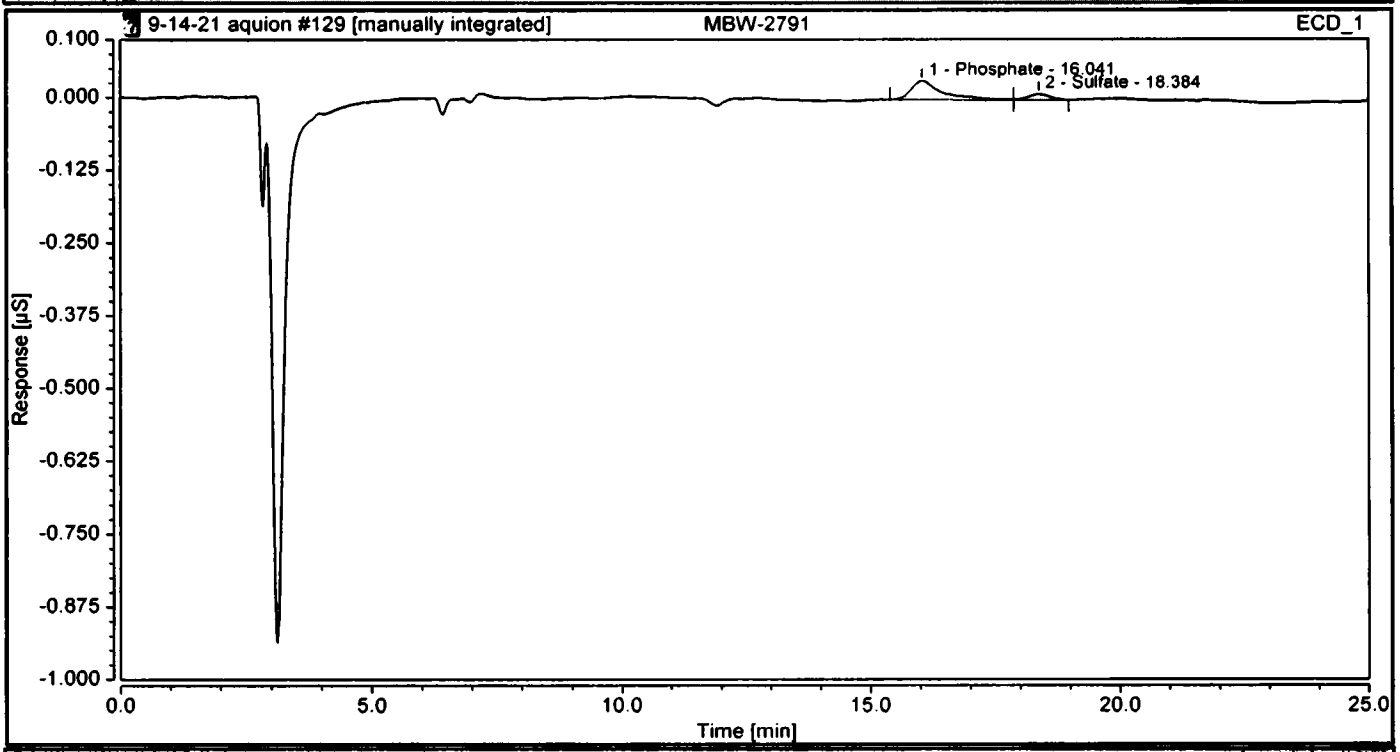
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 1 | Phosphate | 16.054 | 0.034 | 0.049 | 99.819 | FALSE | n.a. |
| 2 | Sulfate | 18.357 | 0.005 | 0.011 | 99.936 | FALSE | 0.1680 |
| **Total:** | | | **0.039** | **0.060** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **MBW-2791** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 12:36** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

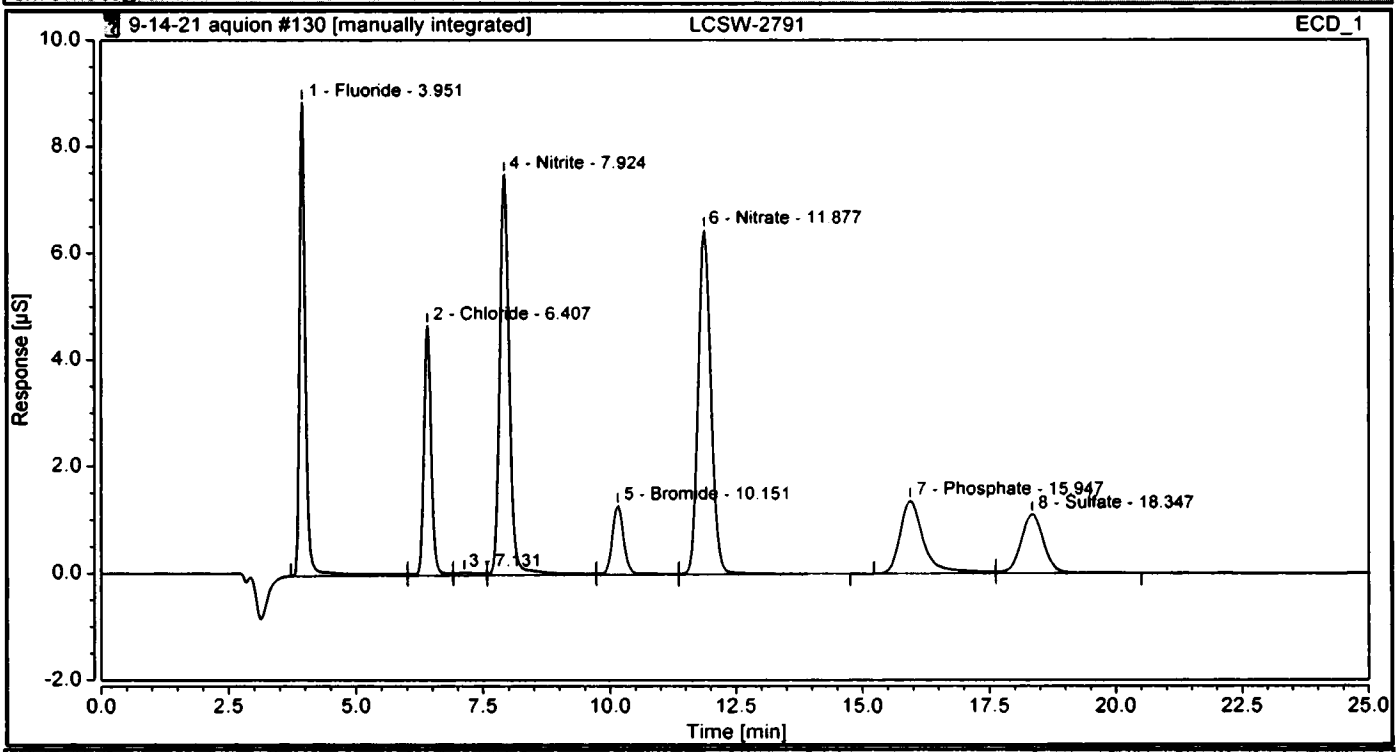
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 1 | Phosphate | 16.041 | 0.024 | 0.033 | 99.819 | FALSE | n.a. |
| 2 | Sulfate | 18.384 | 0.005 | 0.010 | 99.936 | FALSE | 0.1680 |
| **Total:** | | | **0.029** | **0.043** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LCSW-2791** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 14:48** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

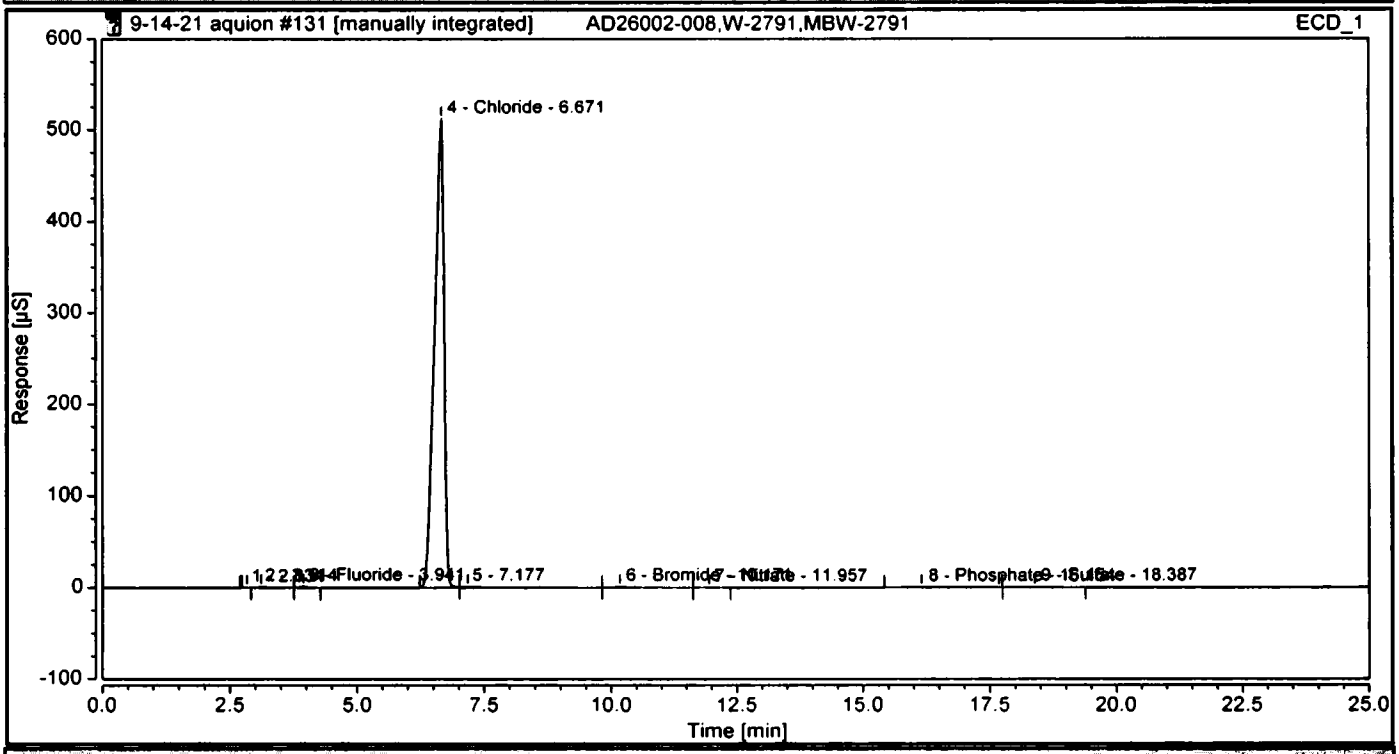
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.951 | 1.198 | 8.870 | 99.875 | TRUE | 4.7580 |
| 2 | Chloride | 6.407 | 0.764 | 4.684 | 99.668 | FALSE | 5.1313 |
| 3 | | 7.131 | 0.027 | 0.051 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.924 | 1.664 | 7.503 | 99.877 | FALSE | 4.6883 |
| 5 | Bromide | 10.151 | 0.345 | 1.294 | 99.871 | FALSE | 4.8442 |
| 6 | Nitrate | 11.877 | 1.903 | 6.457 | 99.717 | FALSE | 4.6367 |
| 7 | Phosphate | 15.947 | 0.741 | 1.362 | 99.819 | FALSE | 4.7337 |
| 8 | Sulfate | 18.347 | 0.571 | 1.106 | 99.936 | FALSE | 4.8022 |
| **Total:** | | | **7.213** | **31.327** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26002-008,W-2791,MBW-2791** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 15:36** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

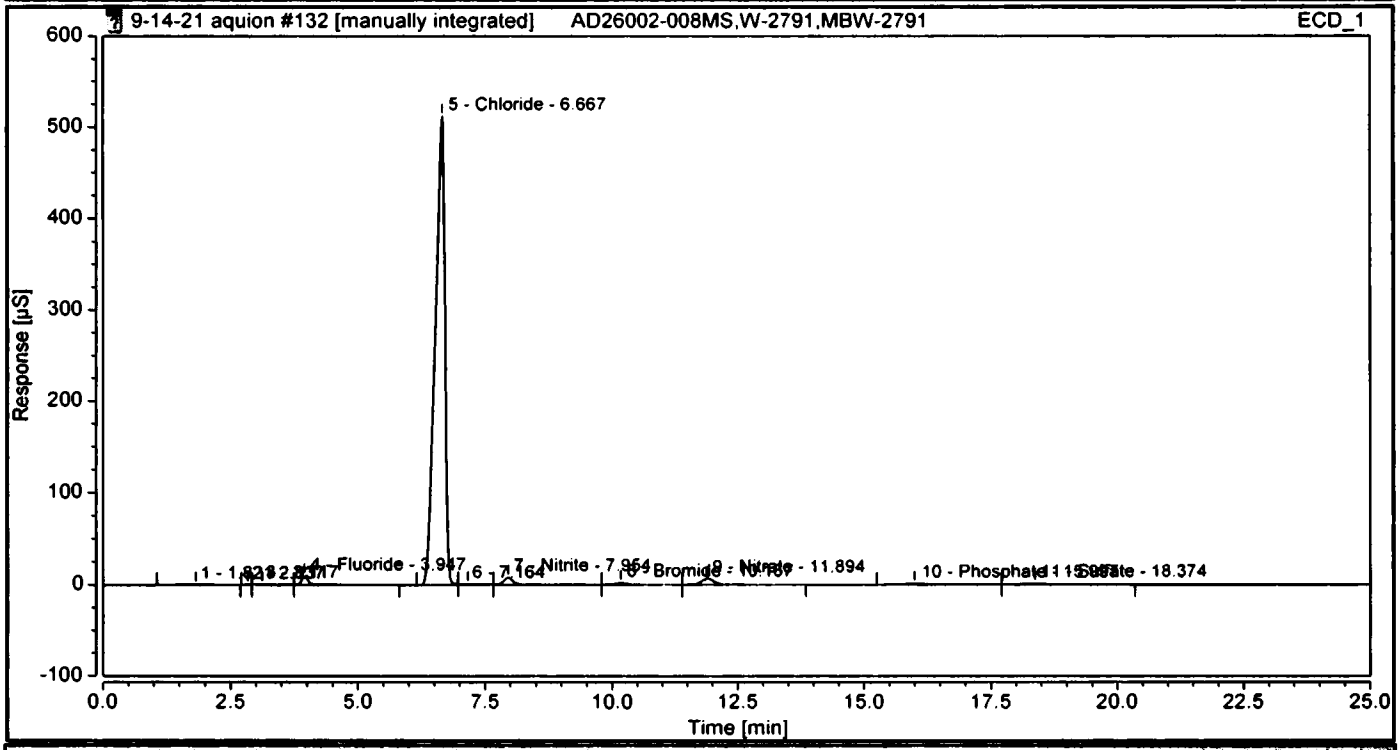
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.834 | 0.009 | 0.107 | n.a. | FALSE | n.a. |
| 2 | | 3.114 | 0.139 | 0.507 | n.a. | TRUE | n.a. |
| 3 | Fluoride | 3.941 | 0.160 | 1.138 | 99.875 | TRUE | 0.6153 |
| 4 | Chloride | 6.671 | 111.417 | 512.069 | 99.668 | TRUE | 572.6458 |
| 5 | | 7.177 | 0.473 | 0.821 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 6 | Bromide | 10.171 | 0.179 | 0.660 | 99.871 | TRUE | 2.4281 |
| 7 | Nitrate | 11.957 | 0.005 | 0.015 | 99.717 | TRUE | 0.3331 |
| 8 | Phosphate | 16.154 | 0.050 | 0.054 | 99.819 | TRUE | n.a. |
| 9 | Sulfate | 18.387 | 0.075 | 0.143 | 99.936 | TRUE | 0.7378 |
| **Total:** | | | **112.505** | **515.515** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26002-008MS,W-2791,MBW-2791** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 16:03** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

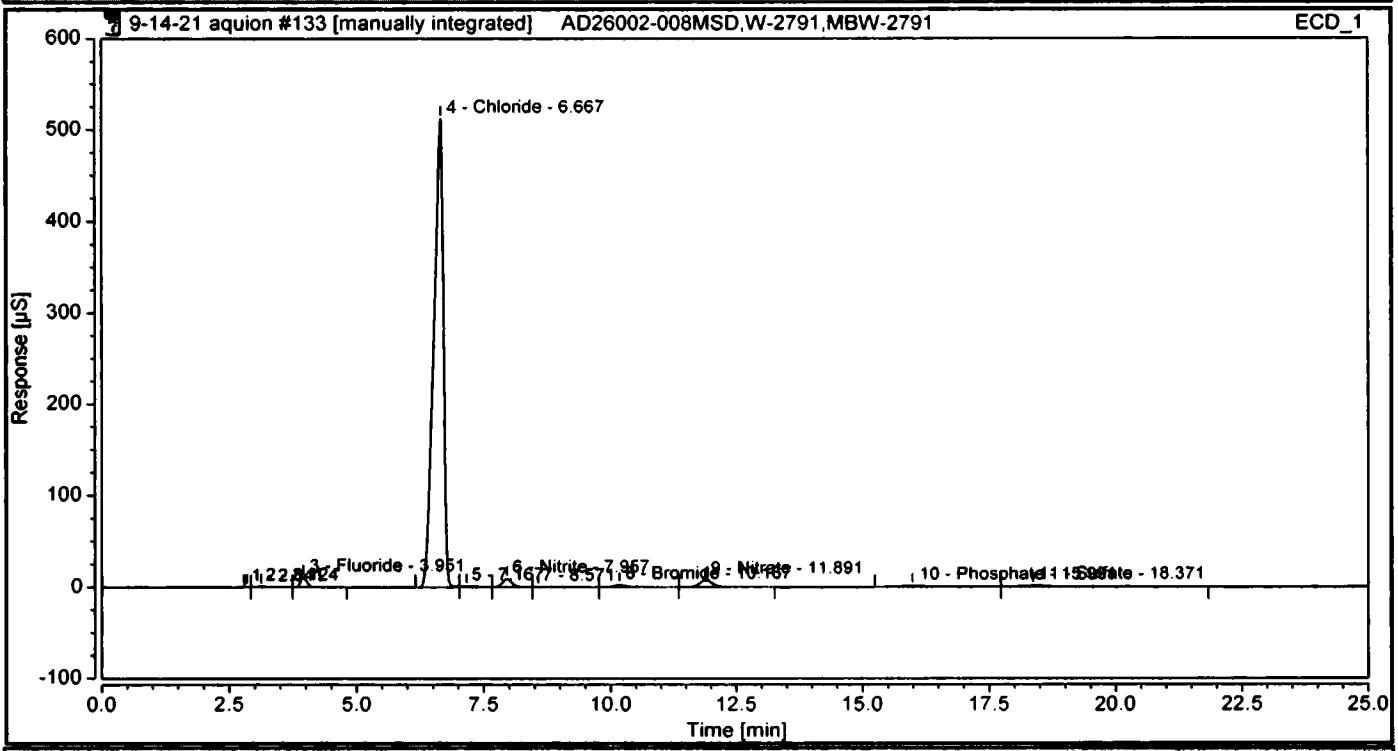
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 1.821 | 0.032 | 0.045 | n.a. | TRUE | n.a. |
| 2 | | 2.837 | 0.012 | 0.129 | n.a. | TRUE | n.a. |
| 3 | | 3.117 | 0.154 | 0.553 | n.a. | TRUE | n.a. |
| 4 | Fluoride | 3.947 | 1.321 | 9.152 | 99.875 | TRUE | 5.2482 |
| 5 | Chloride | 6.667 | 111.722 | 512.129 | 99.668 | TRUE | 574.2108 |
| 6 | | 7.164 | 0.443 | 0.925 | n.a. | TRUE | n.a. |
| 7 | Nitrite | 7.954 | 1.952 | 8.063 | 99.877 | TRUE | 5.4986 |
| 8 | Bromide | 10.167 | 0.601 | 2.046 | 99.871 | TRUE | 8.5803 |
| 9 | Nitrate | 11.894 | 1.963 | 6.605 | 99.717 | TRUE | 4.7715 |
| 10 | Phosphate | 15.997 | 0.675 | 0.963 | 99.819 | TRUE | 4.2631 |
| 11 | Sulfate | 18.374 | 0.645 | 1.250 | 99.936 | TRUE | 5.4126 |
| **Total:** | | | **119.519** | **541.859** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26002-008MSD,W-2791,MBW-2791** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 16:30** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

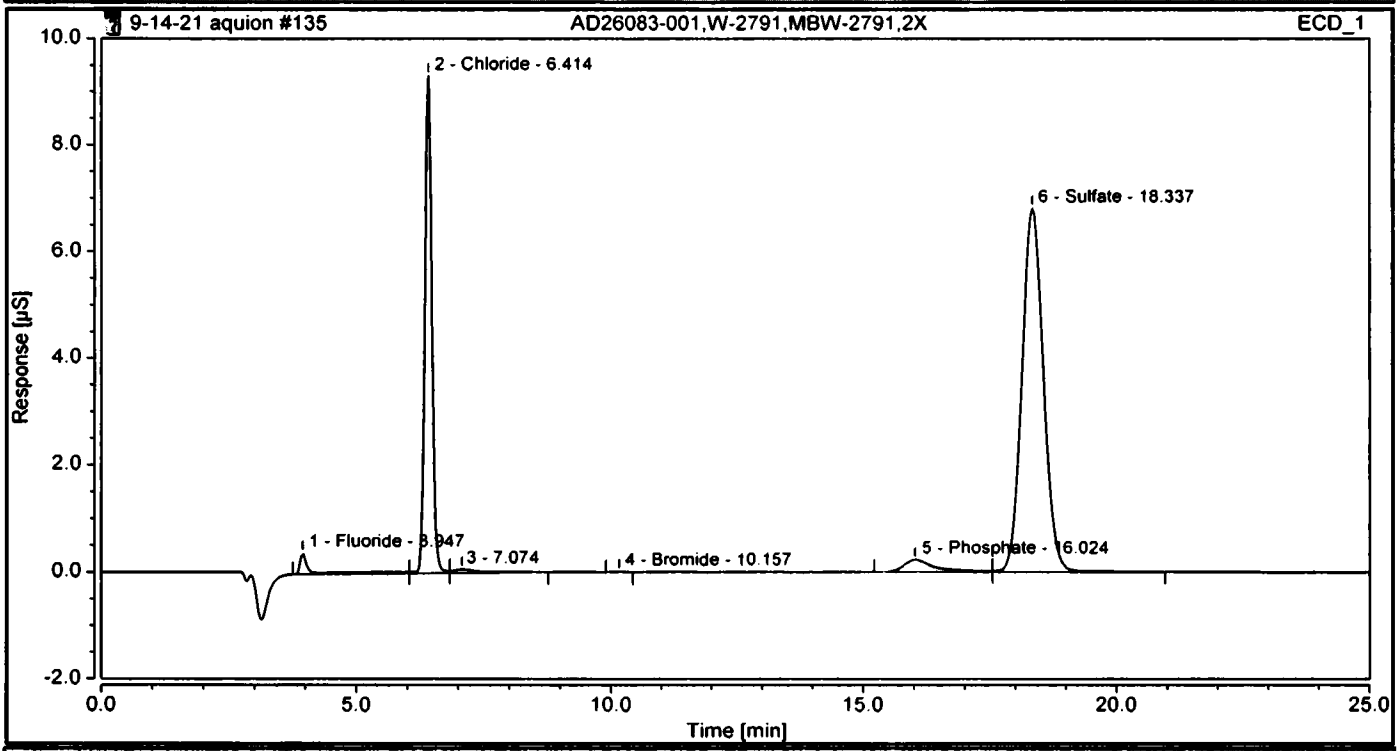
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.841 | 0.006 | 0.087 | n.a. | FALSE | n.a. |
| 2 | | 3.124 | 0.136 | 0.533 | n.a. | TRUE | n.a. |
| 3 | Fluoride | 3.951 | 1.468 | 10.325 | 99.875 | TRUE | 5.8330 |
| 4 | Chloride | 6.667 | 111.701 | 511.914 | 99.668 | TRUE | 574.1034 |
| 5 | | 7.167 | 0.394 | 0.902 | n.a. | TRUE | n.a. |
| 6 | Nitrite | 7.957 | 2.002 | 9.167 | 99.877 | TRUE | 5.6391 |
| 7 | | 8.571 | 0.174 | 0.200 | n.a. | TRUE | n.a. |
| 8 | Bromide | 10.167 | 0.631 | 2.220 | 99.871 | TRUE | 9.0127 |
| 9 | Nitrate | 11.891 | 2.215 | 7.567 | 99.717 | TRUE | 5.3432 |
| 10 | Phosphate | 15.991 | 0.826 | 1.171 | 99.819 | TRUE | 5.3363 |
| 11 | Sulfate | 18.371 | 0.754 | 1.415 | 99.936 | TRUE | 6.3053 |
| **Total:** | | | **120.306** | **545.502** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-001,W-2791,MBW-2791,2X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 17:40** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

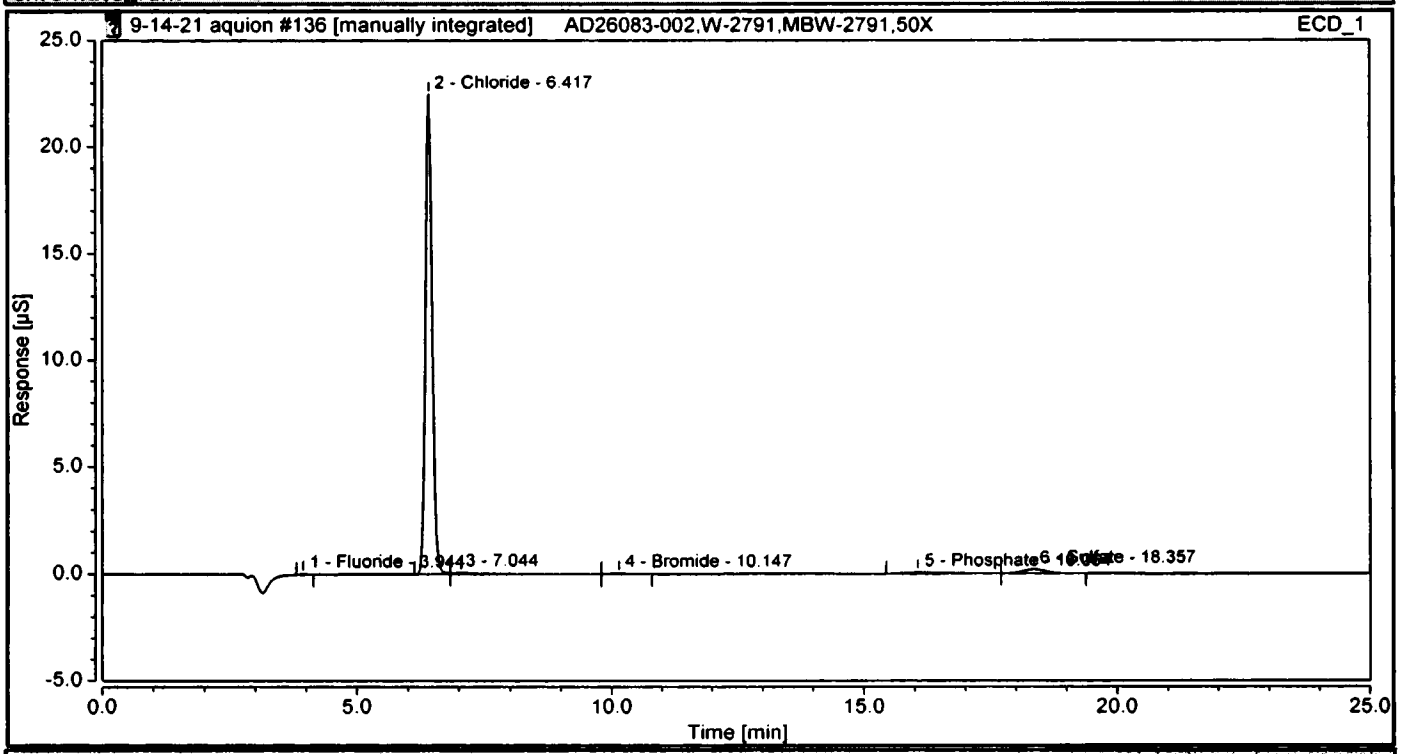
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 0.100 | 0.392 | 99.875 | FALSE | 0.3767 |
| 2 | Chloride | 6.414 | 1.465 | 9.320 | 99.668 | FALSE | 8.7216 |
| 3 | | 7.074 | 0.039 | 0.065 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.157 | 0.002 | 0.009 | 99.871 | FALSE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 16.024 | 0.169 | 0.231 | 99.819 | FALSE | 0.6549 |
| 6 | Sulfate | 18.337 | 3.333 | 6.809 | 99.936 | FALSE | 27.4282 |
| **Total:** | | | **5.107** | **16.827** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-002,W-2791,MBW-2791,50X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 18:07** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

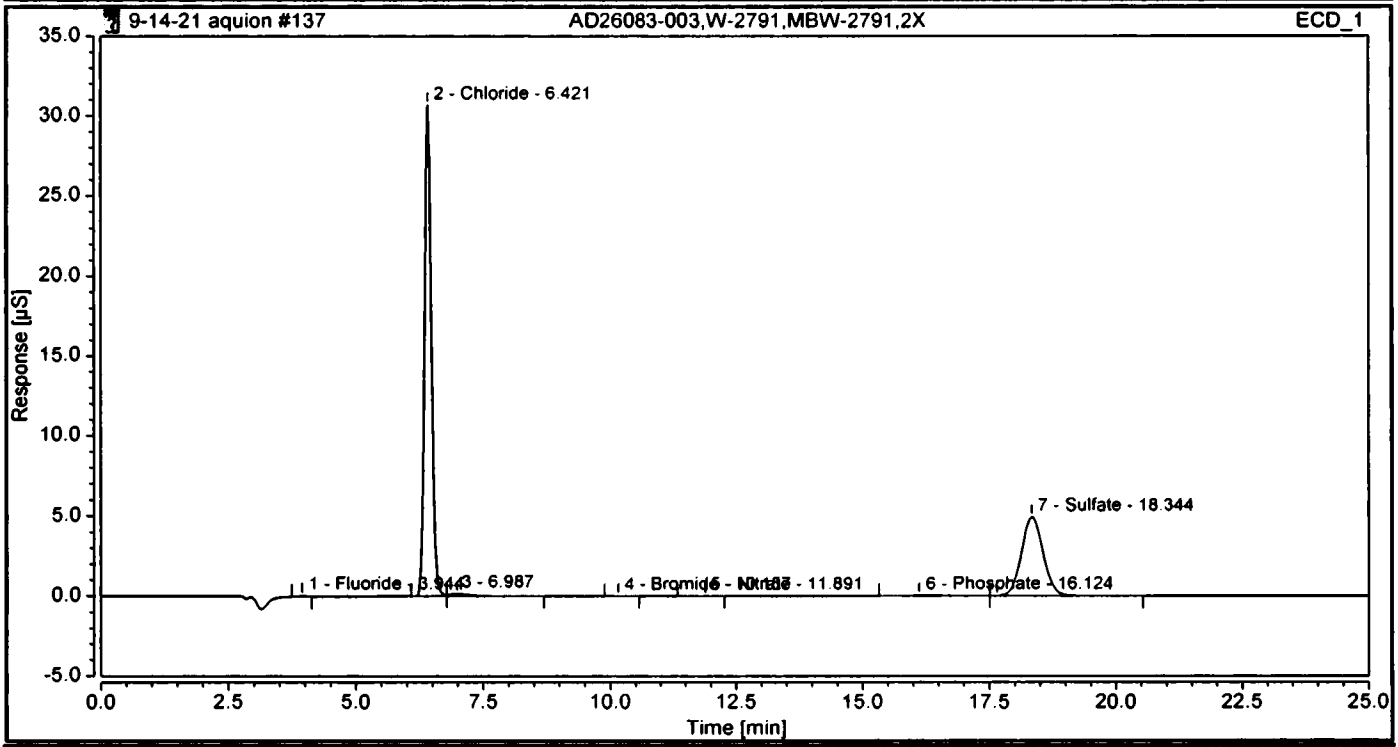
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.007 | 0.054 | 99.875 | TRUE | 0.0048 |
| 2 | Chloride | 6.417 | 3.420 | 22.465 | 99.668 | TRUE | 18.7527 |
| 3 | | 7.044 | 0.033 | 0.071 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.147 | 0.008 | 0.031 | 99.871 | TRUE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 16.064 | 0.055 | 0.063 | 99.819 | FALSE | n.a. |
| 6 | Sulfate | 18.357 | 0.100 | 0.195 | 99.936 | FALSE | 0.9461 |
| **Total:** | | | **3.623** | **22.879** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-003,W-2791,MBW-2791,2X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 18:34** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

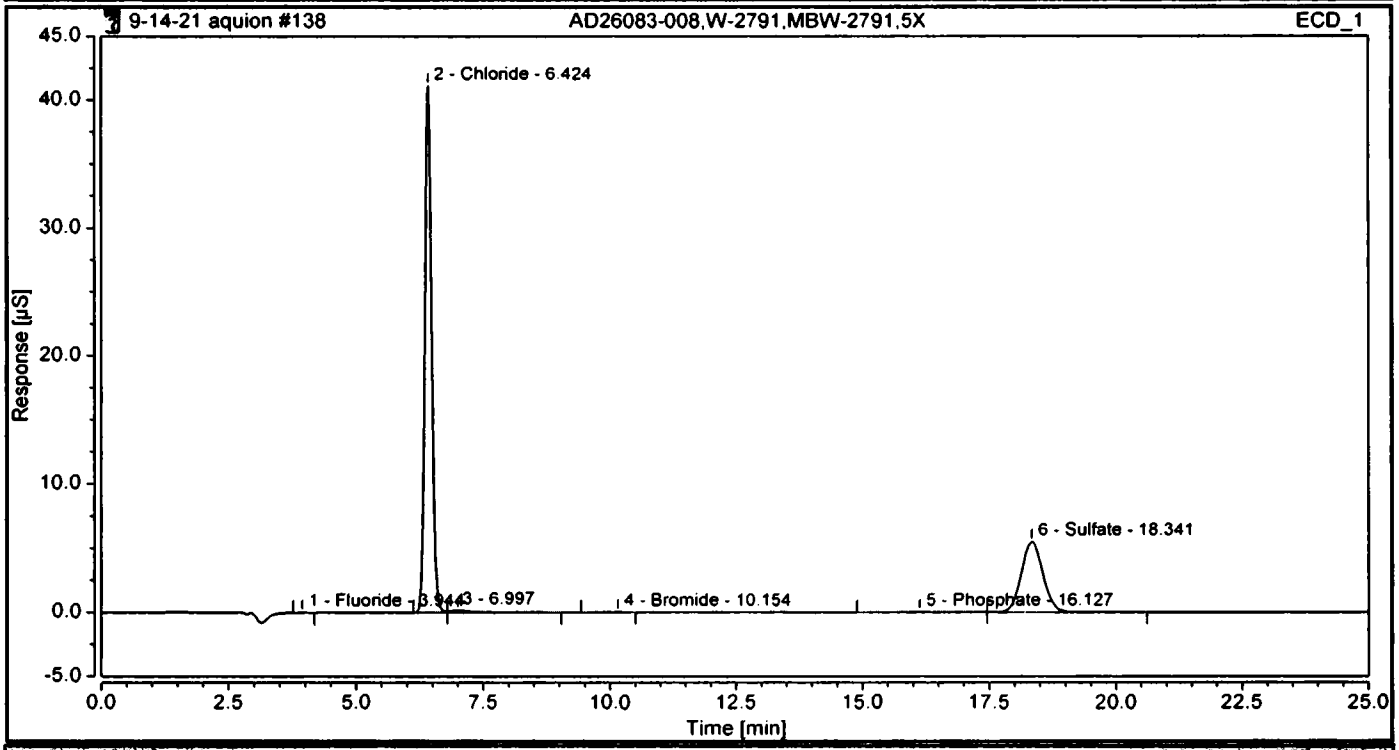
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.008 | 0.065 | 99.875 | FALSE | 0.0108 |
| 2 | Chloride | 6.421 | 4.768 | 30.667 | 99.668 | FALSE | 25.6652 |
| 3 | | 6.987 | 0.064 | 0.150 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.157 | 0.003 | 0.012 | 99.871 | FALSE | n.a. |
| 5 | Nitrate | 11.891 | 0.003 | 0.009 | 99.717 | FALSE | 0.3292 |
| 6 | Phosphate | 16.124 | 0.038 | 0.041 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.344 | 2.417 | 4.932 | 99.936 | FALSE | 19.9260 |
| **Total:** | | | **7.302** | **35.877** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-008,W-2791,MBW-2791,5X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 19:02** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

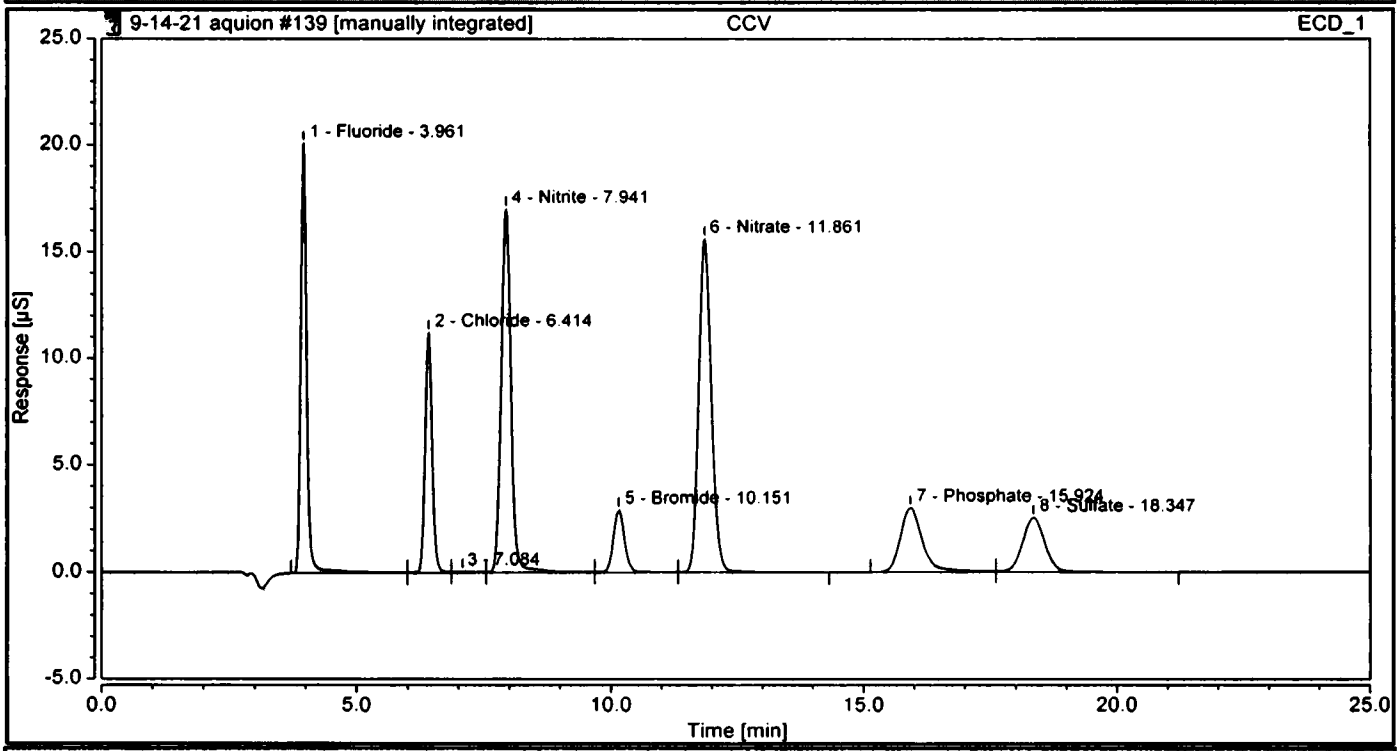
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.003 | 0.022 | 99.875 | FALSE | n.a. |
| 2 | Chloride | 6.424 | 6.312 | 41.125 | 99.668 | FALSE | 33.5843 |
| 3 | | 6.997 | 0.067 | 0.155 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.154 | 0.008 | 0.028 | 99.871 | FALSE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 16.127 | 0.029 | 0.029 | 99.819 | FALSE | n.a. |
| 6 | Sulfate | 18.341 | 2.683 | 5.487 | 99.936 | FALSE | 22.1055 |
| **Total:** | | | **9.102** | **46.846** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 19:29** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

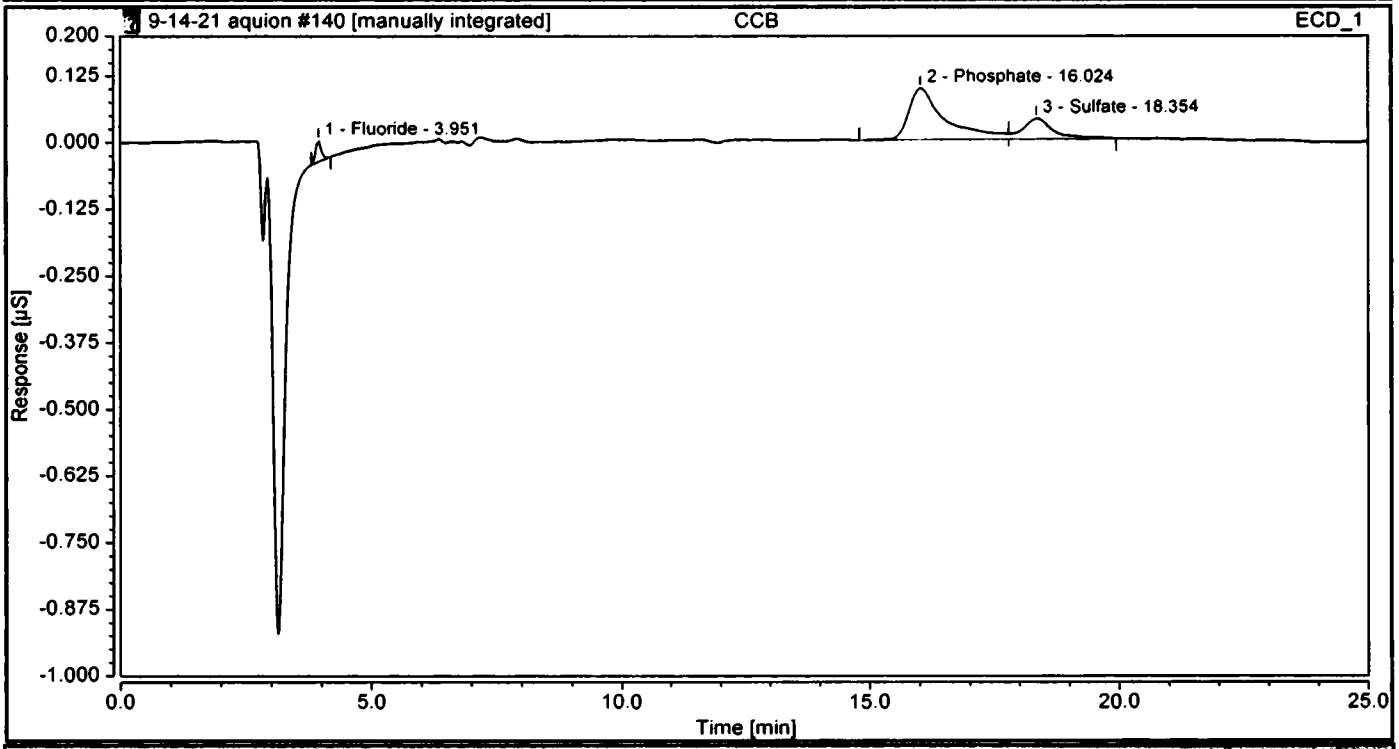
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.706 | 20.112 | 99.875 | TRUE | 10.7714 |
| 2 | Chloride | 6.414 | 1.773 | 11.248 | 99.668 | FALSE | 10.3040 |
| 3 | | 7.084 | 0.035 | 0.067 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.941 | 3.791 | 17.018 | 99.877 | TRUE | 10.6758 |
| 5 | Bromide | 10.151 | 0.756 | 2.922 | 99.871 | FALSE | 10.8351 |
| 6 | Nitrate | 11.861 | 4.507 | 15.629 | 99.717 | FALSE | 10.5417 |
| 7 | Phosphate | 15.924 | 1.538 | 3.000 | 99.819 | FALSE | 10.4163 |
| 8 | Sulfate | 18.347 | 1.292 | 2.543 | 99.936 | FALSE | 10.7103 |
| **Total:** | | | **16.399** | **72.538** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 19:56** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

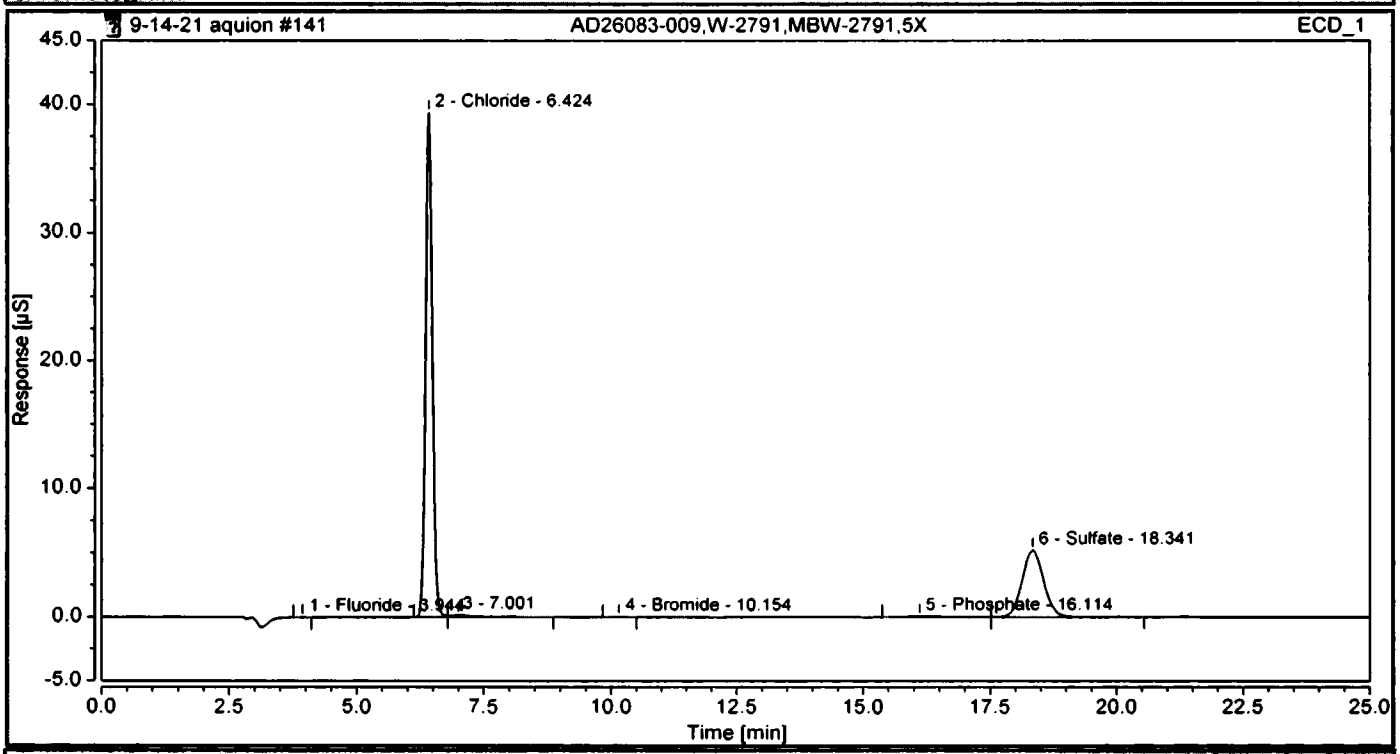
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.951 | 0.005 | 0.039 | 99.875 | TRUE | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 2 | Phosphate | 16.024 | 0.082 | 0.097 | 99.819 | FALSE | 0.0371 |
| 3 | Sulfate | 18.354 | 0.027 | 0.038 | 99.936 | FALSE | 0.3497 |
| **Total:** | | | **0.114** | **0.175** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-009,W-2791,MBW-2791,5X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 20:23** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

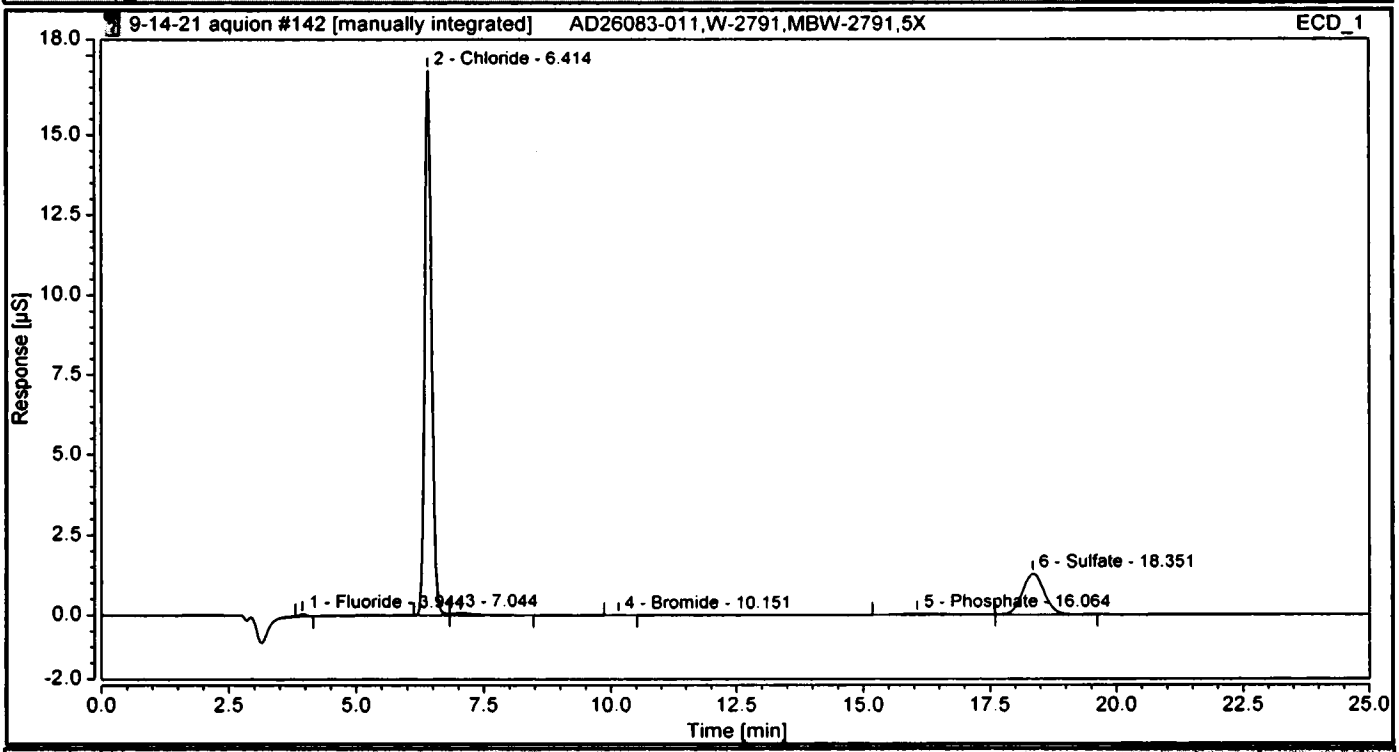
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.003 | 0.020 | 99.875 | FALSE | n.a. |
| 2 | Chloride | 6.424 | 6.023 | 39.362 | 99.668 | FALSE | 32.1032 |
| 3 | | 7.001 | 0.064 | 0.149 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.154 | 0.006 | 0.026 | 99.871 | FALSE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 16.114 | 0.042 | 0.045 | 99.819 | FALSE | n.a. |
| 6 | Sulfate | 18.341 | 2.543 | 5.193 | 99.936 | FALSE | 20.9575 |
| **Total:** | | | **8.680** | **44.795** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-011,W-2791,MBW-2791,5X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 20:50** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

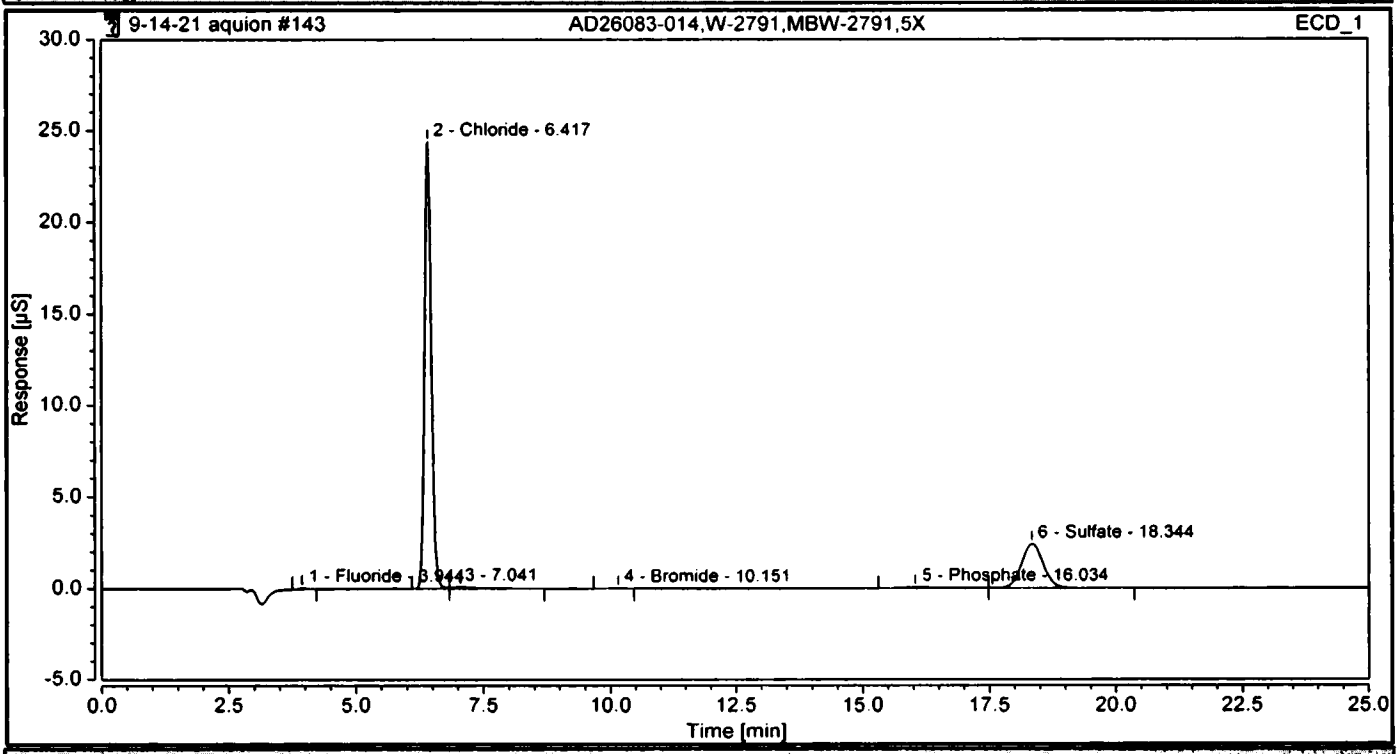
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.009 | 0.071 | 99.875 | TRUE | 0.0132 |
| 2 | Chloride | 6.414 | 2.620 | 17.037 | 99.668 | TRUE | 14.6500 |
| 3 | | 7.044 | 0.030 | 0.072 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.151 | 0.004 | 0.015 | 99.871 | TRUE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 16.064 | 0.035 | 0.039 | 99.819 | FALSE | n.a. |
| 6 | Sulfate | 18.351 | 0.635 | 1.281 | 99.936 | FALSE | 5.3328 |
| **Total:** | | | **3.333** | **18.515** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-014,W-2791,MBW-2791,5X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 21:17** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

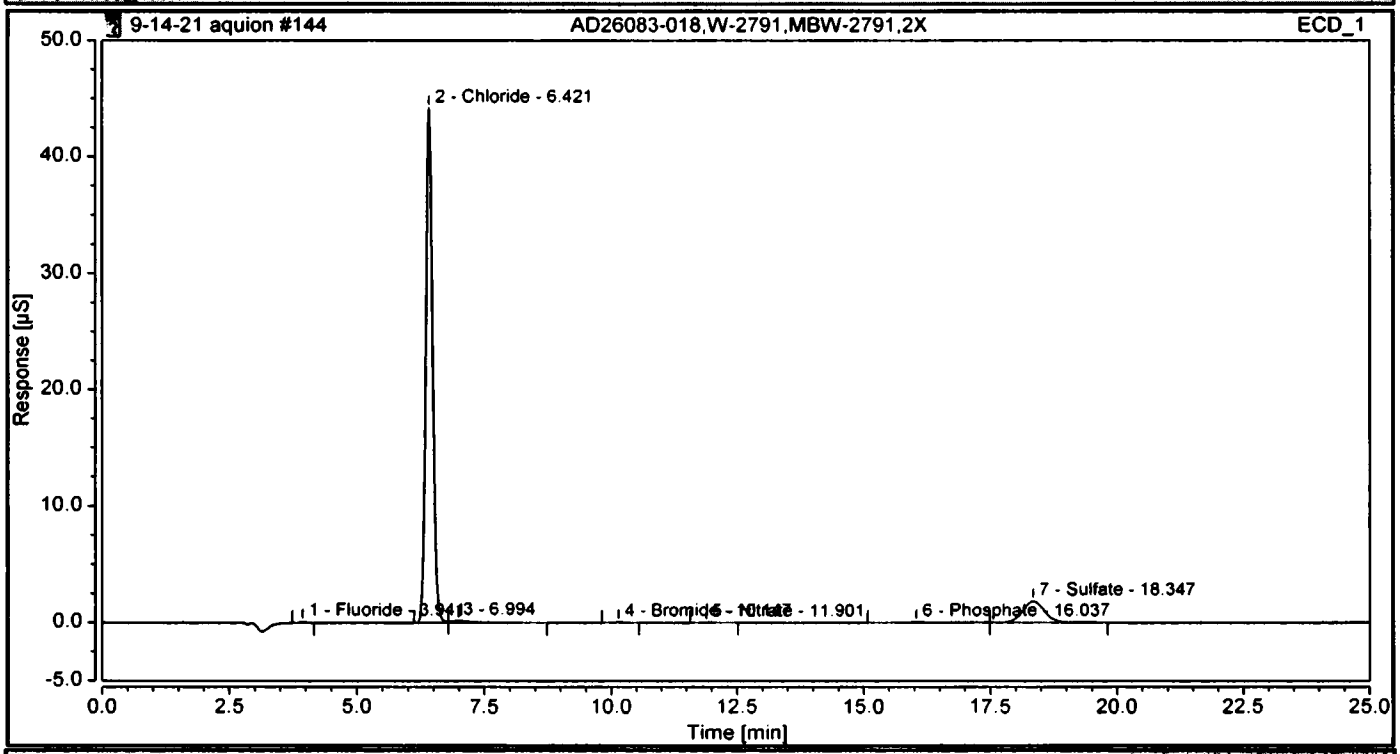
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.008 | 0.064 | 99.875 | FALSE | 0.0108 |
| 2 | Chloride | 6.417 | 3.716 | 24.397 | 99.668 | FALSE | 20.2707 |
| 3 | | 7.041 | 0.034 | 0.080 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.151 | 0.005 | 0.020 | 99.871 | FALSE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 16.034 | 0.048 | 0.060 | 99.819 | FALSE | n.a. |
| 6 | Sulfate | 18.344 | 1.195 | 2.414 | 99.936 | FALSE | 9.9170 |
| **Total:** | | | **5.007** | **27.035** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-018,W-2791,MBW-2791,2X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 21:45** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

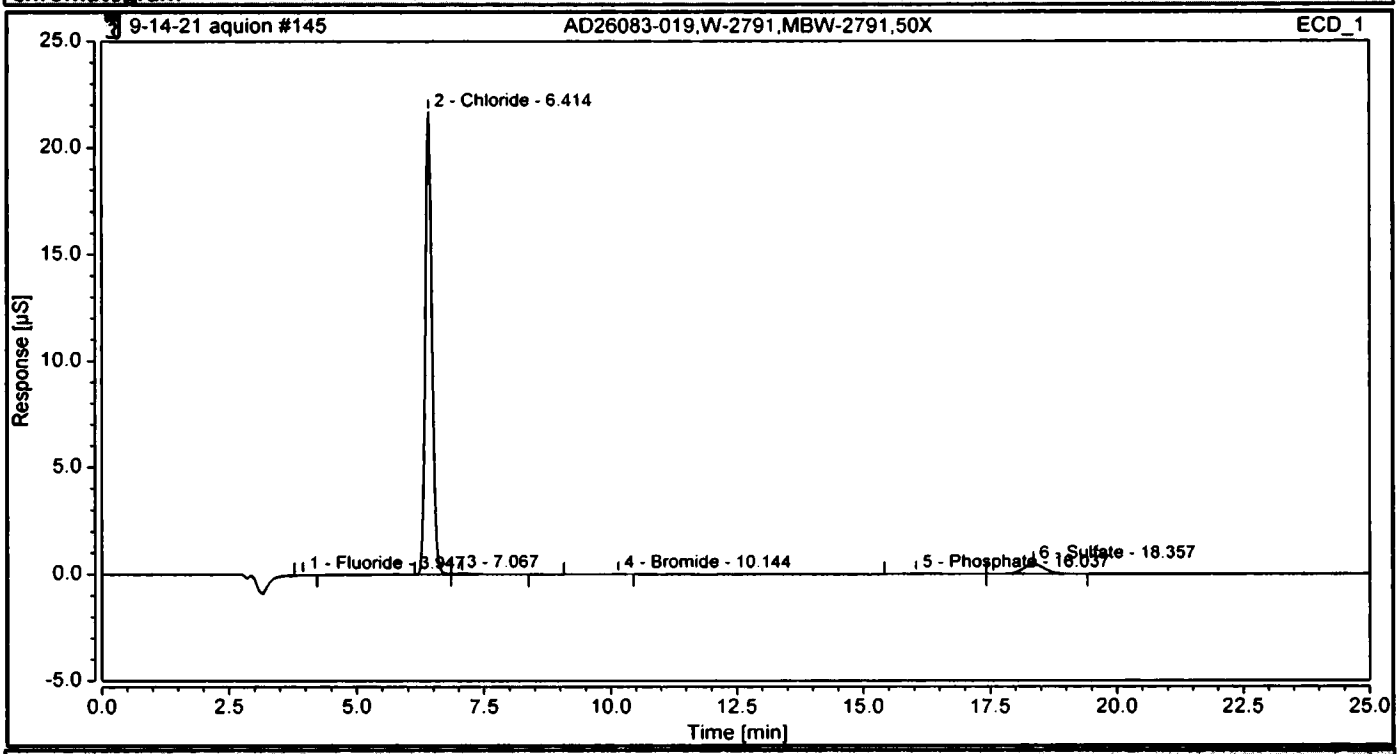
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.012 | 0.100 | 99.875 | FALSE | 0.0277 |
| 2 | Chloride | 6.421 | 6.750 | 44.158 | 99.668 | FALSE | 35.8310 |
| 3 | | 6.994 | 0.066 | 0.152 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.147 | 0.010 | 0.040 | 99.871 | FALSE | n.a. |
| 5 | Nitrate | 11.901 | 0.004 | 0.013 | 99.717 | FALSE | 0.3307 |
| 6 | Phosphate | 16.037 | 0.032 | 0.036 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.347 | 0.900 | 1.814 | 99.936 | FALSE | 7.4990 |
| **Total:** | | | **7.775** | **46.313** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-019,W-2791,MBW-2791,50X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 22:12** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

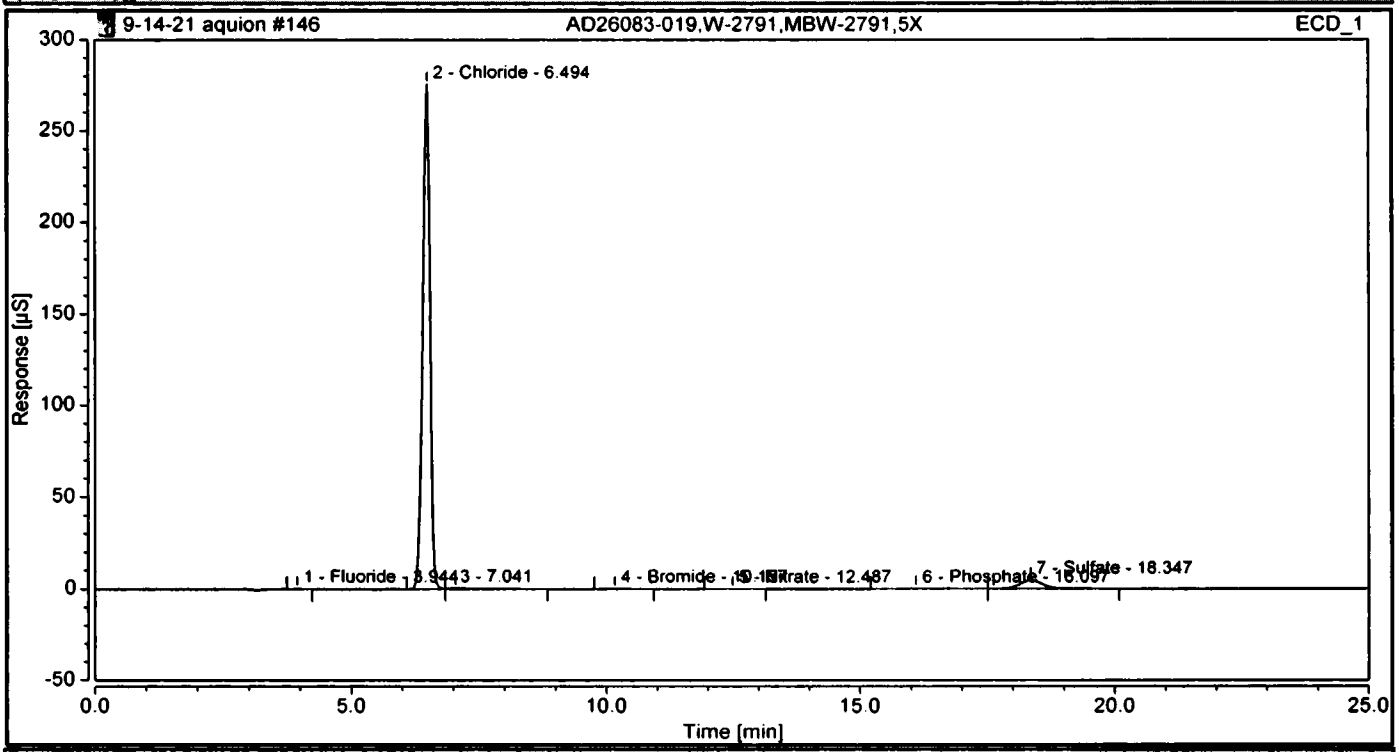
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 0.002 | 0.014 | 99.875 | FALSE | n.a. |
| 2 | Chloride | 6.414 | 3.294 | 21.669 | 99.668 | FALSE | 18.1057 |
| 3 | | 7.067 | 0.021 | 0.044 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.144 | 0.005 | 0.019 | 99.871 | FALSE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 16.037 | 0.027 | 0.032 | 99.819 | FALSE | n.a. |
| 6 | Sulfate | 18.357 | 0.226 | 0.449 | 99.936 | FALSE | 1.9791 |
| **Total:** | | | **3.575** | **22.226** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-019,W-2791,MBW-2791,5X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 22:39** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

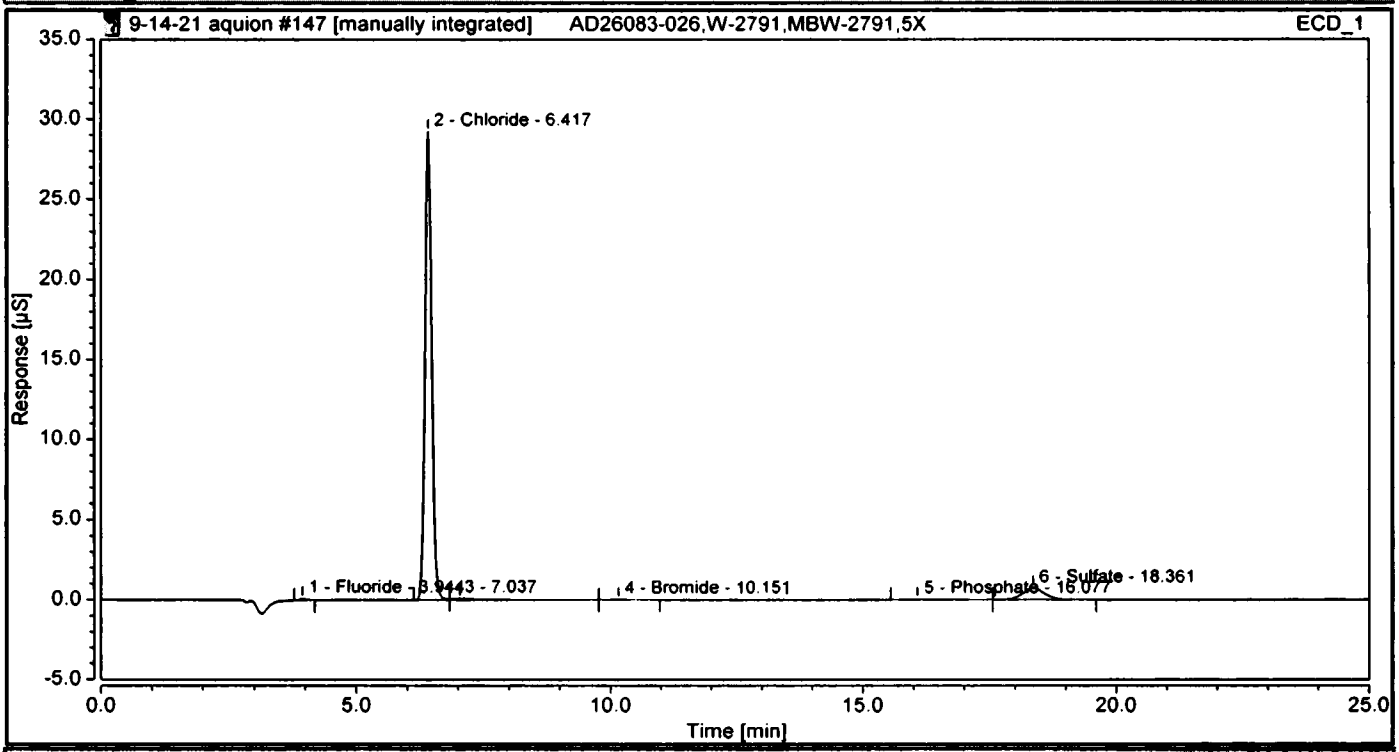
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.015 | 0.115 | 99.875 | FALSE | 0.0367 |
| 2 | Chloride | 6.494 | 44.959 | 275.667 | 99.668 | FALSE | 231.7948 |
| 3 | | 7.041 | 0.155 | 0.377 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.157 | 0.046 | 0.183 | 99.871 | FALSE | 0.4846 |
| 5 | Nitrate | 12.487 | 0.004 | 0.005 | 99.717 | FALSE | 0.3316 |
| 6 | Phosphate | 16.097 | 0.021 | 0.026 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.347 | 2.265 | 4.628 | 99.936 | FALSE | 18.6847 |
| **Total:** | | | **47.464** | **281.002** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-026,W-2791,MBW-2791,5X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **21/Sep/21 23:06** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

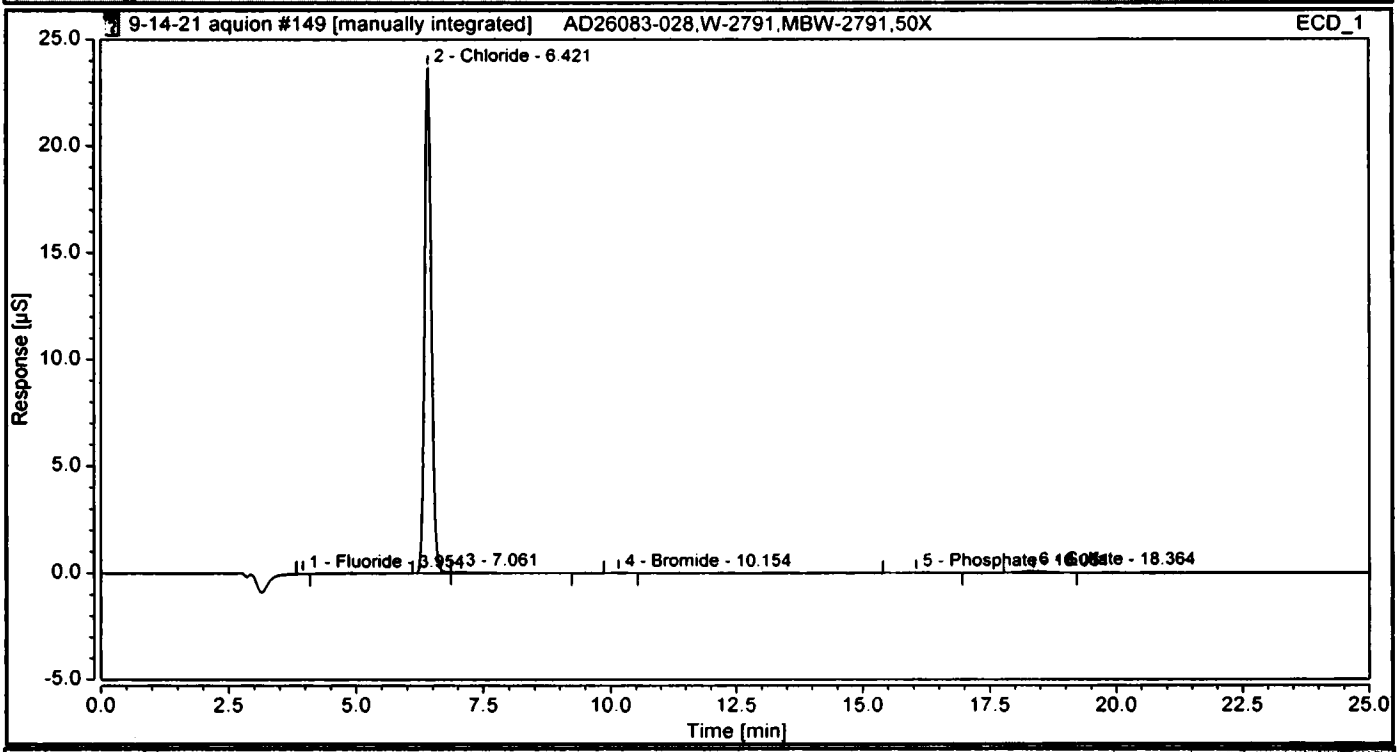
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.011 | 0.088 | 99.875 | TRUE | 0.0222 |
| 2 | Chloride | 6.417 | 4.430 | 29.213 | 99.668 | TRUE | 23.9320 |
| 3 | | 7.037 | 0.038 | 0.082 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.151 | 0.008 | 0.026 | 99.871 | TRUE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 16.077 | 0.019 | 0.022 | 99.819 | FALSE | n.a. |
| 6 | Sulfate | 18.361 | 0.354 | 0.709 | 99.936 | FALSE | 3.0262 |
| **Total:** | | | **4.860** | **30.140** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-028,W-2791,MBW-2791,50X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 00:01** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

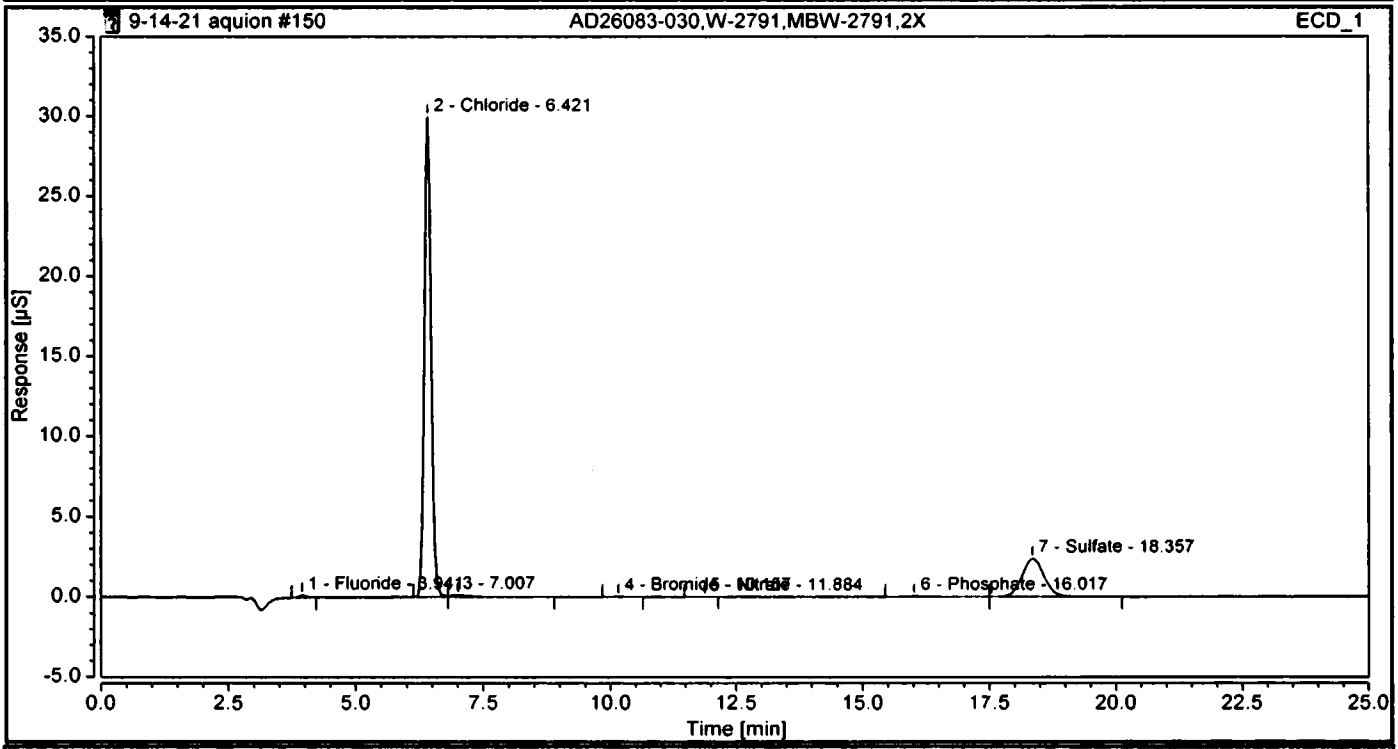
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.954 | 0.001 | 0.008 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.421 | 3.593 | 23.677 | 99.668 | TRUE | 19.6399 |
| 3 | | 7.061 | 0.025 | 0.047 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.154 | 0.005 | 0.020 | 99.871 | TRUE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 16.051 | 0.009 | 0.015 | 99.819 | FALSE | n.a. |
| 6 | Sulfate | 18.364 | 0.038 | 0.078 | 99.936 | FALSE | 0.4391 |
| **Total:** | | | **3.672** | **23.845** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-030,W-2791,MBW-2791,2X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 00:28** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

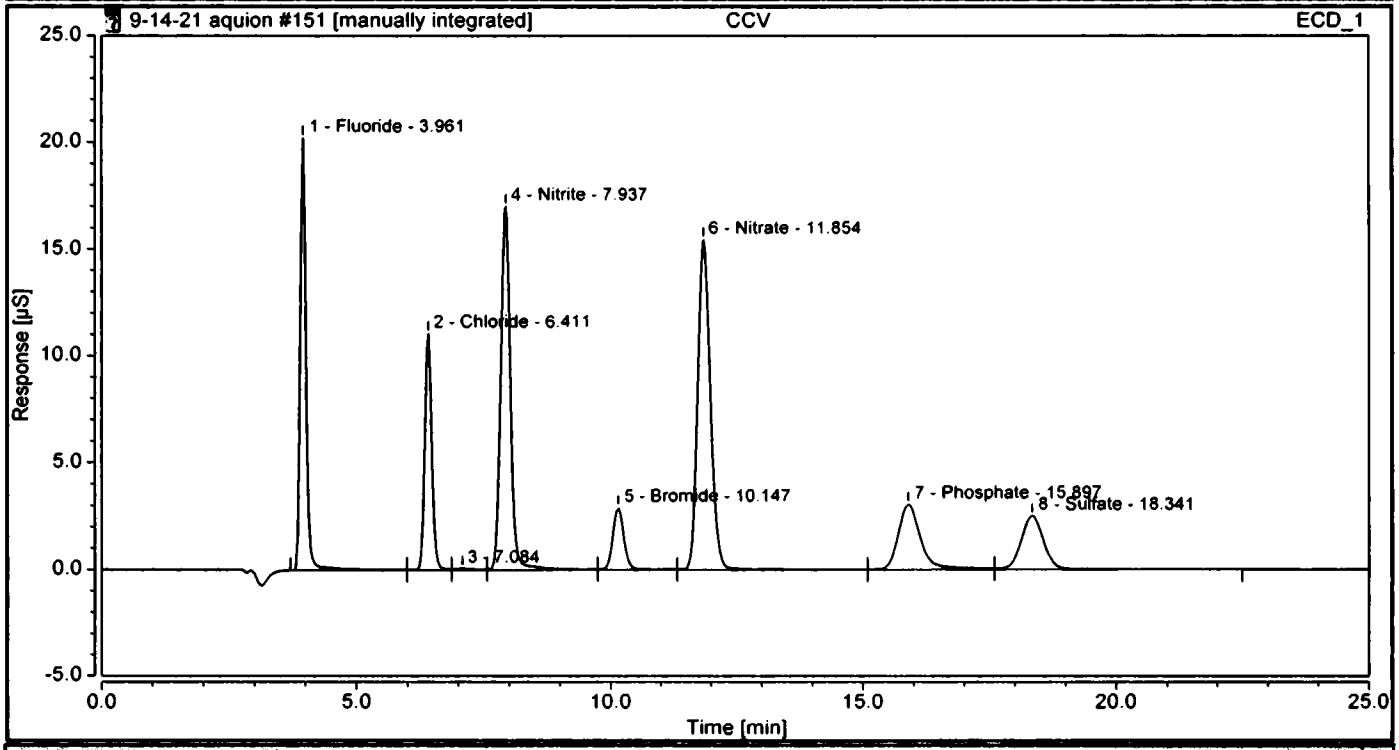
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.017 | 0.138 | 99.875 | FALSE | 0.0468 |
| 2 | Chloride | 6.421 | 4.579 | 29.953 | 99.668 | FALSE | 24.6935 |
| 3 | | 7.007 | 0.049 | 0.113 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.157 | 0.006 | 0.025 | 99.871 | FALSE | n.a. |
| 5 | Nitrate | 11.884 | 0.002 | 0.006 | 99.717 | FALSE | 0.3256 |
| 6 | Phosphate | 16.017 | 0.030 | 0.034 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.357 | 1.167 | 2.357 | 99.936 | FALSE | 9.6897 |
| **Total:** | | | **5.850** | **32.626** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 00:55** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

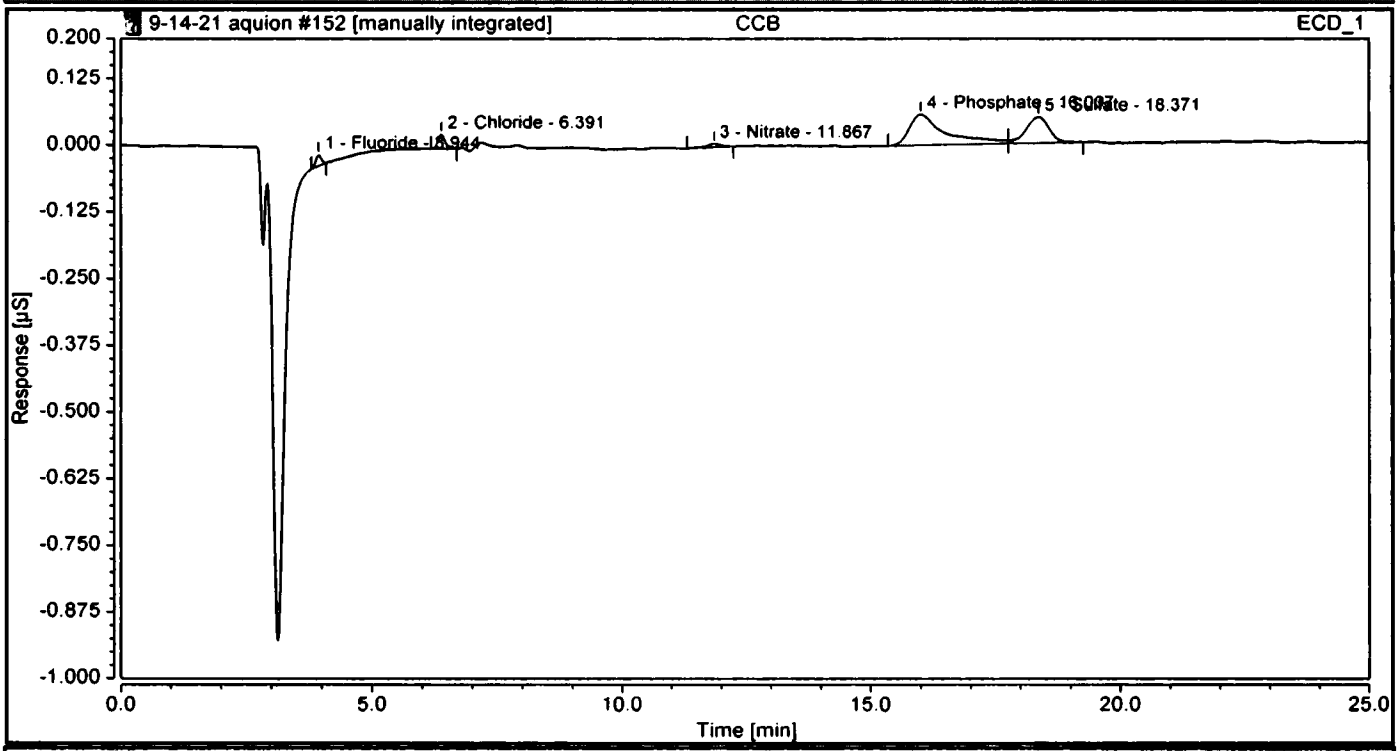
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.685 | 20.221 | 99.875 | TRUE | 10.6899 |
| 2 | Chloride | 6.411 | 1.747 | 11.070 | 99.668 | FALSE | 10.1685 |
| 3 | | 7.084 | 0.036 | 0.068 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.937 | 3.790 | 17.011 | 99.877 | TRUE | 10.6732 |
| 5 | Bromide | 10.147 | 0.755 | 2.903 | 99.871 | FALSE | 10.8192 |
| 6 | Nitrate | 11.854 | 4.486 | 15.447 | 99.717 | FALSE | 10.4938 |
| 7 | Phosphate | 15.897 | 1.581 | 3.049 | 99.819 | FALSE | 10.7174 |
| 8 | Sulfate | 18.341 | 1.305 | 2.506 | 99.936 | FALSE | 10.8182 |
| **Total:** | | | **16.385** | **72.275** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 01:22** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

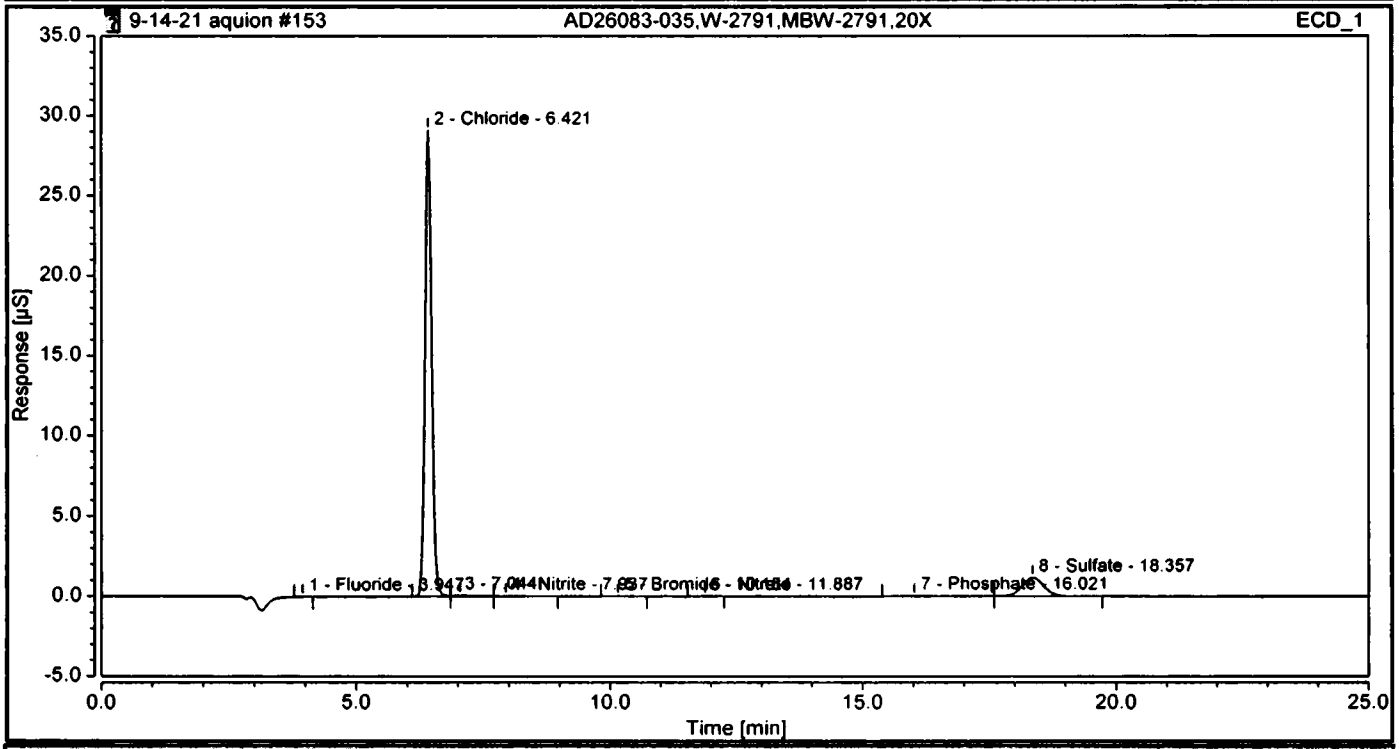
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.003 | 0.021 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.391 | 0.004 | 0.027 | 99.668 | TRUE | 1.2327 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| 3 | Nitrate | 11.867 | 0.002 | 0.006 | 99.717 | FALSE | 0.3268 |
| 4 | Phosphate | 16.007 | 0.049 | 0.057 | 99.819 | FALSE | n.a. |
| 5 | Sulfate | 18.371 | 0.026 | 0.049 | 99.936 | FALSE | 0.3426 |
| **Total:** | | | **0.084** | **0.160** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-035,W-2791,MBW-2791,20X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 01:49** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

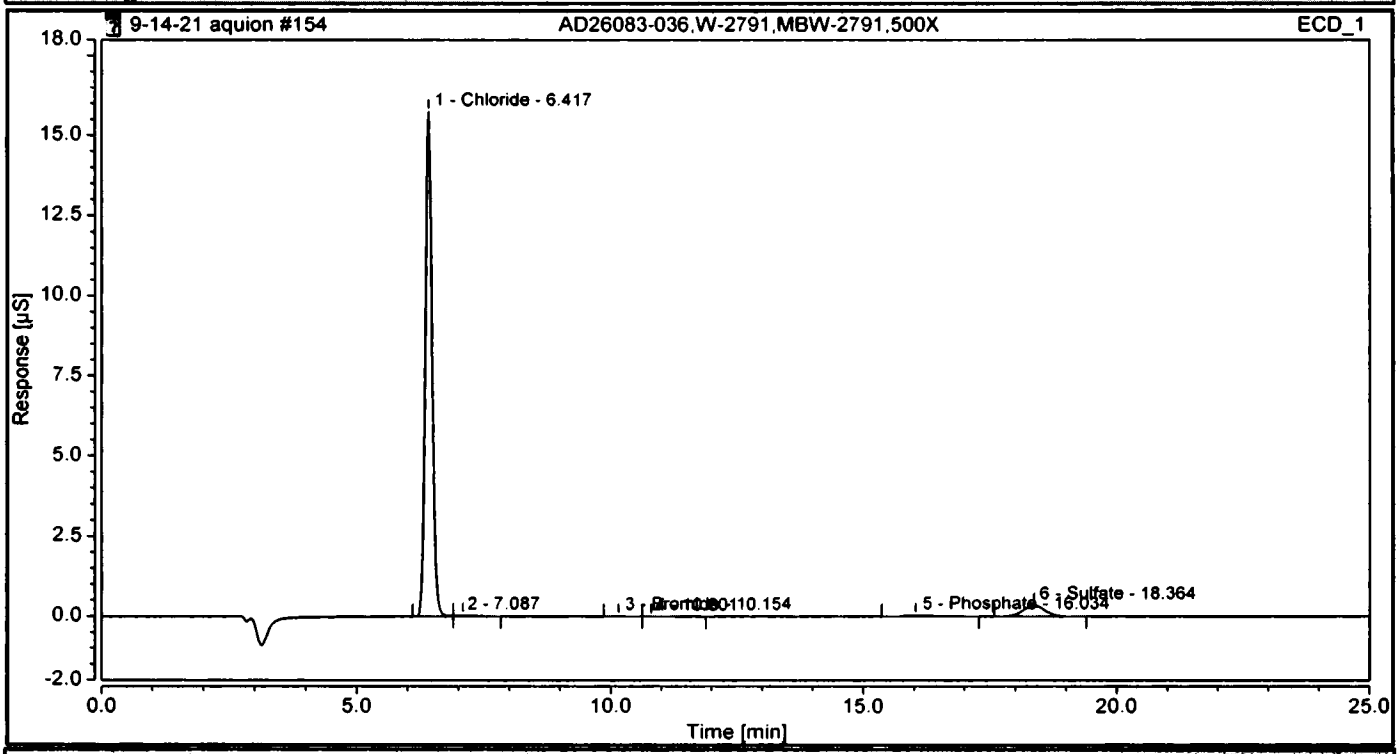
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 0.002 | 0.019 | 99.875 | FALSE | n.a. |
| 2 | Chloride | 6.421 | 4.401 | 29.091 | 99.668 | FALSE | 23.7843 |
| 3 | | 7.044 | 0.022 | 0.051 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.937 | 0.004 | 0.008 | 99.877 | FALSE | 0.0182 |
| 5 | Bromide | 10.154 | 0.006 | 0.022 | 99.871 | FALSE | n.a. |
| 6 | Nitrate | 11.887 | 0.007 | 0.025 | 99.717 | FALSE | 0.3386 |
| 7 | Phosphate | 16.021 | 0.030 | 0.035 | 99.819 | FALSE | n.a. |
| 8 | Sulfate | 18.357 | 0.573 | 1.155 | 99.936 | FALSE | 4.8185 |
| **Total:** | | | **5.046** | **30.406** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-036,W-2791,MBW-2791,500X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 02:17** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

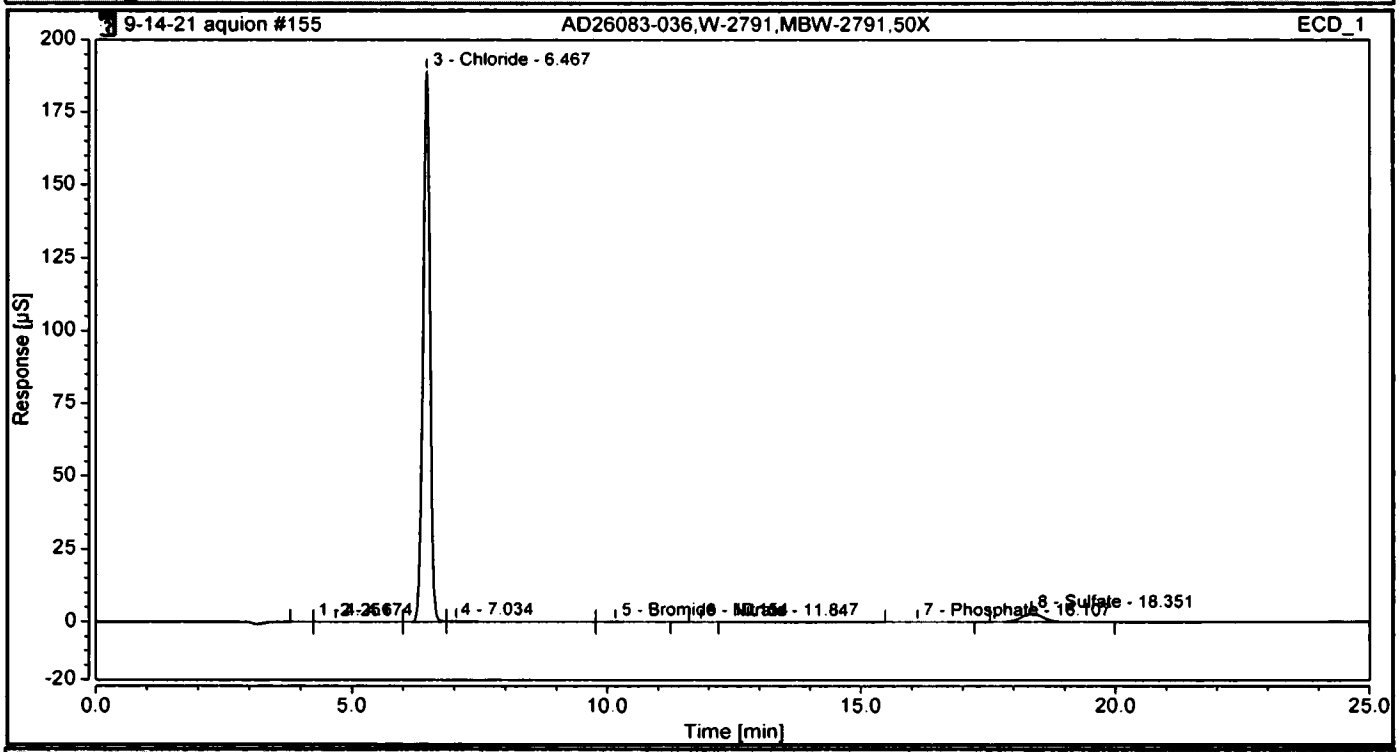
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| 1 | Chloride | 6.417 | 2.420 | 15.744 | 99.668 | FALSE | 13.6201 |
| 2 | | 7.087 | 0.011 | 0.027 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 3 | Bromide | 10.154 | 0.004 | 0.013 | 99.871 | FALSE | n.a. |
| 4 | | 10.801 | 0.003 | 0.002 | n.a. | FALSE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 16.034 | 0.021 | 0.030 | 99.819 | FALSE | n.a. |
| 6 | Sulfate | 18.364 | 0.167 | 0.337 | 99.936 | FALSE | 1.4962 |
| **Total:** | | | **2.625** | **16.154** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-036,W-2791,MBW-2791,50X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 02:44** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

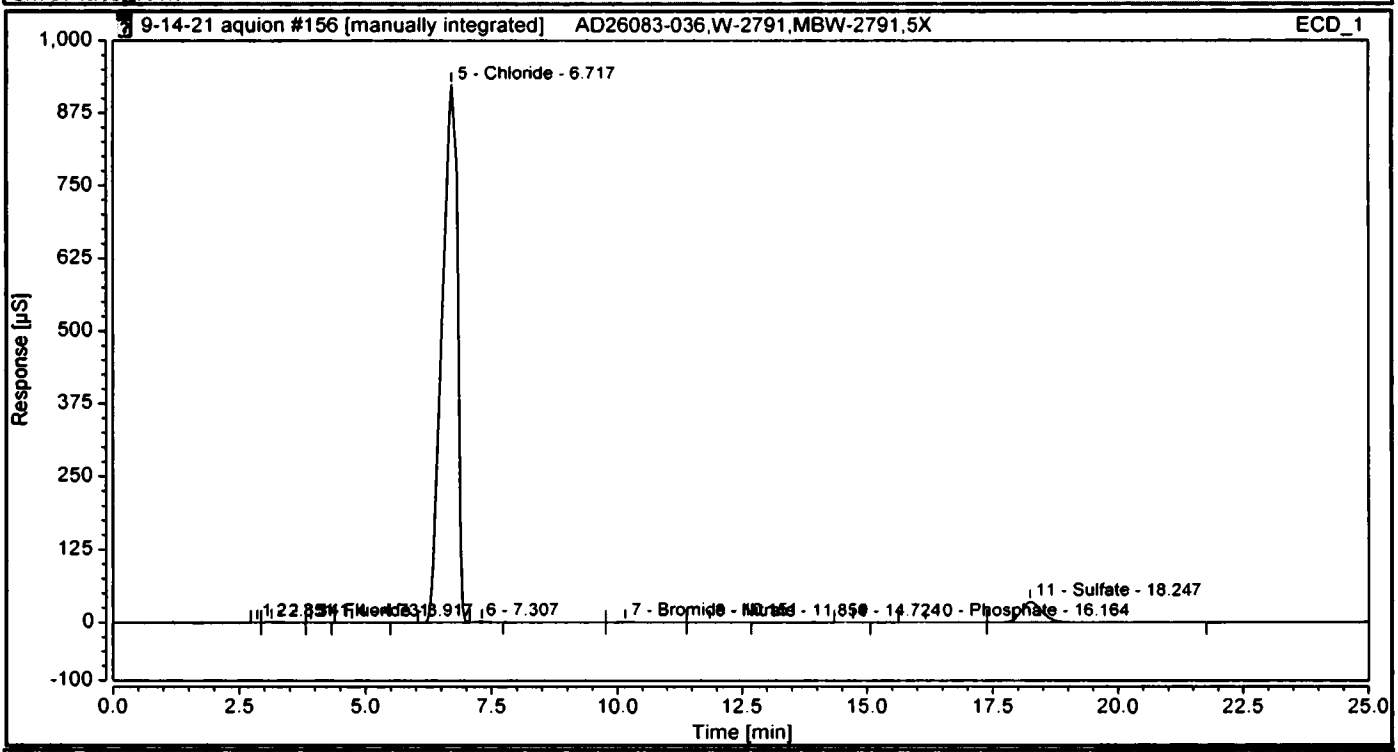
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| 1 | | 4.251 | 0.004 | 0.012 | n.a. | FALSE | n.a. |
| 2 | | 4.674 | 0.040 | 0.022 | n.a. | FALSE | n.a. |
| 3 | Chloride | 6.467 | 29.347 | 189.215 | 99.668 | FALSE | 151.7250 |
| 4 | | 7.034 | 0.148 | 0.264 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 5 | Bromide | 10.154 | 0.038 | 0.128 | 99.871 | FALSE | 0.3676 |
| 6 | Nitrate | 11.847 | 0.001 | 0.002 | 99.717 | FALSE | 0.3233 |
| 7 | Phosphate | 16.107 | 0.012 | 0.017 | 99.819 | FALSE | n.a. |
| 8 | Sulfate | 18.351 | 1.396 | 2.843 | 99.936 | FALSE | 11.5629 |
| **Total:** | | | **30.984** | **192.503** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-036,W-2791,MBW-2791,5X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 03:11** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

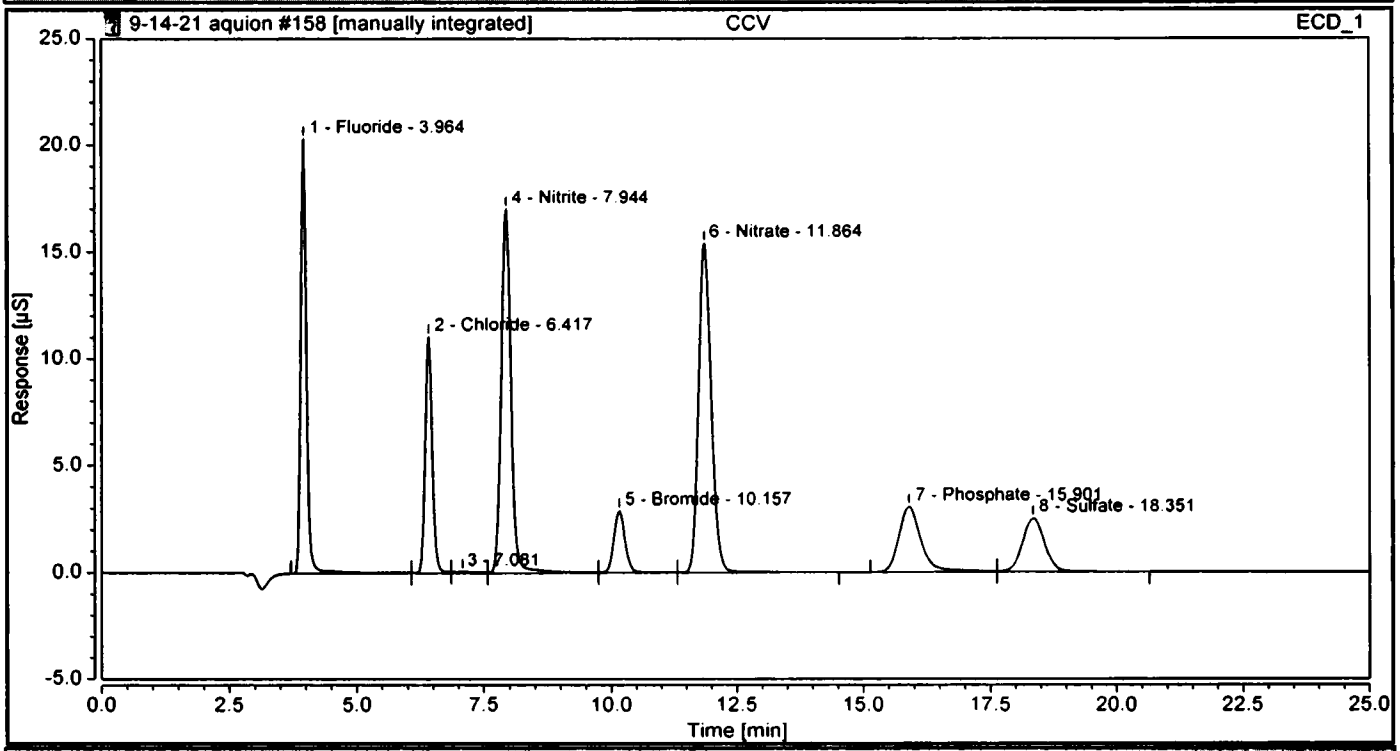
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.851 | 0.019 | 0.190 | n.a. | FALSE | n.a. |
| 2 | | 3.141 | 0.262 | 0.870 | n.a. | FALSE | n.a. |
| 3 | Fluoride | 3.917 | 0.008 | 0.043 | 99.875 | FALSE | 0.0114 |
| 4 | | 4.731 | 0.004 | 0.008 | n.a. | FALSE | n.a. |
| 5 | Chloride | 6.717 | 326.329 | 923.249 | 99.668 | TRUE | 1674.8880 |
| 6 | | 7.307 | 0.211 | 0.685 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 7 | Bromide | 10.151 | 0.314 | 1.244 | 99.871 | FALSE | 4.3920 |
| 8 | Nitrate | 11.854 | 0.009 | 0.024 | 99.717 | FALSE | 0.3420 |
| 9 | | 14.724 | 0.004 | 0.014 | n.a. | FALSE | n.a. |
| 10 | Phosphate | 16.164 | 0.013 | 0.015 | 99.819 | FALSE | n.a. |
| 11 | Sulfate | 18.247 | 16.438 | 34.611 | 99.936 | FALSE | 134.7825 |
| **Total:** | | | **343.611** | **960.951** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 04:05** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

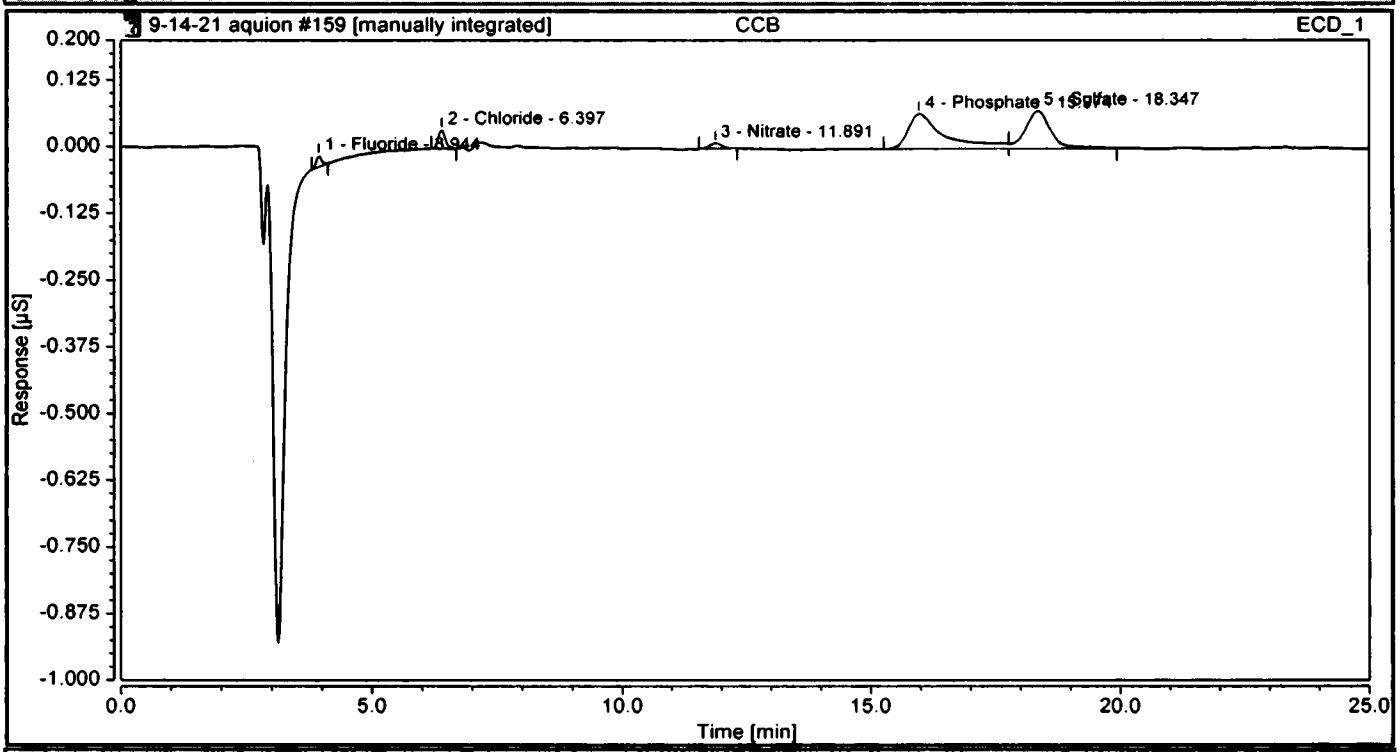
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.964 | 2.692 | 20.329 | 99.875 | TRUE | 10.7179 |
| 2 | Chloride | 6.417 | 1.748 | 11.067 | 99.668 | FALSE | 10.1753 |
| 3 | | 7.081 | 0.035 | 0.066 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.944 | 3.782 | 17.012 | 99.877 | TRUE | 10.6505 |
| 5 | Bromide | 10.157 | 0.742 | 2.891 | 99.871 | FALSE | 10.6315 |
| 6 | Nitrate | 11.864 | 4.443 | 15.407 | 99.717 | FALSE | 10.3957 |
| 7 | Phosphate | 15.901 | 1.560 | 3.055 | 99.819 | FALSE | 10.5691 |
| 8 | Sulfate | 18.351 | 1.271 | 2.514 | 99.936 | FALSE | 10.5388 |
| **Total:** | | | **16.274** | **72.341** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 04:33** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

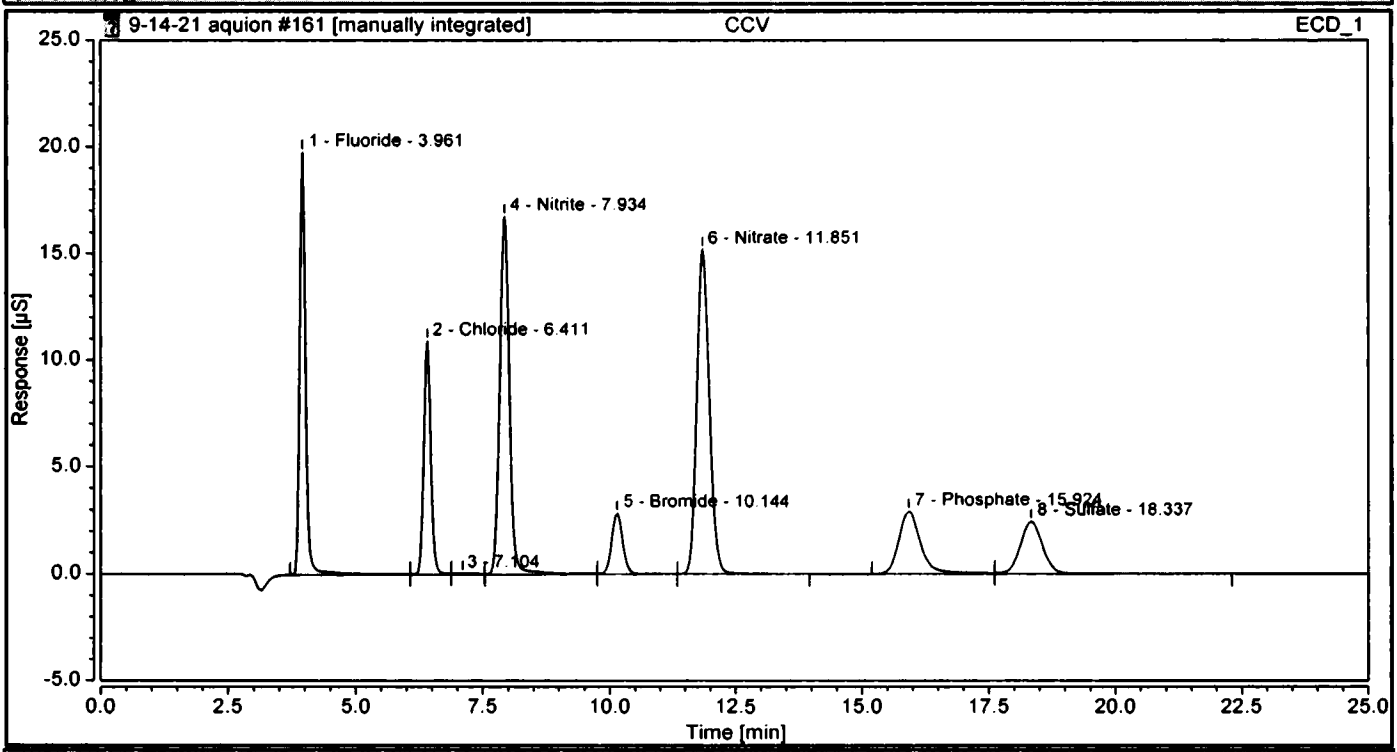
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.002 | 0.020 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.397 | 0.005 | 0.034 | 99.668 | TRUE | 1.2385 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| 3 | Nitrate | 11.891 | 0.003 | 0.010 | 99.717 | TRUE | 0.3283 |
| 4 | Phosphate | 15.974 | 0.056 | 0.065 | 99.819 | FALSE | n.a. |
| 5 | Sulfate | 18.347 | 0.041 | 0.070 | 99.936 | FALSE | 0.4668 |
| **Total:** | | | **0.108** | **0.200** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 11:20** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

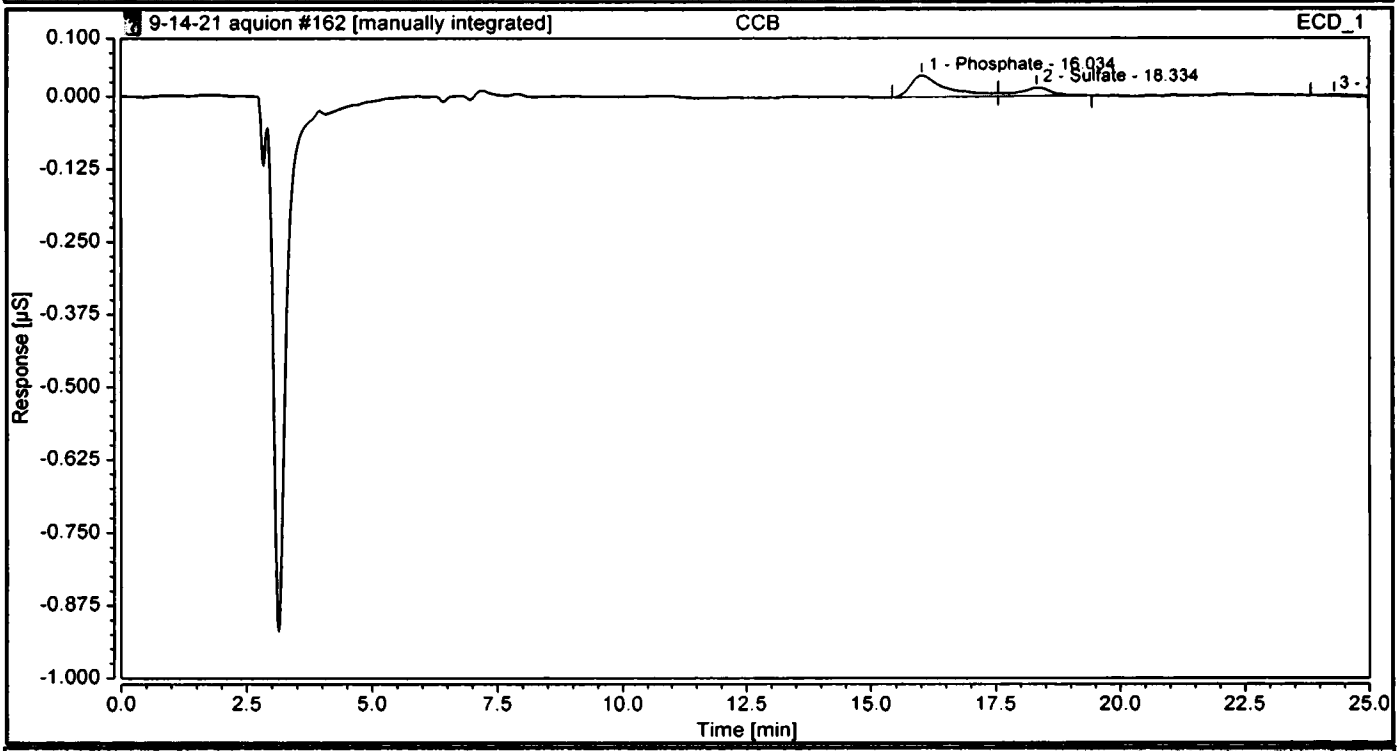
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.649 | 19.771 | 99.875 | TRUE | 10.5435 |
| 2 | Chloride | 6.411 | 1.715 | 10.915 | 99.668 | FALSE | 10.0065 |
| 3 | | 7.104 | 0.027 | 0.052 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.934 | 3.704 | 16.756 | 99.877 | TRUE | 10.4312 |
| 5 | Bromide | 10.144 | 0.724 | 2.848 | 99.871 | FALSE | 10.3728 |
| 6 | Nitrate | 11.851 | 4.361 | 15.217 | 99.717 | FALSE | 10.2087 |
| 7 | Phosphate | 15.924 | 1.475 | 2.917 | 99.819 | FALSE | 9.9666 |
| 8 | Sulfate | 18.337 | 1.253 | 2.443 | 99.936 | FALSE | 10.3935 |
| **Total:** | | | **15.908** | **70.920** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 12:01** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

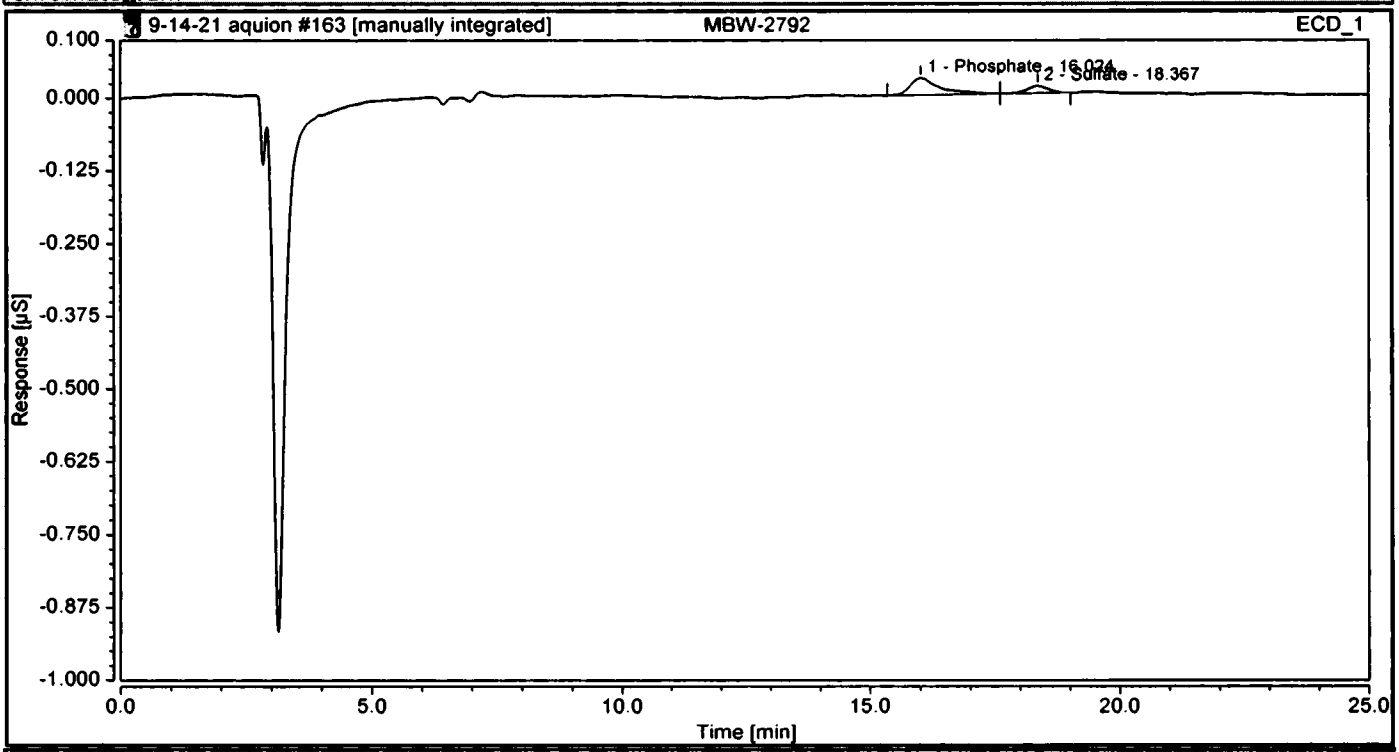
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 1 | Phosphate | 16.034 | 0.031 | 0.037 | 99.819 | FALSE | n.a. |
| 2 | Sulfate | 18.334 | 0.011 | 0.014 | 99.936 | FALSE | 0.2161 |
| 3 | | 24.307 | 0.002 | 0.002 | n.a. | FALSE | n.a. |
| **Total:** | | | **0.043** | **0.053** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **MBW-2792** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 12:28** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

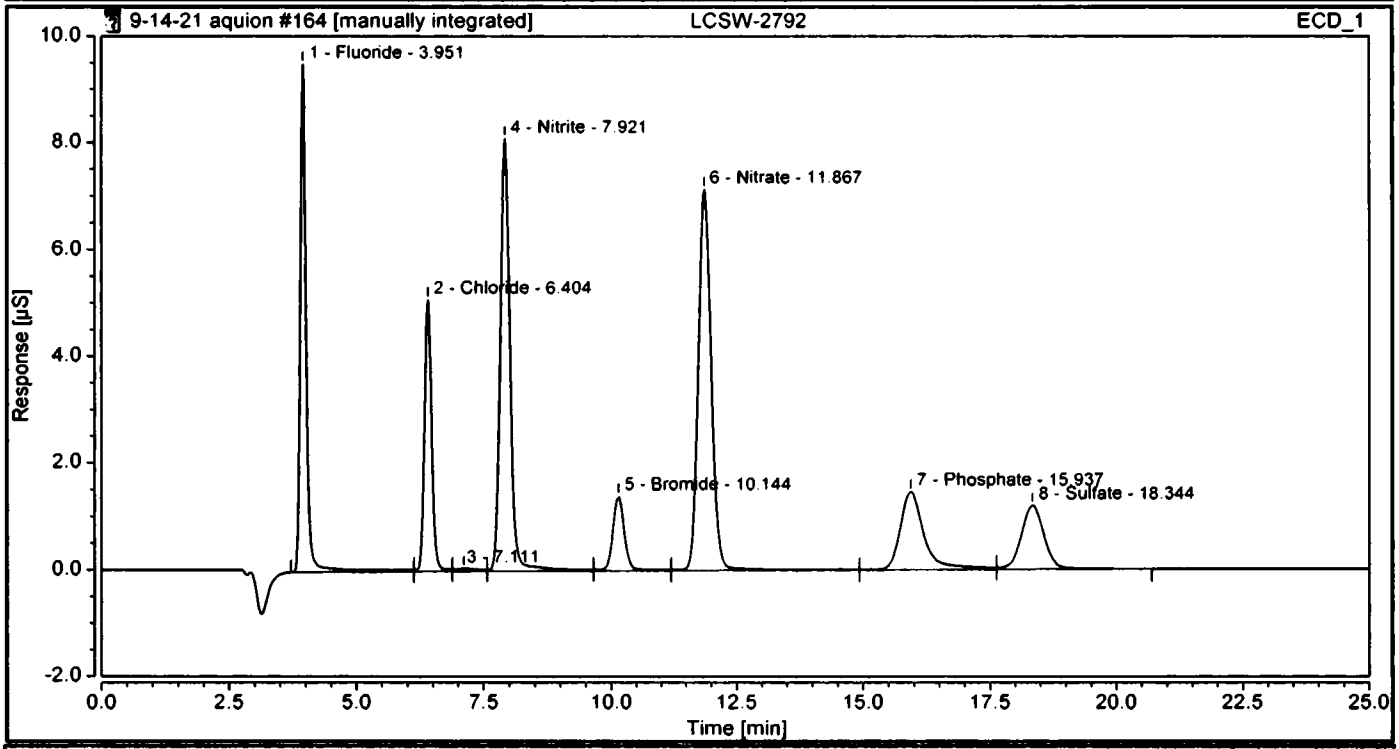
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 1 | Phosphate | 16.024 | 0.020 | 0.029 | 99.819 | FALSE | n.a. |
| 2 | Sulfate | 18.367 | 0.006 | 0.012 | 99.936 | FALSE | 0.1788 |
| **Total:** | | | **0.027** | **0.041** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LCSW-2792** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 12:54** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

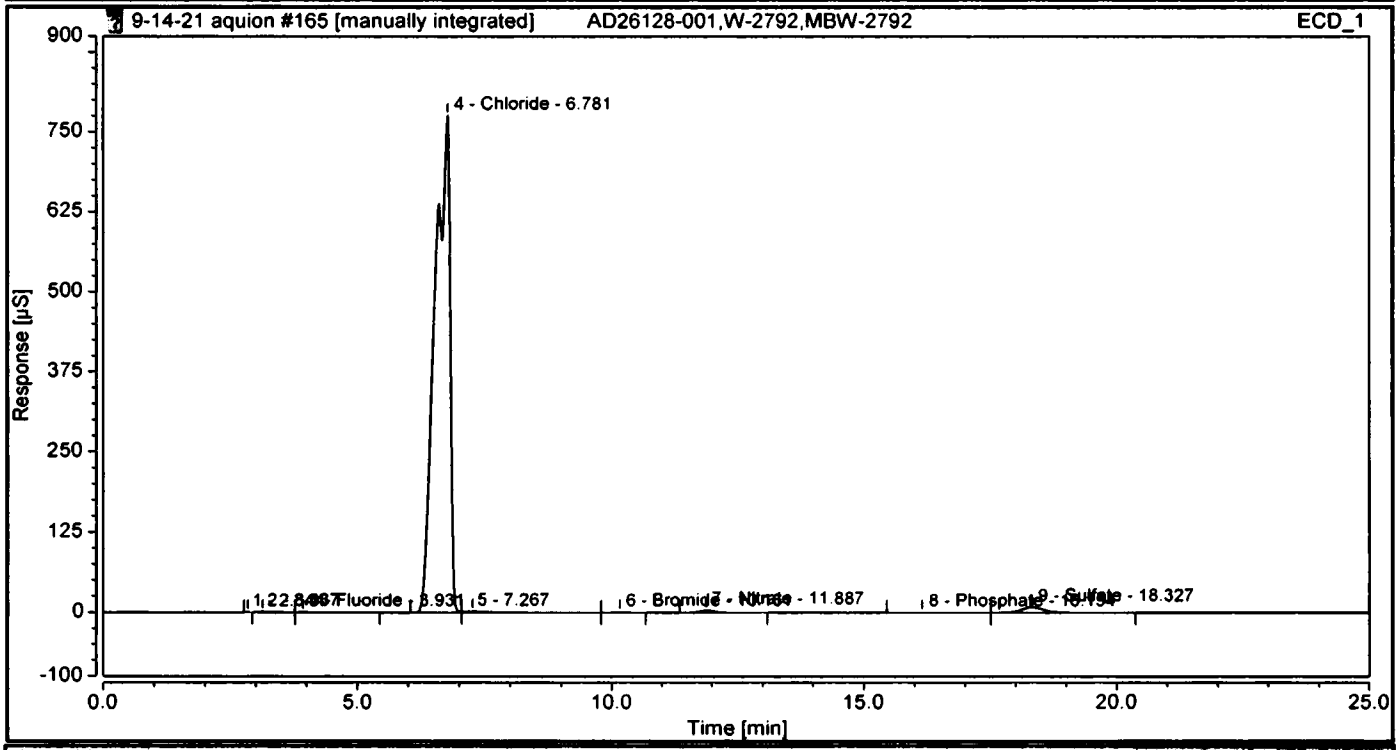
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.951 | 1.293 | 9.513 | 99.875 | TRUE | 5.1354 |
| 2 | Chloride | 6.404 | 0.825 | 5.093 | 99.668 | FALSE | 5.4411 |
| 3 | | 7.111 | 0.029 | 0.054 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.921 | 1.800 | 8.094 | 99.877 | TRUE | 5.0717 |
| 5 | Bromide | 10.144 | 0.380 | 1.398 | 99.871 | FALSE | 5.3506 |
| 6 | Nitrate | 11.867 | 2.129 | 7.133 | 99.717 | FALSE | 5.1482 |
| 7 | Phosphate | 15.937 | 0.803 | 1.461 | 99.819 | FALSE | 5.1756 |
| 8 | Sulfate | 18.344 | 0.625 | 1.200 | 99.936 | FALSE | 5.2438 |
| **Total:** | | | **7.883** | **33.947** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26128-001,W-2792,MBW-2792** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 13:21** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

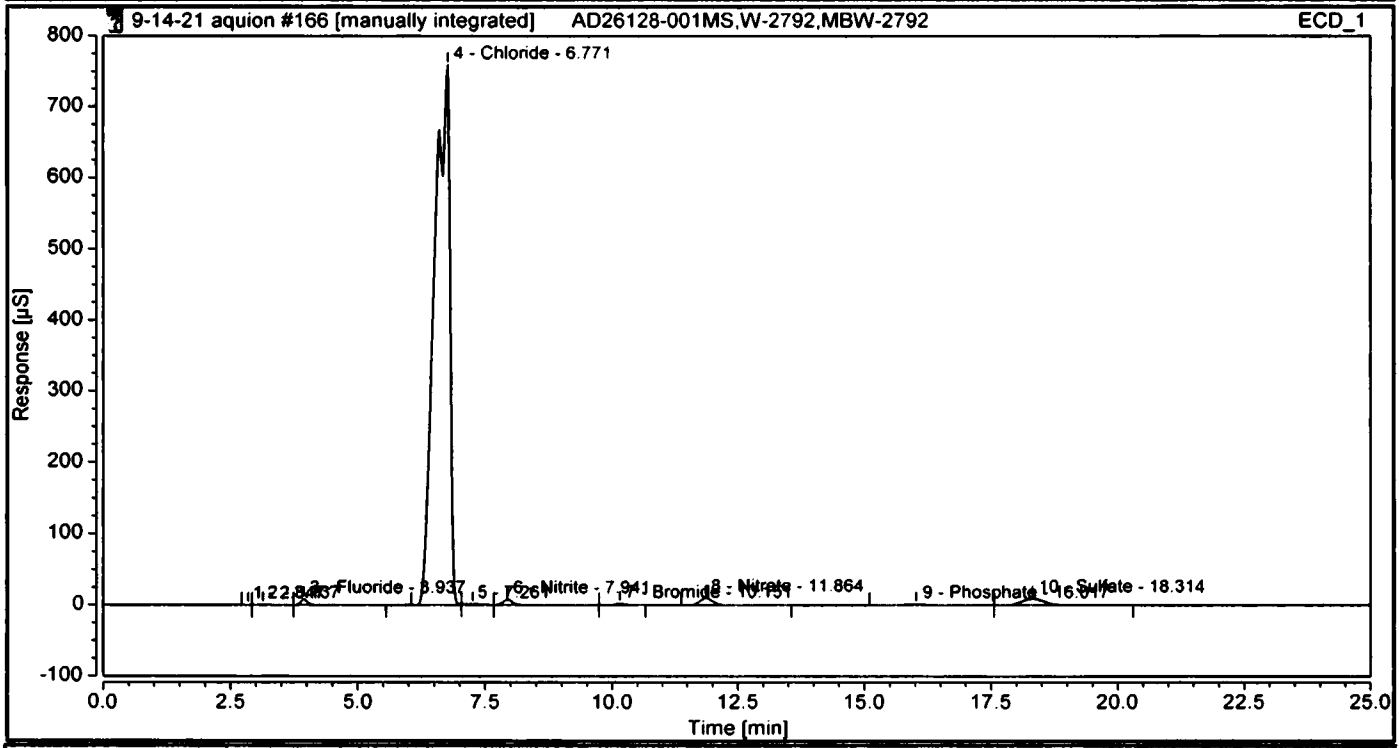
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.844 | 0.006 | 0.074 | n.a. | FALSE | n.a. |
| 2 | | 3.137 | 0.195 | 0.652 | n.a. | FALSE | n.a. |
| 3 | Fluoride | 3.931 | 0.044 | 0.226 | 99.875 | FALSE | 0.1555 |
| 4 | Chloride | 6.781 | 264.712 | 775.582 | 99.668 | TRUE | 1358.8671 |
| 5 | | 7.267 | 0.629 | 1.138 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 6 | Bromide | 10.161 | 0.092 | 0.368 | 99.871 | FALSE | 1.1645 |
| 7 | Nitrate | 11.887 | 0.961 | 3.261 | 99.717 | FALSE | 2.5000 |
| 8 | Phosphate | 16.154 | 0.050 | 0.059 | 99.819 | FALSE | n.a. |
| 9 | Sulfate | 18.327 | 3.916 | 8.033 | 99.936 | FALSE | 32.2029 |
| **Total:** | | | **270.605** | **789.392** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26128-001MS,W-2792,MBW-2792** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 13:48** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

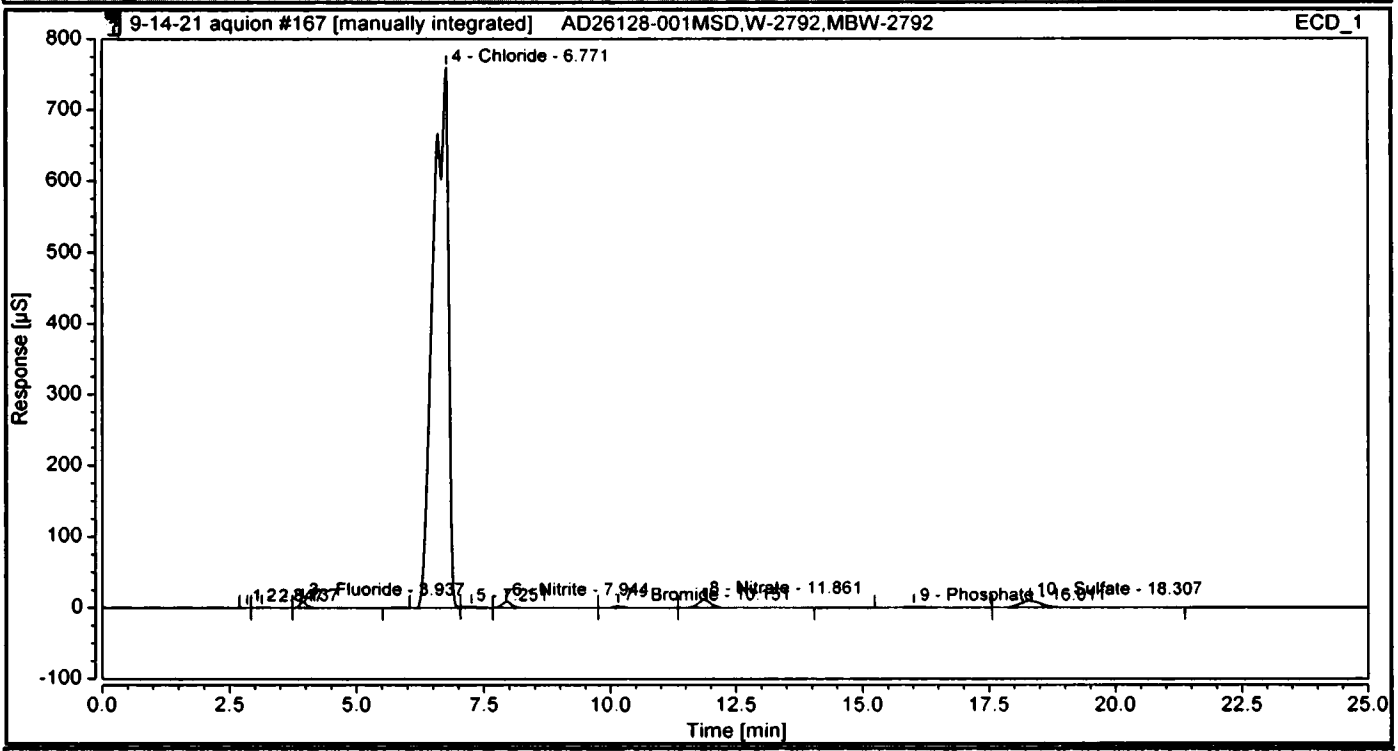
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.847 | 0.009 | 0.096 | n.a. | FALSE | n.a. |
| 2 | | 3.137 | 0.211 | 0.705 | n.a. | FALSE | n.a. |
| 3 | Fluoride | 3.937 | 1.150 | 7.841 | 99.875 | FALSE | 4.5667 |
| 4 | Chloride | 6.771 | 263.280 | 759.414 | 99.668 | TRUE | 1351.5263 |
| 5 | | 7.261 | 0.499 | 1.111 | n.a. | FALSE | n.a. |
| 6 | Nitrite | 7.941 | 1.700 | 7.791 | 99.877 | FALSE | 4.7897 |
| 7 | Bromide | 10.151 | 0.399 | 1.619 | 99.871 | FALSE | 5.6324 |
| 8 | Nitrate | 11.864 | 2.894 | 9.977 | 99.717 | FALSE | 6.8829 |
| 9 | Phosphate | 16.017 | 0.696 | 1.043 | 99.819 | FALSE | 4.4098 |
| 10 | Sulfate | 18.314 | 4.498 | 9.187 | 99.936 | FALSE | 36.9734 |
| **Total:** | | | **275.337** | **798.785** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26128-001MSD,W-2792,MBW-2792** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 14:15** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

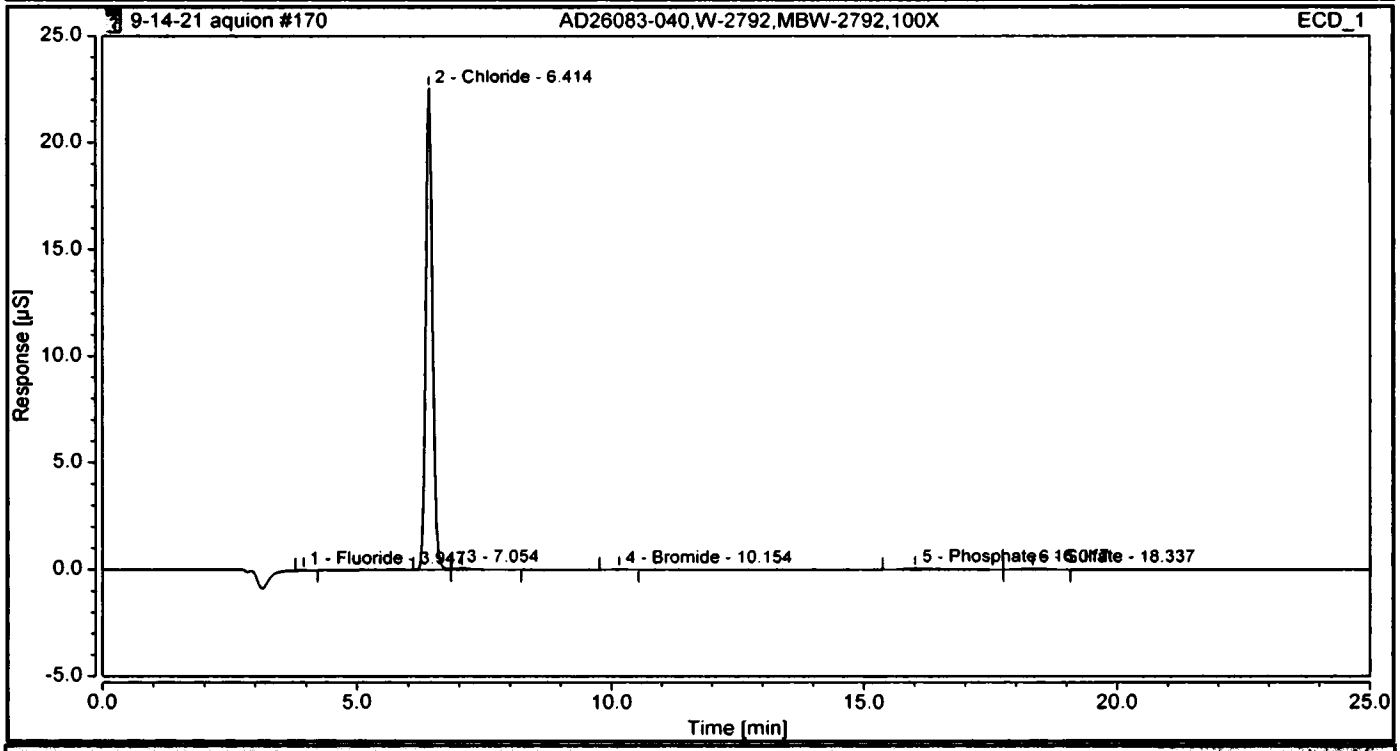
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.847 | 0.010 | 0.101 | n.a. | FALSE | n.a. |
| 2 | | 3.137 | 0.214 | 0.710 | n.a. | FALSE | n.a. |
| 3 | Fluoride | 3.937 | 1.324 | 9.029 | 99.875 | FALSE | 5.2593 |
| 4 | Chloride | 6.771 | 263.336 | 759.519 | 99.668 | TRUE | 1351.8087 |
| 5 | | 7.251 | 0.497 | 1.099 | n.a. | FALSE | n.a. |
| 6 | Nitrite | 7.944 | 1.951 | 8.910 | 99.877 | FALSE | 5.4965 |
| 7 | Bromide | 10.151 | 0.461 | 1.809 | 99.871 | FALSE | 6.5334 |
| 8 | Nitrate | 11.861 | 3.196 | 10.998 | 99.717 | FALSE | 7.5687 |
| 9 | Phosphate | 16.011 | 0.851 | 1.289 | 99.819 | FALSE | 5.5195 |
| 10 | Sulfate | 18.307 | 4.614 | 9.355 | 99.936 | FALSE | 37.9257 |
| **Total:** | | | **276.453** | **802.819** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-040,W-2792,MBW-2792,100X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 15:37** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

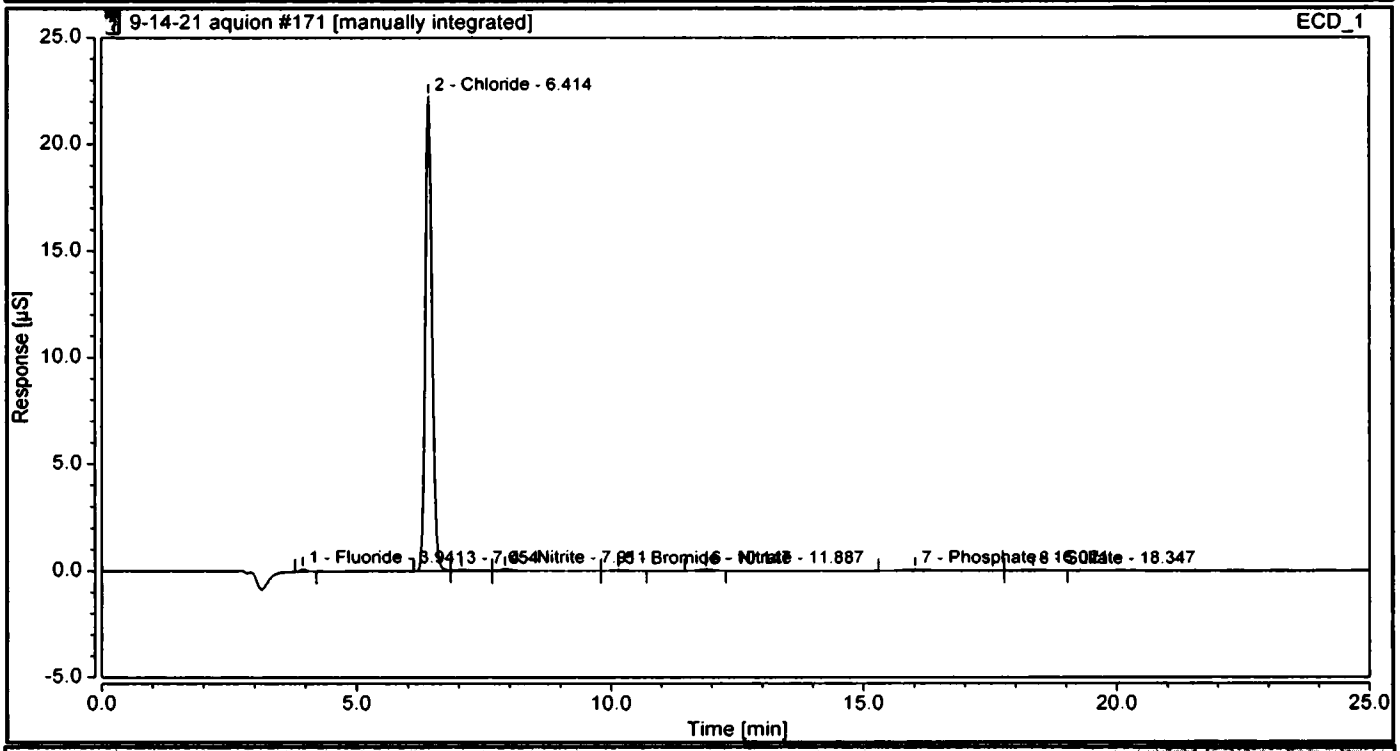
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 0.002 | 0.012 | 99.875 | FALSE | n.a. |
| 2 | Chloride | 6.414 | 3.445 | 22.529 | 99.668 | FALSE | 18.8787 |
| 3 | | 7.054 | 0.023 | 0.059 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.154 | 0.007 | 0.027 | 99.871 | FALSE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 5 | Phosphate | 16.017 | 0.050 | 0.062 | 99.819 | FALSE | n.a. |
| 6 | Sulfate | 18.337 | 0.022 | 0.043 | 99.936 | FALSE | 0.3053 |
| **Total:** | | | **3.548** | **22.731** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-042MS,W-2792,MBW-2792,100X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 16:04** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

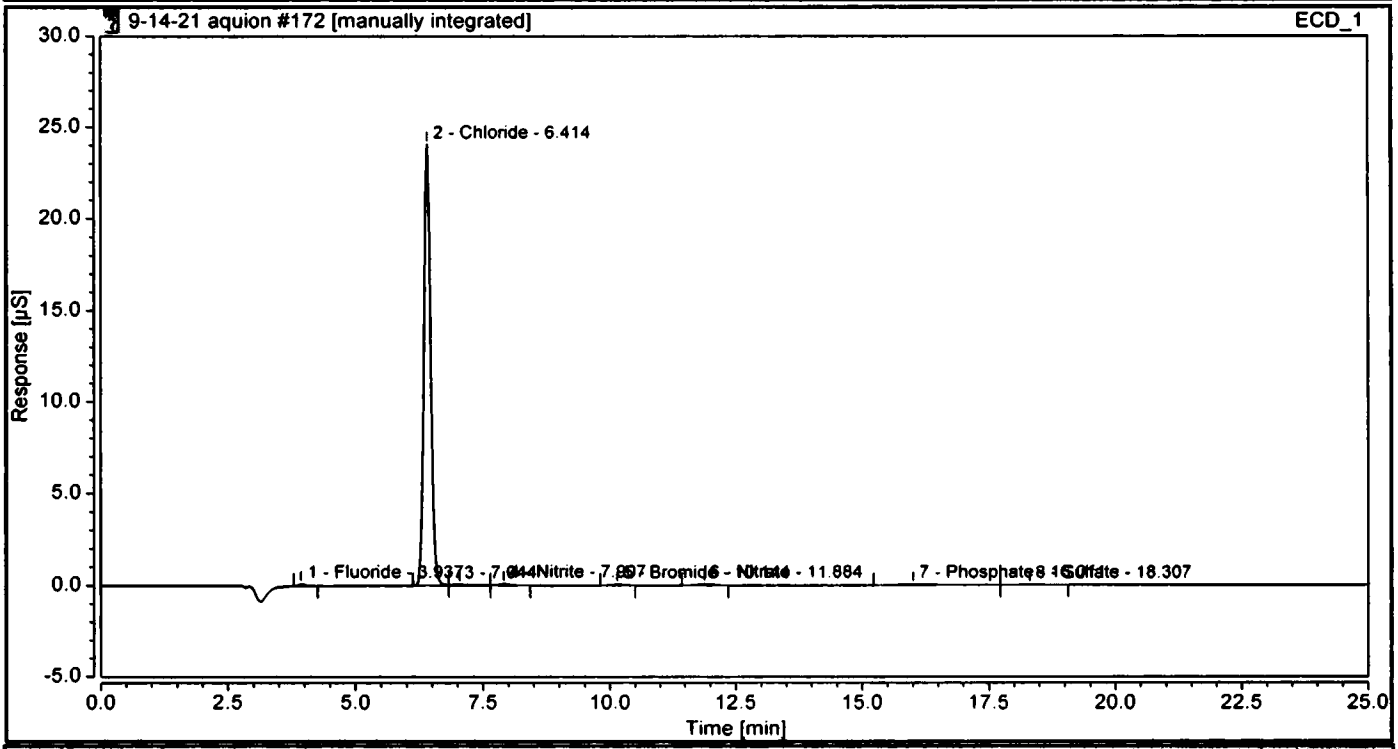
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.013 | 0.107 | 99.875 | TRUE | 0.0316 |
| 2 | Chloride | 6.414 | 3.409 | 22.246 | 99.668 | TRUE | 18.6924 |
| 3 | | 7.054 | 0.027 | 0.064 | n.a. | TRUE | n.a. |
| 4 | Nitrite | 7.911 | 0.025 | 0.089 | 99.877 | TRUE | 0.0772 |
| 5 | Bromide | 10.147 | 0.012 | 0.044 | 99.871 | TRUE | n.a. |
| 6 | Nitrate | 11.887 | 0.020 | 0.068 | 99.717 | TRUE | 0.3666 |
| 7 | Phosphate | 16.021 | 0.043 | 0.060 | 99.819 | FALSE | n.a. |
| 8 | Sulfate | 18.347 | 0.016 | 0.031 | 99.936 | FALSE | 0.2548 |
| **Total:** | | | **3.564** | **22.710** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-044MSD,W-2792,MBW-2792,100X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 16:31** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

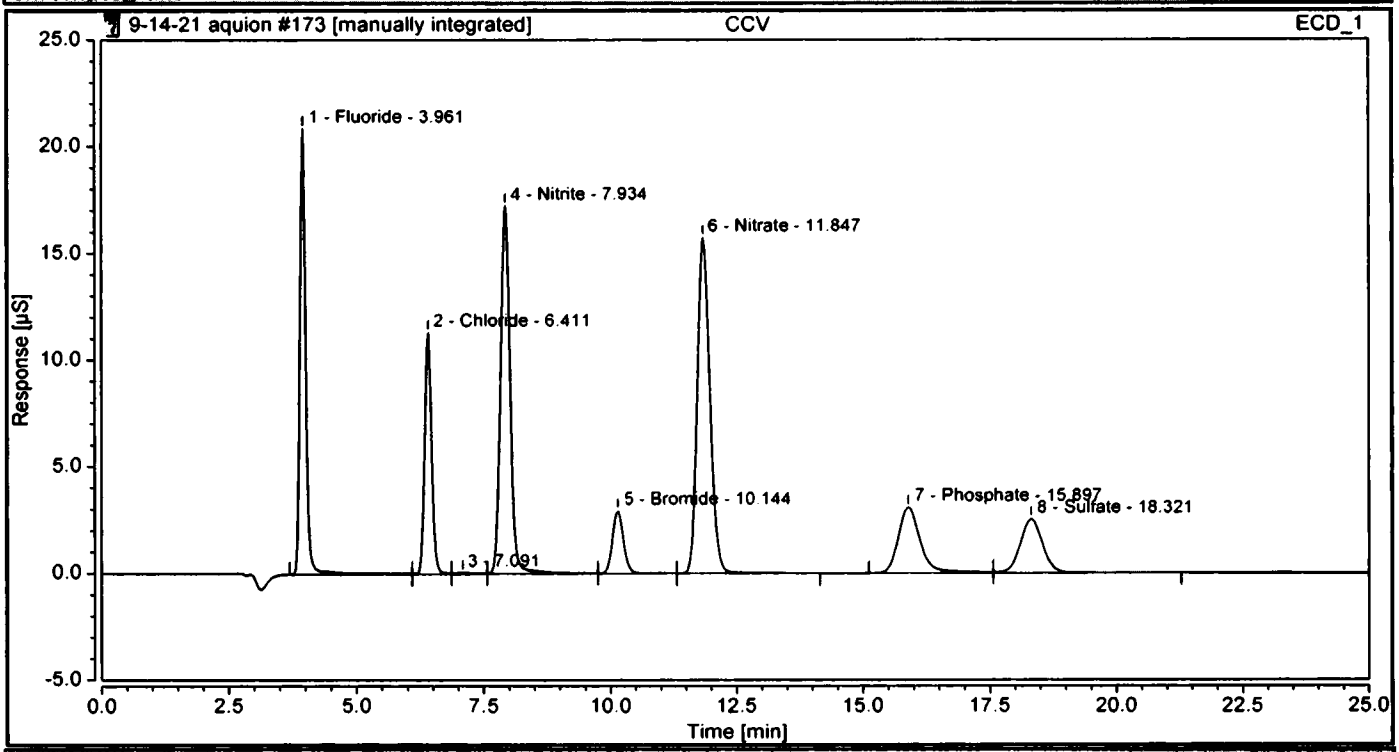
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.014 | 0.111 | 99.875 | TRUE | 0.0346 |
| 2 | Chloride | 6.414 | 3.670 | 24.065 | 99.668 | TRUE | 20.0306 |
| 3 | | 7.044 | 0.025 | 0.064 | n.a. | TRUE | n.a. |
| 4 | Nitrite | 7.907 | 0.019 | 0.088 | 99.877 | TRUE | 0.0608 |
| 5 | Bromide | 10.144 | 0.011 | 0.045 | 99.871 | TRUE | n.a. |
| 6 | Nitrate | 11.884 | 0.021 | 0.070 | 99.717 | FALSE | 0.3696 |
| 7 | Phosphate | 16.011 | 0.041 | 0.052 | 99.819 | FALSE | n.a. |
| 8 | Sulfate | 18.307 | 0.017 | 0.033 | 99.936 | FALSE | 0.2690 |
| **Total:** | | | **3.818** | **24.527** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 16:58** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

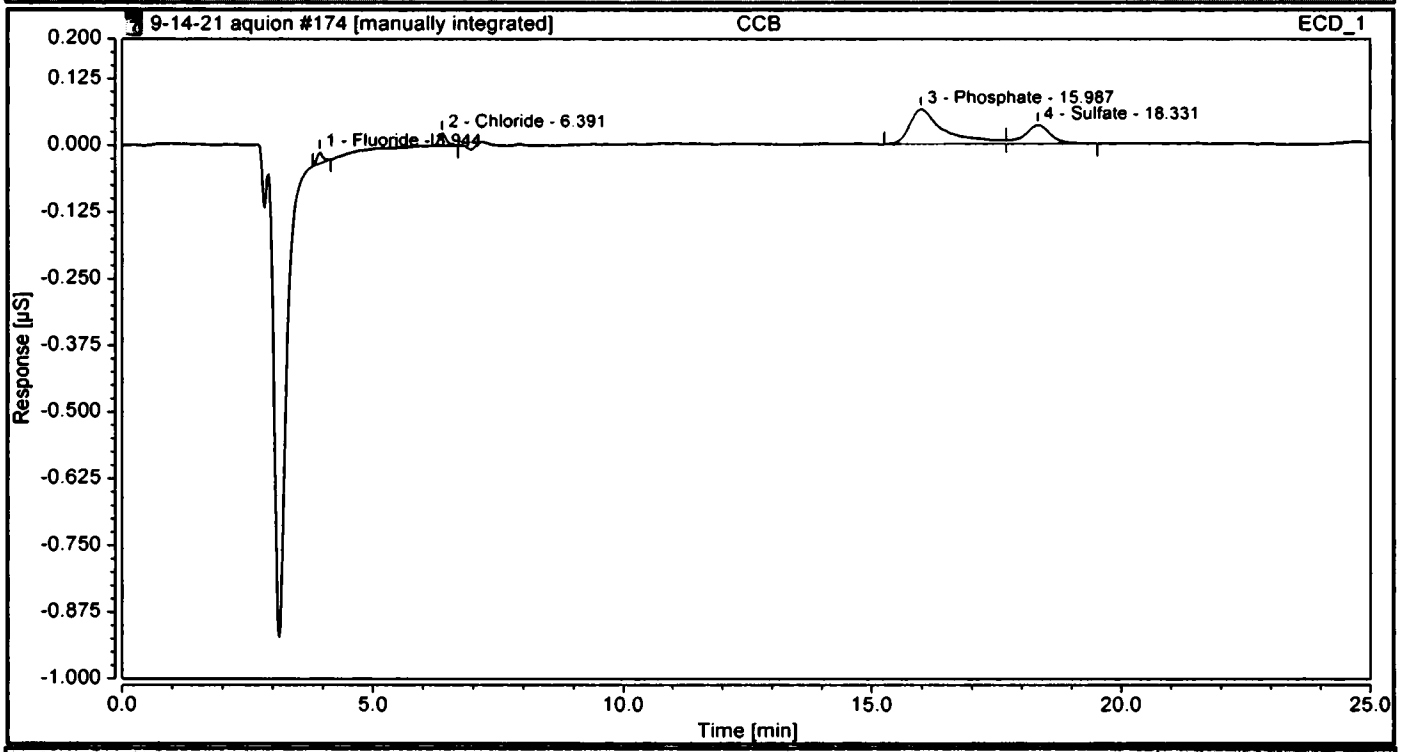
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.756 | 20.864 | 99.875 | TRUE | 10.9733 |
| 2 | Chloride | 6.411 | 1.780 | 11.318 | 99.668 | FALSE | 10.3419 |
| 3 | | 7.091 | 0.029 | 0.055 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.934 | 3.831 | 17.224 | 99.877 | TRUE | 10.7862 |
| 5 | Bromide | 10.144 | 0.750 | 2.937 | 99.871 | TRUE | 10.7503 |
| 6 | Nitrate | 11.847 | 4.532 | 15.736 | 99.717 | FALSE | 10.5985 |
| 7 | Phosphate | 15.897 | 1.550 | 3.075 | 99.819 | FALSE | 10.4952 |
| 8 | Sulfate | 18.321 | 1.283 | 2.521 | 99.936 | FALSE | 10.6375 |
| **Total:** | | | **16.512** | **73.731** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 17:26** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

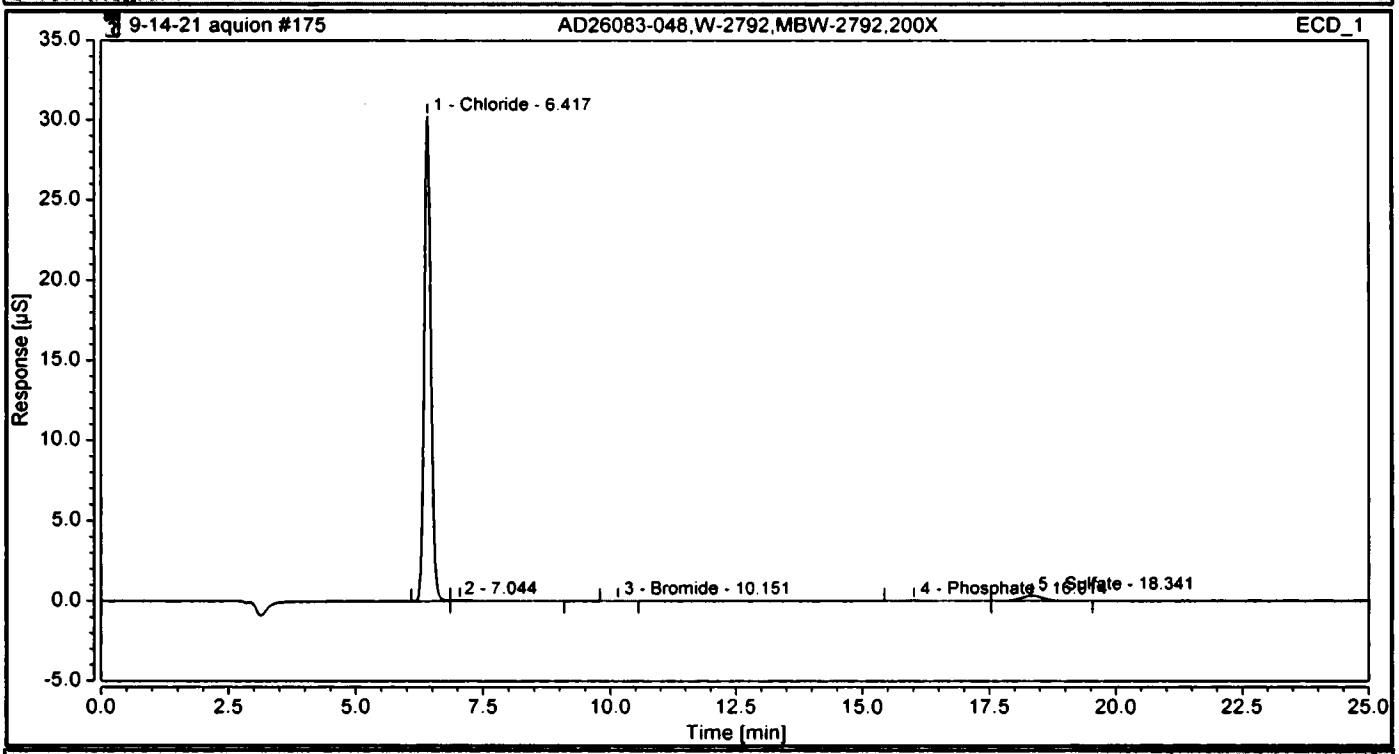
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.003 | 0.021 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.391 | 0.004 | 0.023 | 99.668 | TRUE | 1.2297 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 3 | Phosphate | 15.987 | 0.054 | 0.065 | 99.819 | FALSE | n.a. |
| 4 | Sulfate | 18.331 | 0.021 | 0.035 | 99.936 | FALSE | 0.3028 |
| **Total:** | | | **0.081** | **0.145** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-048,W-2792,MBW-2792,200X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 17:53** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

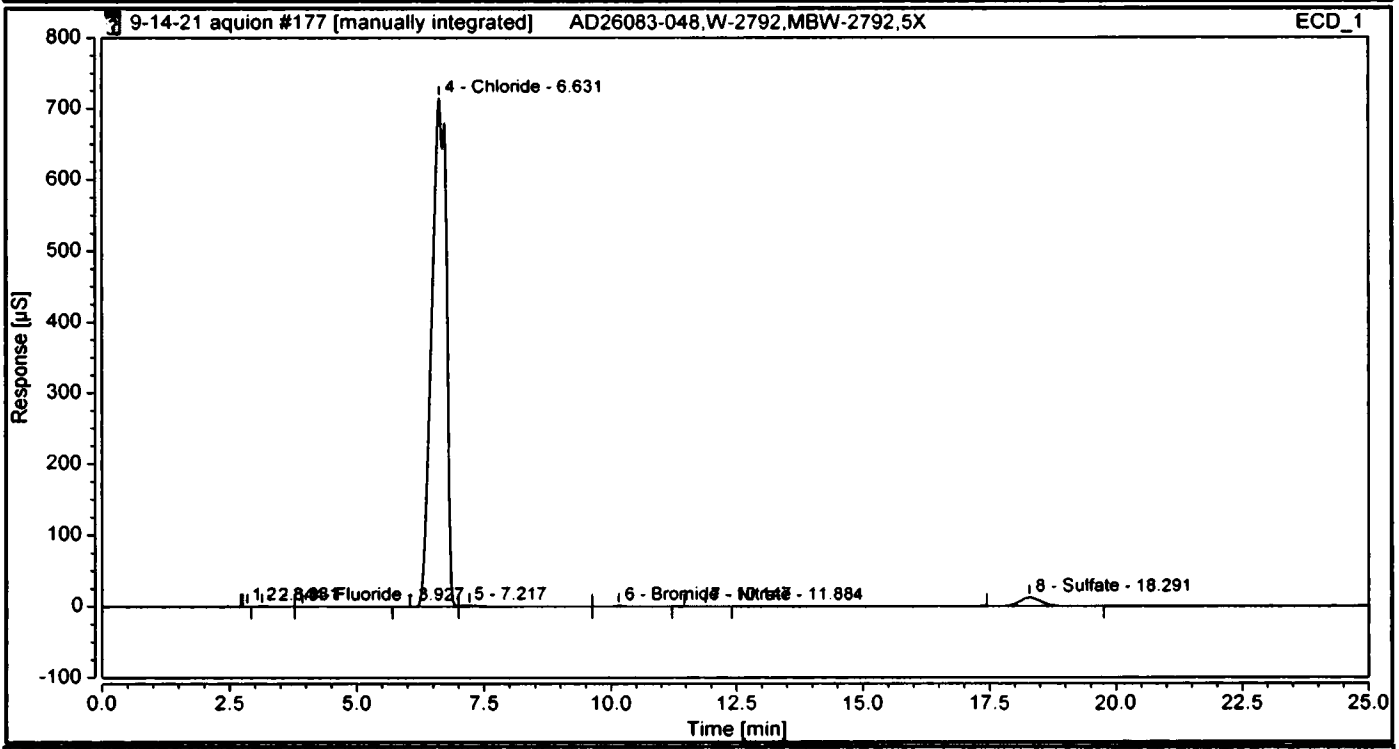
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| 1 | Chloride | 6.417 | 4.582 | 30.222 | 99.668 | FALSE | 24.7095 |
| 2 | | 7.044 | 0.030 | 0.056 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 3 | Bromide | 10.151 | 0.007 | 0.025 | 99.871 | FALSE | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 4 | Phosphate | 16.014 | 0.024 | 0.027 | 99.819 | FALSE | n.a. |
| 5 | Sulfate | 18.341 | 0.162 | 0.318 | 99.936 | FALSE | 1.4547 |
| **Total:** | | | **4.804** | **30.649** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-048,W-2792,MBW-2792,5X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 18:47** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

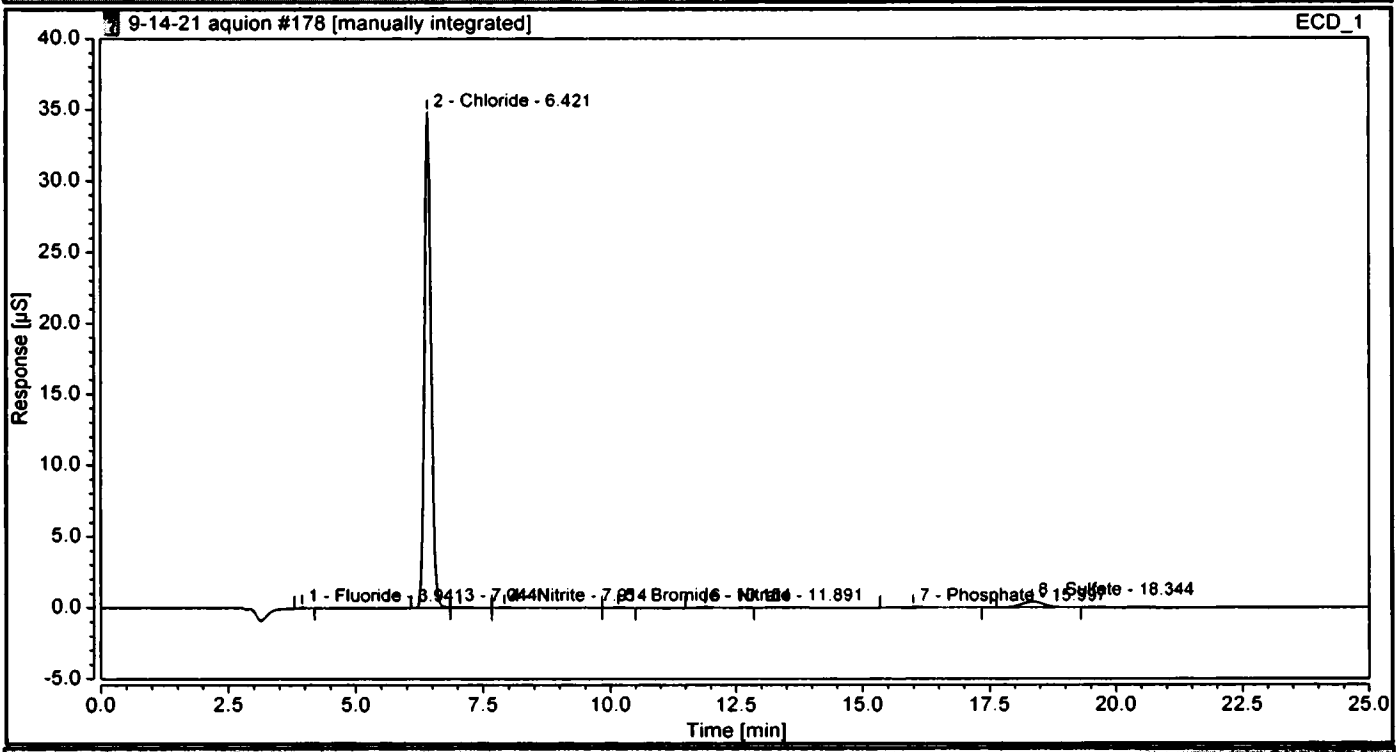
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.844 | 0.005 | 0.064 | n.a. | FALSE | n.a. |
| 2 | | 3.131 | 0.166 | 0.557 | n.a. | FALSE | n.a. |
| 3 | Fluoride | 3.927 | 0.052 | 0.195 | 99.875 | FALSE | 0.1867 |
| 4 | Chloride | 6.631 | 239.347 | 714.184 | 99.668 | TRUE | 1228.7772 |
| 5 | | 7.217 | 0.572 | 1.066 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 6 | Bromide | 10.147 | 0.246 | 0.972 | 99.871 | FALSE | 3.4077 |
| 7 | Nitrate | 11.884 | 0.032 | 0.108 | 99.717 | FALSE | 0.3945 |
| n.a. | Phosphate | n.a. | n.a. | n.a. | 99.819 | n.a. | n.a. |
| 8 | Sulfate | 18.291 | 5.817 | 12.084 | 99.936 | FALSE | 47.7786 |
| **Total:** | | | **246.238** | **729.231** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-049MS,W-2792,MBW-2792,200X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 19:14** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

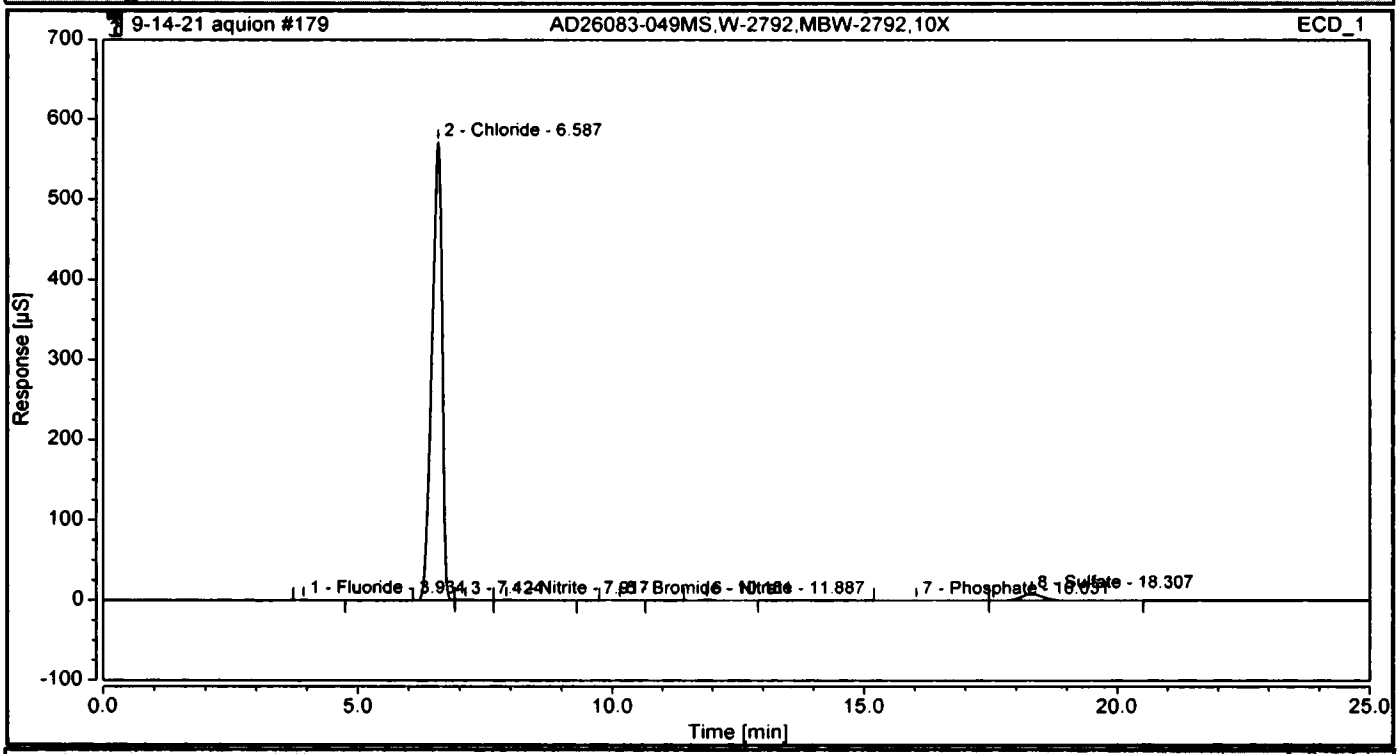
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.007 | 0.058 | 99.875 | TRUE | 0.0068 |
| 2 | Chloride | 6.421 | 5.271 | 34.801 | 99.668 | TRUE | 28.2428 |
| 3 | | 7.044 | 0.025 | 0.058 | n.a. | TRUE | n.a. |
| 4 | Nitrite | 7.914 | 0.015 | 0.045 | 99.877 | TRUE | 0.0494 |
| 5 | Bromide | 10.154 | 0.009 | 0.036 | 99.871 | TRUE | n.a. |
| 6 | Nitrate | 11.891 | 0.015 | 0.049 | 99.717 | FALSE | 0.3569 |
| 7 | Phosphate | 15.997 | 0.021 | 0.029 | 99.819 | FALSE | n.a. |
| 8 | Sulfate | 18.344 | 0.203 | 0.411 | 99.936 | FALSE | 1.7943 |
| **Total:** | | | **5.567** | **35.486** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-049MS,W-2792,MBW-2792,10X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 19:42** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

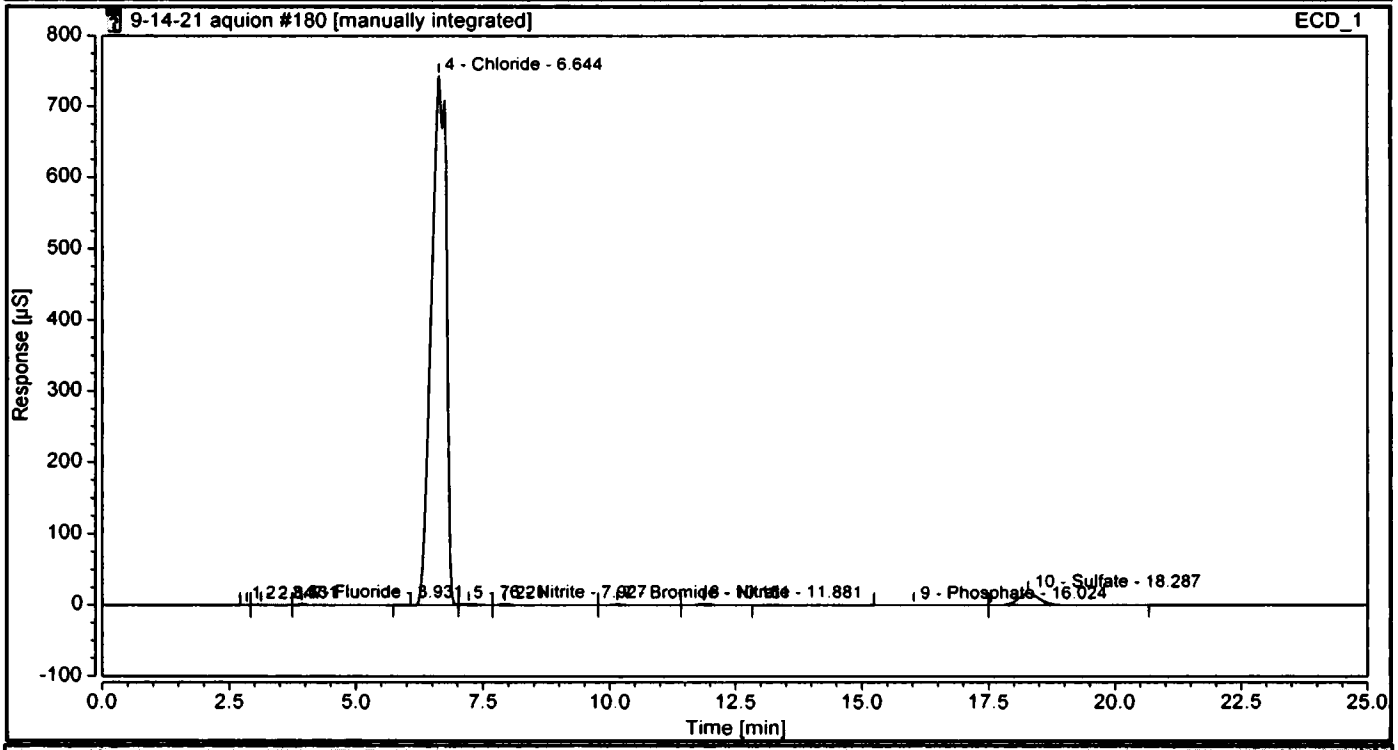
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.934 | 0.129 | 0.966 | 99.875 | FALSE | 0.4916 |
| 2 | Chloride | 6.587 | 132.131 | 571.925 | 99.668 | FALSE | 678.8847 |
| 3 | | 7.124 | 0.311 | 0.748 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.917 | 0.203 | 0.856 | 99.877 | FALSE | 0.5763 |
| 5 | Bromide | 10.151 | 0.167 | 0.671 | 99.871 | FALSE | 2.2504 |
| 6 | Nitrate | 11.887 | 0.270 | 0.909 | 99.717 | FALSE | 0.9342 |
| 7 | Phosphate | 16.031 | 0.095 | 0.121 | 99.819 | FALSE | 0.1267 |
| 8 | Sulfate | 18.307 | 3.895 | 7.988 | 99.936 | FALSE | 32.0318 |
| **Total:** | | | **137.199** | **584.183** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-049MS,W-2792,MBW-2792,5X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 20:09** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

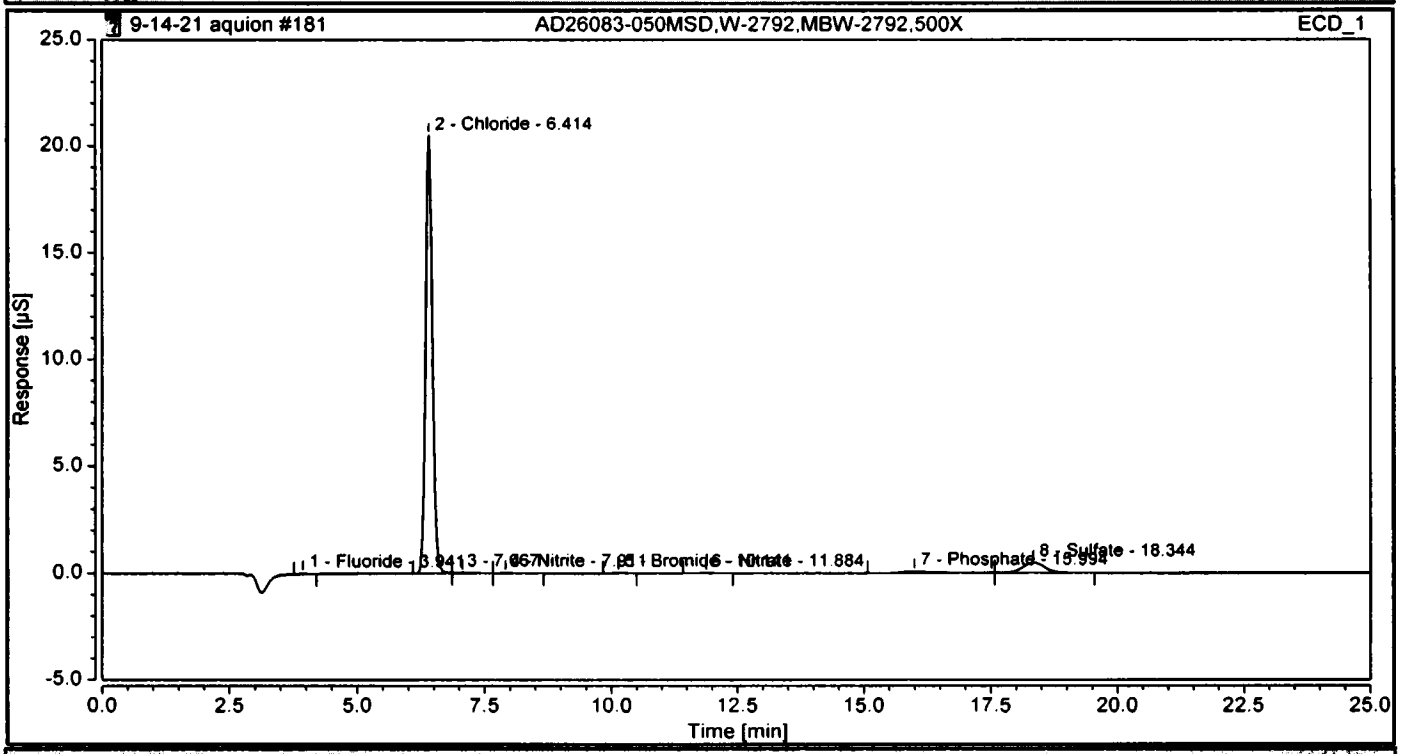
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.847 | 0.009 | 0.093 | n.a. | FALSE | n.a. |
| 2 | | 3.131 | 0.192 | 0.658 | n.a. | FALSE | n.a. |
| 3 | Fluoride | 3.931 | 0.281 | 1.781 | 99.875 | FALSE | 1.0980 |
| 4 | Chloride | 6.644 | 255.775 | 743.418 | 99.668 | TRUE | 1313.0335 |
| 5 | | 7.221 | 0.498 | 1.116 | n.a. | FALSE | n.a. |
| 6 | Nitrite | 7.927 | 0.437 | 1.717 | 99.877 | FALSE | 1.2362 |
| 7 | Bromide | 10.151 | 0.328 | 1.299 | 99.871 | FALSE | 4.5982 |
| 8 | Nitrate | 11.881 | 0.522 | 1.762 | 99.717 | FALSE | 1.5044 |
| 9 | Phosphate | 16.024 | 0.194 | 0.254 | 99.819 | FALSE | 0.8354 |
| 10 | Sulfate | 18.287 | 7.796 | 16.213 | 99.936 | FALSE | 63.9936 |
| **Total:** | | | **266.032** | **768.314** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-050MSD,W-2792,MBW-2792,500X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 20:36** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

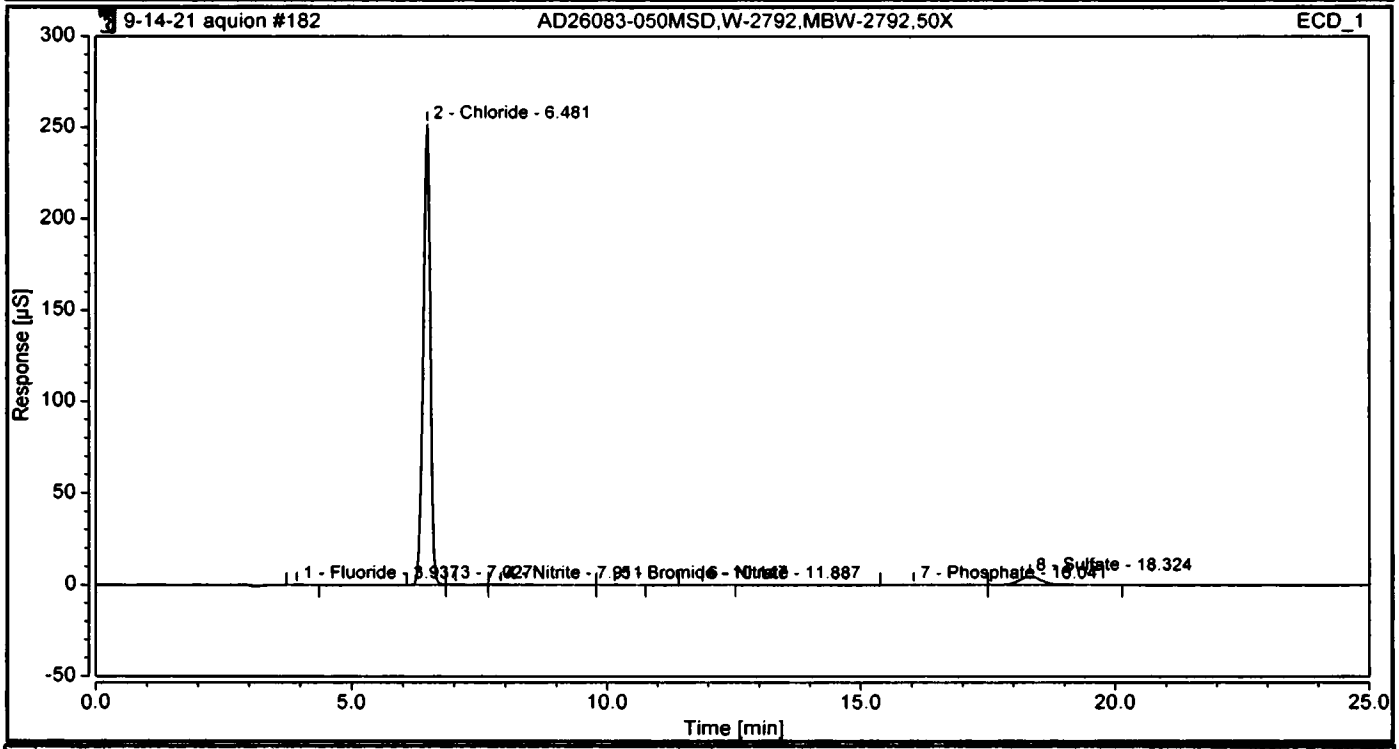
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.004 | 0.033 | 99.875 | FALSE | n.a. |
| 2 | Chloride | 6.414 | 3.134 | 20.488 | 99.668 | FALSE | 17.2865 |
| 3 | | 7.067 | 0.015 | 0.035 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.911 | 0.005 | 0.019 | 99.877 | FALSE | 0.0214 |
| 5 | Bromide | 10.141 | 0.005 | 0.020 | 99.871 | FALSE | n.a. |
| 6 | Nitrate | 11.884 | 0.004 | 0.013 | 99.717 | FALSE | 0.3312 |
| 7 | Phosphate | 15.994 | 0.062 | 0.079 | 99.819 | FALSE | n.a. |
| 8 | Sulfate | 18.344 | 0.240 | 0.476 | 99.936 | FALSE | 2.0972 |
| **Total:** | | | **3.471** | **21.163** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-050MSD,W-2792,MBW-2792,50X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 21:03** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

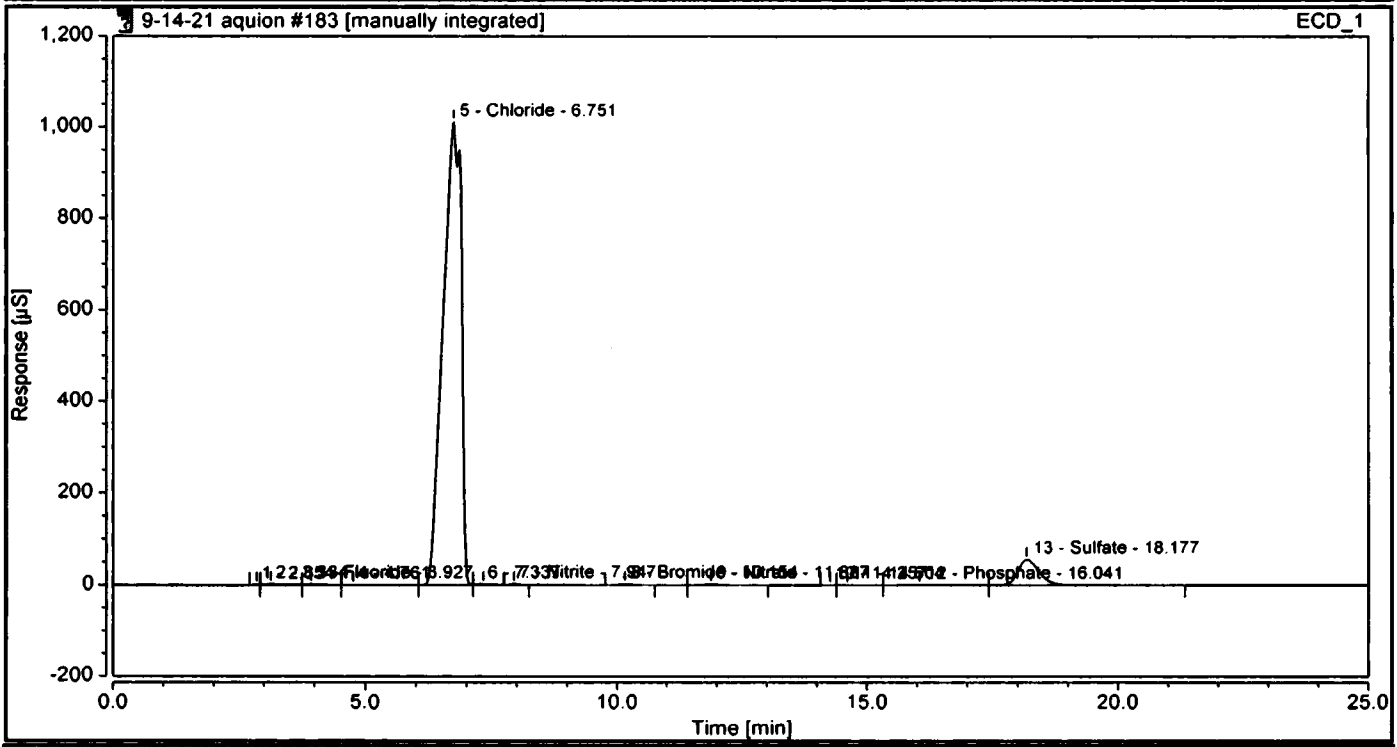
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.026 | 0.203 | 99.875 | FALSE | 0.0811 |
| 2 | Chloride | 6.481 | 40.270 | 251.649 | 99.668 | FALSE | 207.7500 |
| 3 | | 7.027 | 0.117 | 0.297 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.911 | 0.052 | 0.180 | 99.877 | FALSE | 0.1533 |
| 5 | Bromide | 10.147 | 0.047 | 0.188 | 99.871 | FALSE | 0.5044 |
| 6 | Nitrate | 11.887 | 0.039 | 0.129 | 99.717 | FALSE | 0.4091 |
| 7 | Phosphate | 16.041 | 0.057 | 0.073 | 99.819 | FALSE | n.a. |
| 8 | Sulfate | 18.324 | 2.220 | 4.524 | 99.936 | FALSE | 18.3115 |
| **Total:** | | | **42.829** | **257.243** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-050MSD,W-2792,MBW-2792,5X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 21:30** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

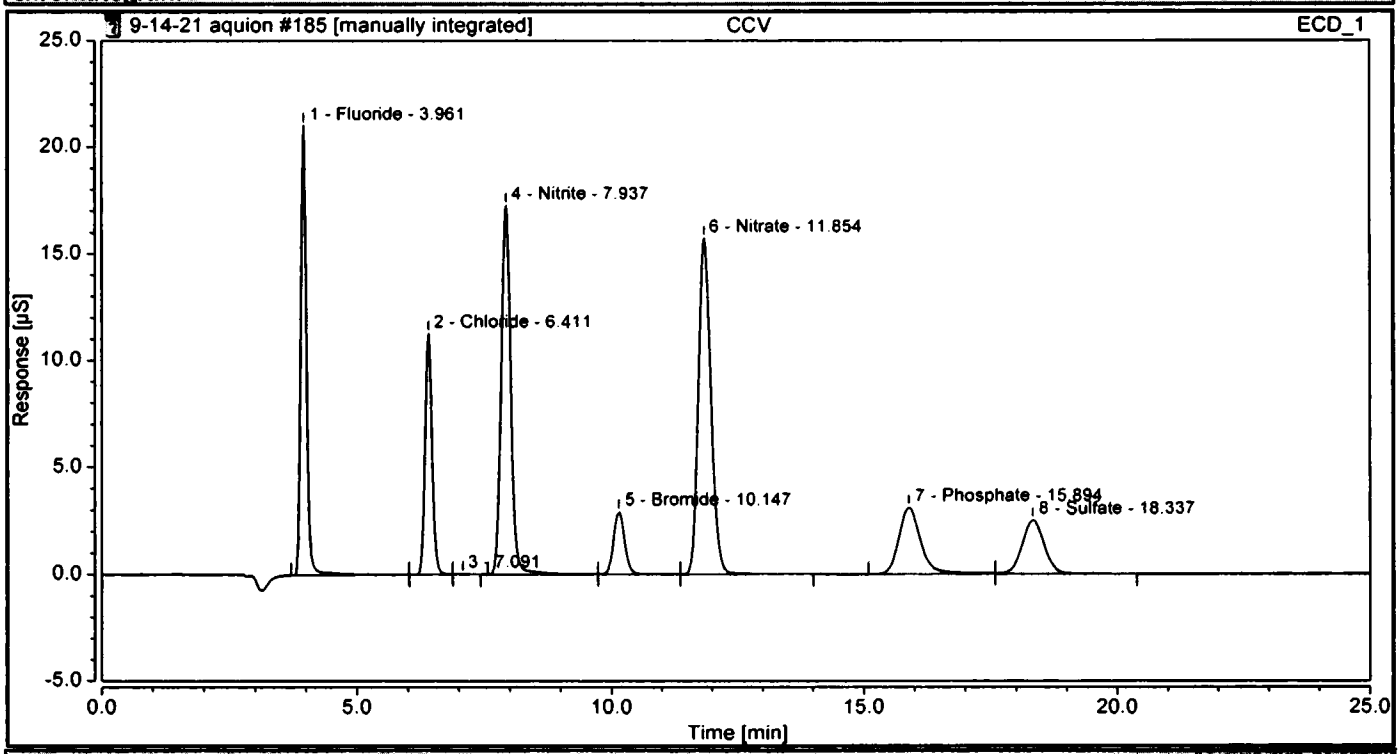
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.854 | 0.021 | 0.208 | n.a. | FALSE | n.a. |
| 2 | | 3.134 | 0.447 | 1.532 | n.a. | FALSE | n.a. |
| 3 | Fluoride | 3.927 | 0.270 | 1.671 | 99.875 | FALSE | 1.0565 |
| 4 | | 4.761 | 0.017 | 0.018 | n.a. | FALSE | n.a. |
| 5 | Chloride | 6.751 | 420.003 | 1010.733 | 99.668 | TRUE | 2155.3244 |
| 6 | | 7.337 | 0.896 | 1.511 | n.a. | TRUE | n.a. |
| 7 | Nitrite | 7.947 | 0.302 | 1.615 | 99.877 | TRUE | 0.8548 |
| 8 | Bromide | 10.154 | 0.457 | 1.861 | 99.871 | TRUE | 6.4776 |
| 9 | Nitrate | 11.887 | 0.394 | 1.319 | 99.717 | FALSE | 1.2142 |
| 10 | | 14.257 | 0.001 | 0.007 | n.a. | FALSE | n.a. |
| 11 | | 14.604 | 0.013 | 0.021 | n.a. | FALSE | n.a. |
| 12 | Phosphate | 16.041 | 0.209 | 0.260 | 99.819 | FALSE | 0.9391 |
| 13 | Sulfate | 18.177 | 26.483 | 55.023 | 99.936 | FALSE | 217.0733 |
| **Total:** | | | **449.512** | **1075.780** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 22:25** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

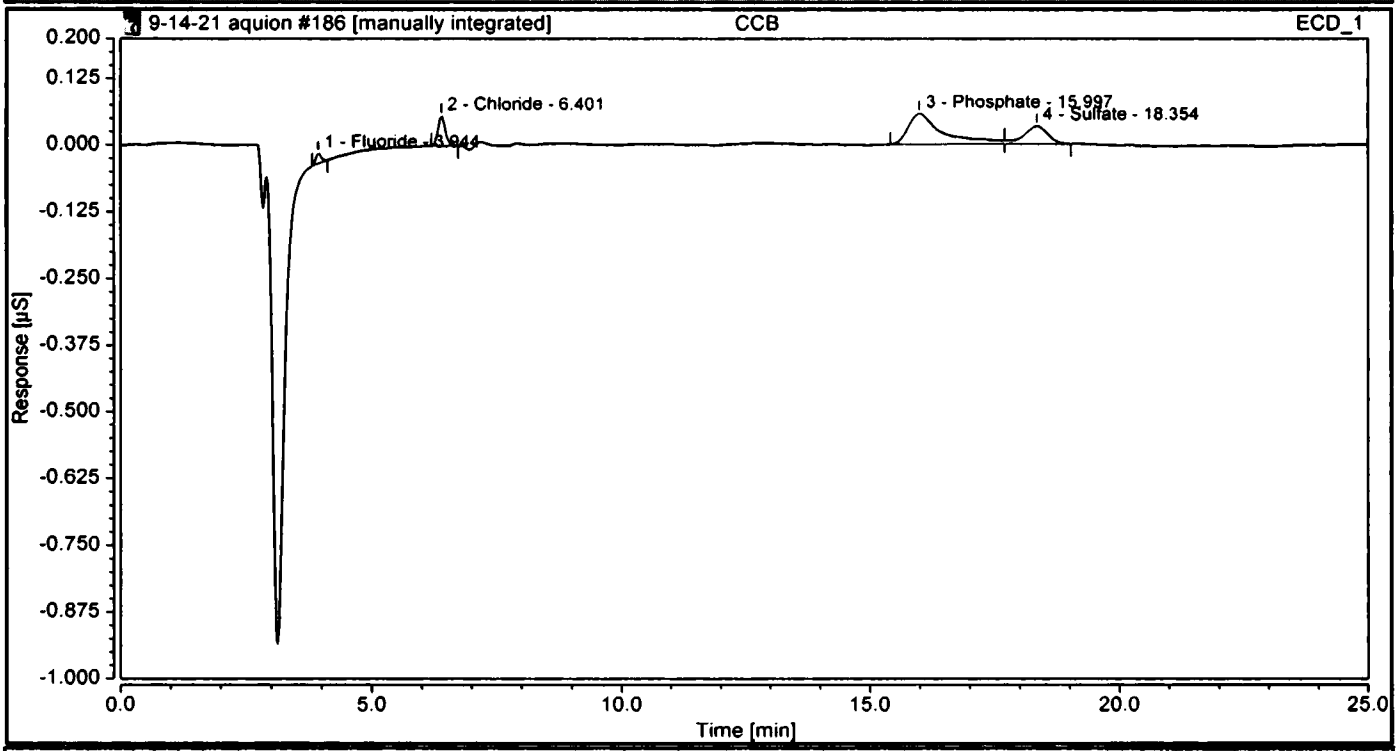
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.731 | 21.028 | 99.875 | TRUE | 10.8700 |
| 2 | Chloride | 6.411 | 1.763 | 11.274 | 99.668 | FALSE | 10.2504 |
| 3 | | 7.091 | 0.008 | 0.024 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.937 | 3.784 | 17.244 | 99.877 | TRUE | 10.6559 |
| 5 | Bromide | 10.147 | 0.727 | 2.922 | 99.871 | FALSE | 10.4160 |
| 6 | Nitrate | 11.854 | 4.515 | 15.720 | 99.717 | FALSE | 10.5578 |
| 7 | Phosphate | 15.894 | 1.560 | 3.098 | 99.819 | FALSE | 10.5705 |
| 8 | Sulfate | 18.337 | 1.264 | 2.500 | 99.936 | FALSE | 10.4795 |
| **Total:** | | | **16.351** | **73.810** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 22:52** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

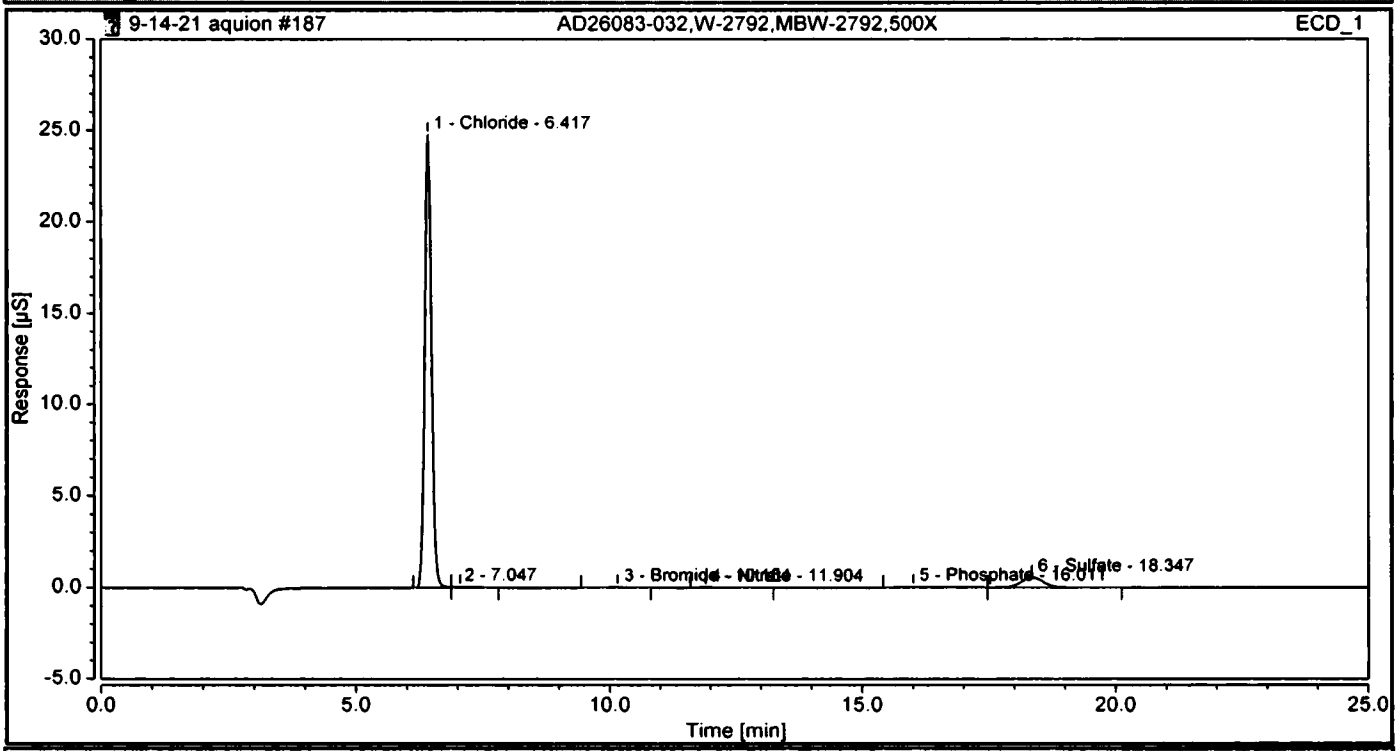
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.002 | 0.019 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.401 | 0.009 | 0.056 | 99.668 | TRUE | 1.2574 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 3 | Phosphate | 15.997 | 0.047 | 0.057 | 99.819 | FALSE | n.a. |
| 4 | Sulfate | 18.354 | 0.019 | 0.033 | 99.936 | FALSE | 0.2799 |
| **Total:** | | | **0.077** | **0.165** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-032,W-2792,MBW-2792,500X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 23:19** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

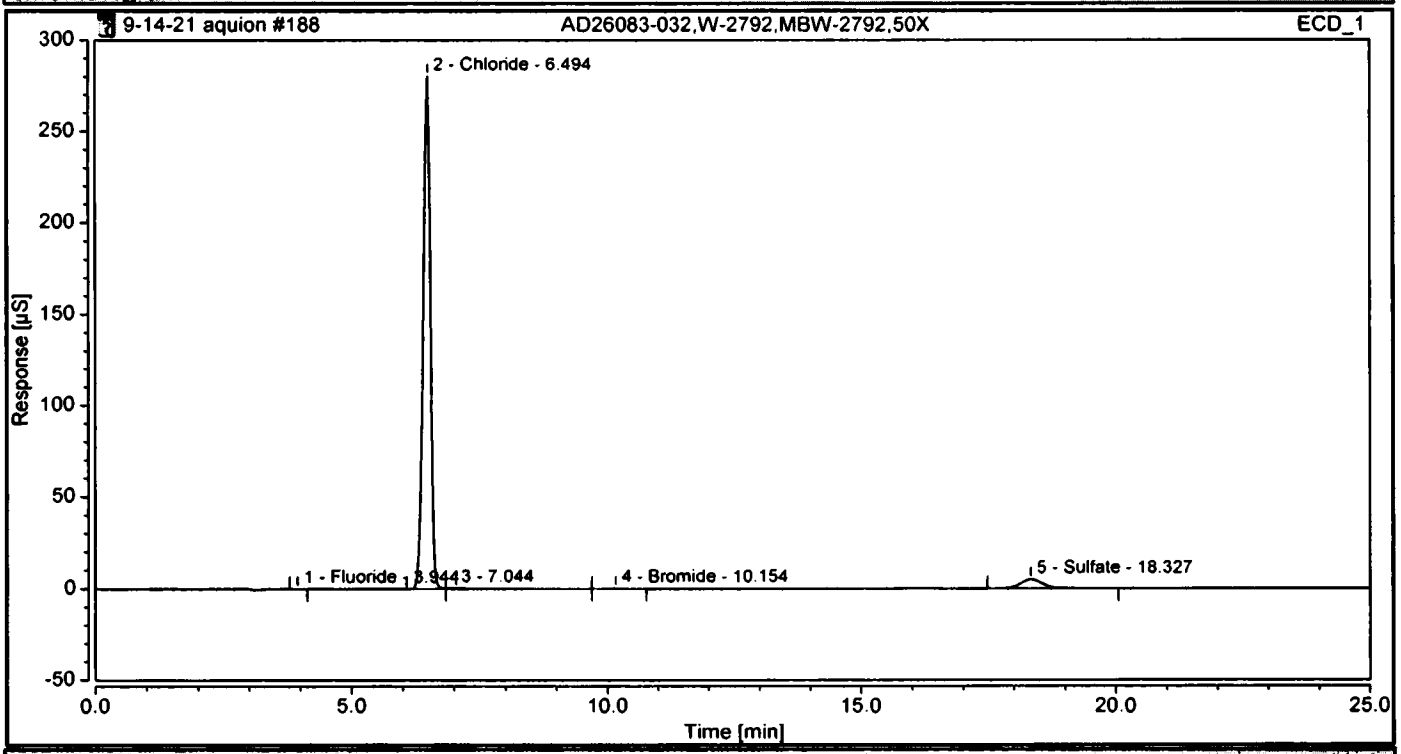
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| 1 | Chloride | 6.417 | 3.764 | 24.768 | 99.668 | FALSE | 20.5170 |
| 2 | | 7.047 | 0.016 | 0.040 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 3 | Bromide | 10.154 | 0.007 | 0.022 | 99.871 | FALSE | n.a. |
| 4 | Nitrate | 11.904 | 0.004 | 0.008 | 99.717 | FALSE | 0.3307 |
| 5 | Phosphate | 16.011 | 0.031 | 0.037 | 99.819 | FALSE | n.a. |
| 6 | Sulfate | 18.347 | 0.274 | 0.545 | 99.936 | FALSE | 2.3756 |
| **Total:** | | | **4.097** | **25.419** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-032,W-2792,MBW-2792,50X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **22/Sep/21 23:46** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

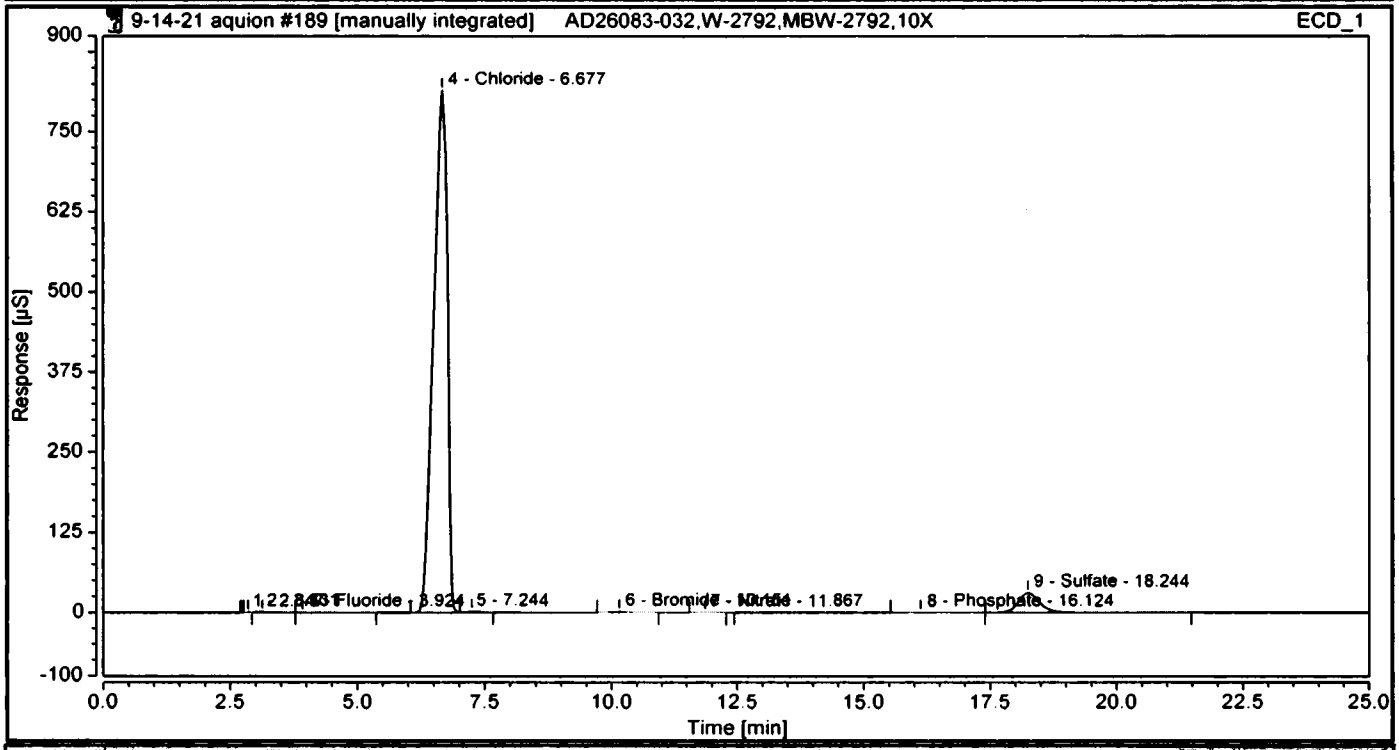
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.944 | 0.001 | 0.007 | 99.875 | FALSE | n.a. |
| 2 | Chloride | 6.494 | 45.564 | 280.330 | 99.668 | FALSE | 234.9010 |
| 3 | | 7.044 | 0.157 | 0.347 | n.a. | FALSE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.154 | 0.045 | 0.178 | 99.871 | FALSE | 0.4726 |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| n.a. | Phosphate | n.a. | n.a. | n.a. | 99.819 | n.a. | n.a. |
| 5 | Sulfate | 18.327 | 2.384 | 4.877 | 99.936 | FALSE | 19.6534 |
| **Total:** | | | **48.150** | **285.738** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-032,W-2792,MBW-2792,10X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 00:14** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

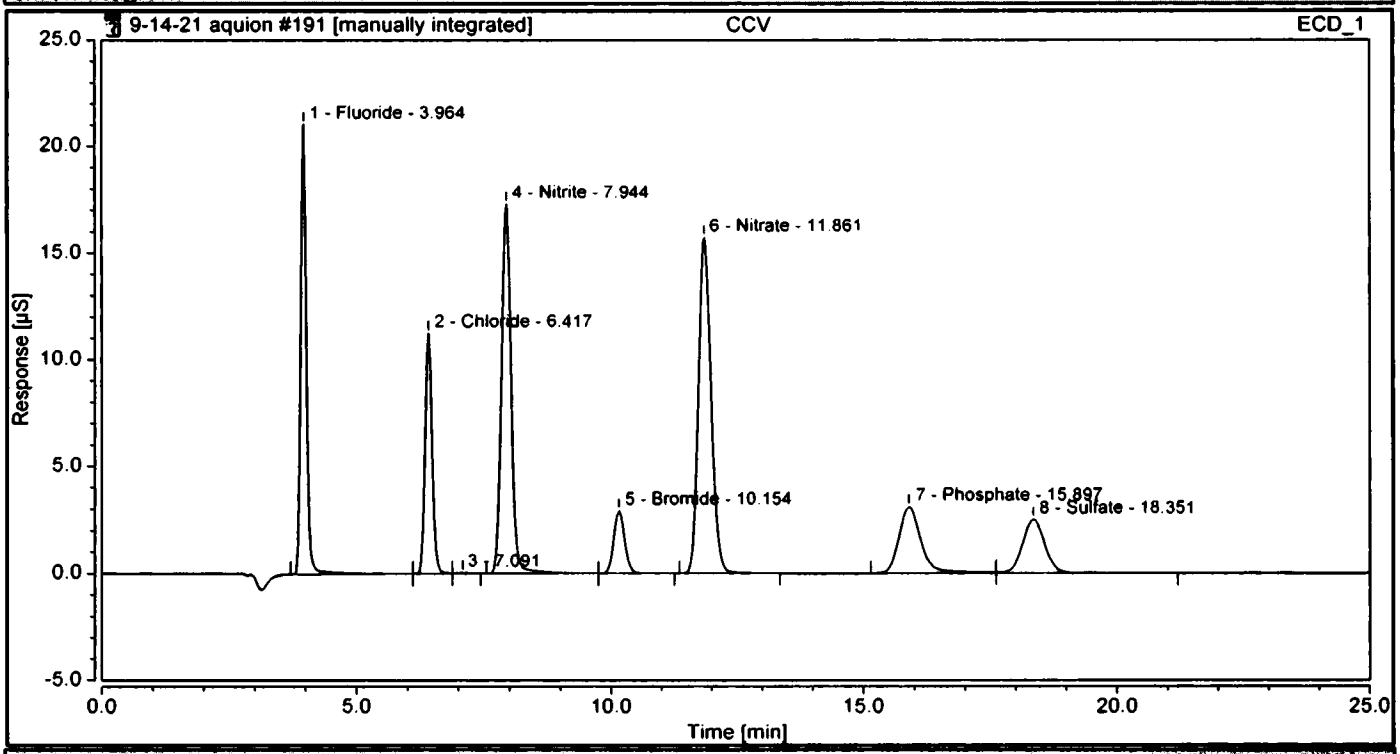
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | | 2.847 | 0.004 | 0.054 | n.a. | FALSE | n.a. |
| 2 | | 3.131 | 0.176 | 0.574 | n.a. | FALSE | n.a. |
| 3 | Fluoride | 3.924 | 0.027 | 0.053 | 99.875 | FALSE | 0.0854 |
| 4 | Chloride | 6.677 | 254.531 | 814.543 | 99.668 | TRUE | 1306.6542 |
| 5 | | 7.244 | 0.173 | 0.580 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 6 | Bromide | 10.151 | 0.233 | 0.939 | 99.871 | TRUE | 3.2098 |
| 7 | Nitrate | 11.867 | 0.004 | 0.013 | 99.717 | TRUE | 0.3306 |
| 8 | Phosphate | 16.124 | 0.016 | 0.017 | 99.819 | FALSE | n.a. |
| 9 | Sulfate | 18.244 | 14.312 | 30.131 | 99.936 | FALSE | 117.3660 |
| **Total:** | | | **269.477** | **846.903** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 01:08** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

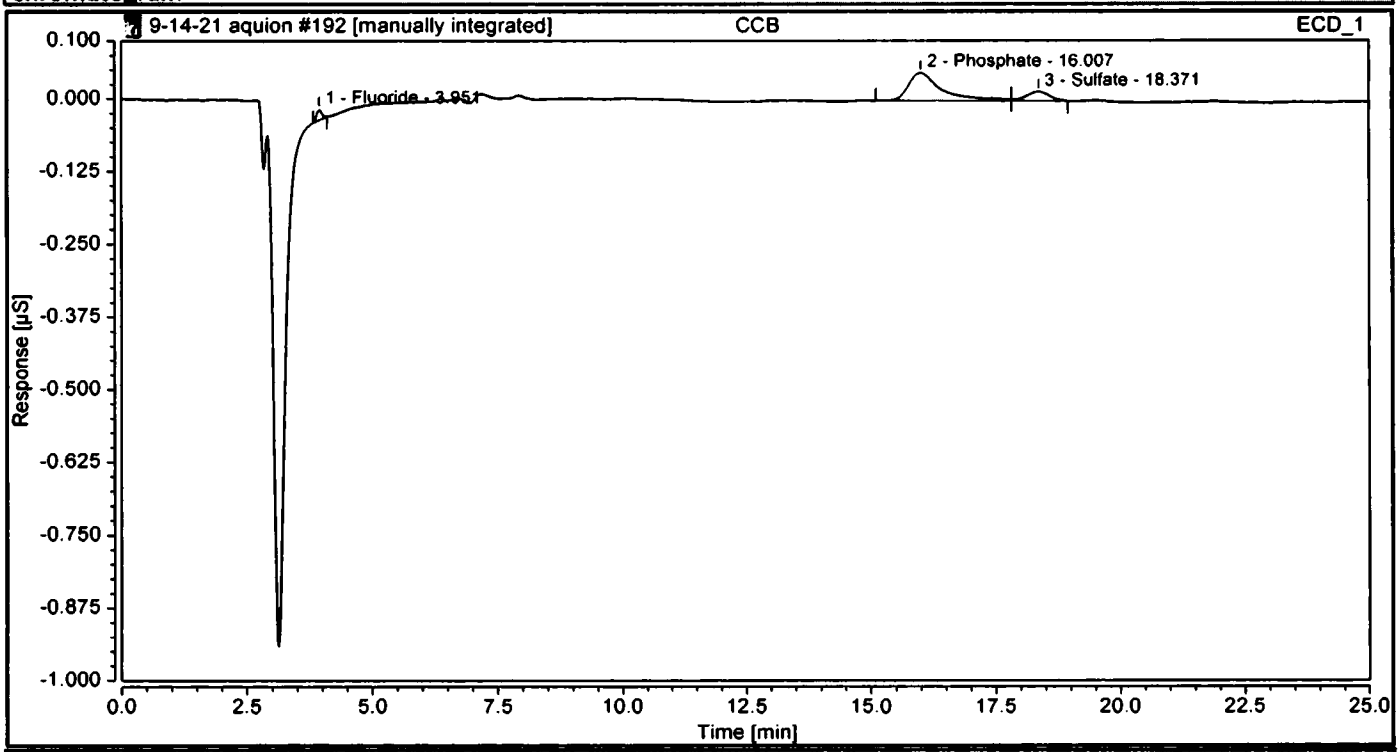
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.964 | 2.734 | 21.053 | 99.875 | TRUE | 10.8824 |
| 2 | Chloride | 6.417 | 1.758 | 11.253 | 99.668 | FALSE | 10.2289 |
| 3 | | 7.091 | 0.009 | 0.026 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.944 | 3.787 | 17.274 | 99.877 | TRUE | 10.6624 |
| 5 | Bromide | 10.154 | 0.725 | 2.921 | 99.871 | FALSE | 10.3863 |
| 6 | Nitrate | 11.861 | 4.512 | 15.721 | 99.717 | FALSE | 10.5521 |
| 7 | Phosphate | 15.897 | 1.561 | 3.099 | 99.819 | FALSE | 10.5747 |
| 8 | Sulfate | 18.351 | 1.272 | 2.511 | 99.936 | FALSE | 10.5462 |
| **Total:** | | | **16.357** | **73.858** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 01:35** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

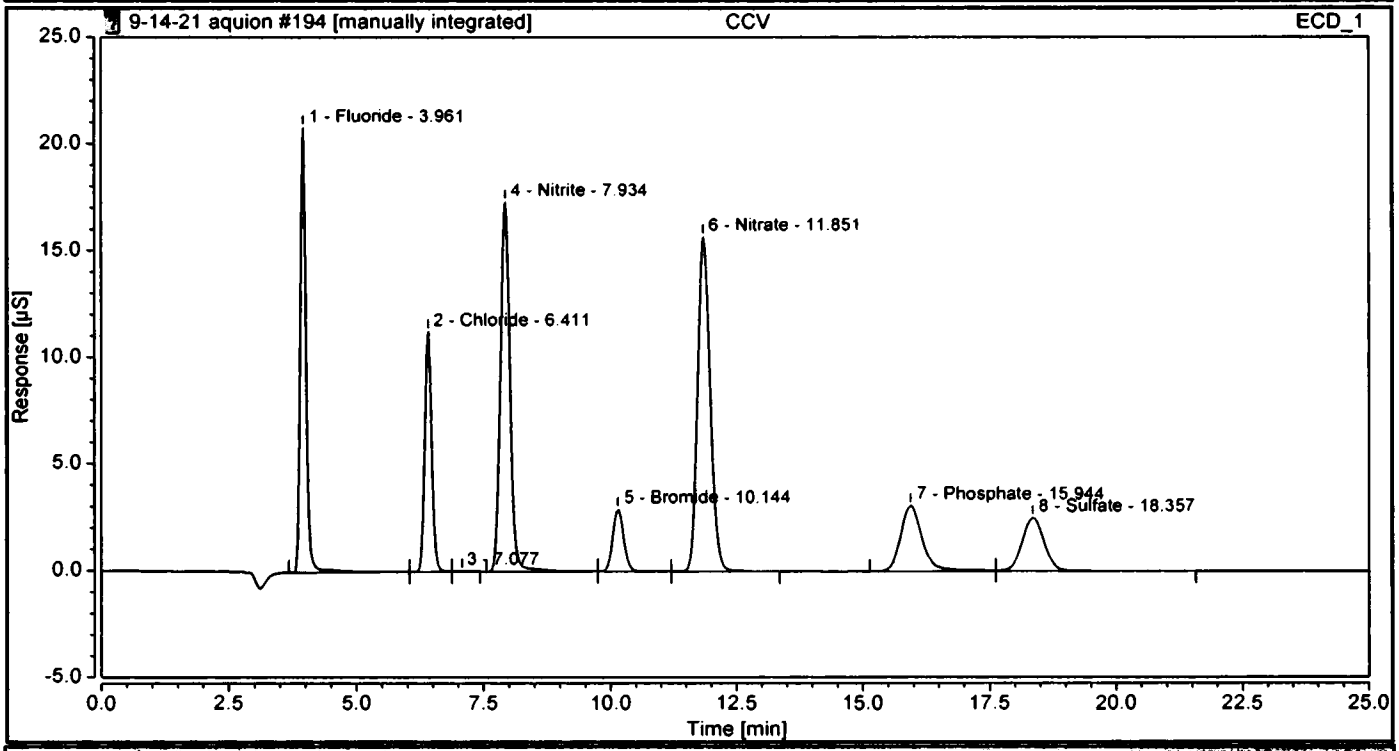
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.951 | 0.002 | 0.018 | 99.875 | TRUE | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 2 | Phosphate | 16.007 | 0.037 | 0.048 | 99.819 | FALSE | n.a. |
| 3 | Sulfate | 18.371 | 0.009 | 0.016 | 99.936 | FALSE | 0.1985 |
| **Total:** | | | **0.048** | **0.083** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 11:22** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

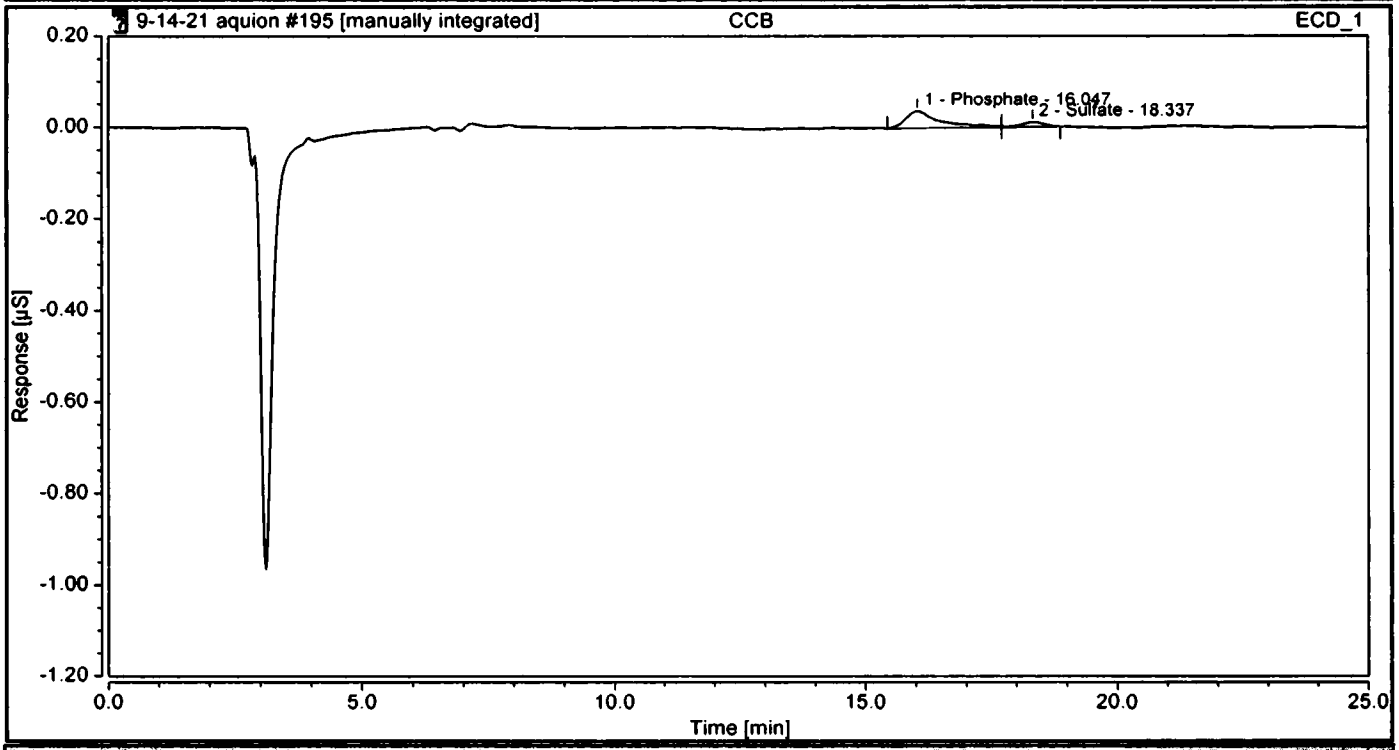
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.721 | 20.807 | 99.875 | TRUE | 10.8313 |
| 2 | Chloride | 6.411 | 1.749 | 11.246 | 99.668 | FALSE | 10.1822 |
| 3 | | 7.077 | 0.009 | 0.027 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.934 | 3.769 | 17.299 | 99.877 | TRUE | 10.6129 |
| 5 | Bromide | 10.144 | 0.720 | 2.907 | 99.871 | FALSE | 10.3130 |
| 6 | Nitrate | 11.851 | 4.488 | 15.677 | 99.717 | FALSE | 10.4968 |
| 7 | Phosphate | 15.944 | 1.545 | 3.070 | 99.819 | FALSE | 10.4599 |
| 8 | Sulfate | 18.357 | 1.268 | 2.499 | 99.936 | FALSE | 10.5186 |
| **Total:** | | | **16.269** | **73.532** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 11:49** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

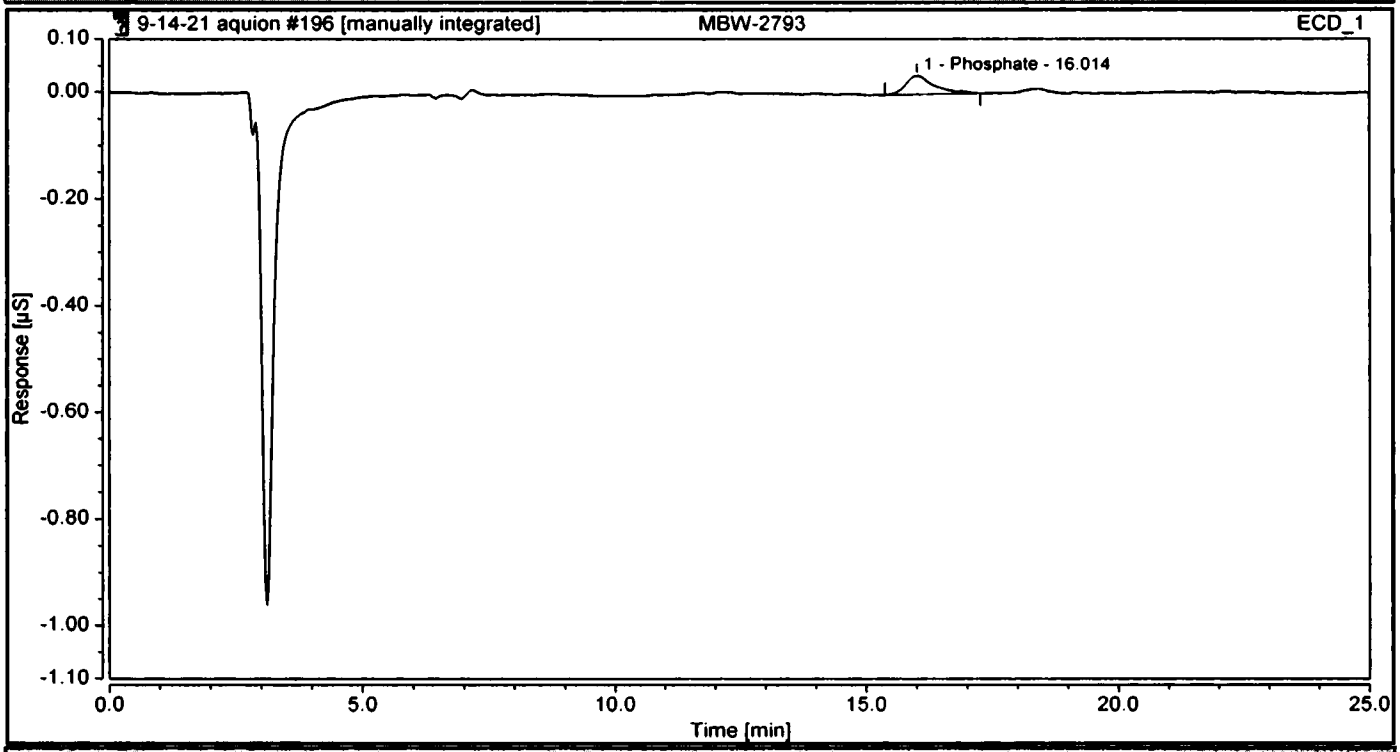
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 1 | Phosphate | 16.047 | 0.029 | 0.037 | 99.819 | FALSE | n.a. |
| 2 | Sulfate | 18.337 | 0.005 | 0.010 | 99.936 | FALSE | 0.1716 |
| **Total:** | | | **0.035** | **0.047** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **MBW-2793** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 12:16** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

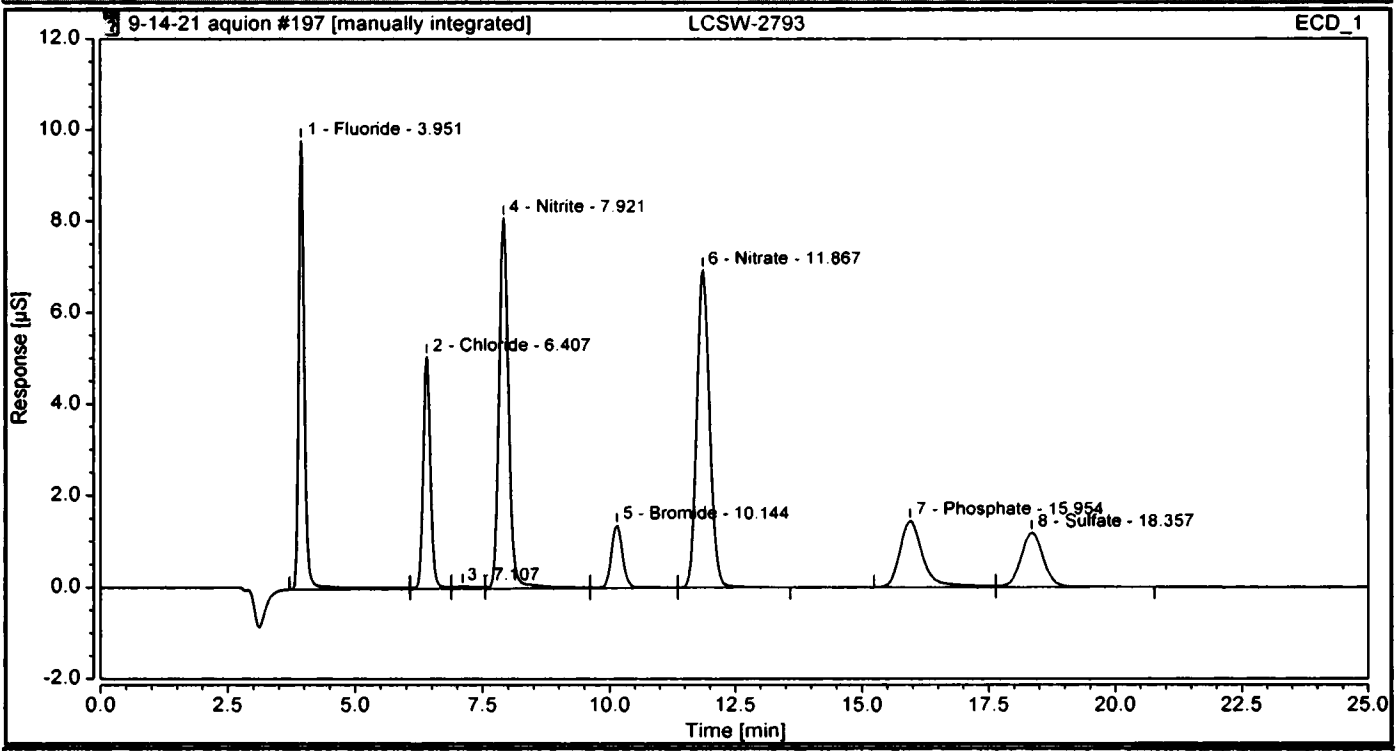
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| n.a. | Fluoride | n.a. | n.a. | n.a. | 99.875 | n.a. | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 1 | Phosphate | 16.014 | 0.023 | 0.035 | 99.819 | FALSE | n.a. |
| n.a. | Sulfate | n.a. | n.a. | n.a. | 99.936 | n.a. | n.a. |
| **Total:** | | | **0.023** | **0.035** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **LCSW-2793** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 12:42** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

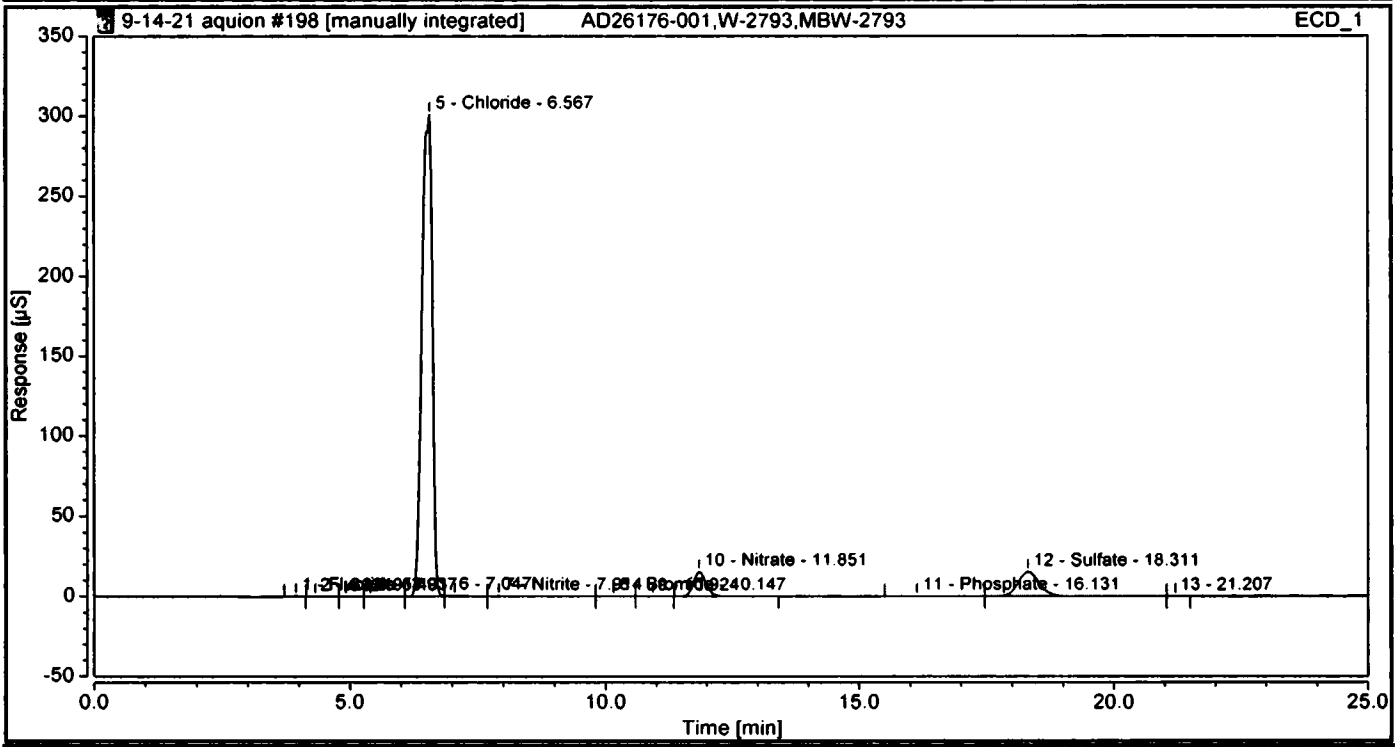
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.951 | 1.289 | 9.800 | 99.875 | TRUE | 5.1183 |
| 2 | Chloride | 6.407 | 0.820 | 5.069 | 99.668 | FALSE | 5.4137 |
| 3 | | 7.107 | 0.027 | 0.052 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.921 | 1.776 | 8.086 | 99.877 | TRUE | 5.0028 |
| 5 | Bromide | 10.144 | 0.363 | 1.375 | 99.871 | FALSE | 5.1136 |
| 6 | Nitrate | 11.867 | 2.027 | 6.941 | 99.717 | FALSE | 4.9180 |
| 7 | Phosphate | 15.954 | 0.767 | 1.449 | 99.819 | FALSE | 4.9213 |
| 8 | Sulfate | 18.357 | 0.609 | 1.187 | 99.936 | FALSE | 5.1179 |
| **Total:** | | | **7.678** | **33.968** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26176-001,W-2793,MBW-2793** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 13:26** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

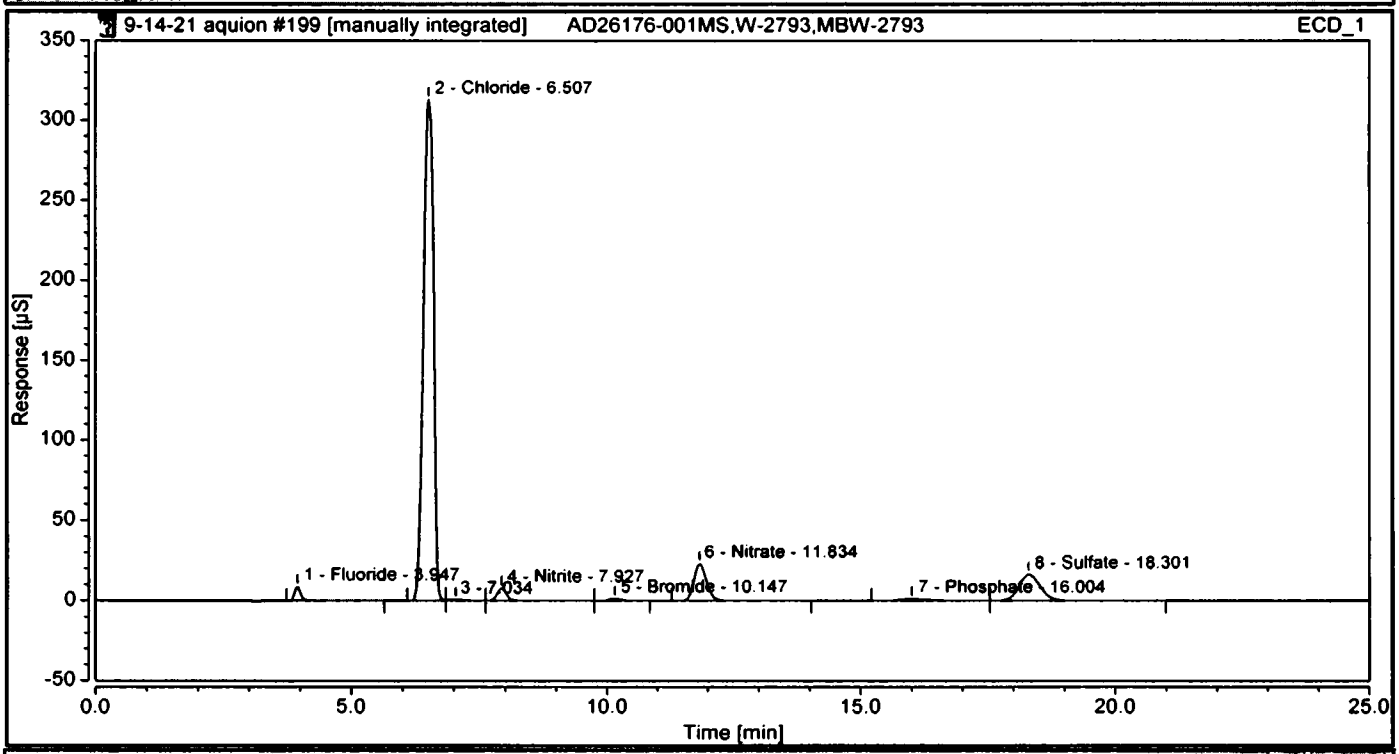
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.937 | 0.029 | 0.239 | 99.875 | FALSE | 0.0944 |
| 2 | | 4.321 | 0.008 | 0.019 | n.a. | FALSE | n.a. |
| 3 | | 4.917 | 0.006 | 0.015 | n.a. | FALSE | n.a. |
| 4 | | 5.401 | 0.009 | 0.013 | n.a. | FALSE | n.a. |
| 5 | Chloride | 6.567 | 70.803 | 300.787 | 99.668 | TRUE | 364.3465 |
| 6 | | 7.047 | 0.247 | 0.552 | n.a. | FALSE | n.a. |
| 7 | Nitrite | 7.914 | 0.075 | 0.213 | 99.877 | FALSE | 0.2171 |
| 8 | Bromide | 10.147 | 0.026 | 0.098 | 99.871 | FALSE | 0.1981 |
| 9 | | 10.924 | 0.003 | 0.006 | n.a. | FALSE | n.a. |
| 10 | Nitrate | 11.851 | 4.349 | 15.237 | 99.717 | FALSE | 10.1826 |
| 11 | Phosphate | 16.131 | 0.054 | 0.062 | 99.819 | FALSE | n.a. |
| 12 | Sulfate | 18.311 | 7.281 | 15.179 | 99.936 | FALSE | 59.7688 |
| 13 | | 21.207 | 0.001 | 0.004 | n.a. | FALSE | n.a. |
| **Total:** | | | **82.891** | **332.423** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26176-001MS,W-2793,MBW-2793** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 13:53** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

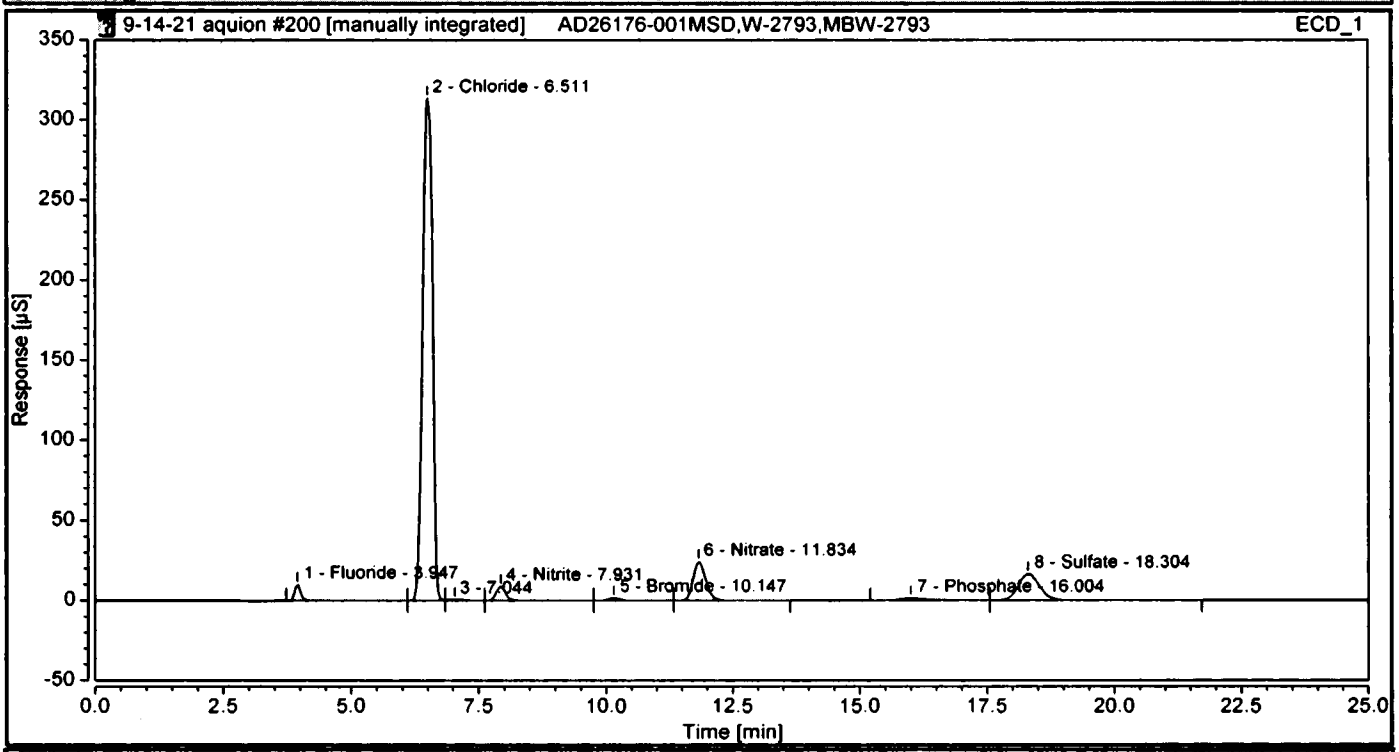
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 1.134 | 8.667 | 99.875 | TRUE | 4.5024 |
| 2 | Chloride | 6.507 | 71.378 | 312.992 | 99.668 | TRUE | 367.2946 |
| 3 | | 7.034 | 0.227 | 0.528 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.927 | 1.643 | 7.648 | 99.877 | FALSE | 4.6294 |
| 5 | Bromide | 10.147 | 0.328 | 1.331 | 99.871 | FALSE | 4.5990 |
| 6 | Nitrate | 11.834 | 6.539 | 23.011 | 99.717 | FALSE | 15.1473 |
| 7 | Phosphate | 16.004 | 0.704 | 1.093 | 99.819 | FALSE | 4.4715 |
| 8 | Sulfate | 18.301 | 7.855 | 16.333 | 99.936 | FALSE | 64.4713 |
| **Total:** | | | **89.808** | **371.601** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26176-001MSD,W-2793,MBW-2793** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 14:20** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

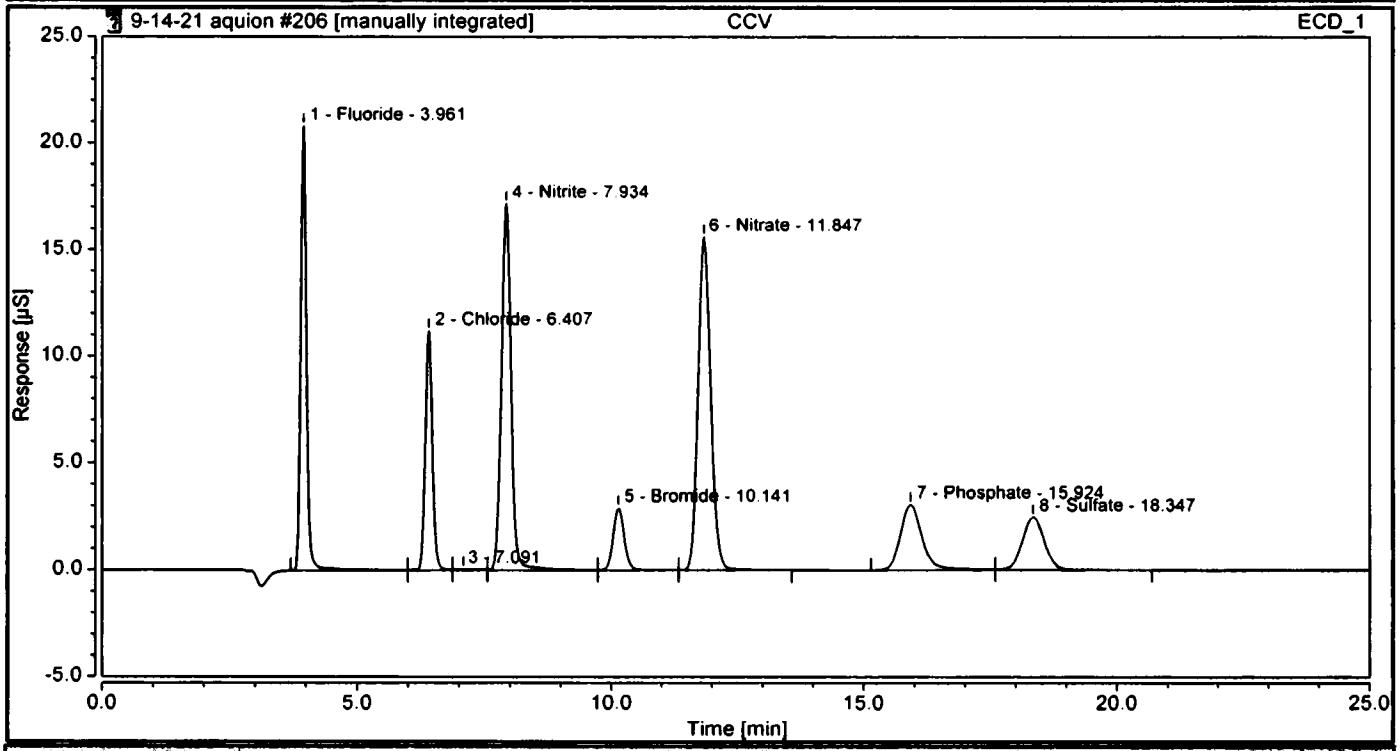
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 1.317 | 9.942 | 99.875 | TRUE | 5.2316 |
| 2 | Chloride | 6.511 | 71.469 | 313.426 | 99.668 | TRUE | 367.7637 |
| 3 | | 7.044 | 0.233 | 0.539 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.931 | 1.889 | 8.719 | 99.877 | TRUE | 5.3219 |
| 5 | Bromide | 10.147 | 0.382 | 1.511 | 99.871 | FALSE | 5.3803 |
| 6 | Nitrate | 11.834 | 6.851 | 24.097 | 99.717 | FALSE | 15.8546 |
| 7 | Phosphate | 16.004 | 0.872 | 1.353 | 99.819 | FALSE | 5.6639 |
| 8 | Sulfate | 18.304 | 7.954 | 16.481 | 99.936 | FALSE | 65.2843 |
| **Total:** | | | **90.966** | **376.069** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 17:03** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

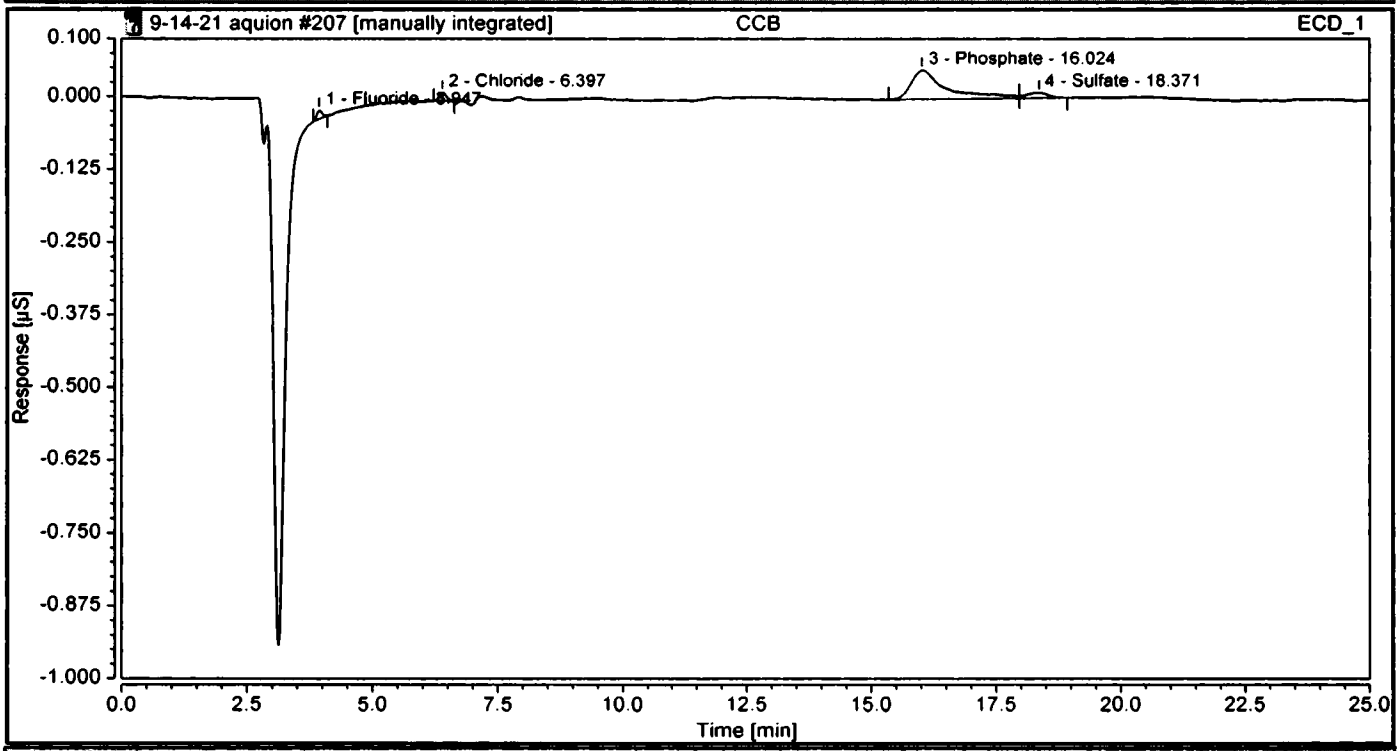
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.734 | 20.817 | 99.875 | TRUE | 10.8823 |
| 2 | Chloride | 6.407 | 1.767 | 11.208 | 99.668 | FALSE | 10.2723 |
| 3 | | 7.091 | 0.029 | 0.055 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.934 | 3.801 | 17.167 | 99.877 | TRUE | 10.7022 |
| 5 | Bromide | 10.141 | 0.741 | 2.910 | 99.871 | FALSE | 10.6138 |
| 6 | Nitrate | 11.847 | 4.492 | 15.618 | 99.717 | FALSE | 10.5061 |
| 7 | Phosphate | 15.924 | 1.539 | 3.058 | 99.819 | FALSE | 10.4226 |
| 8 | Sulfate | 18.347 | 1.255 | 2.475 | 99.936 | FALSE | 10.4120 |
| **Total:** | | | **16.357** | **73.308** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 17:30** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

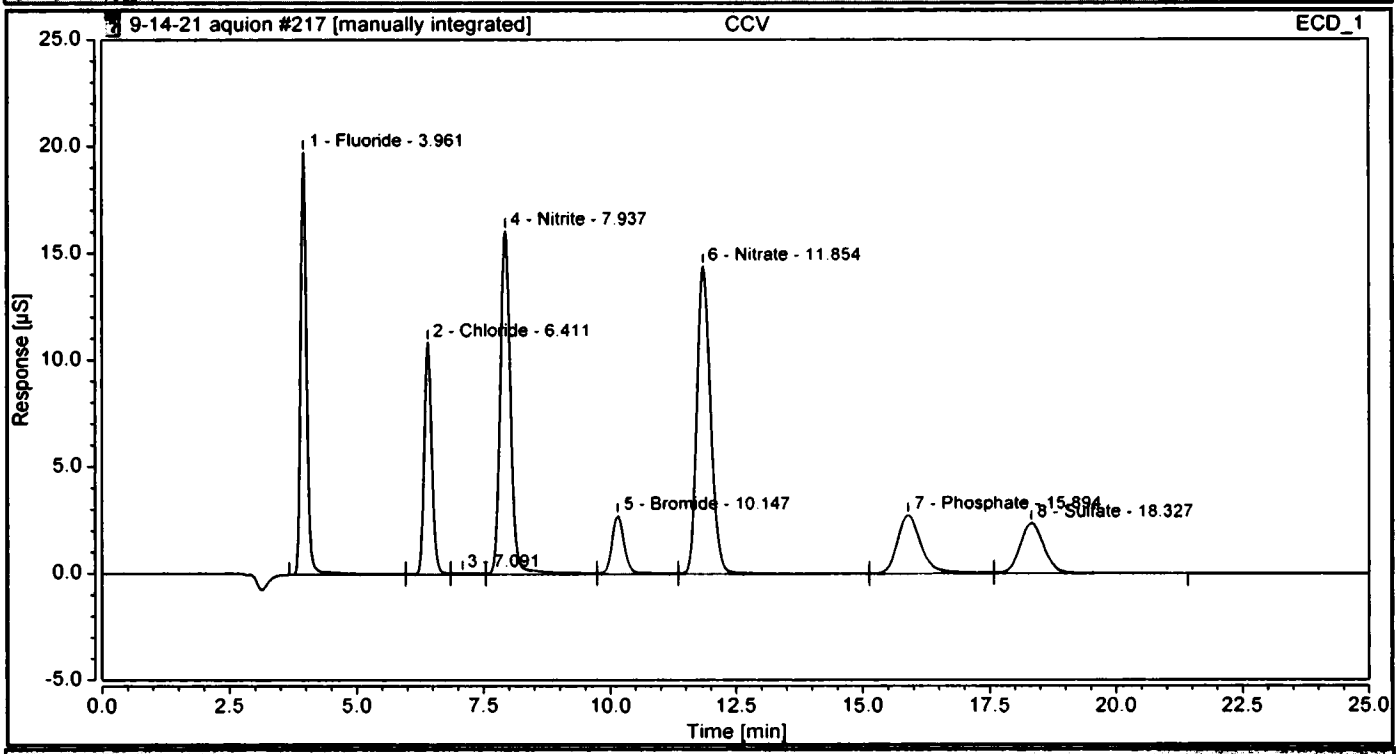
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 0.002 | 0.015 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.397 | 0.002 | 0.015 | 99.668 | TRUE | 1.2223 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 3 | Phosphate | 16.024 | 0.041 | 0.051 | 99.819 | FALSE | n.a. |
| 4 | Sulfate | 18.371 | 0.005 | 0.010 | 99.936 | FALSE | 0.1660 |
| **Total:** | | | **0.050** | **0.090** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 22:02** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

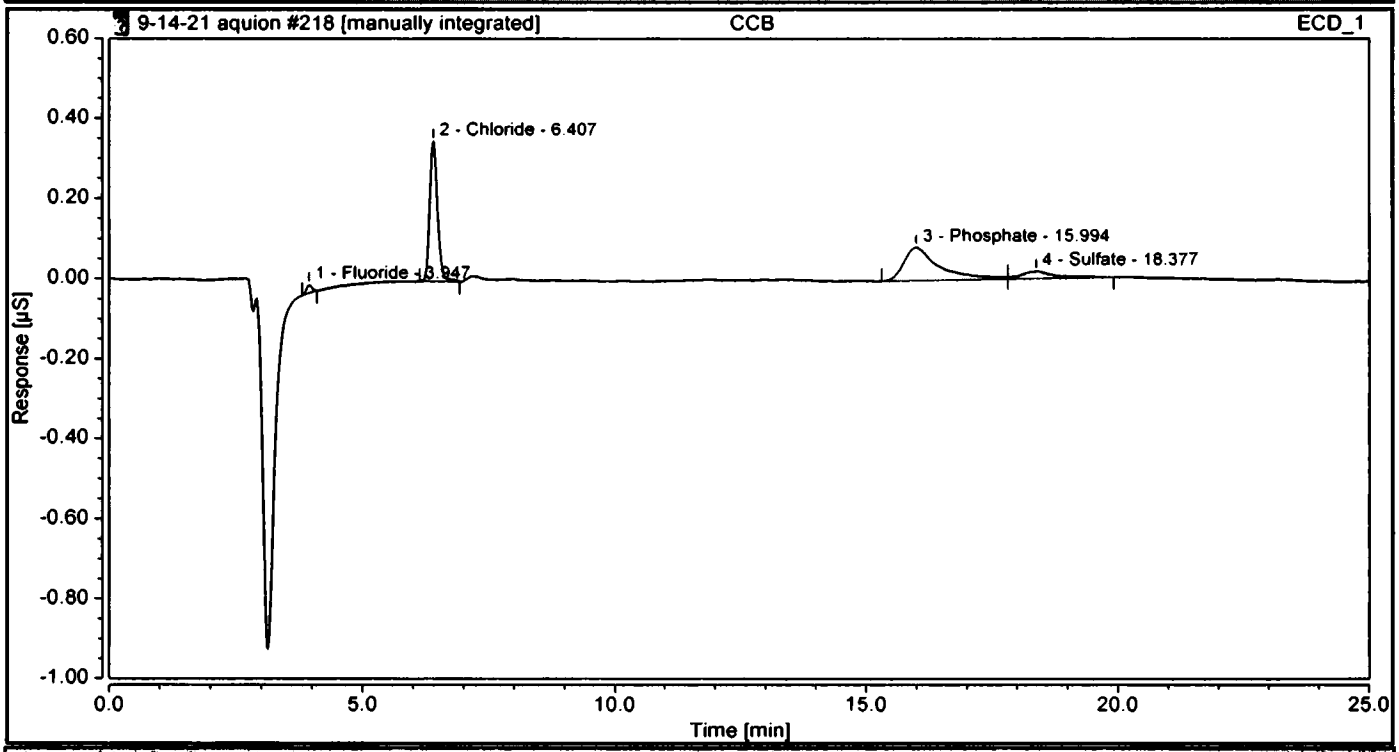
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.736 | 19.754 | 99.875 | TRUE | 10.8899 |
| 2 | Chloride | 6.411 | 1.846 | 10.868 | 99.668 | FALSE | 10.6803 |
| 3 | | 7.091 | 0.036 | 0.064 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.937 | 3.839 | 16.075 | 99.877 | TRUE | 10.8085 |
| 5 | Bromide | 10.147 | 0.798 | 2.739 | 99.871 | FALSE | 11.4460 |
| 6 | Nitrate | 11.854 | 4.531 | 14.412 | 99.717 | FALSE | 10.5952 |
| 7 | Phosphate | 15.894 | 1.504 | 2.742 | 99.819 | FALSE | 10.1686 |
| 8 | Sulfate | 18.327 | 1.313 | 2.360 | 99.936 | FALSE | 10.8845 |
| **Total:** | | | **16.603** | **69.013** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 22:29** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

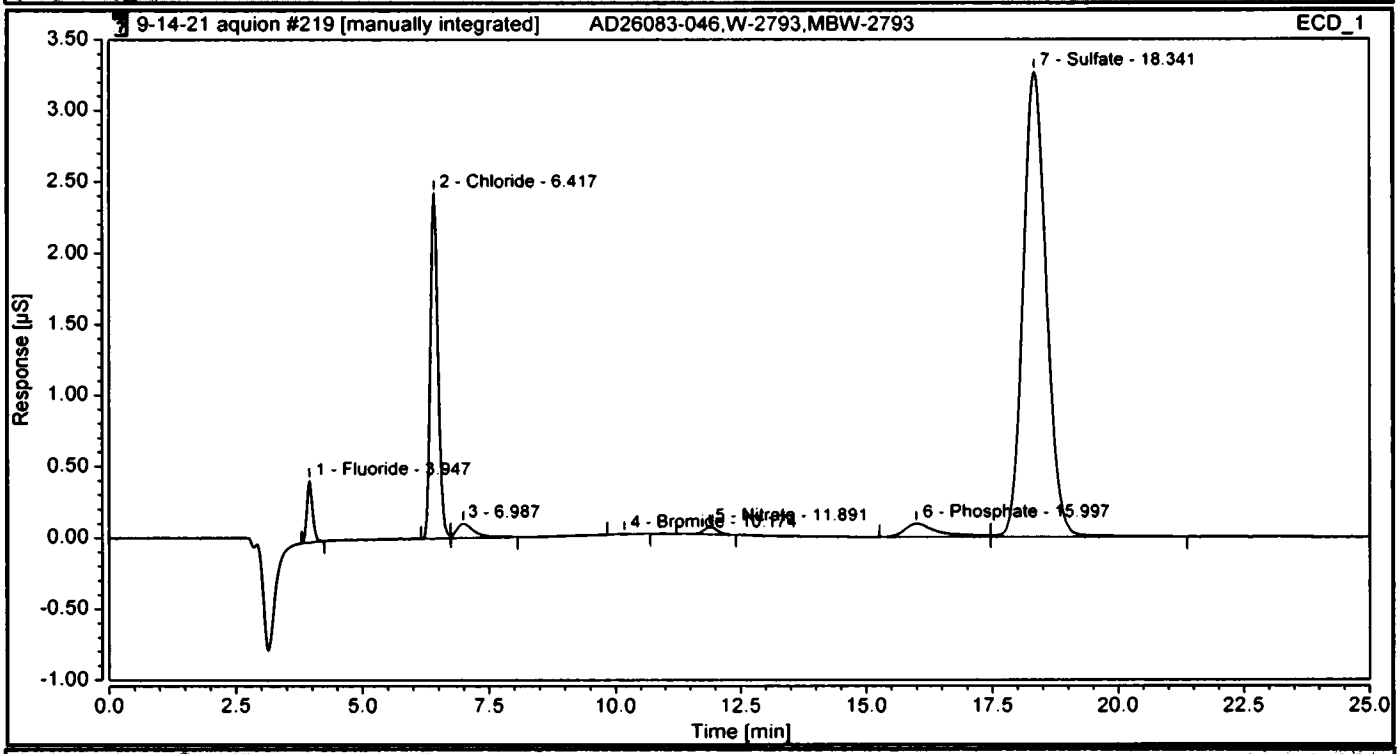
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 0.003 | 0.020 | 99.875 | TRUE | n.a. |
| 2 | Chloride | 6.407 | 0.062 | 0.349 | 99.668 | TRUE | 1.5275 |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 3 | Phosphate | 15.994 | 0.067 | 0.083 | 99.819 | FALSE | n.a. |
| 4 | Sulfate | 18.377 | 0.014 | 0.018 | 99.936 | FALSE | 0.2418 |
| **Total:** | | | **0.146** | **0.470** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-046,W-2793,MBW-2793** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 22:57** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

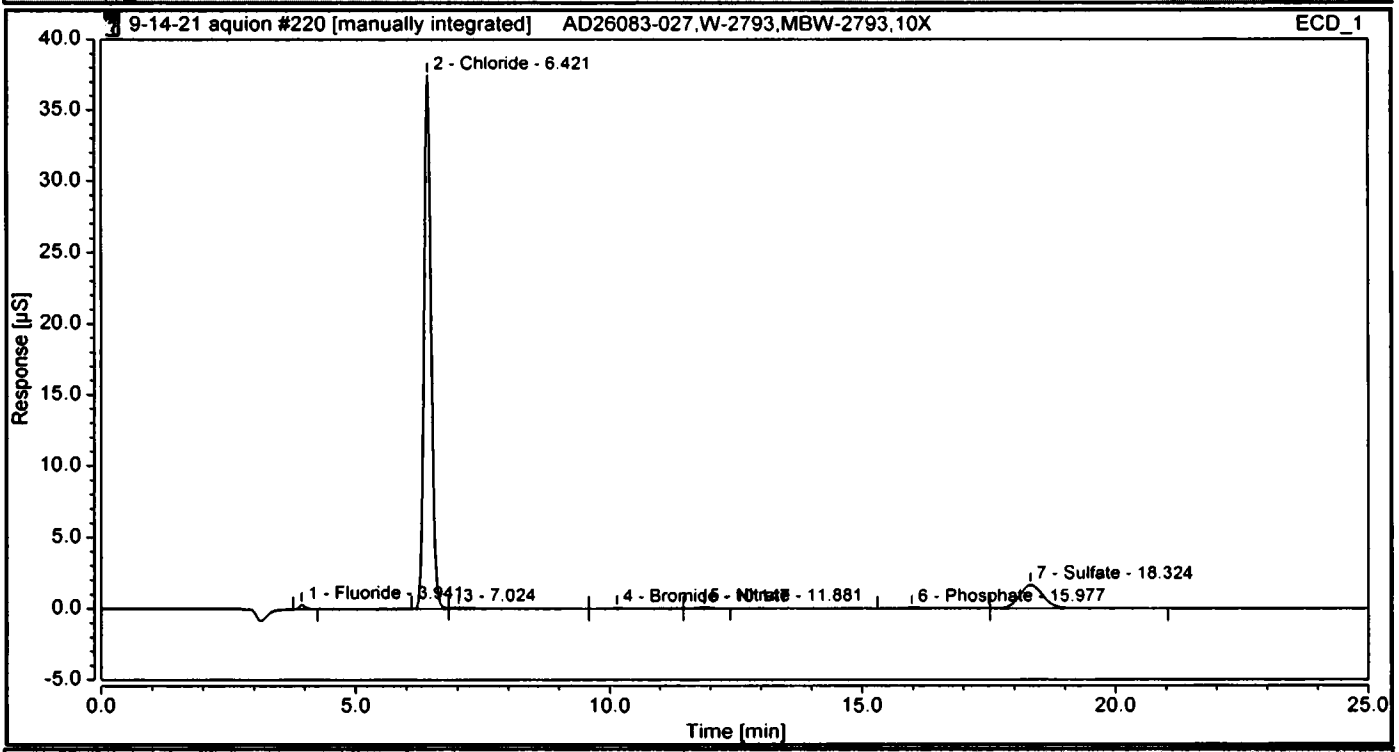
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 0.055 | 0.430 | 99.875 | TRUE | 0.1975 |
| 2 | Chloride | 6.417 | 0.424 | 2.422 | 99.668 | TRUE | 3.3859 |
| 3 | | 6.987 | 0.040 | 0.099 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.174 | 0.002 | 0.004 | 99.871 | FALSE | n.a. |
| 5 | Nitrate | 11.891 | 0.017 | 0.052 | 99.717 | FALSE | 0.3603 |
| 6 | Phosphate | 15.997 | 0.072 | 0.093 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.341 | 1.739 | 3.267 | 99.936 | FALSE | 14.3731 |
| **Total:** | | | **2.350** | **6.368** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **AD26083-027,W-2793,MBW-2793,10X** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 23:24** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

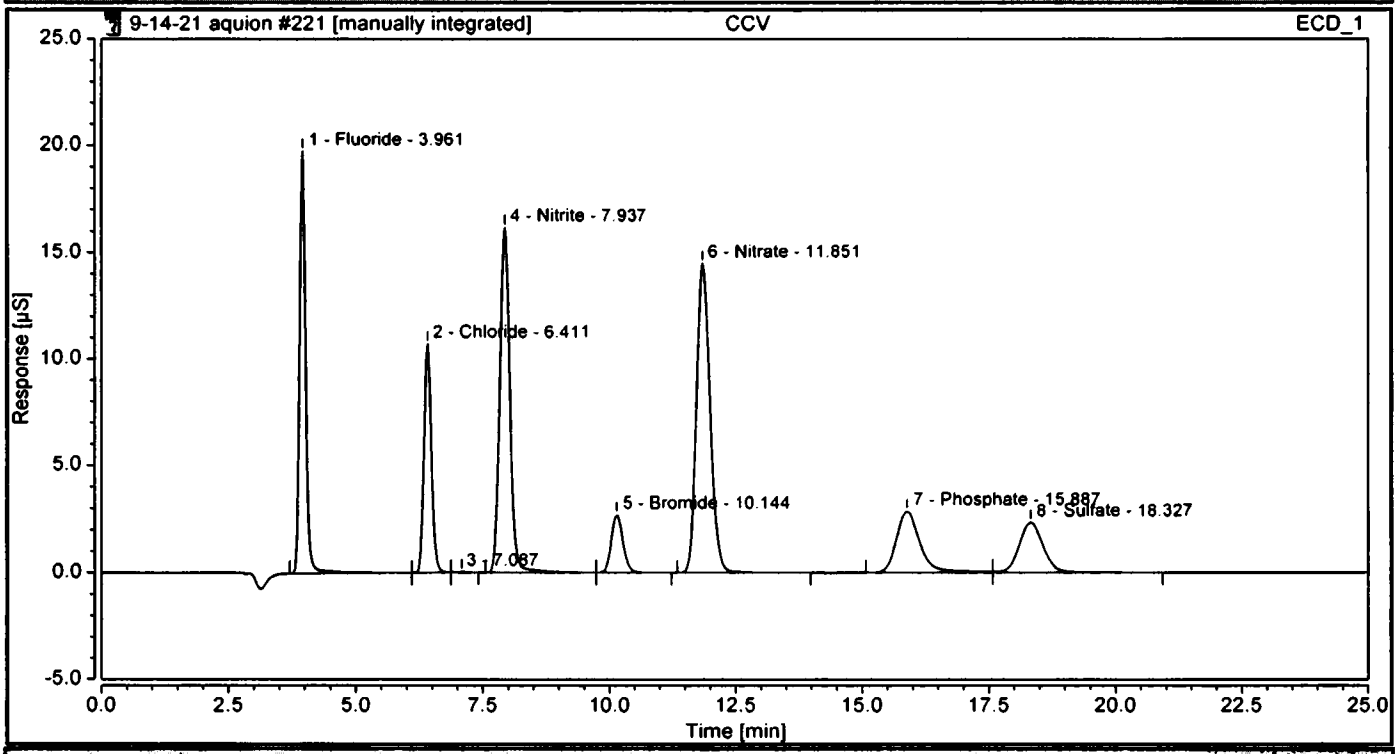
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.941 | 0.039 | 0.297 | 99.875 | TRUE | 0.1328 |
| 2 | Chloride | 6.421 | 6.018 | 37.478 | 99.668 | TRUE | 32.0744 |
| 3 | | 7.024 | 0.043 | 0.089 | n.a. | TRUE | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| 4 | Bromide | 10.147 | 0.011 | 0.032 | 99.871 | TRUE | n.a. |
| 5 | Nitrate | 11.881 | 0.027 | 0.084 | 99.717 | TRUE | 0.3828 |
| 6 | Phosphate | 15.977 | 0.040 | 0.051 | 99.819 | FALSE | n.a. |
| 7 | Sulfate | 18.324 | 0.877 | 1.633 | 99.936 | FALSE | 7.3132 |
| **Total:** | | | **7.055** | **39.663** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCV** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **23/Sep/21 23:51** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

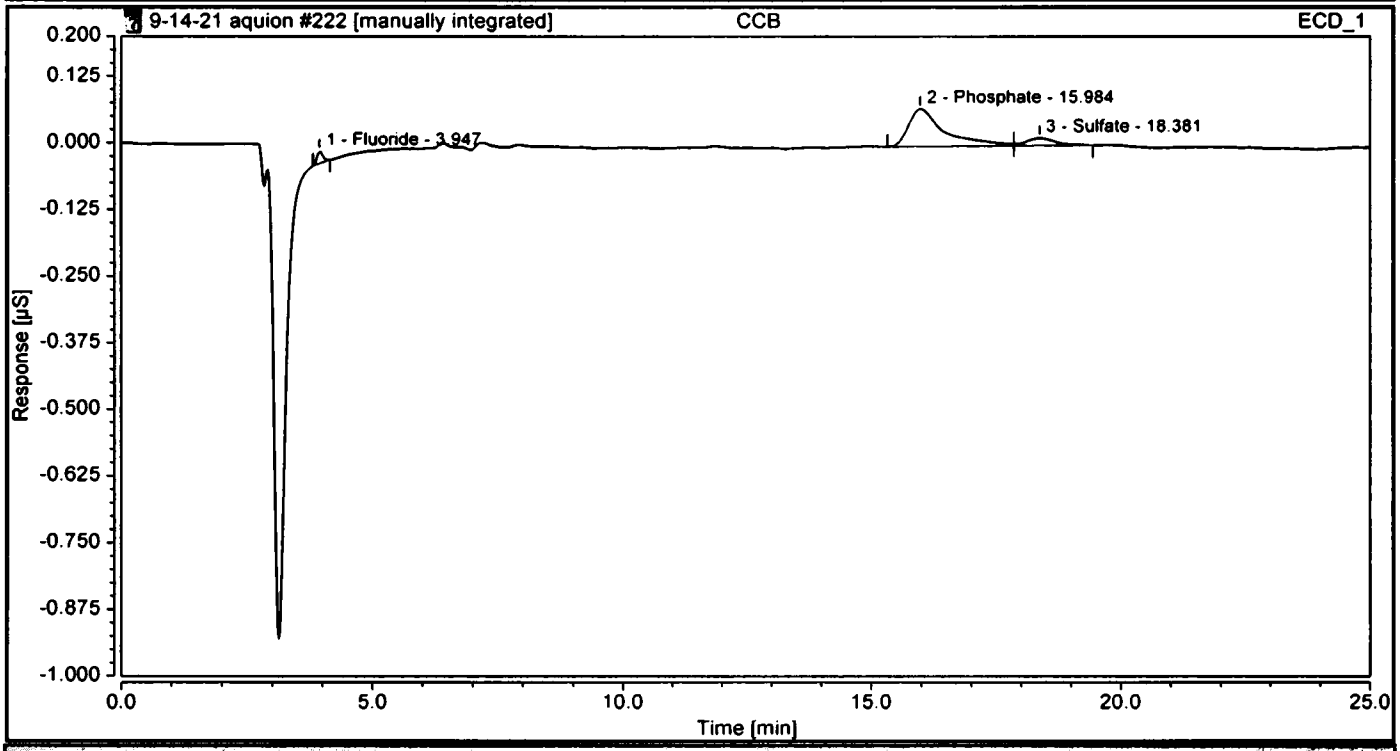
| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.961 | 2.706 | 19.754 | 99.875 | TRUE | 10.7735 |
| 2 | Chloride | 6.411 | 1.792 | 10.723 | 99.668 | FALSE | 10.4030 |
| 3 | | 7.087 | 0.009 | 0.028 | n.a. | FALSE | n.a. |
| 4 | Nitrite | 7.937 | 3.746 | 16.151 | 99.877 | TRUE | 10.5480 |
| 5 | Bromide | 10.144 | 0.718 | 2.703 | 99.871 | FALSE | 10.2839 |
| 6 | Nitrate | 11.851 | 4.456 | 14.488 | 99.717 | FALSE | 10.4243 |
| 7 | Phosphate | 15.887 | 1.545 | 2.863 | 99.819 | FALSE | 10.4632 |
| 8 | Sulfate | 18.327 | 1.272 | 2.344 | 99.936 | FALSE | 10.5477 |
| **Total:** | | | **16.245** | **69.053** | **698.76** | **#REF!** | |

# Chromatogram and Results

## Injection Details

| | | | |
|---|---|---|---|
| *Injection Name:* | **CCB** | *Run Time (min):* | **25.00** |
| *File Name:* | | *Injection Volume:* | **25.00** |
| *Injection Type:* | **Unknown** | *Channel:* | **ECD_1** |
| *Calibration Level:* | | *Wavelength:* | **n.a.** |
| *Instrument Method:* | **011112 Instrument Method** | *Bandwidth:* | **n.a.** |
| *Processing Method:* | **011112 ProcMethod** | *Dilution Factor:* | **1.0000** |
| *Injection Date/Time:* | **24/Sep/21 00:18** | *Sample Weight:* | **1.0000** |

## Chromatogram




## Integration Results

| No. | Peak Name | Retention Time min | Area µS*min | Height µS | R-Squared % | Manipulated? | Amount |
|---|---|---|---|---|---|---|---|
| 1 | Fluoride | 3.947 | 0.003 | 0.023 | 99.875 | TRUE | n.a. |
| n.a. | Chloride | n.a. | n.a. | n.a. | 99.668 | n.a. | n.a. |
| n.a. | Nitrite | n.a. | n.a. | n.a. | 99.877 | n.a. | n.a. |
| n.a. | Bromide | n.a. | n.a. | n.a. | 99.871 | n.a. | n.a. |
| n.a. | Nitrate | n.a. | n.a. | n.a. | 99.717 | n.a. | n.a. |
| 2 | Phosphate | 15.984 | 0.058 | 0.070 | 99.819 | FALSE | n.a. |
| 3 | Sulfate | 18.381 | 0.009 | 0.014 | 99.936 | FALSE | 0.2023 |
| **Total:** | | | **0.070** | **0.107** | **698.76** | **#REF!** | |

1091738 3239

# Wet Chemistry Data
# Preparation and Distillation Logbook Data

1091738 3240

Hampton-Clarke

# CYANIDE DISTILLATION DATA / BATCHING SHEET (AQUEOUS SAMPLES ONLY)

**Method:** 335.4 ___ SM4500 (Total) ___ 9012B ✓ Total $CN^-$ ___ Amenable $CN^-$ ___ OIA 1677 Avail $CN^-$ ___ SM4500 WAD $CN^-$ ___.

Batch No. 1518 Distilled by: ~~RSLL~~ Start Distill. Time: 11:00 End Distill. Time: 11:32 Date: 9/12/14

| Laboratory Sample No. | Sulfamic Acid Added? | Spike Volume | Sample Vol. (ml) | Scrub Vol. (ml) | Sulfide Check Y/N | $PbCO_3$ Added (gm) | Oxidizer Check Y/N | Sodium Thiosulfate Added (gm) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| MB | ✓ | | 6 | 6 | | | | | Balance used: N/A |
| LCS LCSD | | 0.12 | | | | | | | Pipettes used: |
| 1. AD26146-001 | | | | | | | | | |
| Dup 1. -001 | | | | | | | | | Micro-dist used: 2,3 |
| MS -001 | | 0.12 | | | | | | | |
| MSD -001 | | " | | | | | | | |
| 2. AD26148-001 | | | | | | | | | |
| 3. AD26218-001 | | | | | | | | | |
| 4. -002 | | | | | | | | | |
| 5. -003 | | | | | | | | | |
| 6. -004 | | | | | | | | | |
| 7. -005 | | | | | | | | | |
| 8. -006 | | | | | | | | | |
| 9. -007 | | | | | | | | | |
| 10. -008 | | | | | | | | | |
| Cal Curve Blank | | | | | | | | | V- |
| Std. ___ ppm | | | | | | | | | V- |
| Std. ___ ppm | | | | | | | | | V- |
| Std. ___ ppm | | | | | | | | | V- |
| Std. ___ ppm | | | | | | | | | V- |
| Std. ___ ppm | | | | | | | | | V- |
| Std. 0.8 ppm | | 0.24 | | | | | | | V- 358091 ★ |

| Reagent: | 1 M NaOH | Releasing Solution | Spike | $PbCO_3$ | Sodium Thiosulfate | Sulfamic Acid |
|---|---|---|---|---|---|---|
| Lot #: | V- 356283 | V- 357078 | V- 358089 | V- | V- | V- |

★ Samples analyzed on AQ2. Only 0.8 ppm Std used.

1091738 3241

Hampton-Clarke

# CYANIDE DISTILLATION DATA / BATCHING SHEET (AQUEOUS SAMPLES ONLY)

**Method:** 335.4 ____ SM4500 (Total) ____ 9012B ✓ Total $CN^-$ ____ Amenable $CN^-$ ____ OIA 1677 Avail $CN^-$ ____ SM4500 WAD $CN^-$ ____

Batch No. 1578 Distilled by: LL Start Distill. Time: ____ End Distill. Time: ____ Date: ____

| Laboratory Sample No. | Sulfamic Acid Added? | Spike Volume | Sample Vol. (ml) | Scrub Vol. (ml) | Sulfide Check Y/N | $PbCO_3$ Added (gm) | Oxidizer Check Y/N | Sodium Thiosulfate Added (gm) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| MB | | | | | | | | | Balance used: |
| LCS | | | | | | | | | Pipettes used: |
| 1. | | | | | | | | | |
| Dup 1. | | | | | | | | | Micro-dist used: |
| MS | | | | | | | | | |
| MSD L AD26218-009 | ✓ | | 6 | 6 | | | | | |
| 2. L -011 | | | | | | | | | |
| 3. AD26083-019 | | | | | | | | | |
| 4. AD26185-001 | | | | | | | | | |
| 5. AD26228-001 | | | | | | | | | |
| 6. -002 | | | | | | | | | |
| 7. -003 | | | | | | | | | |
| 8. -004 | | | | | | | | | |
| 9. -005 | | | | | | | | | |
| 10. MDL-83-3 | | | | | | | | | |
| Cal Curve Blank | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |

| Reagent: | 1 M NaOH | Releasing Solution | Spike | $PbCO_3$ | Sodium Thiosulfate | Sulfamic Acid |
|---|---|---|---|---|---|---|
| Lot #: | V- | V- | V- | V- | V- | V- |

1091738 3242

Hampton-Clarke

# CYANIDE DISTILLATION DATA / BATCHING SHEET (AQUEOUS SAMPLES ONLY)

**Method:** 335.4 ____ **SM4500 (Total)** ____ **9012B** ✓ **Total CN⁻** ____ **Amenable CN⁻** ____ **OIA 1677 Avail CN⁻** ____ **SM4500 WAD CN⁻** ____

Batch No. 1576 Distilled by: LL Start Distill. Time: 10:15 End Distill. Time: 0:45 Date: 09/20/2021

| Laboratory Sample No. | Sulfamic Acid Added? | Spike Volume | Sample Vol. (ml) | Scrub Vol. (ml) | Sulfide Check Y/N | $PbCO_3$ Added (gm) | Oxidizer Check Y/N | Sodium Thiosulfate Added (gm) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| MB | ✓ | | 6 | 6 | | | | | Balance used: N/A |
| LCS (LCSD) | | 0.5 | | | | | | | Pipettes used: 11, 14, 34 |
| 1. AD26083-010 | | | | | | | | | |
| Dup 1. -010 | | | | | | | | | Micro-dist used: 2, 3 |
| MS -012 | | 0.5 | | | | | | | |
| MSD " -014 | | " | | | | | | | |
| 2. AD25969-005 | | | | | | | | | |
| 3. " -006 | | | | | | | | | |
| 4. AD26063-001 | | | | | | | | | |
| 5. AD25979-001 | | | | | | | | | |
| 6. " -003 | | | | | | | | | |
| 7. AD26045-002 | | | | | | | | | |
| 8. " -004 | | | | | | | | | |
| 9. AD26059-004 | | | | | | | | | |
| 10. " -006 | | | | | | | | | |
| Cal Curve Blank | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. 0.8 ppm | | 0.4 | | | | | | | V- 357595 ★ |

| Reagent: | 1 M NaOH | Releasing Solution | Spike | $PbCO_3$ | Sodium Thiosulfate | Sulfamic Acid |
|---|---|---|---|---|---|---|
| Lot #: | V-356283 | V-357078 | V- 357594 | V- | V- | V- |

★ Samples analyzed on AQ2. Only 0.8 ppm Std. used.

1091738 3243

Hampton-Clarke

# CYANIDE DISTILLATION DATA / BATCHING SHEET (AQUEOUS SAMPLES ONLY)

**Method: 335.4 ___ SM4500 (Total)____ 9012B ✓ Total $CN^-$____ Amenable $CN^-$____ OIA 1677 Avail $CN^-$_____SM4500 WAD $CN^-$ ____**

Batch No. 5576 Distilled by: LL Start Distill. Time:_____ End Distill. Time:____ Date: _____

| Laboratory Sample No. | Sulfamic Acid Added? | Spike Volume | Sample Vol. (ml) | Scrub Vol. (ml) | Sulfide Check Y/N | $PbCO_3$ Added (gm) | Oxidizer Check Y/N | Sodium Thiosulfate Added (gm) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| ~~MB~~ | | | | | | | | | Balance used: |
| LCS | | | | | | | | | Pipettes used: |
| 1. | | | | | | | | | |
| Dup 1 | | | | | | | | | Micro-dist used: |
| MS | | | | | | | | | |
| ~~MSD~~ 1. ADZ6077-003 | ✓ | | 6 | 6 | | | | | |
| 2. -004 | | | | | | | | | |
| 3. -005 | | | | | | | | | |
| 4. ADZ6083-001 | | | | | | | | | |
| 5. -002 | | | | | | | | | |
| 6. -003 | | | | | | | | | |
| 7. -005 | | | | | | | | | |
| 8. -008 | | | | | | | | | |
| 9. -009 | | | | | | | | | |
| 10. -011 | | | | | | | | | |
| Cal Curve Blank | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |

| Reagent: | 1 M NaOH | Releasing Solution | Spike | $PbCO_3$ | Sodium Thiosulfate | Sulfamic Acid |
|---|---|---|---|---|---|---|
| Lot #: | V- | V- | V- | V- | V- | V- |

1091738 3244

Hampton-Clarke

# CYANIDE DISTILLATION DATA / BATCHING SHEET (AQUEOUS SAMPLES ONLY)

**Method:** 335.4 ___ SM4500 (Total) ___ 9012B ✓ Total CN⁻ ___ Amenable CN⁻ ___ OIA 1677 Avail CN⁻ ___ SM4500 WAD CN⁻ ___

Batch No. 1577 Distilled by: LL Start Distill. Time: 12:45 End Distill. Time: 15:10 Date: 09/20/2024

| Laboratory Sample No. | Sulfamic Acid Added? | Spike Volume | Sample Vol. (ml) | Scrub Vol. (ml) | Sulfide Check Y/N | $PbCO_3$ Added (gm) | Oxidizer Check Y/N | Sodium Thiosulfate Added (gm) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| MB | ✓ | | 6 | 6 | | | | | Balance used: N/A |
| LCS / LCSD | | 0.12 | | | | | | | Pipettes used: 11, 14, 34 |
| 1. AQ2083-048 | | | | | | | | | |
| Dup 1. -048 | | | | | | | | | Micro-dist used: 2, 3 |
| MS -049 | | 0.12 | | | | | | | |
| MSD -050 | | | | | | | | | |
| 2. -006 | | | | | | | | | |
| 3. -012 | | | | | | | | | |
| 4. -014 | | | | | | | | | |
| 5. -016 | | | | | | | | | |
| 6. -018 | | | | | | | | | |
| 7. -021 | | | | | | | | | |
| 8. -023 | | | | | | | | | |
| 9. -026 | | | | | | | | | |
| 10. -027 | | | | | | | | | |
| Cal Curve Blank | | | | | | | | | V- |
| Std. ___ ppm | | | | | | | | | V- |
| Std. ___ ppm | | | | | | | | | V- |
| Std. ___ ppm | | | | | | | | | V- |
| Std. ___ ppm | | | | | | | | | V- |
| Std. ___ ppm | | | | | | | | | V- |
| Std. 0.8 ppm | | 0.24 | | | | | | | V- 357599 ☆ |

| Reagent: | 1 M NaOH | Releasing Solution | Spike | $PbCO_3$ | Sodium Thiosulfate | Sulfamic Acid |
|---|---|---|---|---|---|---|
| Lot #: | V- 356283 | V- 357078 | V- 357594 | V- | V- | V- |

☆ Samples analyzed on AQ2. Only 0.8 ppm Std. used.

1091738 3245

Hampton-Clarke

# CYANIDE DISTILLATION DATA / BATCHING SHEET (AQUEOUS SAMPLES ONLY)

**Method: 335.4 ____ SM4500 (Total)____ 9012B ✓ Total $CN^-$____ Amenable $CN^-$____ OIA 1677 Avail $CN^-$_____SM4500 WAD $CN^-$ ____**

Batch No. 1577 Distilled by: LL Start Distill. Time:_____ End Distill. Time:____ Date: _____

| Laboratory Sample No. | Sulfamic Acid Added? | Spike Volume | Sample Vol. (ml) | Scrub Vol. (ml) | Sulfide Check Y/N | $PbCO_3$ Added (gm) | Oxidizer Check Y/N | Sodium Thiosulfate Added (gm) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| ~~MB~~ | | | | | | | | | Balance used: |
| LCS | | | | | | | | | Pipettes used: |
| 1. | | | | | | | | | |
| Dup 1 | | | | | | | | | Micro-dist used: |
| MS | | | | | | | | | |
| ~~MSD~~ 1-AD26083-028 | ✓ | | 6 | 6 | | | | | |
| 2. -030 | | | | | | | | | |
| 3. -032 | | | | | | | | | |
| 4. -033 | | | | | | | | | |
| 5. -035 | | | | | | | | | |
| 6. -036 | | | | | | | | | |
| 7. -038 | | | | | | | | | |
| 8. -046 | | | | | | | | | |
| 9. MDL-03-2 | | | | | | | | | |
| 10. | | | | | | | | | |
| Cal Curve Blank | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |
| Std. ____ ppm | | | | | | | | | V- |

| Reagent: | 1 M NaOH | Releasing Solution | Spike | $PbCO_3$ | Sodium Thiosulfate | Sulfamic Acid |
|---|---|---|---|---|---|---|
| Lot #: | V- | V- | V- | V- | V- | V- |

**Hampton-Clarke/Veritech**

# TOC BATCH SHEET (AQUEOUS SAMPLES ONLY)
## STANDARD METHOD 5310 B

Calibration Curve Date: 8/31/21 BATCH No. 59

Prepared by: JW Date: 9/21/21 Reviewed by: [illegible] Date: 9/27/21

| | Inject Volume (ul) |
|---|---|
| Method Blank | 50 |

| | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| LCS | 50 | 9/21/21 | JW |

| Laboratory Sample No. | Inject Volume (ul) | Filtered Y or N | Comments |
|---|---|---|---|
| Matrix Spike AD26083-049 | 50 | N | 1X |
| Matrix Spike Dup MSD 050 | | | |
| Sample Dup 048 | | | |
| 1. 048 | | | |
| 2. 001 | | | |
| 3. 002 | | | |
| 4. * 003 | | | * 2nd QC |
| 5. 005 | | | |
| 6. 006 | | | |
| 7. 009 | | | |
| 8. 011 | | | |
| 9. 012 | | | |
| 10. 014 | | | |

| Laboratory Sample No. | Inject Volume (ul) | Filtered Y or N | Comments |
|---|---|---|---|
| 11. AD26083-016 | 50 | N | 10 |
| 12. 018 | | | |
| 13. 019 | | | |
| 14. AD26054-001 | | | |
| 15. AD26091-001 | | | |
| 16. AD26008-001 | | | |
| 17. 002 | | | |
| 18. 003 | | | |
| 19. AD26028-002 | | | |
| 20. 012 | | | |
| | | | |
| | | | |
| | | | |

| Spike Volume 1 ml & Lot # | LCS | Low Std. – 10 ppm | High Std. – 75 ppm |
|---|---|---|---|
| V- 351117 | V- 357785 | V- 357786 | V- 357787 |

**Hampton-Clarke/Veritech**

# TOC BATCH SHEET (AQUEOUS SAMPLES ONLY)
## STANDARD METHOD 5310 B

Calibration Curve Date: 8/31/21 BATCH No. 61

Prepared by: JW Date: 9/24/21 Reviewed by: mnp Date: 9/27/21

| | Inject Volume (ul) |
|---|---|
| Method Blank | 50 |

| | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| LCS | 50 | 9/24/21 | JW |

| Laboratory Sample No. | Inject Volume (ul) | Filtered Y or N | Comments |
|---|---|---|---|
| Matrix Spike AD26083-042 | 50 | N | 10X |
| Matrix Spike Dup MSD 044 | | | |
| Sample Dup 040 | | | |
| 1. 040 | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |

| Laboratory Sample No. | Inject Volume (ul) | Filtered Y or N | Comments |
|---|---|---|---|
| 11. | | | |
| 12. | | | |
| 13. | | | |
| 14. | | | |
| 15. | | | |
| 16. | | | |
| 17. | | | |
| 18. | | | |
| 19. | | | |
| 20. | | | |
| | | | |
| | | | |
| | | | |

| Spike Volume 1 ml & Lot # | LCS | Low Std. – 10 ppm | High Std. – 75 ppm |
|---|---|---|---|
| V- 351117 | V- 358033 | V- 358034 | V- 358035 |

**Hampton-Clarke/Veritech**

# TOC BATCH SHEET (AQUEOUS SAMPLES ONLY)
## STANDARD METHOD 5310 B

Calibration Curve Date: 08/31/2021 BATCH No. 60

Prepared by: LL Date: 09/03/2021 Reviewed by: mmp Date: 9/27/21

| | Inject Volume (ul) |
|---|---|
| Method Blank | 50 |

| | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| LCS | 50 | 09/27/2021 | LL |

| Laboratory Sample No. | Inject Volume (ul) | Filtered Y or N | Comments |
|---|---|---|---|
| Matrix Spike AD26083-042 | 50 | N | |
| Matrix Spike Dup MSD -044 | | | |
| Sample Dup -040 | | | |
| 1. -040 | | | |
| 2. -008 | | | QC |
| 3. -021 | | | |
| 4. -023 | | | |
| 5. -026 | | | |
| 6. -027 | | | |
| 7. -028 | | | |
| 8. -030 | | | |
| 9. -032 | | | |
| 10. -033 | | | |

| Laboratory Sample No. | Inject Volume (ul) | Filtered Y or N | Comments |
|---|---|---|---|
| 11. AD26083-035 -040 | 50 | N | |
| 12. -036 | | | |
| 13. -038 | | | |
| 14. -046 | | | |
| 15. AD26097-001 | | | |
| 16. AD26120-001 | | | Lab-preserved |
| 17. AD26164-001 | | | Lab-preserved |
| 18. | | | |
| 19. | | | |
| 20. | | | |

| Spike Volume 1 ml & Lot # | LCS | Low Std. – 10 ppm | High Std. – 75 ppm |
|---|---|---|---|
| V- 351117 | V- 358030 | V- 358031 | V- 358032 |

Hampton-Clarke

# ION SELECTIVE ELECTRODE
## AMMONIA DISTILLATION DATA SHEET (AQUEOUS SAMPLES ONLY)
**METHOD: SM4500-NH3 B-11**

**BATCH No.** 447

**Distilled By:** BN **Date Distilled:** 9/22/21

| | Initial Vol (ml) | Final Vol (ml) |
|---|---|---|
| Method Blank | 6.0 | 6.0 |

| | Initial Vol (ml) | Final Vol (ml) | Date | Distilled By |
|---|---|---|---|---|
| LCS | 6.0 | 6.0 | 9/22/21 | 134 |

| Laboratory Sample No. | Initial Vol (mL) | Chlorine Present Yes/No | Initial Buffered pH* | Final Vol (mL) |
|---|---|---|---|---|
| Matrix Spike AD26083·042 | 60 | NO | 9.52 | 6.0 |
| Matrix Spike Dup 044 | | | 9.54 | |
| Sample Dup 043 | | | 9.50 | |
| 1. AD26083·040 | | | ↓ | |
| 2. 001 | | | 9.50 | |
| 3. 002 | | | 9.53 | |
| 4. 003 | | | 9.51 | |
| 5. 005 | | | 9.47 | |
| 6. 006 | | | 9.49 | |
| 7. 008 | | | 9.48 | |
| 8. 009 | | | 9.52 | |
| 9. 011 | | | 9.55 | |
| 10. 012 | | | 9.54 | |

| Laboratory Sample No. | Initial Vol (mL) | Chlorine Present Yes/No | Initial Buffered pH* | Final Vol (mL) |
|---|---|---|---|---|
| 11. AD26083·014 | 60 | NO | 9.54 | 6.0 |
| 12. 016 | | | 9.52 | |
| 13. 018 | | | 9.46 | |
| 14. 019 | | | 9.47 | |
| 15. 021 | | | 9.49 | |
| 16. 023 | | | 9.52 | |
| 17. AD26009·003 | | | 9.53 | |
| 18. AD26010·003 | | | 9.57 | |
| 19. LB | | | 9.47 | |
| 20. | | | | |

* Confirmation that pH has been adjusted to 9.5

| Spike Volume 0.1 ml & Lot # |
|---|
| V- 13616, 13661 |

| Reagent | Lot #: |
|---|---|
| 6N NaOH | V- 355723 |

| Reagent | Lot #: |
|---|---|
| Borate Buffer | V- 355724 |

| Reagent | Lot #: |
|---|---|
| 0.8M H2SO4 | V- 353048 |

Hampton-Clarke

# ION SELECTIVE ELECTRODE
## AMMONIA DISTILLATION DATA SHEET (AQUEOUS SAMPLES ONLY)
### METHOD: SM4500-NH3 B-11

BATCH No. 448

Distilled By: DS Date Distilled: 9/24/21

| | Initial Vol (ml) | Final Vol (ml) |
|---|---|---|
| Method Blank | 6.0 | 6.0 |

| | Initial Vol (ml) | Final Vol (ml) | Date | Distilled By |
|---|---|---|---|---|
| LCS | 6.0 | 6.0 | 9/24/21 | DS |

| Laboratory Sample No. | Initial Vol (mL) | Chlorine Present Yes/No | Initial Buffered pH* | Final Vol (mL) |
|---|---|---|---|---|
| Spike 6083-049 | 6.0 | NO | 9.51 | 6.0 |
| Spike Dup 050 | | | 9.48 | |
| Dup 048 | | | 9.47 | |
| 6083-048 | | | ↓ | |
| 026 | | | 9.54 | |
| 027 | | | 9.50 | |
| 028 | | | 9.46 | |
| 030 | | | 9.48 | |
| 032 | | | 9.51 | |
| 033 | | | 9.53 | |
| 035 | | | 9.54 | |
| 036 | | | 9.51 | |
| 038 | | | 9.49 | |

| Laboratory Sample No. | Initial Vol (mL) | Chlorine Present Yes/No | Initial Buffered pH* | Final Vol (mL) |
|---|---|---|---|---|
| 11. A226083044 | 6.0 | NO | 9.54 | 6.0 |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |

* Confirmation that pH has been adjusted to 9.5

| Spike Volume 0.1 ml & Lot # |
|---|
| V- 1366, 1366 |

| Reagent | Lot #: |
|---|---|
| 6N NaOH | V- 355723 |

| Reagent | Lot #: |
|---|---|
| Borate Buffer | V- 355724 |

| Reagent | Lot #: |
|---|---|
| 0.8M H2SO4 | V- 353648 |

Hampton-Clarke

# ION CHROMATOGRAPHY DATA SHEET (AQUEOUS SAMPLES ONLY)
## METHOD 300.0

BATCH No 2786

Reviewed by: [signature] Date: 9/27/21

| | Inject Volume (ul) |
|---|---|
| Method Blank | 25 |

| | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| LCS | 25 | 9/14/21 | JW |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| Matrix Spike AD25918-001 | 25 | 9/14/21 | JW |
| Matrix Spike Dup ↓ | | | |
| Sample Dup | | | |
| 1. AD25918-001 | | | |
| 2. 002 | | | |
| 3. 003 | | | |
| 4. 004 | | | |
| 5. 006 | | | |
| 6. 007 | | | |
| 7. 008 | | | |
| 8. AD26083-001 | | | |
| 9. 002 | | | |
| 10. 003 | | | |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| 11. AD26083-005 | 25 | 9/14/21 | JW |
| 12. 006 | | | |
| 13. 008 | | | |
| 14. 009 | | | |
| 15. 011 | | | |
| 16. | | | |
| 17. | | | |
| 18. | | | |
| 19. | | | |
| 20. | | | |
| | | | |
| | | | |
| | | | |

| Spike Volume 1 ml & Lot # | LCS | CCV |
|---|---|---|
| V- 13647, 14076 | V- 357693 | V- 357692 |

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# ION CHROMATOGRAPHY DATA SHEET (AQUEOUS SAMPLES ONLY)
## METHOD 300.0

BATCH No. 2787

Reviewed by: BM Date: 9/27/21

| | Inject Volume (ul) |
|---|---|
| Method Blank | 25 |

| | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| LCS | 25 | 9/15/21 | JW |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| Matrix Spike AD25948-002 | 25 | 9/15/21 | JW |
| Matrix Spike Dup AD25948-003 | | | |
| Sample Dup | | | |
| 1. AD25948-001 | | | |
| 2. 004 | | | |
| 3. 005 | | | |
| 4. 006 | | | |
| 5. 007 | | | |
| 6. AD25967-001 | | | |
| 7. LOX 001 | | | |
| 8. Aqua MDL 93-1 | | | |
| 9. AD26083-012 | | | |
| 10. -014 | | | |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| 11. AD26083-016 | 25 | 9/15/21 | JW |
| 12. 018 | | | |
| 13. 019 | | | |
| 14. 021 | | | |
| 15. 023 | | | |
| 16. | | | |
| 17. | | | |
| 18. | | | |
| 19. | | | |
| 20. | | | |
| | | | |
| | | | |
| | | | |

| Spike Volume 1 ml & Lot # | LCS | CCV |
|---|---|---|
| V- 13647, 14076 | V- 357696 | V- 357695 |

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# ION CHROMATOGRAPHY DATA SHEET (AQUEOUS SAMPLES ONLY)
## METHOD 300.0

BATCH No. 2788

Reviewed by: JW Date: 9/24/21

| | Inject Volume (ul) |
|---|---|
| Method Blank | 25 |

| | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| LCS | 25 | 9/16/21 | JW |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| Matrix Spike AD26083-026 | 25 | JW | 9/16/21 |
| Matrix Spike Dup | | | |
| Sample Dup | | | |
| 1. AQUEOUS MDL 03-2 | | | |
| 2. AD26083-026 | | | |
| 3. 027 | | | |
| 4. 028 | | | |
| 5. 030 | | | |
| 6. 032 | | | |
| 7. 033 | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| 11. | | | |
| 12. | | | |
| 13. | | | |
| 14. | | | |
| 15. | | | |
| 16. | | | |
| 17. | | | |
| 18. | | | |
| 19. | | | |
| 20. | | | |
| | | | |
| | | | |
| | | | |

| Spike Volume 1 ml & Lot # | LCS | CCV |
|---|---|---|
| V- 13647, 14076 | V- 357699 | V- 357698 |

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# ION CHROMATOGRAPHY DATA SHEET (AQUEOUS SAMPLES ONLY)
## METHOD 300.0

BATCH No 2789

Reviewed by: JW Date: 9/27/21

| | Inject Volume (ul) |
|---|---|
| Method Blank | 25 |

| | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| LCS | 25 | 9/17/21 | JW |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| Matrix Spike AD26083-049 | 25 | 9/17/21 | JW |
| Matrix Spike Dup 050 | | | |
| Sample Dup | | | |
| 1. AD26093-001 | | | |
| 2. 002 | | | |
| 3. AD26061-001 | | | |
| 4. AD26083-048 | | | |
| 5. -048 | | | |
| 6. 036 | | | |
| 7. 035 | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| 11. | | | |
| 12. | | | |
| 13. | | | |
| 14. | | | |
| 15. | | | |
| 16. | | | |
| 17. | | | |
| 18. | | | |
| 19. | | | |
| 20. | | | |
| | | | |
| | | | |
| | | | |

| Spike Volume 1 ml & Lot # | LCS | CCV |
|---|---|---|
| V- 14076, 13647 | V- 357702 | V- 357701 |

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# ION CHROMATOGRAPHY DATA SHEET (AQUEOUS SAMPLES ONLY)
## METHOD 300.0

BATCH No. 2790

Reviewed by: BJ Date: 9/27/21

| | Inject Volume (ul) |
|---|---|
| Method Blank | 25 |

| | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| LCS | 25 | 9/17/21 | JW |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| Matrix Spike AD26083-042 | 25 | 9/17/21 | JW |
| Matrix Spike Dup 044 | ↓ | ↓ | ↓ |
| Sample Dup | ↓ | ↓ | ↓ |
| 1. AD26083-040 | ↓ | ↓ | ↓ |
| 2. 038 | ↓ | ↓ | ↓ |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| 11. | | | |
| 12. | | | |
| 13. | | | |
| 14. | | | |
| 15. | | | |
| 16. | | | |
| 17. | | | |
| 18. | | | |
| 19. | | | |
| 20. | | | |
| | | | |
| | | | |

| Spike Volume 1 ml & Lot # | LCS | CCV |
|---|---|---|
| V- 14076, 13647 | V- 357702 | V- 357701 |

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# ION CHROMATOGRAPHY DATA SHEET (AQUEOUS SAMPLES ONLY)
## METHOD 300.0

BATCH No. 2791

Reviewed by: BN Date: 9/27/21

| | Inject Volume (ul) |
|---|---|
| Method Blank | 25 |

| | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| LCS | 25 | 9/21/21 | JW |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| Matrix Spike AD26002-008 | 25 | 9/21/21 | JW |
| Matrix Spike Dup | | | |
| Sample Dup | | | |
| 1. AD26002-008 | | | |
| 2. AD26122-002 | | | |
| 3. 2X AD26083-001 | | | |
| 4. 50X 002 | | | |
| 5. 2X 003 | | | |
| 6. 5X 008 | | | |
| 7. 5X 009 | | | |
| 8. 5X 011 | | | |
| 9. 5X 014 | | | |
| 10. 2X 018 | | | |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| 11. 5X AD26083-019 | 25 | 9/21/21 | JW |
| 12. 50X 019 | | | |
| 13. 5X 026 | | | |
| 14. 100X 027 | | | |
| 15. 50X 028 | | | |
| 16. 2X 030 | | | |
| 17. 20X 035 | | | |
| 18. 500X 036 | | | |
| 19. 50X 036 | | | |
| 20. 5X 036 | | | |
| | | | |
| | | | |
| | | | |

| Spike Volume 1 ml & Lot # | LCS | CCV |
|---|---|---|
| V- 14076, 13647 | V- 357948 | V- 357947 |

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# ION CHROMATOGRAPHY DATA SHEET (AQUEOUS SAMPLES ONLY)
## METHOD 300.0

BATCH No. 2792

Reviewed by: PM Date: 9/29/2

| | Inject Volume (ul) |
|---|---|
| Method Blank | 25 |

| | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| LCS | 25 | 9/22/21 | JW |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| Matrix Spike AD26128-001 | 25 | 9/22/21 | JW |
| Matrix Spike Dup ↓ | ↓ | ↓ | ↓ |
| Sample Dup | | | |
| 1. AD26128-001 | | | |
| 2. ↓ 5X 001 | | | |
| 3. 20X AD26061-001 | | | |
| 4. 100X AD26083-040 | | | |
| 5. 100X MS 042 | | | |
| 6. 100X MSD 044 | | | |
| 7. 200X 048 | | | |
| 8. 10X 048 | | | |
| 9. 5X 048 | | | |
| 10. 200X MS 049 | | | |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| 11. MS 10X AD26083-049 | 25 | 9/22/21 | JW |
| 12. 5X MS 049 | | | |
| 13. 500X MSD 050 | | | |
| 14. 50X MSD 050 | | | |
| 15. 5X MSD 050 | | | |
| 16. 500X 032 | | | |
| 17. 50X 032 | | | |
| 18. 10X 032 | | | |
| 19. | | | |
| 20. | | | |
| | | | |
| | | | |
| | | | |

| Spike Volume 1 ml & Lot # | LCS | CCV |
|---|---|---|
| V- 13647, 14076 | V- 357957 | V- 357950 |

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# ION CHROMATOGRAPHY DATA SHEET (AQUEOUS SAMPLES ONLY)
## METHOD 300.0

BATCH No. 2793

Reviewed by: BM Date: 9/27/21

| | Inject Volume (ul) |
|---|---|
| Method Blank | 25 |

| | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| LCS | 25 | 9/23/21 | JW |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| Matrix Spike AD26176-001 | 25 | 9/23/21 | JW |
| Matrix Spike Dup ↓ | ↓ | ↓ | ↓ |
| Sample Dup | ↓ | ↓ | ↓ |
| 1. AD26176-001 | ↓ | ↓ | ↓ |
| 2. ↓ 10X 001 | ↓ | ↓ | ↓ |
| 3. AD26178-001 | ↓ | ↓ | ↓ |
| 4. ↓ 002 | ↓ | ↓ | ↓ |
| 5. ↓ 003 | ↓ | ↓ | ↓ |
| 6. ↓ 005 | ↓ | ↓ | ↓ |
| 7. AD26002-001 | ↓ | ↓ | ↓ |
| 8. ↓ 002 | ↓ | ↓ | ↓ |
| 9. ↓ 003 | ↓ | ↓ | ↓ |
| 10. ↓ 004 | ↓ | ↓ | ↓ |

| Laboratory Sample No. | Inject Volume (ul) | Date | Prepared By |
|---|---|---|---|
| 11. AD26002-005 | 25 | 9/23/21 | JW |
| 12. ↓ 006 | ↓ | ↓ | ↓ |
| 13. ↓ 007 | ↓ | ↓ | ↓ |
| 14. ↓ 012 | ↓ | ↓ | ↓ |
| 15. AD26083-016 | ↓ | ↓ | ↓ |
| 16. ↓ 10X 027 | ↓ | ↓ | ↓ |
| 17. | | | |
| 18. | | | |
| 19. | | | |
| 20. | | | |

| Spike Volume 1 ml & Lot # | LCS | CCV |
|---|---|---|
| V- 13647, 14076 | V- 357954 | V- 357953 |

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Hampton-Clarke
Analytical & Field Services

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# APPENDIX C

# DATA VALIDATION REPORTS

ENVIRONMENTAL
Data Services, Inc.

# DATA USABILITY SUMMARY REPORT
# BROOKFIELD AVE LANDFILL, STATEN ISLAND, NEW YORK

Client: TRC Engineering, Inc., New York, New York
SDG: AD26083
Laboratory: Hampton-Clarke, Fairfield, New Jersey
Site: Brookfield Ave Landfill, Staten Island, New York
Date: November 17, 2021

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|---|---|---|---|
| 5 | FB-20210913 | AD26083-005 | Water |
| 8 | LTMW-11-20210913 | AD26083-008 | Water |
| 8MS* | LTMW-11-20210913MS | AD26083-008MS | Water |
| 8MSD* | LTMW-11-20210913MSD | AD26083-008MSD | Water |
| 9 | DUP-01-20210913 | AD26083-009 | Water |
| 10* | TB-01-20210913 | AD26083-010 | Water |
| 36 | LTMW-2-20210916 U | AD26083-036 | Water |

* - VOC only

A Data Usability Summary Review was performed on the analytical data for three water samples, one aqueous field blank sample, and one aqueous trip blank sample collected on September 13-16, 2021 by TRC at the Brookfield Ave Landfill in Staten Island, New York. The samples were analyzed under Environmental Protection Agency (USEPA) "Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions", the "Methods for Chemical Analysis of Water and Wastes", and the "Standard Methods for the Examination of Water and Wastewater".

Specific method references are as follows:

| *Analysis* | *Method References* |
|---|---|
| VOC | USEPA SW846 Method 8260D |
| SVOC | USEPA SW846 Method 8270E |
| Pesticides | USEPA SW846 Method 8081B |
| PCBs | USEPA SW846 Method 8082A |
| Metals/Mercury | USEPA SW846 Methods 6010D/6020B/7470A |
| Cyanide | USEPA SW846 Method 9012B |
| Total Organic Carbon | Standard Method SM5310B |
| Hardness | Standard Method SM2340B |
| Ammonia | Standard Method SM4500 NH3D |
| Nitrate as N | USEPA Method 300.0 |
| Sulfate | USEPA Method 300.0 |
| Chloride | USEPA Method 300.0 |
| Alkalinity | Standard Method SM2320B |
| TDS | Standard Method SM2540C |
| Bromide | USEPA Method 300.0 |

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) and USEPA Data Validation Guidelines as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- SOP Number HW-35A, Revision 1, September 2016: Semivolatile Data Validation;
- SOP Number HW-36A, Revision 1, October 2016: Pesticide Data Validation;
- SOP Number HW-37A, Revision 0, June 2015: Polychlorinated Biphenyl (PCB) Aroclor Data Validation;
- SOP Number HW-3a, Revision 1, September 2016: ICP-AES Data Validation;
- SOP Number HW-3b, Revision 1, September 2016: ICP-MS Data Validation;
- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following data quality indicators were reviewed for this report:

***Organics***

- Holding times and sample preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field QC blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

***Inorganics***

- Holding times and sample preservation
- Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Tuning
- Initial and continuing calibration verifications
- Method blank and field QC blank contamination
- ICP Interference Check Sample
- Laboratory Control Sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis
- ICP Serial Dilution
- Compound Quantitation
- Field Duplicate sample precision

## Data Usability Assessment

There were no rejections of data.

The data is acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

## Volatile Organic Compounds (VOCs)

### Holding Times

- All samples were analyzed within 14 days for preserved water samples.

### GC/MS Tuning

- All criteria were met.

### Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

### Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) and/or RRF values <0.05 (0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|---|---|---|---|---|
| 09/22/21 | Dichlorodifluoromethane | 89.4% | UJ | 36 |
| | Bromomethane | 69.9% | UJ | |
| | Trichloroethene | 42.5% | UJ | |
| | trans-1,3-Dichloropropene | 24.2% | UJ | |
| 09/23/21 | Dichlorodifluoromethane | 82.8% | UJ | 5, 8, 9, 10 |
| | Chloromethane | 57.7% | UJ | |

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|---|---|---|---|---|
| 09/23/21 | Bromomethane | 65.7% | UJ | 5, 8, 9, 10 |
| | Vinyl Chloride | 59.3% | UJ | |
| | Chloroethane | 35.2% | UJ | |
| | Trichlorofluoromethane | 36.2% | UJ | |

## Method Blank

- The method blanks were free of contamination.

## Field Blank

- The following table lists field QC samples with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. For detected compound concentrations <RL, the results are negated and qualified (U). For detected sample concentrations >RL of acetone, 2-butanone and methylene chloride (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U). For all other compounds >RL, an action level of five times (5x) the highest associated blank concentration is used.

| Blank ID | Compound | Conc. ug/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| FB-20210913 | None - ND | - | - | - |
| TB-01-20210913 | None - ND | - | - | - |

## Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

## Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD percent recoveries (%R) and/or RPD values outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

| MS/MSD Sample | Compound | MS %R/MSD %R/RPD | Qualifier |
|---|---|---|---|
| 8 | Dichlorodifluoromethane | 258%/260%/OK | None - Sample ND |
| | Chloromethane | 175%/159%/OK | |
| | Bromomethane | 40%/OK/OK | None - See CCAL |
| | Vinyl Chloride | 169%/155%/OK | None - Sample ND |
| | Acetone | OK/162%/OK | |
| | Carbon Disulfide | 169%/151%/OK | |
| | Methyl Acetate | 155%/OK/OK | |

| MS/MSD Sample | Compound | MS %R/MSD %R/RPD | Qualifier |
|---|---|---|---|
| 8 | Bromochloromethane | 137%/153%/OK | None - Sample ND |
| | 2-Butanone | 326%/350%/OK | |

## Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

| LCS ID | Compound | %R | Qualifier | Affected Samples |
|---|---|---|---|---|
| MBS96784 | Dichlorodifluoromethane | 219% | None | Sample ND |
| | Bromomethane | 47% | None | See CCAL |
| | trans-1,3-Dichloropropene | 69% | None | |
| MBS96792 | Dichlorodifluoromethane | 255% | None | Samples ND |
| | Chloromethane | 161% | None | |
| | Bromomethane | 44% | None | See CCAL |
| | Vinyl Chloride | 154% | None | Samples ND |

## Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

## Compound Quantitation

- All criteria were met.

## Tentatively Identified Compounds (TICs)

- TICs were not reported.

## Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

| VOCs | | | | |
|---|---|---|---|---|
| Compound | LTMW-11-20210913 ug/L | DUP-01-20210913 ug/L | RPD | Qualifier |
| None | ND | ND | - | - |

## Semivolatile Organic Compounds (SVOCs)

### Holding Times

- All samples were extracted within 7 days for water samples and analyzed within 40 days for all samples.

### GC/MS Tuning

- All criteria were met.

### Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

### Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) and/or RRF values <0.05 (0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|---|---|---|---|---|
| 09/19/21 | 4-Chloroaniline | 31.4% | None | See LCS |

### Method Blank

- The method blanks were free of contamination.

### Field Blank

- The field QC samples are summarized below.

| Blank ID | Compound | Conc. ug/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| FB-20210913 | None - ND | - | - | - |

## Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

## Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

## Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

| LCS ID | Compound | %R | Qualifier | Affected Samples |
|---|---|---|---|---|
| MBS94959 | Pentachlorophenol | 136% | None | Samples ND |
| MBS94960 | 4-Chloroaniline | 14% | UJ | 36 |
| | 2,4,5-Trichlorophenol | 131% | None | Sample ND |
| | 3-Nitroaniline | 40% | UJ | 36 |
| | Atrazine | 49% | UJ | |
| | Pentachlorophenol | 143% | None | Sample ND |

## Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

## Compound Quantitation

- All criteria were met.

## Tentatively Identified Compounds (TICs)

- TICs were not reported.

## Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

| SVOCs | | | | |
|---|---|---|---|---|
| Compound | LTMW-11-20210913<br>ug/L | DUP-01-20210913<br>ug/L | RPD | Qualifier |
| None | ND | ND | - | - |

## Pesticides/PCBs (Pest/PCBs)

### Holding Times

- All samples were extracted within 7 days for water samples and analyzed within 40 days for all samples.

### Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients.

### Continuing Calibration

- The continuing calibrations exhibited acceptable %D values.

### Method Blank

- The method blanks were free of contamination.

### Field Blank

- The field QC samples are summarized below.

| Blank ID | Compound | Conc. ug/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| FB-20210913 | None - ND | - | - | - |

### Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

### Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

### Laboratory Control Samples

- The LCS sample exhibited acceptable percent recoveries (%R).

## Compound Quantitation

- All criteria were met.

## Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

| Pesticides | | | | |
|---|---|---|---|---|
| Compound | LTMW-11-20210913 ug/L | DUP-01-20210913 ug/L | RPD | Qualifier |
| None | ND | ND | - | - |

| PCBs | | | | |
|---|---|---|---|---|
| Compound | LTMW-11-20210913 ug/L | DUP-01-20210913 ug/L | RPD | Qualifier |
| None | ND | ND | - | - |

## Column Difference

- All criteria were met.

## Metals & Mercury

### Holding Times

- All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

### ICP/MS Tuning

- All criteria were met.

### Initial Calibration Verification

- All initial calibration criteria were met.

### Continuing Calibration Verification

- All continuing calibration criteria were met.

### Method Blank

- The method blanks were free of contamination.

### Field Blank

- The following table lists field QC samples with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

| Blank ID | Compound | Conc. ug/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| FB-20210913 | None - ND | - | - | - |

### ICP Interference Check Sample

- The ICP ICS exhibited acceptable percent recoveries (%R).

## Laboratory Control Samples

- The LCS sample exhibited acceptable percent recoveries (%R).

## Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

| MS/MSD Sample ID | Compound | MS %R/MSD %R/RPD | Qualifier | Affected samples |
|---|---|---|---|---|
| REFERENCE | Aluminum | 462%/648%/OK | None | Samples ND |
| | Calcium | 189%/234%/OK | J | 8, 9 |
| | Iron | 256%/494%/OK | None | 4X Rule Applies |
| | Magnesium | 129%/156%/OK | None | |
| | Manganese | 144%/198%/OK | None | |
| | Mercury | 64%/64%/OK | UJ | 5, 8, 9 |
| | Sodium | 218%/OK/OK | None | 4X Rule Applies |
| | Beryllium | 73%/68%/OK | UJ | 5, 8, 9 |
| REFERENCE | Mercury | 52%/52%/OK | UJ | 36 |
| | Sodium | 172%/227%/OK | None | 4X Rule Applies |

## ICP Serial Dilution

- The ICP serial dilution samples exhibited acceptable percent differences (%D).

## Compound Quantitation

- EDS Sample 36 was analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

## Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

| Compound | LTMW-11-20210913 ug/L | DUP-01-20210913 ug/L | RPD | Qualifier |
|---|---|---|---|---|
| Barium | 120 | 120 | 0% | None |
| Calcium | 140000 | 130000 | 7% | |
| Iron | 1700 | 1700 | 0% | |
| Magnesium | 60000 | 60000 | 0% | |
| Manganese | 430 | 430 | 0% | |
| Potassium | 7100 | 6900 | 3% | |

| Compound | LTMW-11-20210913 ug/L | DUP-01-20210913 ug/L | RPD | Qualifier |
|---|---|---|---|---|
| Sodium | 39000 | 39000 | 0% | None |

## Cyanide, Total Organic Carbon (TOC), Hardness, Ammonia, Nitrate as N, Sulfate, Chloride, Alkalinity, Total Dissolved Solids (TDS), Bromide

### Holding Times

- All samples were prepared and analyzed within the recommended holding time for each analysis.

### Initial and Continuing Calibration

- All %R criteria were met.

### Method Blank

- The method blanks were free of contamination.

### Field Blank

- The field QC samples are summarized below.

| Blank ID | Compound | Conc. mg/L | Qualifier | Affected Samples |
|---|---|---|---|---|
| FB-20210913 | None - ND | - | - | - |

### Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples (Reference) exhibited acceptable percent recoveries (%R) and RPD values.

### Laboratory Control Samples

- The LCS sample exhibited acceptable percent recoveries (%R).

### Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

### Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

| Wet Chemistry | | | | |
|---|---|---|---|---|
| Compound | LTMW-11-20210913 mg/L | DUP-01-20210913 mg/L | RPD | Qualifier |
| Alkalinity | 360 mg CaCO3/L | 360 mg CaCO3/L | 0% | None |
| pH | 4.5 | 4.5 | 0% | |
| Chloride | 170 | 160 | 6% | |
| Sulfate | 110 | 100 | 10% | |
| Total Dissolved Solids | 840 | 790 | 6% | |
| Hardness | 590 mg CaCO3/L | 580 mg CaCO3/L | 2% | |

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 11/18/21

Nancy Weaver
Senior Chemist

| Data Qualifier | Definition |
|---|---|
| U | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit. |
| J | The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. |
| J+ | The result is an estimated quantity, but the result may be biased high. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| NJ | The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples. |
| UJ | The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. |
| R | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples. |

# Form1

ORGANICS VOLATILE REPORT

5

Sample Number: AD26083-005
Client Id: FB-20210913
Data File: 1M152886.D
Analysis Date: 09/23/21 05:33
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | ~~U~~ UJ |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | ~~U~~ UJ |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | ~~U~~ UJ |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | ~~U~~ UJ | 75-69-4 | Trichlorofluoromethane | 1.0 | ~~U~~ UJ |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | ~~U~~ UJ |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

MW 11/17/21

# Form1

ORGANICS VOLATILE REPORT

8

Sample Number: AD26083-008
Client Id: LTMW-11-20210913
Data File: 1M152896.D
Analysis Date: 09/23/21 08:41
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | ~~U~~ UJ |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | ~~U~~ UJ |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | ~~U~~ UJ |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | ~~U~~ UJ | 75-69-4 | Trichlorofluoromethane | 1.0 | ~~U~~ UJ |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | ~~U~~ UJ |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

***U - Indicates the compound was analyzed but not detected.***
***B - Indicates the analyte was found in the blank as well as in the sample.***
***E - Indicates the analyte concentration exceeds the calibration range of the instrument.***
***R - Retention Time Out***
***J - Indicates an estimated value when a compound is detected at less than the specified detection limit.***
***d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used***
***Chlordane (Total) is sum of a-Chlordane and y-Chlordane.***

NW 11/17/21

# Form1

ORGANICS VOLATILE REPORT

Sample Number: AD26083-009
Client Id: DUP-01-20210913
Data File: 1M152897.D
Analysis Date: 09/23/21 09:00
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

9

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | ~~U~~ UJ |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | ~~U~~ UJ |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | ~~U~~ UJ |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | ~~U~~ UJ | 75-69-4 | Trichlorofluoromethane | 1.0 | ~~U~~ UJ |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | ~~U~~ UJ |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

***U - Indicates the compound was analyzed but not detected.***
***B - Indicates the analyte was found in the blank as well as in the sample.***
***E - Indicates the analyte concentration exceeds the calibration range of the instrument.***
***R - Retention Time Out***
***J - Indicates an estimated value when a compound is detected at less than the specified detection limit.***
***d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used***
***Chlordane (Total) is sum of a-Chlordane and y-Chlordane.***

MW 11/17/21

# Form1

ORGANICS VOLATILE REPORT

10

Sample Number: AD26083-010
Client Id: TB-01-20210913
Data File: 2M157206.D
Analysis Date: 09/23/21 19:00
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | ~~U~~ UJ |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | ~~U~~ UJ |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | ~~U~~ UJ |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | U |
| 74-83-9 | Bromomethane | 1.0 | ~~U~~ UJ | 75-69-4 | Trichlorofluoromethane | 1.0 | ~~U~~ UJ |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | ~~U~~ UJ |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

NM 11/7/21

# Form1

ORGANICS VOLATILE REPORT

36

Sample Number: AD26083-036
Client Id: LTMW-2-20210916 U
Data File: 2M157121.D
Analysis Date: 09/22/21 15:33
Date Rec/Extracted: 09/17/21-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 108-90-7 | Chlorobenzene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluor | 1.0 | U | 75-00-3 | Chloroethane | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 67-66-3 | Chloroform | 2.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 74-87-3 | Chloromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 110-82-7 | Cyclohexane | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropa | 1.0 | U | 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 75-71-8 | Dichlorodifluoromethane | 1.0 | ~~U~~ UJ |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 100-41-4 | Ethylbenzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.64 | U | 98-82-8 | Isopropylbenzene | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 79601-23-1 | m&p-Xylenes | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 79-20-9 | Methyl Acetate | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 108-87-2 | Methylcyclohexane | 1.0 | U |
| 123-91-1 | 1,4-Dioxane | 50 | U | 75-09-2 | Methylene Chloride | 1.0 | U |
| 78-93-3 | 2-Butanone | 1.0 | U | 1634-04-4 | Methyl-t-butyl ether | 0.50 | U |
| 591-78-6 | 2-Hexanone | 1.0 | U | 95-47-6 | o-Xylene | 1.0 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.0 | U | 100-42-5 | Styrene | 1.0 | U |
| 67-64-1 | Acetone | 5.0 | U | 127-18-4 | Tetrachloroethene | 1.0 | U |
| 71-43-2 | Benzene | 0.50 | U | 108-88-3 | Toluene | 1.0 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U | 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | ~~U~~ UJ |
| 75-25-2 | Bromoform | 1.0 | U | 79-01-6 | Trichloroethene | 1.0 | ~~U~~ UJ |
| 74-83-9 | Bromomethane | 1.0 | ~~U~~ UJ | 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-15-0 | Carbon Disulfide | 1.0 | U | 75-01-4 | Vinyl Chloride | 1.0 | U |
| 1330-20-7 | Xylenes (Total) | 1.0 | U | | | | |

Worksheet #: 611541

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

MW 11/7/21

5

# Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD26083-005
Client Id: FB-20210913
Data File: 10M87380.D
Analysis Date: 09/20/21 15:45
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

NW 11/17/21

# Form1

ORGANICS SEMIVOLATILE REPORT

8

Sample Number: AD26083-008
Client Id: LTMW-11-20210913
Data File: 10M87382.D
Analysis Date: 09/20/21 16:29
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

NW 11/17/21

# Form1

ORGANICS SEMIVOLATILE REPORT

9

Sample Number: AD26083-009
Client Id: DUP-01-20210913
Data File: 10M87383.D
Analysis Date: 09/20/21 16:51
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0020 | U | 50-32-8 | Benzo[a]pyrene | 0.0020 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0020 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0020 | U |
| 123-91-1 | 1,4-Dioxane | 0.00050 | U | 191-24-2 | Benzo[g,h,i]perylene | 0.0020 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0020 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0020 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0020 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0020 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0020 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00050 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00050 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0020 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00055 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0020 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.010 | U | 85-68-7 | Butylbenzylphthalate | 0.0020 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0020 | U | 105-60-2 | Caprolactam | 0.0020 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0020 | U | 86-74-8 | Carbazole | 0.0020 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0020 | U | 218-01-9 | Chrysene | 0.0020 | U |
| 95-57-8 | 2-Chlorophenol | 0.0020 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0020 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0020 | U | 132-64-9 | Dibenzofuran | 0.00068 | U |
| 95-48-7 | 2-Methylphenol | 0.00050 | U | 84-66-2 | Diethylphthalate | 0.0020 | U |
| 88-74-4 | 2-Nitroaniline | 0.0020 | U | 131-11-3 | Dimethylphthalate | 0.0020 | U |
| 88-75-5 | 2-Nitrophenol | 0.0020 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00050 | U | 117-84-0 | Di-n-octylphthalate | 0.0020 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0020 | U | 206-44-0 | Fluoranthene | 0.0020 | U |
| 99-09-2 | 3-Nitroaniline | 0.0020 | U | 86-73-7 | Fluorene | 0.0020 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.010 | U | 118-74-1 | Hexachlorobenzene | 0.0020 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0020 | U | 87-68-3 | Hexachlorobutadiene | 0.0020 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0020 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0020 | U |
| 106-47-8 | 4-Chloroaniline | 0.00050 | U | 67-72-1 | Hexachloroethane | 0.0020 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0020 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0020 | U |
| 100-01-6 | 4-Nitroaniline | 0.0020 | U | 78-59-1 | Isophorone | 0.0020 | U |
| 100-02-7 | 4-Nitrophenol | 0.0020 | U | 91-20-3 | Naphthalene | 0.00050 | U |
| 83-32-9 | Acenaphthene | 0.0020 | U | 98-95-3 | Nitrobenzene | 0.0020 | U |
| 208-96-8 | Acenaphthylene | 0.0020 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00064 | U |
| 98-86-2 | Acetophenone | 0.0020 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0020 | U |
| 120-12-7 | Anthracene | 0.0020 | U | 87-86-5 | Pentachlorophenol | 0.010 | U |
| 1912-24-9 | Atrazine | 0.0020 | U | 85-01-8 | Phenanthrene | 0.0020 | U |
| 100-52-7 | Benzaldehyde | 0.0020 | U | 108-95-2 | Phenol | 0.0020 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0020 | U | 129-00-0 | Pyrene | 0.0020 | U |

Worksheet #: 611546

*Total Target Concentration* 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*

*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*

*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

NW 10/7/21

# Form1

ORGANICS SEMIVOLATILE REPORT

36

Sample Number: AD26083-036
Client Id: LTMW-2-20210916 U
Data File: 7M116587.D
Analysis Date: 09/19/21 23:19
Date Rec/Extracted: 09/17/21-09/18/21
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 1ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 0.0021 | U | 50-32-8 | Benzo[a]pyrene | 0.0021 | U |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 0.0021 | U | 205-99-2 | Benzo[b]fluoranthene | 0.0021 | U |
| **123-91-1** | **1,4-Dioxane** | **0.00053** | **0.00060** | 191-24-2 | Benzo[g,h,i]perylene | 0.0021 | U |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.0021 | U | 207-08-9 | Benzo[k]fluoranthene | 0.0021 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 0.0021 | U | 111-91-1 | bis(2-Chloroethoxy)methan | 0.0021 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.0021 | U | 111-44-4 | bis(2-Chloroethyl)ether | 0.00053 | U |
| 120-83-2 | 2,4-Dichlorophenol | 0.00053 | U | 108-60-1 | bis(2-chloroisopropyl)ether | 0.0021 | U |
| 105-67-9 | 2,4-Dimethylphenol | 0.00058 | U | 117-81-7 | bis(2-Ethylhexyl)phthalate | 0.0021 | U |
| 51-28-5 | 2,4-Dinitrophenol | 0.011 | U | 85-68-7 | Butylbenzylphthalate | 0.0021 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 0.0021 | U | 105-60-2 | Caprolactam | 0.0021 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 0.0021 | U | 86-74-8 | Carbazole | 0.0021 | U |
| 91-58-7 | 2-Chloronaphthalene | 0.0021 | U | 218-01-9 | Chrysene | 0.0021 | U |
| 95-57-8 | 2-Chlorophenol | 0.0021 | U | 53-70-3 | Dibenzo[a,h]anthracene | 0.0021 | U |
| 91-57-6 | 2-Methylnaphthalene | 0.0021 | U | 132-64-9 | Dibenzofuran | 0.00072 | U |
| 95-48-7 | 2-Methylphenol | 0.00053 | U | 84-66-2 | Diethylphthalate | 0.0021 | U |
| 88-74-4 | 2-Nitroaniline | 0.0021 | U | 131-11-3 | Dimethylphthalate | 0.0021 | U |
| 88-75-5 | 2-Nitrophenol | 0.0021 | U | 84-74-2 | Di-n-butylphthalate | 0.0011 | U |
| 106-44-5 | 3&4-Methylphenol | 0.00053 | U | 117-84-0 | Di-n-octylphthalate | 0.0021 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 0.0021 | U | 206-44-0 | Fluoranthene | 0.0021 | U |
| 99-09-2 | 3-Nitroaniline | 0.0021 | ~~U~~ UJ | 86-73-7 | Fluorene | 0.0021 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 0.011 | U | 118-74-1 | Hexachlorobenzene | 0.0021 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.0021 | U | 87-68-3 | Hexachlorobutadiene | 0.0021 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.0021 | U | 77-47-4 | Hexachlorocyclopentadiene | 0.0021 | U |
| 106-47-8 | 4-Chloroaniline | 0.00053 | ~~U~~ UJ | 67-72-1 | Hexachloroethane | 0.0021 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.0021 | U | 193-39-5 | Indeno[1,2,3-cd]pyrene | 0.0021 | U |
| 100-01-6 | 4-Nitroaniline | 0.0021 | U | 78-59-1 | Isophorone | 0.0021 | U |
| 100-02-7 | 4-Nitrophenol | 0.0021 | U | 91-20-3 | Naphthalene | 0.00053 | U |
| 83-32-9 | Acenaphthene | 0.0021 | U | 98-95-3 | Nitrobenzene | 0.0021 | U |
| 208-96-8 | Acenaphthylene | 0.0021 | U | 621-64-7 | N-Nitroso-di-n-propylamine | 0.00068 | U |
| 98-86-2 | Acetophenone | 0.0021 | U | 86-30-6 | n-Nitrosodiphenylamine | 0.0021 | U |
| 120-12-7 | Anthracene | 0.0021 | U | 87-86-5 | Pentachlorophenol | 0.011 | U |
| 1912-24-9 | Atrazine | 0.0021 | ~~U~~ UJ | 85-01-8 | Phenanthrene | 0.0021 | U |
| 100-52-7 | Benzaldehyde | 0.0021 | U | 108-95-2 | Phenol | 0.0021 | U |
| 56-55-3 | Benzo[a]anthracene | 0.0021 | U | 129-00-0 | Pyrene | 0.0021 | U |

Worksheet #: 611546

***Total Target Concentration*** 0.0006

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

NW 11/17/21

# Form1

ORGANICS PESTICIDE REPORT

5

Sample Number: AD26083-005
Client Id: FB-20210913
Data File: 5G98232.D
Analysis Date: 09/20/21 02:02
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 610738

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

***U - Indicates the compound was analyzed but not detected.***
***B - Indicates the analyte was found in the blank as well as in the sample.***
***E - Indicates the analyte concentration exceeds the calibration range of the instrument.***
***R - Retention Time Out***
***J - Indicates an estimated value when a compound is detected at less than the specified detection limit.***
***d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used***
***Chlordane (Total) is sum of a-Chlordane and y-Chlordane.***

MW 11/17/21

# Form1

ORGANICS PESTICIDE REPORT

8

Sample Number: AD26083-008
Client Id: LTMW-11-20210913
Data File: 5G98234.D
Analysis Date: 09/20/21 02:39
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

***Total Target Concentration*** 0

ColumnID: (') Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

NW 11/17/21

# Form1

ORGANICS PESTICIDE REPORT

9

Sample Number: AD26083-009
Client Id: DUP-01-20210913
Data File: 5G98235.D
Analysis Date: 09/20/21 02:57
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet #: 610738

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

NW 11/17/21

36

# Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD26083-036
Client Id: LTMW-2-20210916 U
Data File: 6G119492.D
Analysis Date: 09/29/21 16:18
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | a-chlordane | 0.010 | U | 53494-70-5 | Endrin Ketone | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U | 58-89-9 | gamma-BHC | 0.010 | U |
| 319-84-6 | alpha-BHC | 0.010 | U | 76-44-8 | Heptachlor | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U | 1024-57-3 | Heptachlor Epoxide | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U | 72-43-5 | Methoxychlor | 0.014 | U |
| 60-57-1 | Dieldrin | 0.010 | U | 72-54-8 | p,p'-DDD | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U | 72-55-9 | p,p'-DDE | 0.010 | U |
| 33213-65-9 | Endosulfan II | 0.010 | U | 50-29-3 | p,p'-DDT | 0.010 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.010 | U | 8001-35-2 | Toxaphene | 0.25 | U |
| 72-20-8 | Endrin | 0.010 | U | 5103-74-2 | y-chlordane | 0.010 | U |
| 7421-93-4 | Endrin Aldehyde | 0.010 | U | 57-74-9 | Chlordane (Total) | 0.010 | U |

Worksheet # 611603

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

MW 11/17/21

# Form1

ORGANICS PCB REPORT

5

Sample Number: AD26083-005
Client Id: FB-20210913
Data File: 3G130549.D
Analysis Date: 09/20/21 04:46
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

***U - Indicates the compound was analyzed but not detected.***
***B - Indicates the analyte was found in the blank as well as in the sample.***
***E - Indicates the analyte concentration exceeds the calibration range of the instrument.***
***R - Retention Time Out***
***J - Indicates an estimated value when a compound is detected at less than the specified detection limit.***
***d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used***
***Chlordane (Total) is sum of a-Chlordane and y-Chlordane.***

MW 11/17/21

# Form1

ORGANICS PCB REPORT

8

Sample Number: AD26083-008
Client Id: LTM-11-20210913
Data File: 3G130551.D
Analysis Date: 09/20/21 05:15
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

***U - Indicates the compound was analyzed but not detected.***
***B - Indicates the analyte was found in the blank as well as in the sample.***
***E - Indicates the analyte concentration exceeds the calibration range of the instrument.***
***R - Retention Time Out***
***J - Indicates an estimated value when a compound is detected at less than the specified detection limit.***
***d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used***
***Chlordane (Total) is sum of a-Chlordane and y-Chlordane.***

NW 11/17/21

# Form1

ORGANICS PCB REPORT

9

Sample Number: AD26083-009
Client Id: DUP-01-20210913
Data File: 3G130552.D
Analysis Date: 09/20/21 05:30
Date Rec/Extracted: 09/17/21-09/19/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

*U - Indicates the compound was analyzed but not detected.*
*B - Indicates the analyte was found in the blank as well as in the sample.*
*E - Indicates the analyte concentration exceeds the calibration range of the instrument.*
*R - Retention Time Out*
*J - Indicates an estimated value when a compound is detected at less than the specified detection limit.*
*d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used*
*Chlordane (Total) is sum of a-Chlordane and y-Chlordane.*

NW 11/17/21

# Form1

ORGANICS PCB REPORT

36

Sample Number: AD26083-036
Client Id: LTM-2-20210916 U
Data File: 3G130771.D
Analysis Date: 09/29/21 13:00
Date Rec/Extracted: 09/17/21-09/20/21
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

**Units: ug/L**

| Cas # | Compound | RL | Conc | Cas # | Compound | RL | Conc |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 0.25 | U | 11097-69-1 | Aroclor-1254 | 0.25 | U |
| 11104-28-2 | Aroclor-1221 | 0.25 | U | 11096-82-5 | Aroclor-1260 | 0.25 | U |
| 11141-16-5 | Aroclor-1232 | 0.25 | U | 37324-23-5 | Aroclor-1262 | 0.25 | U |
| 53469-21-9 | Aroclor-1242 | 0.25 | U | 11100-14-4 | Aroclor-1268 | 0.25 | U |
| 12672-29-6 | Aroclor-1248 | 0.25 | U | 1336-36-3 | Aroclor (Total) | 0.25 | U |

Worksheet #: 610641

***Total Target Concentration*** 0

ColumnID: (^) Indicates results from 2nd column

***U - Indicates the compound was analyzed but not detected.***
***B - Indicates the analyte was found in the blank as well as in the sample.***
***E - Indicates the analyte concentration exceeds the calibration range of the instrument.***
***R - Retention Time Out***
***J - Indicates an estimated value when a compound is detected at less than the specified detection limit.***
***d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used***
***Chlordane (Total) is sum of a-Chlordane and y-Chlordane.***

NW 11/17/21

# Form1

## Inorganic Analysis Data Sheet

5

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-005 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | FB-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 15 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND UJ | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 20 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 15 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 15 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 15 | P | PEICP2A |

Comments: _____

_____

**Flag Codes:**

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

NW 11/7/21

# Form1

## Inorganic Analysis Data Sheet

5

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-005 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | FB-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND UJ | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 34 | | MSMS3_7700SWA |

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/17/21

# Form1

## Inorganic Analysis Data Sheet

8

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-008 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-11-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 16 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 120 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 140000 J | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1700 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 60000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 430 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND UJ | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 23 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 7100 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 16 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 39000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 16 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 16 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 11/7/21

# Form1

## Inorganic Analysis Data Sheet

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-008 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-11-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M. | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MSMS3_7700SWA | |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MSMS3_7700SWA | |
| 7440-41-7 | Beryllium | 1.0 | ND UJ | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MSMS3_7700SWA | |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MSMS3_7700SWA | |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MSMS3_7700SWA | |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MSMS3_7700SWA | |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MSMS3_7700SWA | |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 35 | MSMS3_7700SWA | |

Comments: _____

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**Flag Codes:**

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 11/17/21

# Form1

## Inorganic Analysis Data Sheet

9

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-009 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-01-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | ND | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 17 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 120 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-70-2 | Calcium | 5000 | 130000 J | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 1700 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7439-95-4 | Magnesium | 5000 | 60000 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 430 | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND UJ | 1 | 25 | 25 | 09/23/21 | 94427 | H27669SW | 24 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 6900 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 17 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-23-5 | Sodium | 5000 | 39000 | 1 | 50 | 50 | 09/28/21 | 94427 | W27669B5 | 17 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94427 | W27669C2 | 17 | P | PEICP2A |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

NW 11/17/21

# Form1

## Inorganic Analysis Data Sheet

9

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-009 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | DUP-01-20210913 | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | UJ 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/23/21 | 944272321ANEW | | 36 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 11/17/21

# Form1

## Inorganic Analysis Data Sheet

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-036 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-2-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 200 | 520 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 25 | P | PEICPRAD5A |
| 7440-39-3 | Barium | 50 | 53 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-70-2 | Calcium | 50000 | 1000000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 84 | P | PEICP2A |
| 7440-47-3 | Chromium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-50-8 | Copper | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7439-89-6 | Iron | 300 | 5000 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7439-95-4 | Magnesium | 50000 | 350000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 84 | P | PEICP2A |
| 7439-96-5 | Manganese | 40 | 6700 | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7439-97-6 | Mercury | 0.50 | ND UJ | 1 | 25 | 25 | 09/24/21 | 94428 | H27670SW | 30 | CV | HGCV4A |
| 7440-02-0 | Nickel | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-09-7 | Potassium | 5000 | 36000 | 1 | 50 | 50 | 09/28/21 | 94428 | W27669C5 | 25 | P | PEICPRAD5A |
| 7440-22-4 | Silver | 20 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-23-5 | Sodium | 50000 | 2500000 | 10 | 50 | 50 | 09/29/21 | 94428 | W27669E5 | 56 | P | PEICPRAD5A |
| 7440-62-2 | Vanadium | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |
| 7440-66-6 | Zinc | 50 | ND | 1 | 50 | 50 | 09/29/21 | 94428 | W27669C2 | 51 | P | PEICP2A |

Comments: _____

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**Flag Codes:**

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 11/17/21

# Form1

## Inorganic Analysis Data Sheet

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample ID: | AD26083-036 | % Solid: | 0 | Lab Name: | Hampton-Clarke | Nras No: | |
| Client Id: | LTMW-2-20210916 U | Units: | UG/L | Lab Code: | | Sdg No: | |
| Matrix: | AQUEOUS | Date Rec: | 9/17/2021 | Contract: | | Case No: | |
| Level: | LOW | | | | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Initial Wt/Vol | Final Wt/Vol | Analysis Date | Prep Batch | File: | Seq Num | M | Instr |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | | MSMS3_7700SWA |
| 7440-38-2 | Arsenic | 2.0 | 7.0 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | | MSMS3_7700SWA |
| 7440-41-7 | Beryllium | 1.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | | MSMS3_7700SWA |
| 7440-43-9 | Cadmium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | | MSMS3_7700SWA |
| 7440-48-4 | Cobalt | 2.0 | 7.3 | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | | MSMS3_7700SWA |
| 7439-92-1 | Lead | 3.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | | MSMS3_7700SWA |
| 7782-49-2 | Selenium | 10 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | | MSMS3_7700SWA |
| 7440-28-0 | Thallium | 2.0 | ND | 1 | 50 | 100 | 09/24/21 | 944282421BNEW | | 45 | | MSMS3_7700SWA |

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 11/17/21

5

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-005
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | ND | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____



NW 11/17/21

8

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-008
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 590 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____



NW 11/17/21

9

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-009
Client ID: TRC-NYC

Level: low/med
Dilution: 1

Batch: 27669
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 33 | 580 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____



11/17/21

36

1

# INORGANIC ANALYSIS DATA SHEET

Lab Name: Hampton-Clarke
Data File Name: SW27669C2

Lab Code: 14622
Analysis Date: 09/29/2021

Matrix: Water
Lab Sample ID: AD26083-036
Client ID: TRC-NYC

Level: low/med
Dilution: 10

Batch: 27670
% Solid: 0

Concentration Units: Mg CaCO3/L

| Cas No. | Analyte | RL | Concentration | M |
|---|---|---|---|---|
| | Hardness | 330 | 4100 | P |

U - Indicates compound not found above detection/reporting limit
* - Indicates compound above calibration range
P - Indicates analyzed by ICP
CV - Indicates analyzed by Cold Vapor

Comments: _____



MW 11/17/21

# VERITECH Wet Chem Form1 Analysis Summary

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Lab#: AD26083-005
Matrix Aqueous
Client SampleID: FB-20210913

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | ND | mg CaCO3/l | 5.0 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.2 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | ND | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | ND | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | ND | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-006
Matrix Aqueous
Client SampleID: LTMW-9-20210913 U

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 210 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | 26 | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 34 | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 360 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-008
Matrix Aqueous
Client SampleID: LTMW-11-20210913

Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

8

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 360 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 5 | 170 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 5 | 110 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 840 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

MW 11/17/21

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-009
Matrix Aqueous
Client SampleID: DUP-01-20210913
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

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| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 360 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 5 | 160 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 5 | 100 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 790 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-011
Matrix Aqueous
Client SampleID: LTMW-7-20210913
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/13/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 200 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 5 | 73 | mg/L | 10 | 09/21/21 | 09/21/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/14/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | 25 | mg/L | 2.0 | 09/14/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 410 | mg/l | 40 | 09/15/21 | 09/16/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

Lab#: AD26083-012
Matrix Aqueous
Client SampleID: LTMW-21-20210914 U
Project Number: 1091738
Received Date: 9/17/2021
Collect Date: 9/14/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 59 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/22/21 | 09/22/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Chloride | CHLORIDE-ICW | 1 | 6.6 | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/15/21 | 09/15/21 |
| Sulfate | SO4-ICW | 1 | ND | mg/L | 2.0 | 09/15/21 | 09/15/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 92 | mg/l | 40 | 09/17/21 | 09/20/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/21/21 | 09/21/21 |

MW11/17/21

# VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD26083-035 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-18C-20210916 | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 75 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | 1.4 | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Chloride | CHLORIDE-ICW | 20 | 480 | mg/L | 40 | 09/21/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 20 | 96 | mg/L | 40 | 09/21/21 | 09/22/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 1100 | mg/l | 40 | 09/20/21 | 09/21/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-036 | Project Number: 1091738 | 36
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-2-20210916 U | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| Alkalinity | ALKALIN-MUR | 1 | 200 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 5 | 22 | mg/L | 5.0 | 09/21/21 | 09/22/21 |
| Chloride | CHLORIDE-ICW | 500 | 6800 | mg/L | 1000 | 09/21/21 | 09/22/21 |
| Cyanide | CN-W-9012 | 1 | ND | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/17/21 |
| Sulfate | SO4-ICW | 50 | 580 | mg/L | 100 | 09/21/21 | 09/22/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 19000 | mg/l | 200 | 09/22/21 | 09/23/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

Lab#: AD26083-038 | Project Number: 1091738
Matrix: Aqueous | Received Date: 9/17/2021
Client SampleID: LTMW-18UG-20210916 U | Collect Date: 9/16/2021

| Analysis | TestGroup | Dilution: | Result | Units: | RL | Prep Date: | Analysis Date: |
|---|---|---|---|---|---|---|---|
| pH Endpoint | ALKALIN-MUR | 1 | 4.5 | pH | | 09/21/21 | 09/21/21 |
| Alkalinity | ALKALIN-MUR | 1 | 48 | mg CaCO3/l | 10 | 09/21/21 | 09/21/21 |
| Ammonia | AMMONIA-MUR | 1 | ND | MG/L | 1.0 | 09/24/21 | 09/24/21 |
| Bromide | BROMIDE-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Chloride | CHLORIDE-ICW | 1 | 33 | mg/L | 2.0 | 09/17/21 | 09/18/21 |
| Cyanide | CN-W-9012 | 1 | 0.029 | mg/L | 0.020 | 09/20/21 | 09/20/21 |
| Nitrate | NO3-ICW | 1 | ND | mg/L | 1.0 | 09/17/21 | 09/18/21 |
| Sulfate | SO4-ICW | 1 | 5.5 | mg/L | 2.0 | 09/17/21 | 09/18/21 |
| Total Dissolved Solids @ 180 C | TDS-MUR | 1 | 160 | mg/l | 40 | 09/20/21 | 09/21/21 |
| Total Organic Carbon | TOC-WAT-MUR | 1 | ND | mg/L | 5.0 | 09/23/21 | 09/23/21 |

MW 11/17/21